

Factory Manchester

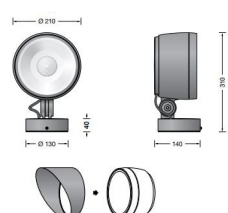
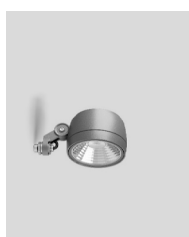
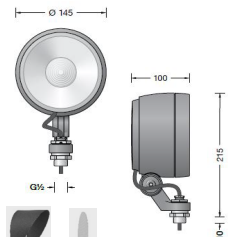
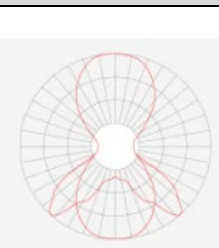
Lighting Schedule - External Lighting

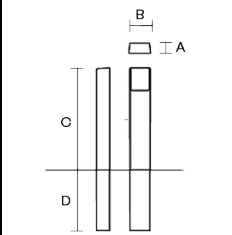
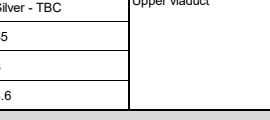
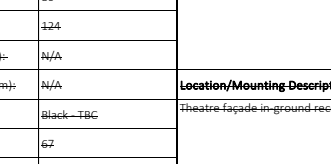
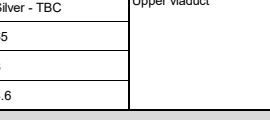
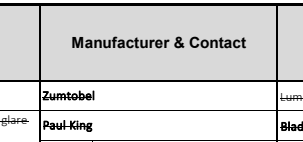
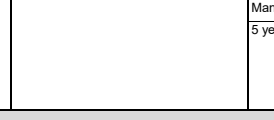
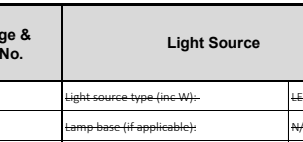
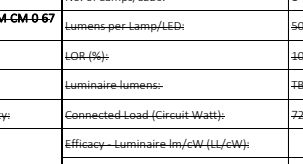
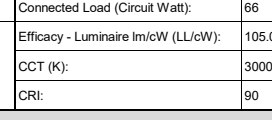
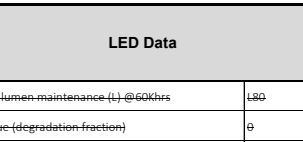
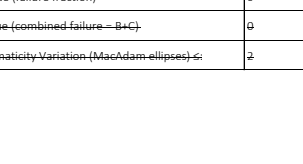
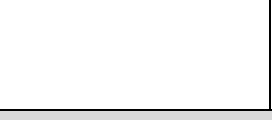
Job No: P2008093
Doc No: MF-BDP-XX-XX-SH-YX-70-8007
Issue: Contract Issue
Rev: C08
Date 18/07/2022

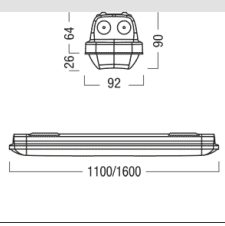
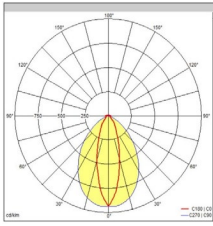
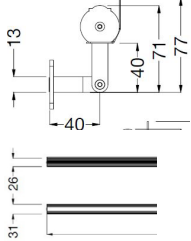
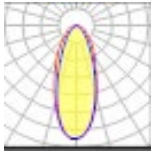
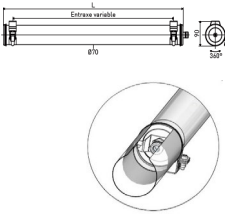
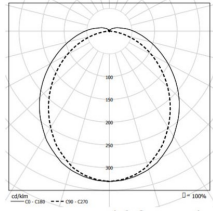
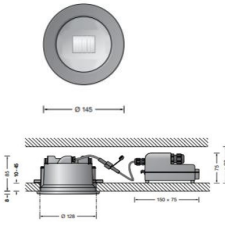
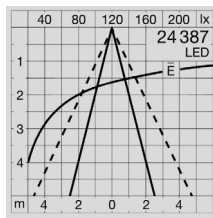
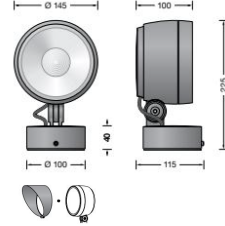
Issue Status

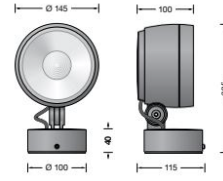
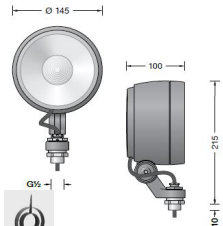
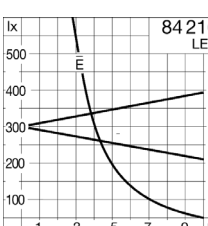
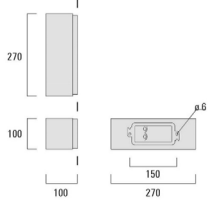
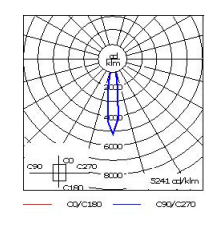
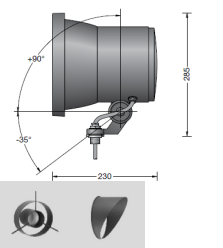
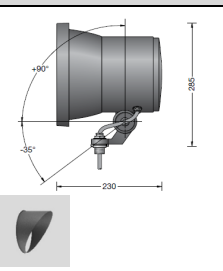
Revision	Description	Issued by	Date	Checked
C01	Contract issue - for reference with public realm issue	NM	16/10/20	CL
C02	Contract issue	NM	20/11/20	CL
C03	Contract issue	NM	01/12/20	CL
C04	Contract issue	NM	04/12/20	CL
C05	Contract issue	NM	18/01/21	CL
C06	Contract issue	NM	15/10/21	CL
C07	Contract issue	NM	19/04/22	CL
C08	Contract issue	NM	18/07/22	CL

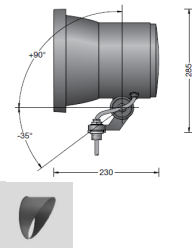
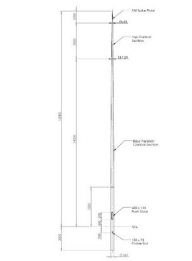
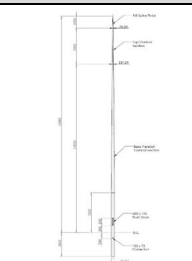
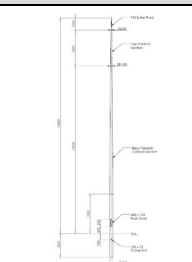
C07	Shading indicates 'C' revision updated information
C08	Shading indicates 'C' revision updated information

LUMINAIRE SCHEDULE																			
Ref.	Image	Dimensions	Luminaire Information		Description	Manufacturer & Contact		Product range & Catalogue No.		Light Source		LED Data		Photometry		Control Method		Notes	
External lighting																			
L**CE	Suffix denotes 3 hour Emergency Lighting Central Battery Supply Single supply - Standard Luminaire																		
L**CE-d	Suffix denotes 3 hour Emergency Lighting Central Battery Supply Dual supply, integral change over.																		
L1			Fixation type	wall mounted	Luminaire Description	Bega		Luminaire Range:		Light source type (inc W):	LED	L LED lumen maintenance (L) @50Khrs		-		ON/OFF		Location/installation notes:	
			Length (mm):	-	LED performance floodlight with mounting box in compact design. Luminaire made of aluminium alloy,aluminium and stainless steel. Clear safety glass - Silicone gasket. Optical silicone lens - BEGA Hybrid Opticsb. Reflector surface made of pure aluminium. Rotation range of floodlight 350°. Symmetrical wide beam	Fiona Waterfield		Surface mounted projector		Lamp base (if applicable):	N/A	B Value (degradation fraction)		-		DMX			
			Width (mm):			t.	-	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)		-	DALI Broadcast					
			Height (mm):	310		m.	+44 (0)7813 948746	84224k3+71121		Lumens per Lamp/LED:	9115	F Value (combined failure = B+C)		-		DALI Dimmable	✓		
			Diameter ø (mm):	210		e.	Fiona.Waterfield@fagerhult.co.uk	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:		-	DSI					
			Recess depth (mm):	-	Location/Mounting Description	www.		TBC by manufacturer	Luminaire lumens:	6813			1-10V Analogue						
			Finish:	TBC	To be surface mounted to highlight the service yard and upper viaduct		5 years	Connected Load (Circuit Watt):	66		Trailing Edge Analogue								
			IP rating:	65	Efficacy - Luminaire lm/cW (LL/cW):			103.23	Leading edge Analogue										
			IK rating:	-	CCT (K):			3000K											
			Weight (kg):	4.6	CRI:			90											
L2			Fixation type	Parapet	Luminaire Description	Bega		Luminaire Range:		Light source type (inc W):	LED	L LED lumen maintenance (L) @170Khrs		-		ON/OFF		Location/installation notes:	
			Length (mm):	-	LED floodlight with G½ mounting bush. 46deg beam + spreader lens	Fiona Waterfield		Performance floodlight		Lamp base (if applicable):	N/A	B Value (degradation fraction)		80		DMX			
			Width (mm):		Accessories	t.	-	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)		-	DALI Broadcast					
			Height (mm):	100	Lens - 71120A Shield - 71118 A Mounting box - 70 245 A	m.	+44 (0)7813 948746	84 217A K3		Lumens per Lamp/LED:	2440	F Value (combined failure = B+C)		-		DALI Dimmable	✓		
			Diameter ø (mm):	145		e.	Fiona.Waterfield@fagerhult.co.uk	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:		-	DSI					
			Recess depth (mm):	-	Location/Mounting Description	www.		TBC by manufacturer	Luminaire lumens:	1911			1-10V Analogue						
			Finish:	Silver	Truck lift access road		5 years	Connected Load (Circuit Watt):	19		Trailing Edge Analogue								
			IP rating:	65	Efficacy - Luminaire lm/cW (LL/cW):			100.58	Leading edge Analogue										
			IK rating:	8	CCT (K):			3000K											
			Weight (kg):	1.8	CRI:			90											
L3			Fixation type	Parapet	Luminaire Description	Bega		Luminaire Range:		Light source type (inc W):	LED	L LED lumen maintenance (L) @140Khrs		-		ON/OFF		Location/installation notes:	
			Length (mm):	-	LED floodlight with G½ mounting bush. 25deg beam	Fiona Waterfield		Performance floodlight		Lamp base (if applicable):	N/A	B Value (degradation fraction)		80		DMX			
			Width (mm):		Accessories	t.	-	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)		-	DALI Broadcast					
			Height (mm):	130	Louvre - 71122a Shield - 71121A Mounting box - 70 245 A	m.	+44 (0)7813 948746	84 226A K3		Lumens per Lamp/LED:		F Value (combined failure = B+C)		-		DALI Dimmable	✓		
			Diameter ø (mm):	210		e.	Fiona.Waterfield@fagerhult.co.uk	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:		-	DSI					
			Recess depth (mm):	-	Location/Mounting Description	www.		TBC by manufacturer	Luminaire lumens:	6931			1-10V Analogue						
			Finish:	Silver	Truck lift entrance		5 years	Connected Load (Circuit Watt):	66		Trailing Edge Analogue								
			IP rating:	65	Efficacy - Luminaire lm/cW (LL/cW):			105.02	Leading edge Analogue										
			IK rating:	-	CCT (K):			3000K											
			Weight (kg):	4.4	CRI:			90											
L4			Fixation type	Handrail	Luminaire Description	DW Windsor		Luminaire Range:		Light source type (inc W):	LED	L LED lumen maintenance (L) @50Khrs		-		ON/OFF		Location/installation notes:	
			Length (mm):	300	Integrated handrail lighting with symetrical light distribution.	Paul Murphy		Garda		Lamp base (if applicable):	N/A	B Value (degradation fraction)		-		DMX			
			Width (mm):	-	DW Windsor to supply full metal work and light modules as a package.	t.	01992 474600	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)		-	DALI Broadcast					
			Height (mm):	-		m.	-		Lumens per Lamp/LED:		F Value (combined failure = B+C)		-	DALI Dimmable		✓			
			Diameter ø (mm):	-		e.	PaulMurphy@dwwindor.co.uk	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:		-	DSI					
			Recess depth (mm):	-	Location/Mounting Description	www.	z	TBC by manufacturer	Luminaire lumens:	243			1-10V Analogue						
			Finish:	Stainless Steel	LED modules to be installed into metal work as per Planit drawing 'MF-PLA-XX-GF-DR-L-10-7005.'		5 years	Connected Load (Circuit Watt):	3.6		Trailing Edge Analogue								
			IP rating:	65	Efficacy - Luminaire lm/cW (LL/cW):			67.50	Leading edge Analogue										
			IK rating:	-	CCT (K):			3000K											
			Weight (kg):	4.6	CRI:			80											

Ref.	Image	Dimensions	Luminaire Information		Description	Manufacturer & Contact		Product range & Catalogue No.		Light Source		LED Data		Photometry		Control Method		Notes	
L5			Fixation type	inground	Luminaire Description Linear in-ground with integral driver. Cross anti-glare & micro louvre. 0deg tilt. Medium beam	Zumtobel		Luminaire Range:		Light source type (inc W):-	LED	L LED lumen maintenance (L) @60Khrs		L80		ON/OFF		Location/installation notes:-	
			length (mm):-	1236		Paul King		Blade Lri		Lamp base (if applicable):-	N/A	B Value (degradation fraction)		9		DMX			
			Width (mm):-	80		t. +441753482650		Catalogue No.:-		No. of Lamps/LEDs:-	4	C Value (failure fraction)		0		DALI Broadcast			
			Height (mm):-	124		m. 00447748775411		BL LRI-L12 5000-840 M-CM-0 67 HFX		Lumens per Lamp/LED:-	5000	F Value (combined failure = B+C)		0		DALI Dimmable	✓		
			Diameter ø (mm):-	N/A		e. paul.king@zumtobelgroup.com		Accessories:-		LOR (%):-	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:-		2		DSI			
			Recess depth (mm):-	N/A	www. zumtobel.com		TBC by manufacturer		Luminaire lumens:-	TBC			1-10V Analogue						
			Finish:-	Black -TBC			Manufacturer Warranty:-		Connected Load (Circuit Watt):-	72			Trailing Edge Analogue						
			IP rating:-	67			5 years		Efficacy - Luminaire lm/cW (LL/cW):-				Leading edge Analogue						
			IK rating:-	10			CCT (K):-		4000K										
			Weight (kg):-	5.44									CRI:-	80					
	Indicative image - specification may vary.		Indicative image - specification may vary.																
L6			Fixation type	Root	Luminaire Description Bollard offers functional lighting for wayfinding alongside comfortable, ambient lighting for enhanced vertical illumination.	DW Windsor		Luminaire Range:		Light source type (inc W):-	LED	L LED lumen maintenance (L) @50Khrs		-		ON/OFF		Location/installation notes:-	
			Length (mm):-	55		Paul Murphy		Ren		Lamp base (if applicable):-	N/A	B Value (degradation fraction)		80		DMX			
			Width (mm):-	90		t. 01992 474600		Catalogue No.:-		No. of Lamps/LEDs:-	1	C Value (failure fraction)		-		DALI Broadcast			
			Height (mm):-	600		m. -		RE-90-06-PP-30-DB-R		Lumens per Lamp/LED:-		F Value (combined failure = B+C)		-		DALI Dimmable	✓		
			Diameter ø (mm):-	-		e. PaulMurphy@dwwindor.co.uk		Accessories:-		LOR (%):-	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:-		-		DSI			
			Recess depth (mm):-	300	www. -		TBC by manufacturer		Luminaire lumens:-	254			1-10V Analogue						
			Finish:-	Metallic dark grey			Manufacturer Warranty:-		Connected Load (Circuit Watt):-	8			Trailing Edge Analogue						
			IP rating:-	66			5 years		Efficacy - Luminaire lm/cW (LL/cW):-	31.75			Leading edge Analogue						
			IK rating:-	-			CCT (K):-		3000K										
			Weight (kg):-	4.6									CRI:-	80					
	Indicative image - specification may vary.		Indicative image - specification may vary.																
L7			Fixation type	soffit/ceiling mounted	Luminaire Description Wide flood projector with diffuser screen. Special bespoke bracket required to allow shallow surface mounting.	IGuzzini		Luminaire Range:		Light source type (inc W):-	LED	L LED lumen maintenance (L) @100Khrs		-		ON/OFF		Location/installation notes:-	
			Length (mm):-	-		Andrew Talyor				Lamp base (if applicable):-	N/A	B Value (degradation fraction)		90		DMX			
			Width (mm):-	-		t. +441706225898		Catalogue No.:-		No. of Lamps/LEDs:-	1	C Value (failure fraction)		-		DALI Broadcast			
			Height (mm):-	121		m. +447786061284		EV59+Ta35°C + X513		Lumens per Lamp/LED:-	36350	F Value (combined failure = B+C)		-		DALI Dimmable	✓		
			Diameter ø (mm):-	516		e. andrew.taylor@iguzzini.co.uk		Accessories:-		LOR (%):-	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:-		3		DSI			
			Recess depth (mm):-	-	www. iguzzini.com		Bespoke bracket + diffuser		Luminaire lumens:-	24354			1-10V Analogue						
			Finish:-	Grey			Manufacturer Warranty:-		Connected Load (Circuit Watt):-	270			Trailing Edge Analogue						
			IP rating:-	66			5 years		Efficacy - Luminaire lm/cW (LL/cW):-	90.20			Leading edge Analogue						
			IK rating:-	8			CCT (K):-		3000K										
			Weight (kg):-	15									CRI:-	80					
	Indicative image - specification may vary.		Indicative image - specification may vary.																
L8			Fixation type	Wall mounted	Luminaire Description Adjustable luminaire with a mounting bracket, with 180° tilt range. Housing made of corrosion resistant die cast aluminium, stainless steel and tempered safety glass. Integral dimmable driver.	Meyer (Commercial Lighting)		Luminaire Range:		Light source type (inc W):-	LED	L LED lumen maintenance (L) @170Khrs		-		ON/OFF		Location/installation notes:-	
			Length (mm):-	-		Howard Lawrence		Monospot 2		Lamp base (if applicable):-	N/A	B Value (degradation fraction)		80		DMX			
			Width (mm):-	185		t. +44 1489 581002		Catalogue No.:-		No. of Lamps/LEDs:-	1	C Value (failure fraction)		-		DALI Broadcast			
			Height (mm):-	153		m. +44 (0) 7885674299		8 902 055 118		Lumens per Lamp/LED:-		F Value (combined failure = B+C)		-		DALI Dimmable	✓		
			Diameter ø (mm):-	99/133		e. Howard@commercial-lighting.co.uk		Accessories:-		LOR (%):-	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:-		-		DSI			
			Recess depth (mm):-	-	www. -		129 0 723 950		Luminaire lumens:-	1151			1-10V Analogue						
			Finish:-	Silver - TBC			Manufacturer Warranty:-		Connected Load (Circuit Watt):-	14			Trailing Edge Analogue						
			IP rating:-	67			5 years		Efficacy - Luminaire lm/cW (LL/cW):-	82.21			Leading edge Analogue						
			IK rating:-	8			CCT (K):-		4000										
			Weight (kg):-	1.9									CRI:-	80					
	Indicative image - specification may vary.		Indicative image - specification may vary.																
L9			Fixation type	wall mounted	Luminaire Description Floodlights with mounting bracket - Symmetrical narrow beam light distribution Half beam angle 25°	Bega		Luminaire Range:		Light source type (inc W):-	LED	L LED lumen maintenance (L) @170Khrs		-		ON/OFF		Location/installation notes:-	
			Length (mm):-	310		Fiona Waterfield		Bega Floodlights		Lamp base (if applicable):-	N/A	B Value (degradation fraction)		80		DMX			
			Width (mm):-	-		t. -		Catalogue No.:-		No. of Lamps/LEDs:-	1	C Value (failure fraction)		-		DALI Broadcast			
			Height (mm):-	140		m. +44 (0)7813 948746		84 223 K3		Lumens per Lamp/LED:-	9115	F Value (combined failure = B+C)		-		DALI Dimmable	✓		
			Diameter ø (mm):-	210		e. Fiona.Waterfield@fagerhult.co.uk		Accessories:-		LOR (%):-	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:-		-		DSI			
			Recess depth (mm):-	-	www. -		TBC by manufacturer		Luminaire lumens:-	6931			1-10V Analogue						
			Finish:-	Silver - TBC			Manufacturer Warranty:-		Connected Load (Circuit Watt):-	66			Trailing Edge Analogue						
			IP rating:-	65			5 years		Efficacy - Luminaire lm/cW (LL/cW):-	105.02			Leading edge Analogue						
			IK rating:-	8			CCT (K):-		3000K										
			Weight (kg):-	4.6									CRI:-	90					
	Indicative image - specification may vary.		Indicative image - specification may vary.																

Ref.	Image	Dimensions	Luminaire Information		Description	Manufacturer & Contact	Product range & Catalogue No.	Light Source		LED Data		Photometry	Control Method	Notes
L10			Fixation type	wall mounted	Luminaire Description LED Moisture-proof diffuser luminaire with IP66 protection rating and drip-edge effect for minimising dirt and collection of dust for maximum hygienic requirements. Narrow beam optic	Zumtobel	Luminaire Range:	Light source type (inc W):	LED	L LED lumen maintenance (L) @50Khrs	L80		ON/OFF	Location/installation notes:
			Length (mm):	1600		Paul King	Amphibia AMP L 6400-840 PM NB LDO	Lamp base (if applicable):	N/A	B Value (degradation fraction)	0		DMX	
			Width (mm):	92		t. -	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)	0		DALI Broadcast	
			Height (mm):	90		m. +44 7748 775 411	42929269	Lumens per Lamp/LED:	-	F Value (combined failure = B+C)	0		DALI Dimmable	
			Diameter ø (mm):	-		e. paul.king@zumtobelgroup.com	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:	3		DSI	
L11			Fixation type	wall mounted	Luminaire Description Linear uplight with cowl. Horizontal 40mm mounting bracket. Remote drivers located within trucklift.	Kemps lighting	Luminaire Range:	Light source type (inc W):	LED	L LED lumen maintenance (L) @50Khrs	L80		ON/OFF	Location/installation notes:
			Length (mm):	2000		Nick Rockliff	Zeta 40	Lamp base (if applicable):	N/A	B Value (degradation fraction)	0		DMX	
			Width (mm):	-		t. 0113 263 9039	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)	0		DALI Broadcast	
			Height (mm):	-		m. -	ZE-40-40-45-66-40H-C-C-G	Lumens per Lamp/LED:	-	F Value (combined failure = B+C)	0		DALI Dimmable	
			Diameter ø (mm):	31		e. nickrockliff@kempslighting.com	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:	3		DSI	
L12			Fixation type	soffit/ceiling mounted	Luminaire Description Tubular luminaire with Polycarbonate housing (960° C). Class II enclosure Location/Mounting Description Theatre soffit Luminaire to be end-to-end mounted using joining piece supplied by manufacturer. Through-wire solution with fire rated cable.	Sammode (Sill distributor)	Luminaire Range:	Light source type (inc W):	LED	L LED lumen maintenance (L) @50Khrs	L80		ON/OFF	Location/installation notes: Two live connections for emergency and non-emergency supplies 
			Length (mm):	1840		Tony Graycome	TURNER 70 1840 4200-840 PO	Lamp base (if applicable):	N/A	B Value (degradation fraction)	0		DMX	
			Width (mm):	-		t. -	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)	0		DALI Broadcast	
			Height (mm):	90		m. 07803 632 206	14905113	Lumens per Lamp/LED:	-	F Value (combined failure = B+C)	0		DALI Dimmable	
			Diameter ø (mm):	70		e. TonyGraycome@sill-uk.com	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:	3		DSI	
L12CE-d	As above.	As above.	Fixation type	As above.	As above but with 3 hour Emergency Lighting Central Battery Supply. Luminaire to work at 25% dimming in case of emergency. Dimming level to be pre-set so loss of DALI signal defaults to 25% output. Luminaire to have dual supply - integral change over.	As above.	Catalogue No.:	As above.	As above.	As above.	As above.	As above.	As above.	Location/installation notes:
			Length (mm):	1840			TURNER 70 1840 4200-840 PO							
			Width (mm):	-			Catalogue No.:							
			Height (mm):	90			14905113							
			Diameter ø (mm):	70			Accessories:							
L13			Fixation type	wall mounted	Luminaire Description LED recessed ceiling downlight with external DALI controllable power supply unit for installation into concrete ceilings or suspended ceilings both indoors and out. With flat beam light distribution.	Bega	Luminaire Range:	Light source type (inc W):	LED	L LED lumen maintenance (L) @170Khrs	-		ON/OFF	Location/installation notes:
			Length (mm):	-		Fiona Waterfield	Bega Recessed ceiling luminaire	Lamp base (if applicable):	N/A	B Value (degradation fraction)	80		DMX	
			Width (mm):	-		t. -	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)	-		DALI Broadcast	
			Height (mm):	85		m. +44 (0)7813 948746	24 387K3	Lumens per Lamp/LED:	1465	F Value (combined failure = B+C)	-		DALI Dimmable	
			Diameter ø (mm):	145		e. Fiona.Waterfield@fagerhult.co.uk	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:	-		DSI	
L14			Fixation type	column mounted	Luminaire Description LED floodlight with Mounting box with 2 fixing holes ø 4.5mm - 46deg beam Accessories Shield - 71118 A Location/Mounting Description Warehouse annex soffit uplight	Bega	Luminaire Range:	Light source type (inc W):	LED	L LED lumen maintenance (L) @170Khrs	-		ON/OFF	Location/installation notes:
			Length (mm):	-		Fiona Waterfield	Performance floodlight	Lamp base (if applicable):	N/A	B Value (degradation fraction)	80		DMX	
			Width (mm):	-		t. -	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)	-		DALI Broadcast	
			Height (mm):	100		m. +44 (0)7813 948746	84 210A K3	Lumens per Lamp/LED:	1911	F Value (combined failure = B+C)	-		DALI Dimmable	
			Diameter ø (mm):	145		e. Fiona.Waterfield@fagerhult.co.uk	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:	-		DSI	

Ref.	Image	Dimensions	Luminaire Information		Description	Manufacturer & Contact		Product range & Catalogue No.		Light Source		LED Data		Photometry	Control Method		Notes
L14S			Fixation type	column mounted	Luminaire Description	Bega	Luminaire Range:	Light source type (inc W):	LED	L LED lumen maintenance (L) @170Khrs	-		ON/OFF		Location/installation notes:		
			Length (mm):	-	LED floodlight with Mounting box with 2 fixing holes ø 4.5mm · 46deg beam	Fiona Waterfield	Performance floodlight	Lamp base (if applicable):	N/A	B Value (degradation fraction)	80		DMX				
			Width (mm):			t.	-	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)		-	DALI Broadcast			
			Height (mm):	100	Accessories Spreader lens - 71120	m.	+44 (0)7813 948746	84 210A K4	Lumens per Lamp/LED:	1924	F Value (combined failure = B+C)		-	DALI Dimmable		✓	
			Diameter ø (mm):	145		e.	Fiona.Waterfield@fagerhult.co.uk	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:		-	DSI			
			Recess depth (mm):	-	Location/Mounting Description	www.		TBC by manufacturer	Luminaire lumens:	1942			1-10V Analogue				
	Finish:	Silver	Warehouse annex soffit uplight			Manufacturer Warranty:	Connected Load (Circuit Watt):	19		Trailing Edge Analogue							
IP rating:	65				5 years	Efficacy - Luminaire lm/cW (LL/cW):	102.21		Leading edge Analogue								
IK rating:	8					CCT (K):	4000K										
Weight (kg):	1.9						CRI:	90									
L15			Fixation type	soffit/ceiling mounted	Luminaire Description	Bega	Luminaire Range:	Light source type (inc W):	LED	L LED lumen maintenance (L) @170Khrs	-		ON/OFF		Location/installation notes:		
			Length (mm):	-	LED floodlight with G½ mounting bush. Symmetrical narrow beam light distribution. Half beam angle 18°	Fiona Waterfield	Performance floodlight	Lamp base (if applicable):	N/A	B Value (degradation fraction)	80		DMX				
			Width (mm):			t.	-	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)		-	DALI Broadcast			
			Height (mm):	100	Accessories Louvre - 71119	m.	+44 (0)7813 948746	84 216A K3	Lumens per Lamp/LED:	2440	F Value (combined failure = B+C)		-	DALI Dimmable		✓	
			Diameter ø (mm):	145		e.	Fiona.Waterfield@fagerhult.co.uk	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:		-	DSI			
			Recess depth (mm):	-	Location/Mounting Description	www.		TBC by manufacturer	Luminaire lumens:	1906			1-10V Analogue				
	Finish:	Silver	Warehouse soffit, luminaire to mounted in a circular arrangement.			Manufacturer Warranty:	Connected Load (Circuit Watt):	19		Trailing Edge Analogue							
IP rating:	65				5 years	Efficacy - Luminaire lm/cW (LL/cW):	100.32		Leading edge Analogue								
IK rating:	8					CCT (K):	3000K										
Weight (kg):	1.8						CRI:	90									
L16			Fixation type	wall mounted	Luminaire Description	We-ef	Luminaire Range:	Light source type (inc W):	LED	L LED lumen maintenance (L) @170Khrs	-		ON/OFF		Location/installation notes:		
			Length (mm):	270	Wall mounted luminaire with narrow beam optic. IP66, Class I, IK08, Marine-grade, die-cast aluminium alloy.	David Bell	RLS420 LED	Lamp base (if applicable):	N/A	B Value (degradation fraction)	80		DMX				
			Width (mm):	100		t.	-	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)		-	DALI Broadcast			
			Height (mm):	100	DALI - 430-0013 Honeycomb louvre - 131-9706	m.	07921 292161	131-9618	Lumens per Lamp/LED:	2839	F Value (combined failure = B+C)		-	DALI Dimmable		✓	
			Diameter ø (mm):	-		e.	d.bell@we-ef.com	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:		-	DSI			
			Recess depth (mm):	-	Location/Mounting Description	www.	-	TBC by manufacturer	Luminaire lumens:	2839			1-10V Analogue				
	Finish:	RAL9007 Grey aluminium	To be wall mounted to colonnaded Viaduct and fed from the factory building			Manufacturer Warranty:	Connected Load (Circuit Watt):	30		Trailing Edge Analogue							
IP rating:	65				5 years	Efficacy - Luminaire lm/cW (LL/cW):	94.63		Leading edge Analogue								
IK rating:	8					CCT (K):	2700										
Weight (kg):	1.8						CRI:	80									
C1			Fixation type	column mounted	Luminaire Description	Bega	Luminaire Range:	Light source type (inc W):	LED	L LED lumen maintenance (L) @150Khrs	-		ON/OFF		Location/installation notes:		
			Length (mm):	-	LED floodlight with G½ mounting bush. 25deg beam	Fiona Waterfield	Compact floodlight	Lamp base (if applicable):	N/A	B Value (degradation fraction)	80		DMX				
			Width (mm):	-		t.	-	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)		-	DALI Broadcast			
			Height (mm):	-	Accessories Louvre - 70775 Shield - 70758	m.	+44 (0)7813 948746	77652 K3	Lumens per Lamp/LED:		F Value (combined failure = B+C)		-	DALI Dimmable		✓	
			Diameter ø (mm):	230		e.	Fiona.Waterfield@fagerhult.co.uk	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:		-	DSI			
			Recess depth (mm):	-	Location/Mounting Description	www.		TBC by manufacturer	Luminaire lumens:	4472			1-10V Analogue				
	Finish:	RAL 7016 - TBC	Factory Square			Manufacturer Warranty:	Connected Load (Circuit Watt):	52.5		Trailing Edge Analogue							
IP rating:	65				5 years	Efficacy - Luminaire lm/cW (LL/cW):	85.18		Leading edge Analogue								
IK rating:	9					CCT (K):	3000K										
Weight (kg):	3.44						CRI:	90									
C2			Fixation type	column mounted	Luminaire Description	Bega	Luminaire Range:	Light source type (inc W):	LED	L LED lumen maintenance (L) @150Khrs	-		ON/OFF		Location/installation notes:		
			Length (mm):	-	LED floodlight with G½ mounting bush. 51deg beam	Fiona Waterfield	Compact floodlight	Lamp base (if applicable):	N/A	B Value (degradation fraction)	80		DMX				
			Width (mm):	-		t.	-	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)		-	DALI Broadcast			
			Height (mm):	-	Accessories Shield - 70758	m.	+44 (0)7813 948746	77653 K3	Lumens per Lamp/LED:		F Value (combined failure = B+C)		-	DALI Dimmable		✓	
			Diameter ø (mm):	230		e.	Fiona.Waterfield@fagerhult.co.uk	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:		-	DSI			
			Recess depth (mm):	-	Location/Mounting Description	www.		TBC by manufacturer	Luminaire lumens:	4547			1-10V Analogue				
	Finish:	RAL 7016 - TBC	Factory Square			Manufacturer Warranty:	Connected Load (Circuit Watt):	52.5		Trailing Edge Analogue							
IP rating:	65				5 years	Efficacy - Luminaire lm/cW (LL/cW):	86.61		Leading edge Analogue								
IK rating:	7					CCT (K):	3000K										
Weight (kg):	4						CRI:	90									

Ref.	Image	Dimensions	Luminaire Information		Description	Manufacturer & Contact		Product range & Catalogue No.		Light Source		LED Data		Photometry		Control Method		Notes	
C3			Fixation type	column mounted	Luminaire Description	Bega		Luminaire Range:		Light source type (inc W):	LED	L LED lumen maintenance (L) @145Khrs	-		ON/OFF		Location/installation notes:		
			Length (mm):	-	LED floodlight with G½ mounting bush. 50deg beam	Fiona Waterfield		Compact floodlight		Lamp base (if applicable):	N/A	B Value (degradation fraction)	80		DMX				
			Width (mm):	-	Accessories	t.	-	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)	-	DALI Broadcast						
			Height (mm):	-	Shield - 70758	m.	+44 (0)7813 948746	77797 K3	Lumens per Lamp/LED:		F Value (combined failure = B+C)	-	DALI Dimmable		✓				
			Diameter ø (mm):	230		e.	Fiona.Waterfield@fagerhult.co.uk	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:	-	DSI						
			Recess depth (mm):	-	Location/Mounting Description	www.		TBC by manufacturer	Luminaire lumens:	7761		1-10V Analogue							
			Finish:	RAL 7016 - TBC	Factory Square		Manufacturer Warranty:	Connected Load (Circuit Watt):	77	Trailing Edge Analogue									
			IP rating:	65	5 years		Efficacy - Luminaire lm/cW (LL/cW):	100.79	Leading edge Analogue										
			IK rating:	7			CCT (K):	3000K											
	Weight (kg):	4		CRI:	90														
Indicative image - specification may vary.		Indicative image - specification may vary.																	
C-A			Fixation type	Root mounted	Luminaire Description	Fabrikat		Luminaire Range:		Light source type (inc W):	LED	L LED lumen maintenance (L) @50Khrs	-		ON/OFF		Location/installation notes:		
			Length (mm):	-	18m tapered column with the below Bega projectors.	Fiona Waterfield		-		Lamp base (if applicable):	N/A	B Value (degradation fraction)	-		DMX				
			Width (mm):	-	x2 -'C1'	t.	-	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)	-	DALI Broadcast						
			Height (mm):	18,000	x3 -'C3'	m.	+44 (0)7813 948746	-	Lumens per Lamp/LED:		F Value (combined failure = B+C)	-	DALI Dimmable		✓				
			Diameter ø (mm):	267 at base		e.	Fiona.Waterfield@fagerhult.co.uk	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:	-	DSI						
			Recess depth (mm):	-	Location/Mounting Description	www.		TBC by manufacturer	Luminaire lumens:			1-10V Analogue							
			Finish:	RAL 7016 - TBC	Factory Square		Manufacturer Warranty:	Connected Load (Circuit Watt):		Trailing Edge Analogue									
			IP rating:	0	Projectors require mounting bracket - 71 042		5 years	Efficacy - Luminaire lm/cW (LL/cW):	#DIV/0!	Leading edge Analogue									
			IK rating:	-			CCT (K):	3000K											
	Weight (kg):	TBC		CRI:	90														
Indicative image - specification may vary.		Indicative image - specification may vary.																	
C-B			Fixation type	Root mounted	Luminaire Description	Fabrikat		Luminaire Range:		Light source type (inc W):	LED	L LED lumen maintenance (L) @50Khrs	-		ON/OFF		Location/installation notes:		
			Length (mm):	-	18m tapered column with the below Bega projectors.	Fiona Waterfield		-		Lamp base (if applicable):	N/A	B Value (degradation fraction)	-		DMX				
			Width (mm):	-	x3 -'C1'	t.	-	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)	-	DALI Broadcast						
			Height (mm):	18,000	x3 -'C2'	m.	+44 (0)7813 948746	-	Lumens per Lamp/LED:		F Value (combined failure = B+C)	-	DALI Dimmable		✓				
			Diameter ø (mm):	267 at base	x3 -'C3'	e.	Fiona.Waterfield@fagerhult.co.uk	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:	-	DSI						
			Recess depth (mm):	-	Location/Mounting Description	www.		TBC by manufacturer	Luminaire lumens:			1-10V Analogue							
			Finish:	RAL 7016 - TBC	Factory Square		Manufacturer Warranty:	Connected Load (Circuit Watt):		Trailing Edge Analogue									
			IP rating:	0	Projectors require mounting bracket - 71 042		5 years	Efficacy - Luminaire lm/cW (LL/cW):	#DIV/0!	Leading edge Analogue									
			IK rating:	-			CCT (K):	3000K											
	Weight (kg):	TBC		CRI:	90														
Indicative image - specification may vary.		Indicative image - specification may vary.																	
C-C			Fixation type	Root mounted	Luminaire Description	Fabrikat		Luminaire Range:		Light source type (inc W):	LED	L LED lumen maintenance (L) @50Khrs	-		ON/OFF		Location/installation notes:		
			Length (mm):	-	18m tapered column with the below Bega projectors.	Fiona Waterfield		-		Lamp base (if applicable):	N/A	B Value (degradation fraction)	-		DMX				
			Width (mm):	-	x4 -'C1'	t.	-	Catalogue No.:	No. of Lamps/LEDs:	1	C Value (failure fraction)	-	DALI Broadcast						
			Height (mm):	18,000	x4 -'C2'	m.	+44 (0)7813 948746	-	Lumens per Lamp/LED:		F Value (combined failure = B+C)	-	DALI Dimmable		✓				
			Diameter ø (mm):	267 at base		e.	Fiona.Waterfield@fagerhult.co.uk	Accessories:	LOR (%):	100.0%	Chromaticity Variation (MacAdam ellipses) ≤:	-	DSI						
			Recess depth (mm):	-	Location/Mounting Description	www.		TBC by manufacturer	Luminaire lumens:			1-10V Analogue							
			Finish:	RAL 7016 - TBC	Factory Square		Manufacturer Warranty:	Connected Load (Circuit Watt):		Trailing Edge Analogue									
			IP rating:	0	Projectors require mounting bracket - 71 042		5 years	Efficacy - Luminaire lm/cW (LL/cW):	#DIV/0!	Leading edge Analogue									
			IK rating:	-			CCT (K):	3000K											
	Weight (kg):	TBC		CRI:	90														
Indicative image - specification may vary.		Indicative image - specification may vary.																	

IMPORTANT NOTES

1. Catalogue numbers are included for reference only. Details to be checked against the description with the manufacturer.
2. Please refer to BDP Lighting for any queries or anomalies regarding items described in this document, prior to ordering.
3. The suffix & prefix 'E' 'CE' on the luminaire reference code denotes luminaires with emergency lighting function.
4. Standard manufacturer delivery lead time 6-12 weeks, ensure adequate time is programed for procurement.