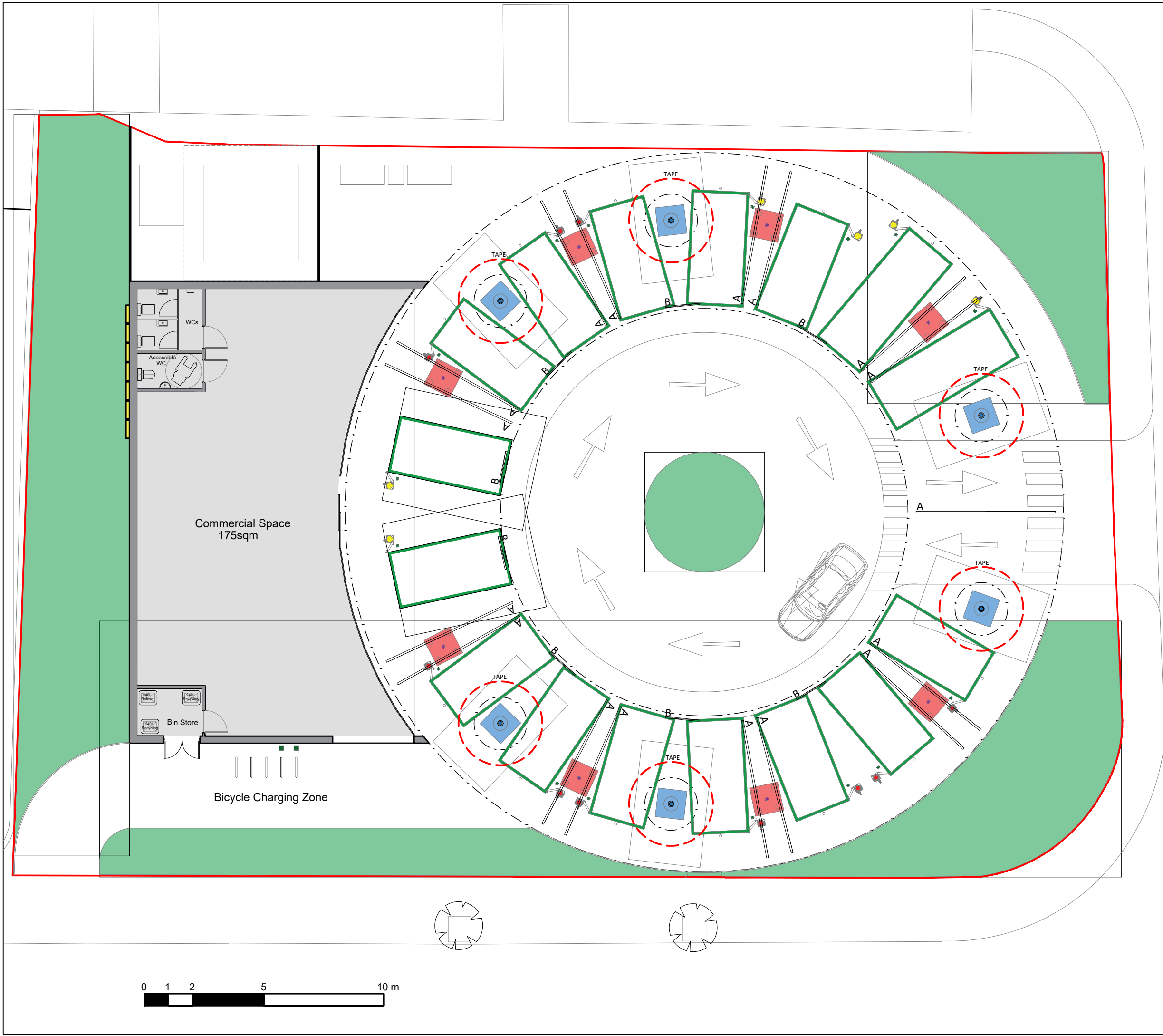




NOTES

1. Do not scale this drawing.
2. This drawing shows design intent only and not be used as a working drawing or installation drawing.
3. The drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings for specification.
4. Any discrepancies or ambiguities within the drawing should be reported to Steon.
5. The position of all equipment shown is indicative only.
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LEGENDS

A = Niko Recessed 4980mm Angled Output IP44 4000K

B = Niko 19W 1412mm Surface IP44 4000K

TAPE = Neon Flex Top Bending 11.5W/M 4000K



PROJECT

Reliance Street EV Charging Bays

TITLE

Lighting Layout

CLIENT

Be.EV

DRAWN BY JOSHUA.R	CHECKED BY LP	DATE 24/11/2022
SCALE (@A3) 1:150		PROJECT NUMBER STP08261
DRAWING NUMBER STEON - RELIANCE STREET CHARGING BAYS LIGHTING LAYOUT		REV A

Installation : Reliance Street EV Charging Bays

Project number : STP08261
Customer : Be.EV
Processed by : Joshua Rhodes
Date : 22.11.2022

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This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

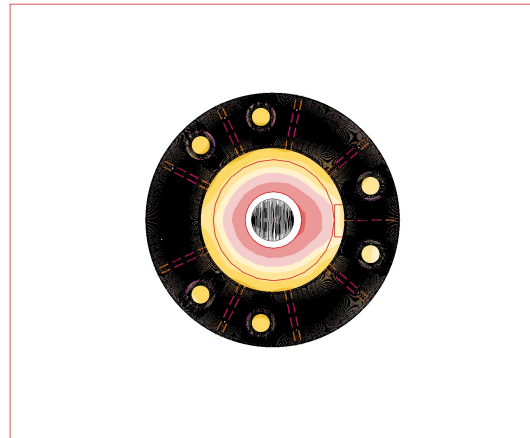
Joshua Rhodes

Steon Ltd, Bridgewater Court, Network 65 Business Park, Burnley, Lancashire, BB11 5ST

1 Exterior 1(21 Degree)

1.1 Summary, Exterior 1(21 Degree)

1.1.1 Result overview, Measuring area 1



-16 -6 -1 4 9 14 19 24 29 34 39 44 x [m]



0 0.10.150.2 0.3 0.50.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100150200300500750100050000000000500
 Illuminance [lx]

General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 0.80

Total luminous flux
 (Luminaires have been dimmed. For details see output page "Luminaire data/Room elements".)

197621.5 lm (dimmed to 57.63%)

Total power
 Total power per area (3218.75 m²)

3280 W
 1.02 W/m²

Illuminance

Average illuminance	Em	152 lx
Minimum illuminance	Emin	38 lx
Maximum illuminance	Emax	279 lx
Uniformity Uo	Emin/Em	1:4.06 (0.25)
Diversity Ud	Emin/Emax	1:7.42 (0.13)

Type No. \ Make

2	126 x	Steon	
		Order No.	: Neon Flex 11.5W/M 3000K
		Luminaire name	: Neon Flex 11.5W/M 3000K
		Equipment	: 1 x 1 10 W / 317 lm

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 22.11.2022



1 Exterior 1(21 Degree)

1.1 Summary, Exterior 1(21 Degree)

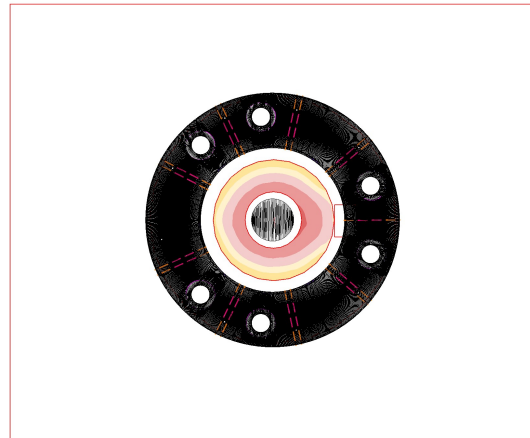
1.1.1 Result overview, Measuring area 1

Steon Lighting

3	34 x	Order No.	: 35-561-641-409
		Luminaire name	: Niko-R Line 26W LED 4000K 4176lm L1 (Cloud)
		Equipment	: 3 x 26W / 1392 lm
4	34 x	Order No.	: 35-561-642-409
		Luminaire name	: Niko-R Line 26W LED 4000K 4176lm L2 (Cloud)
		Equipment	: 3 x 26W / 1392 lm
9	8 x	Order No.	: 35-481-541-403
		Luminaire name	: Niko 19W LED - 4000K 1400mm(Cloud Lens)
		Equipment	: 1 x 19 23 W / 2378 lm

1.1 Summary, Exterior 1(21 Degree)

1.1.2 Result overview, Measuring area 2



-16 -6 -1 4 9 14 19 24 29 34 39 44 x [m]



0 0.10.150.2 0.3 0.50.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100150200300500750100050000000000500
Illuminance [lx]

General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 0.80

Total luminous flux
 (Luminaires have been dimmed. For details see output page "Luminaire data/Room elements".)

197621.5 lm (dimmed to 57.63%)

Total power
 Total power per area (3218.75 m²)

3280 W
 1.02 W/m²

Illuminance

Average illuminance	Em	73 lx
Minimum illuminance	Emin	30 lx
Maximum illuminance	Emax	134 lx
Uniformity Uo	Emin/Em	1:2.39 (0.42)
Diversity Ud	Emin/Emax	1:4.42 (0.23)

Type No. \ Make

2	126 x	Steon	
		Order No.	: Neon Flex 11.5W/M 3000K
		Luminaire name	: Neon Flex 11.5W/M 3000K
		Equipment	: 1 x 1 10 W / 317 lm

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 22.11.2022



1.1 Summary, Exterior 1(21 Degree)

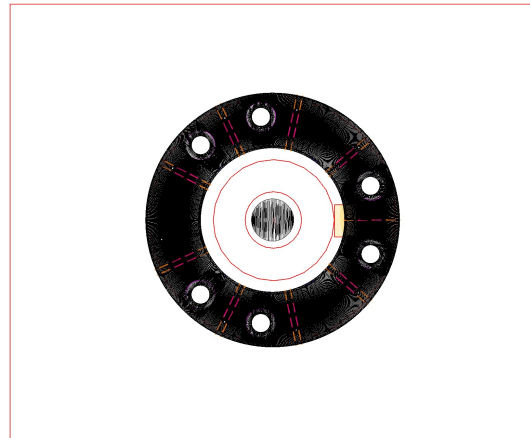
1.1.2 Result overview, Measuring area 2

Steon Lighting

3	34 x	Order No.	: 35-561-641-409
		Luminaire name	: Niko-R Line 26W LED 4000K 4176lm L1 (Cloud)
		Equipment	: 3 x 26W / 1392 lm
4	34 x	Order No.	: 35-561-642-409
		Luminaire name	: Niko-R Line 26W LED 4000K 4176lm L2 (Cloud)
		Equipment	: 3 x 26W / 1392 lm
9	8 x	Order No.	: 35-481-541-403
		Luminaire name	: Niko 19W LED - 4000K 1400mm(Cloud Lens)
		Equipment	: 1 x 19 23 W / 2378 lm

1.1 Summary, Exterior 1(21 Degree)

1.1.3 Result overview, Measuring area 3



-16 -6 -1 4 9 14 19 24 29 34 39 44 x [m]



0 0.10.150.2 0.3 0.50.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100150200300500750100015002000300050007500

Illuminance [lx]

General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80

Total luminous flux	197621.5 lm (dimmed to 57.63%)
(Luminaires have been dimmed. For details see output page "Luminaire data/Room elements".)	

Total power	3280 W
Total power per area (3218.75 m ²)	1.02 W/m ²

Illuminance

Average illuminance	Em	123 lx
Minimum illuminance	Emin	86 lx
Maximum illuminance	Emax	155 lx
Uniformity Uo	Emin/Em	1:1.44 (0.7)
Diversity Ud	Emin/Emax	1:1.81 (0.55)

Type No. \ Make

2	126 x	Steon	
		Order No.	: Neon Flex 11.5W/M 3000K
		Luminaire name	: Neon Flex 11.5W/M 3000K
		Equipment	: 1 x 1 10 W / 317 lm

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 22.11.2022



1.1 Summary, Exterior 1(21 Degree)

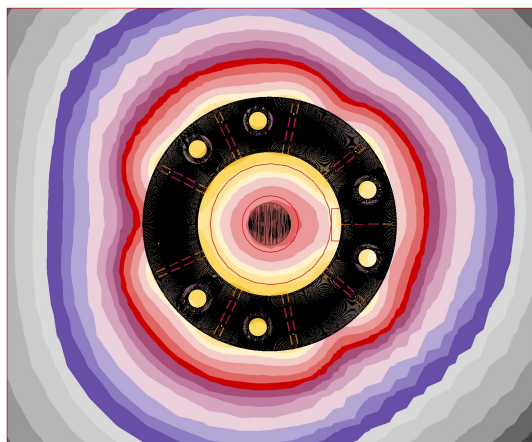
1.1.3 Result overview, Measuring area 3

Steon Lighting

3	34 x	Order No.	: 35-561-641-409
		Luminaire name	: Niko-R Line 26W LED 4000K 4176lm L1 (Cloud)
		Equipment	: 3 x 26W / 1392 lm
4	34 x	Order No.	: 35-561-642-409
		Luminaire name	: Niko-R Line 26W LED 4000K 4176lm L2 (Cloud)
		Equipment	: 3 x 26W / 1392 lm
9	8 x	Order No.	: 35-481-541-403
		Luminaire name	: Niko 19W LED - 4000K 1400mm(Cloud Lens)
		Equipment	: 1 x 19 23 W / 2378 lm

1.1 Summary, Exterior 1(21 Degree)

1.1.4 Result overview, Evaluation area 1



-16 -6 -1 4 9 14 19 24 29 34 39 44 x [m]



0 0.10.150.2 0.3 0.50.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 10015020030050075010005000000000000500
 Illuminance [lx]

General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux 197621.50 lm (dimmed to 57.63%)
 (Luminaires have been dimmed. For details see output page "Luminaire data/Room elements".)

Total power 3280.0 W
 Total power per area (3218.75 m²) 1.02 W/m² (2.73 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
 Em 37.3 lx
 Emin 0.2 lx
 Emin/Em (Uo) 0.00
 Emin/Emax (Ud) 0.00
 Position 0.00 m

Type No. Make

2 126 x **Steon**
 Order No. : Neon Flex 11.5W/M 3000K
 Luminaire name : Neon Flex 11.5W/M 3000K
 Equipment : 1 x 1 10 W / 317 lm

Object :
Installation : Reliance Street EV Charging Bays
Project number : STP08261
Date : 22.11.2022



1.1 Summary, Exterior 1(21 Degree)

1.1.4 Result overview, Evaluation area 1

Steon Lighting

3	34 x	Order No.	: 35-561-641-409
		Luminaire name	: Niko-R Line 26W LED 4000K 4176lm L1 (Cloud)
		Equipment	: 3 x 26W / 1392 lm
4	34 x	Order No.	: 35-561-642-409
		Luminaire name	: Niko-R Line 26W LED 4000K 4176lm L2 (Cloud)
		Equipment	: 3 x 26W / 1392 lm
9	8 x	Order No.	: 35-481-541-403
		Luminaire name	: Niko 19W LED - 4000K 1400mm(Cloud Lens)
		Equipment	: 1 x 19 23 W / 2378 lm

NIKO

LINEAR

Features:

- Available in three lengths
- Surface or suspended mounting
- IP44 (resists dirt ingress & splash proof)
- High performance energy efficient surface-mount-device (SMD) LEDs
- 3-step MacAdam ellipse LEDs
- Available in 4000K (cool white)
- CRI >80
- Average 100,000 hrs LED life - L80 B10

Options:

- Integral 3hr maintained emergency (excluding 572mm)
- Dimming version available
- 3000K (warm white) LED colour temperature available - on special request
- Technical lighting controls (please consult our technical department)
 - PRO ECO®
 - bluCONNECT®
 - SMARTMESH®



Accessories:

- 'I' type suspension kit (1.5m)

Material:

- Body: extruded aluminium
- Lens: acrylic

Finish:

- Body: metallic grey
- Lens: cloud (standard) or micro-prismatic (on special request)

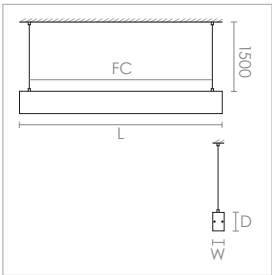
Colour:

 Anodised

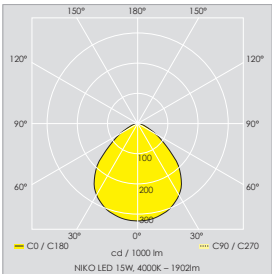
Beam Angle:



Technical



Photometrics





Project: East Manchester Youth Zone
Product: Niko

LINEAR



Niko						Ordering Code	Dimensions (mm)			
Wattage	Colour Temperature	Delivered Lumens	Luminous Efficacy	Emergency Lumens	Weight (Kg)		Length	Width	Depth	Fixing Centre
8W LED	4000K	951lm	119lm/W	-	1.5	35-481-241-403	572	63	74	440
12W LED	4000K	1555lm	130lm/W	-	1.5	35-482-241-403	572	63	74	440
15W LED	4000K	1902lm	127lm/W	249lm	2.7	35-481-441-403	1132	63	74	1000
25W LED	4000K	3111lm	124lm/W	311lm	2.7	35-482-441-403	1132	63	74	1000
19W LED	4000K	2378lm	125lm/W	311lm	2.73	35-481-541-403	1412	63	74	1200
31W LED	4000K	3889lm	125lm/W	311lm	3.25	35-482-541-403	1412	63	74	1200
Options						Weight (Kg)	Add to Ordering Code			
Emergency (3 hour)  - Excluding 572mm						0.11	E3-			
DALI (digital) dimming							/DD			
Accessories							Ordering Code			
'I' type suspension kit							A35-02-08-00			

NIKO-R LINE

Features:

- Continuous linear system
- Recessed mounting (partially or fully recessed)
- IP44 (resists dirt ingress & splash proof)
- High performance energy efficient surface-mount-device (SMD) LEDs
- 3-step MacAdam ellipse LED
- Available in 4000K (cool white)
- CRI >80
- Average 60,000 hrs LED life - L80 B10

Options:

- Integral 3hr maintained emergency (excluding 9W version)
- Dimming versions available:
 - DALI (digital)
- PRO ECO® (wireless testing & control system) - available on request
- 3000K (warm white) LED colour temperature available - on special request

Accessories:

- Range of Niko Line accessories available allowing for versatile installations - please see ordering table below

Material:

- Body: extruded aluminium
- Lens: acrylic

Finish:

- Lens: cloud (as standard) or micro-prismatic (on special request)

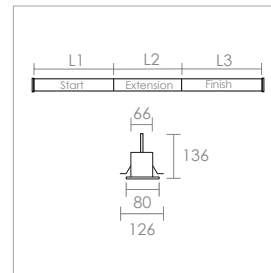
Colour:

09 Anodised

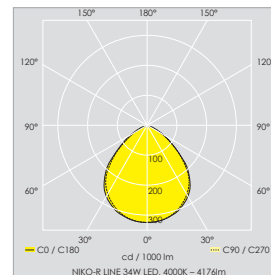
Beam Angles:



Technical



Photometrics





Niko-R Line				Ordering Code					
Wattage	Colour Temperature	Delivered Lumens	Luminous Efficacy	Start (L1)	Length (L1)	Extension (L2)	Length (L2)	Finish (L3)	Length (L3)
9W LED	4000K	1392lm	155lm/W	35-561-241-409	572	35-561-242-409	562	35-561-243-409	572
17W LED	4000K	2784lm	164lm/W	35-561-441-409	1132	35-561-442-409	1122	35-561-443-409	1132
21W LED	4000K	3385lm	161lm/W	35-561-541-409	1421	35-561-542-409	1420	35-561-543-409	1421
26W LED	4000K	4176lm	160lm/W	35-561-641-409	1692	35-561-642-409	1682	35-561-643-409	1692
34W LED	4000K	5680lm	167lm/W	35-561-741-409	2252	35-561-742-409	2242	35-561-743-409	2252

Options	Add to Ordering Code
Emergency (3 hour)  - excludes 9W version	E3-
DALI (digital) dimming	/DD

Luminous Connectors	Ordering Code
L Coupler (Left)	A35-05-06-00
L Coupler (Right)	A35-05-07-00