



42 Partners Limited

24 Kossuth Road
Bilston
West Midlands
WV14 9UW
UK

www.42partners.com
42@42partners.com

T +44 (0) 1902 662230
F +44 (0) 8721 153400

Registered in England: Company Number 3021552
VAT Registration Number: GB 661 1596 34

Photometric Report

Job Ref.	42 /LIAL-ONEL-Q09964-Luminance-/-00 / ASTON16115-RGB-ldt / 20211012
Customer	One Electrical Ltd
Luminaire range	ASTON1615-RGB
Luminaire reference	OE-ASTON1615-RGB
Source description	LED
Source output	246 lumens (lm)
Source quantity	1

Photometric Test Report Contents

- Luminaire information
- Basis
- Polar Curves
- HV Distribution Curves
- Principal Axes Intensities
- Light Output Ratios & CIBSE TM5 Results
- Aspect Factors
- Luminous intensities
- Zonal Flux Calculations
- Luminance calculations
- VDI Luminance table
- CIE Glare Limiting (Soellnor) Diagram
- Quick Design Table

Job Ref.	42 /LIAL-ONEL-Q09964-Luminance-/-00 / ASTON16115-RGB-ldt / 20211012
Customer	One Electrical Ltd
Luminaire range	ASTON1615-RGB
Luminaire reference	OE-ASTON1615-RGB
Source description	LED
Source output	246 lumens (lm)
Source quantity	1

Luminaire physical characteristics

Overall Dimensions

Length	1000mm
Width	16mm
Height	15mm

Visible Dimensions when installed

Length	1000mm
Width	16mm
Height	15mm

Luminous Dimensions

Length	1000mm
Width	16mm
Height 0°	0mm
Height 90°	0mm
Height 180°	0mm
Height 270°	0mm

Luminous Areas

Base	0.016m ²
Sides	0m ² (0°/180° azimuth)
Ends	0m ² (90°/270° azimuth)

Job Ref.	42 /LIAL-ONEL-Q09964-Luminance-/-00 / ASTON16115-RGB-ldt / 20211012
Customer	One Electrical Ltd
Luminaire range	ASTON1615-RGB
Luminaire reference	OE-ASTON1615-RGB
Source description	LED
Source output	246 lumens (lm)
Source quantity	1

Photometric Data Basis

The luminaire has been treated as though it has 2 planes of symmetry through the 0°/180° plane and the 90°/270° plane.

Test data was provided by the customer.

This document produced to show average luminance calculations.

Luminance calculations:

At 0° (perpendicular to the tape)
When the sample tested is 1m long

Intensity	@ 0°,0° = 75.326cd (measured)
Projected Area	@ 0°,0° = 0.016m ² (1000mm * 16mm) (1m * 0.16m)
Luminance	@ 0°,0° = 4708cd/m ² (75.326 / 0.016)

Job Ref.

42 /LIAL-ONEL-Q09964-Luminance-/-00 /

ASTON16115-RGB-ldt / 20211012

Customer

One Electrical Ltd

Luminaire range

ASTON1615-RGB

Luminaire reference

OE-ASTON1615-RGB

Source description

LED

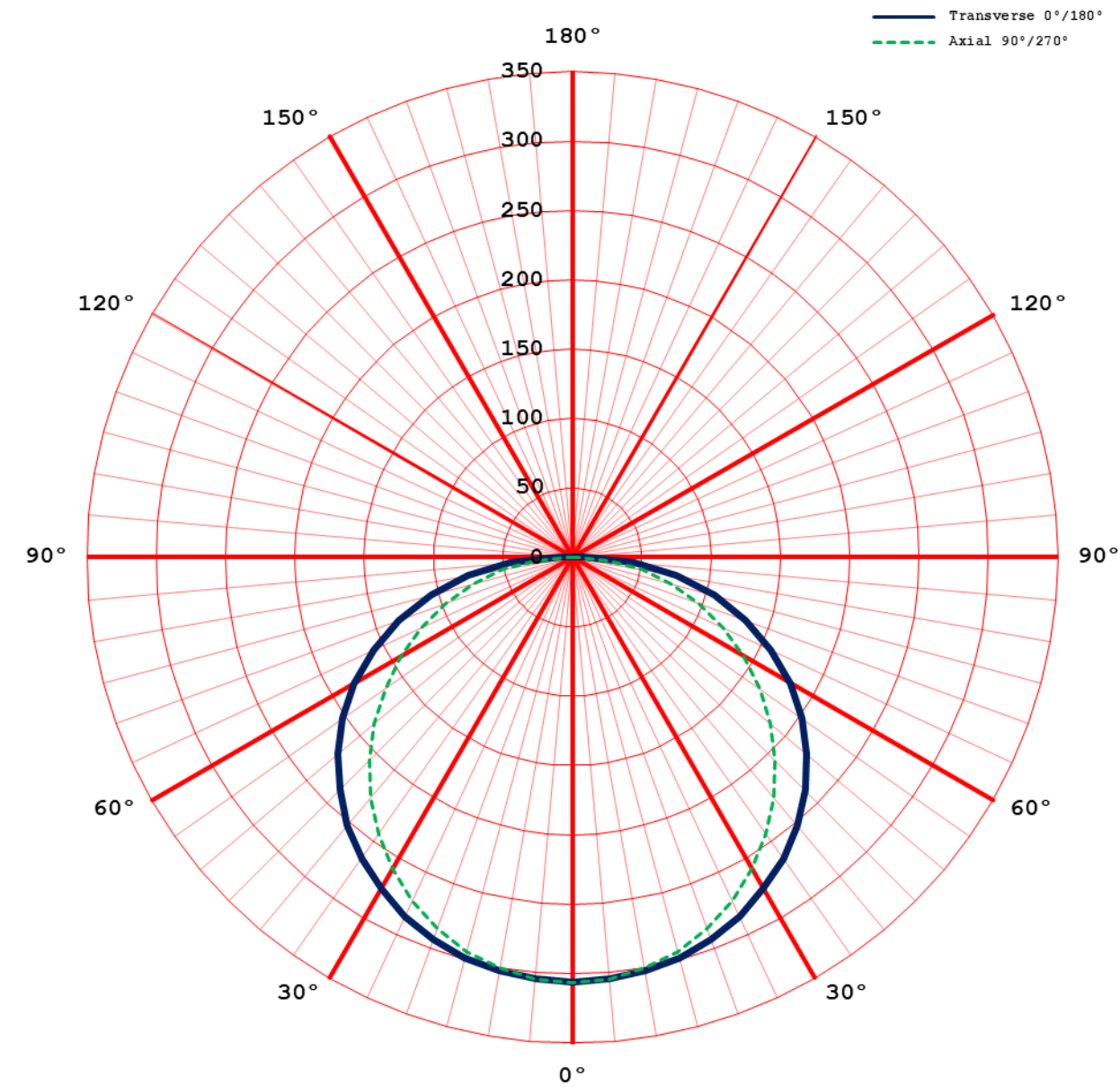
Source output

246 lumens (lm)

Source quantity

1

Average Principal Axes Luminous Intensities (cd/klm)



Job Ref.

42 /LIAL-ONEL-Q09964-Luminance-/-00 /

ASTON16115-RGB-ldt / 20211012

Customer

One Electrical Ltd

Luminaire range

ASTON1615-RGB

Luminaire reference

OE-ASTON1615-RGB

Source description

LED

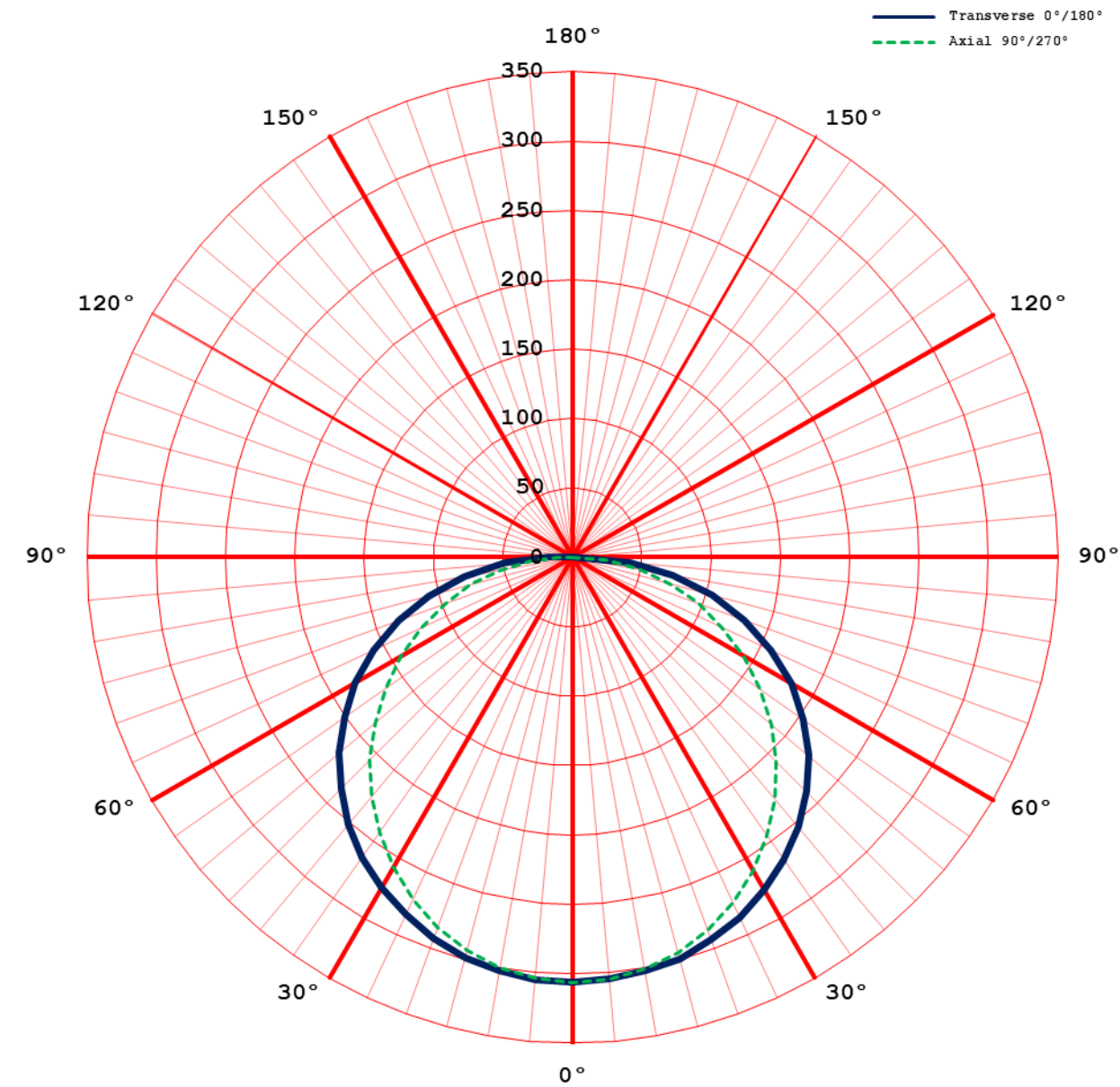
Source output

246 lumens (lm)

Source quantity

1

Non Averaged Principal Axes Luminous Intensities (cd/klm)



Job Ref.

42 /LIAL-ONEL-Q09964-Luminance-/-00 /

ASTON16115-RGB-ldt / 20211012

Customer

One Electrical Ltd

Luminaire range

ASTON1615-RGB

Luminaire reference

OE-ASTON1615-RGB

Source description

LED

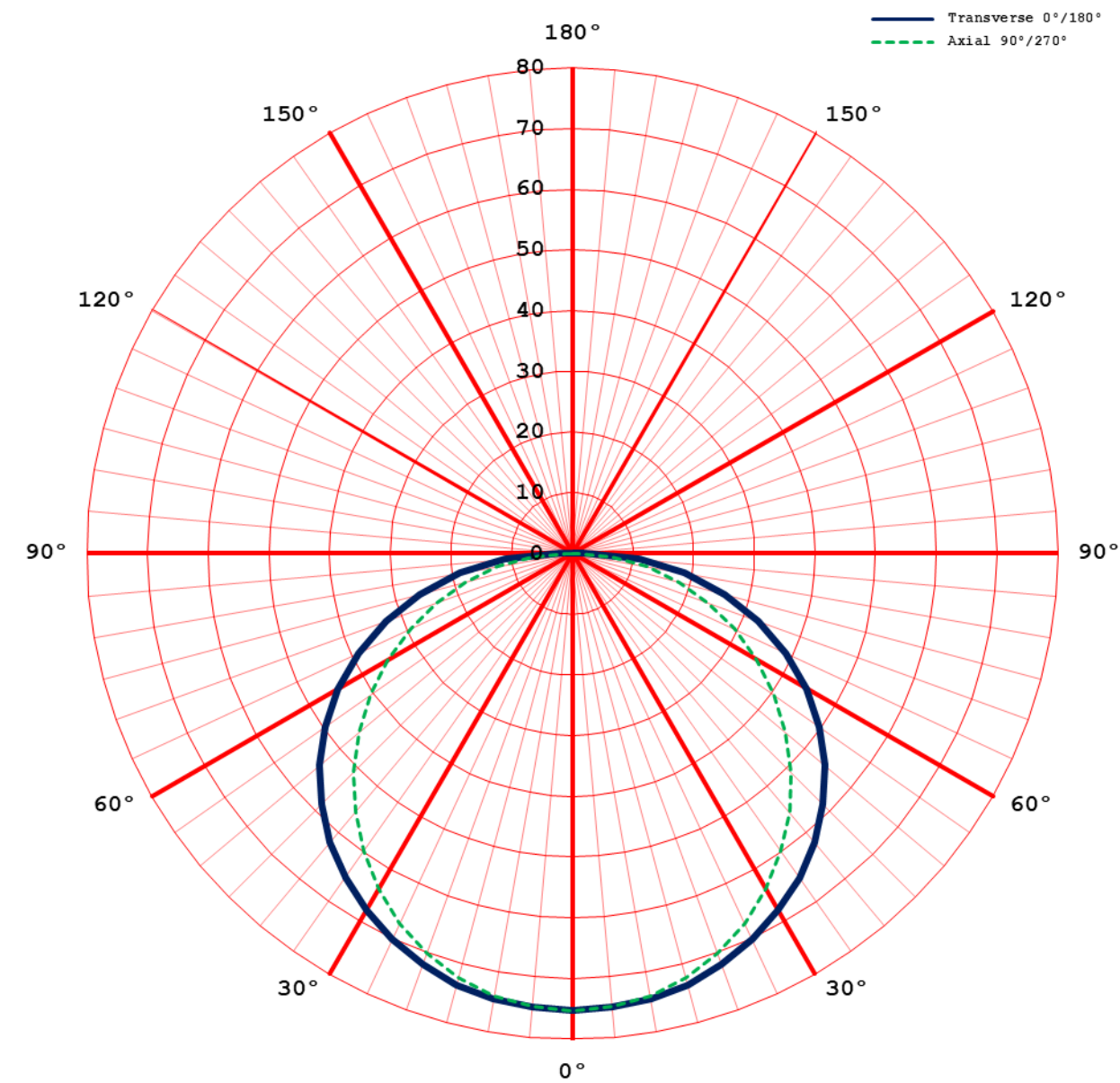
Source output

246 lumens (lm)

Source quantity

1

Average Principal Axes Luminous Intensities (cd)



Job Ref.

42 /LIAL-ONEL-Q09964-Luminance-/-00 /

ASTON16115-RGB-ldt / 20211012

Customer

One Electrical Ltd

Luminaire range

ASTON1615-RGB

Luminaire reference

OE-ASTON1615-RGB

Source description

LED

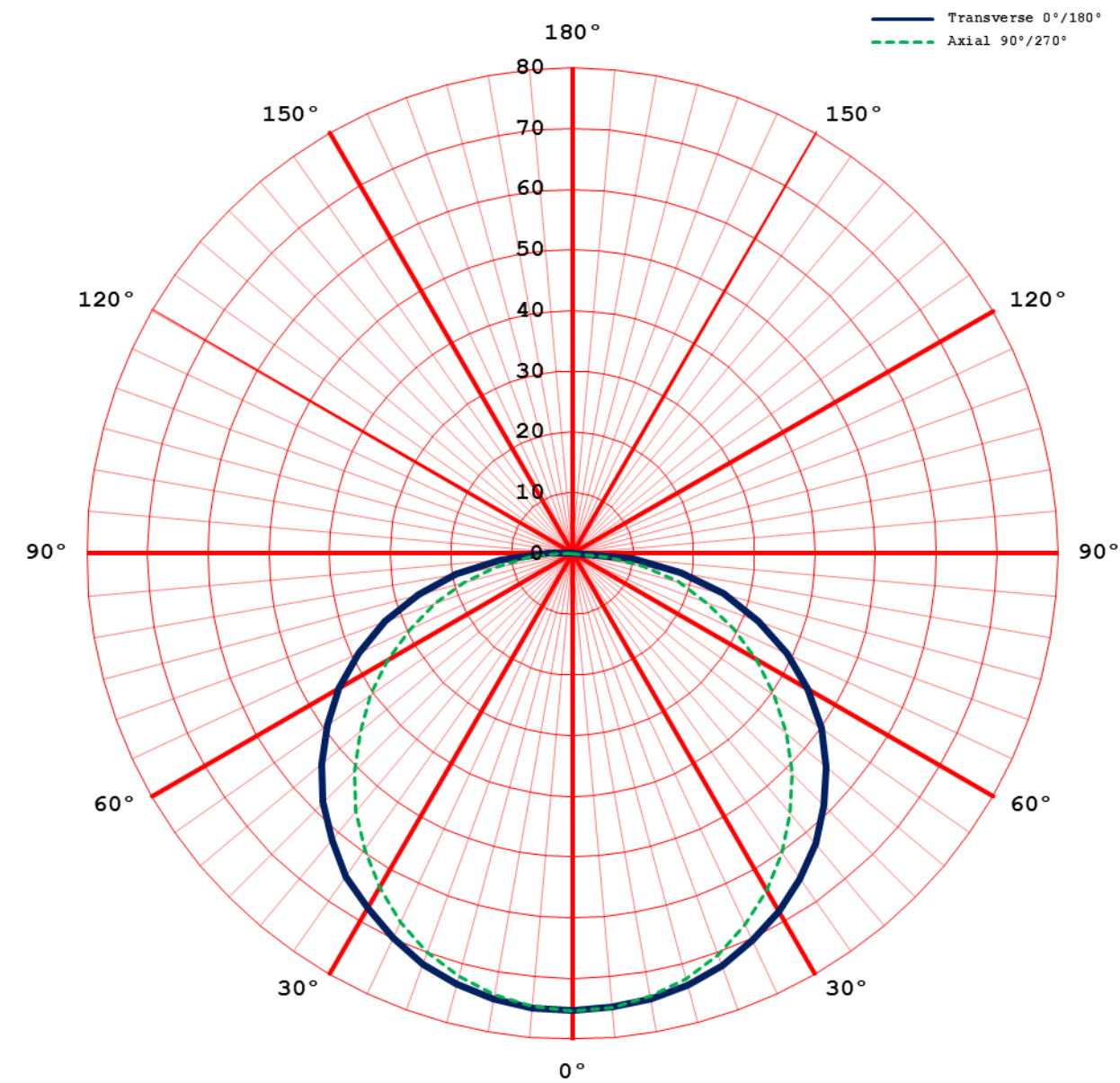
Source output

246 lumens (lm)

Source quantity

1

Non Average Principal Axes Luminous Intensities (cd)



Job Ref.

42 /LIAL-ONEL-Q09964-Luminance-/-00 /

ASTON16115-RGB-ldt / 20211012

Customer

One Electrical Ltd

Luminaire range

ASTON1615-RGB

Luminaire reference

OE-ASTON1615-RGB

Source description

LED

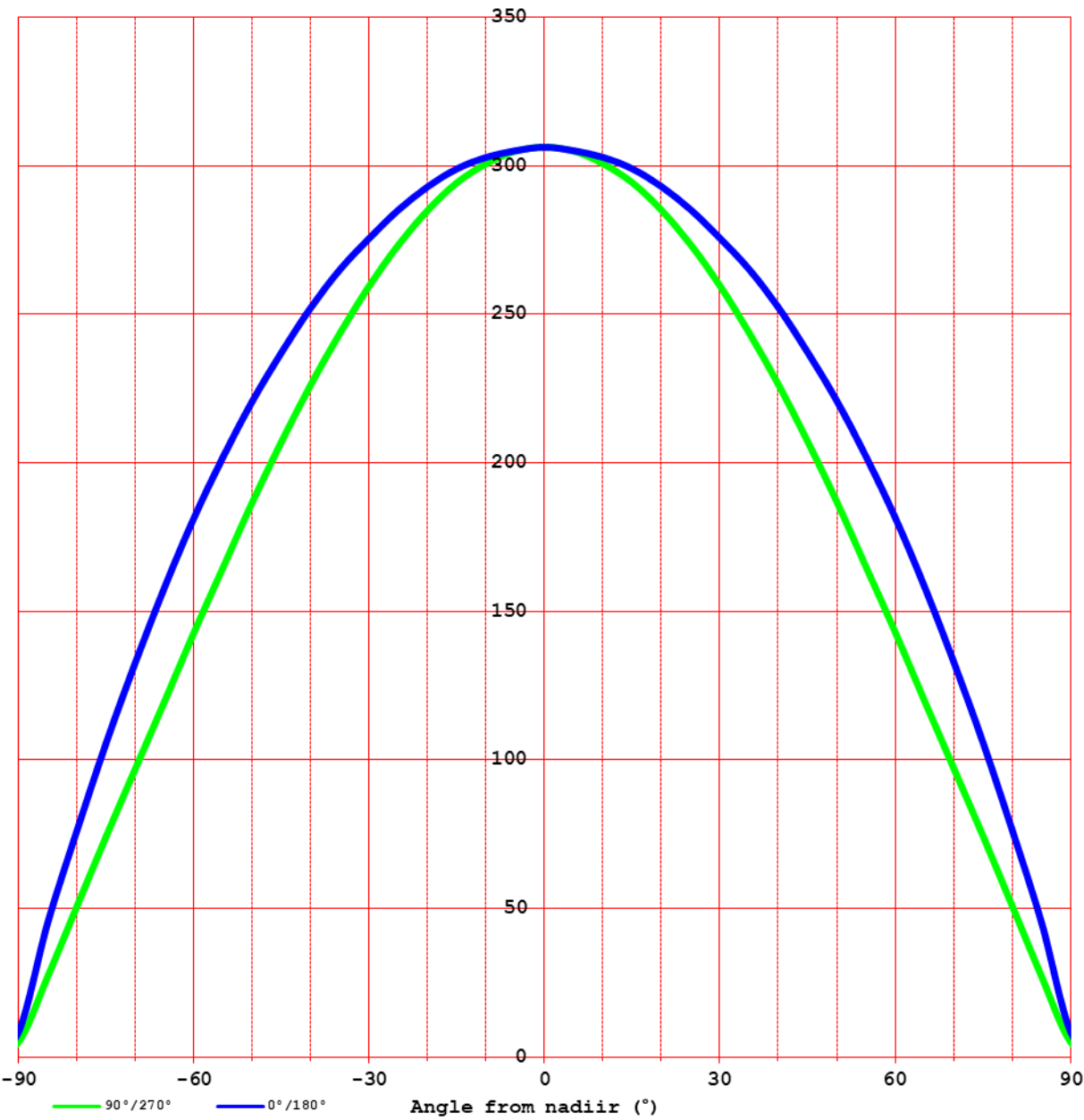
Source output

246 lumens (lm)

Source quantity

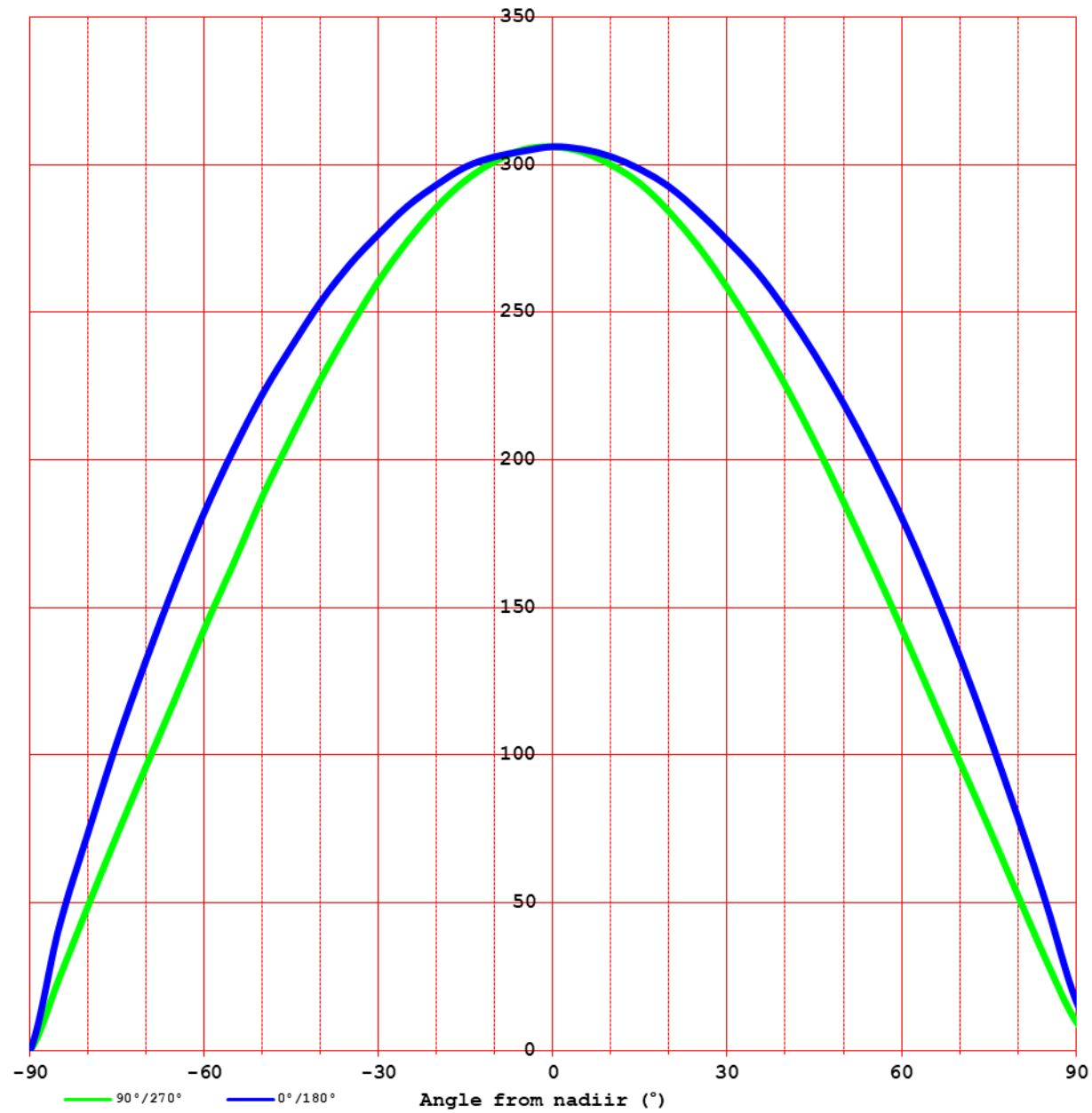
1

Average Principal Axes Luminous Intensities (cd/klm)



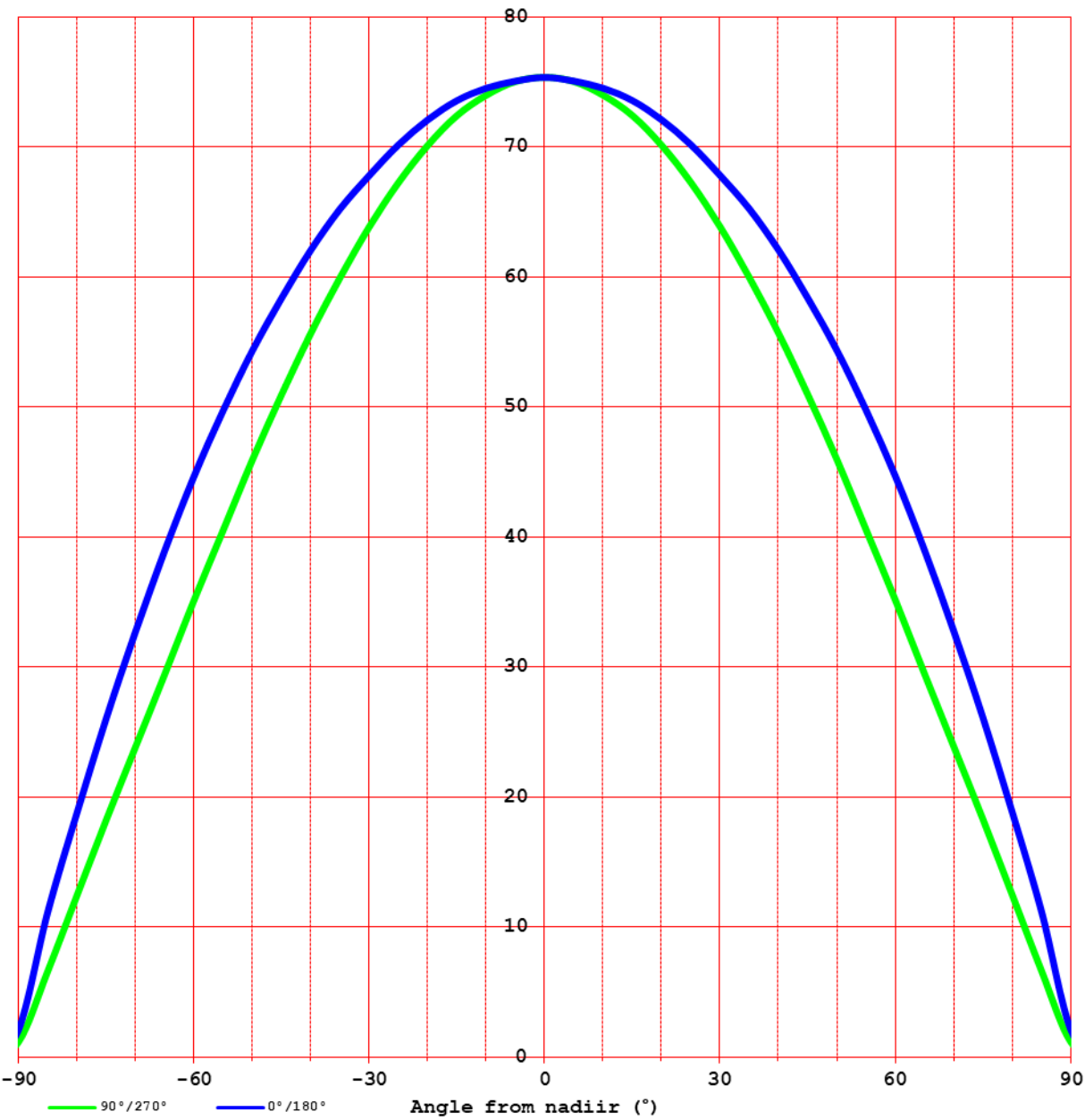
Job Ref.	42 /LIAL-ONEL-Q09964-Luminance-/-00 /
	ASTON16115-RGB-ldt / 20211012
Customer	One Electrical Ltd
Luminaire range	ASTON1615-RGB
Luminaire reference	OE-ASTON1615-RGB
Source description	LED
Source output	246 lumens (lm)
Source quantity	1

Non Average Principal Axes Luminous Intensities (cd/klm)



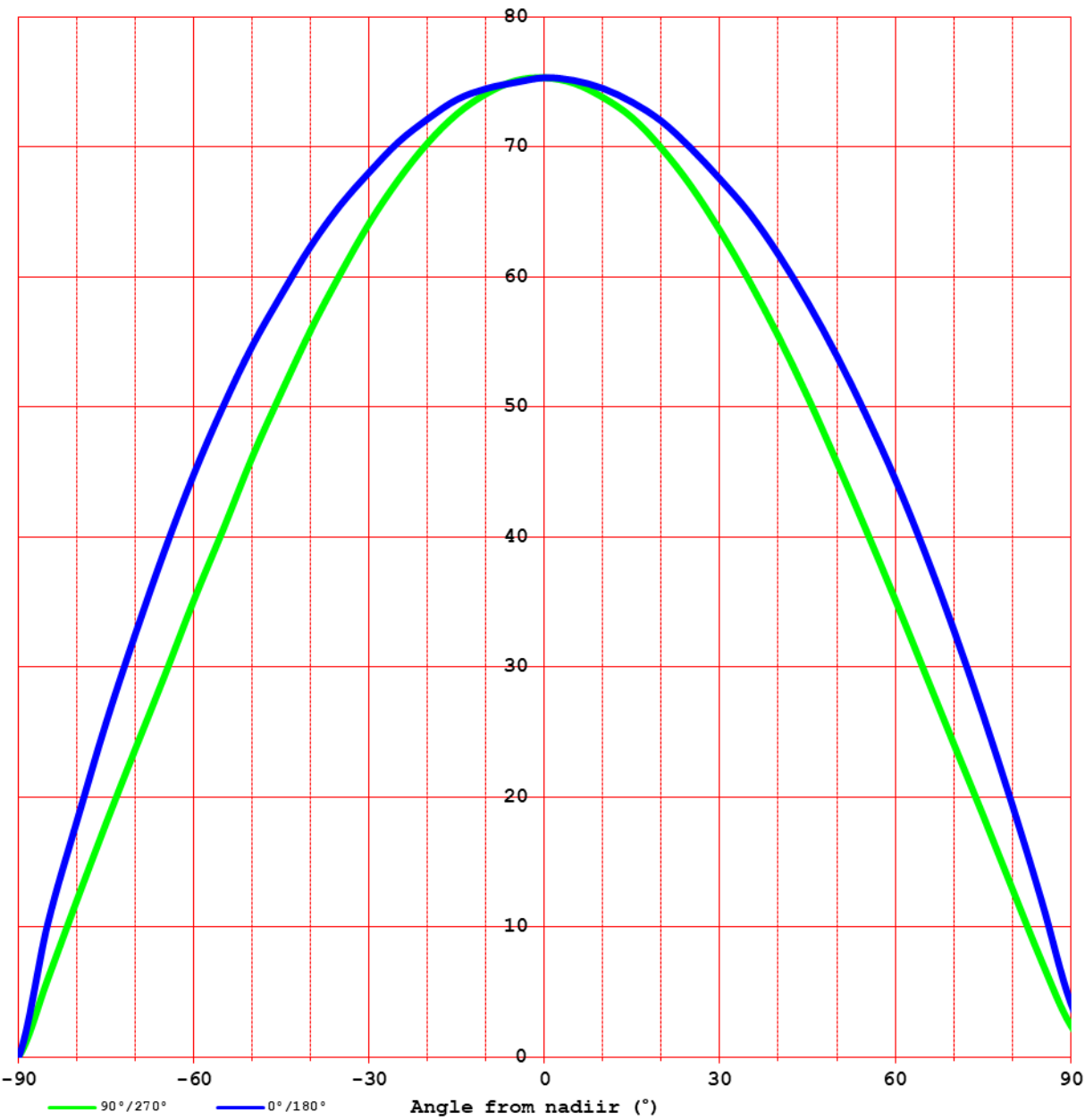
Job Ref.	42 /LIAL-ONEL-Q09964-Luminance-/-00 /
	ASTON16115-RGB-ldt / 20211012
Customer	One Electrical Ltd
Luminaire range	ASTON1615-RGB
Luminaire reference	OE-ASTON1615-RGB
Source description	LED
Source output	246 lumens (lm)
Source quantity	1

Average Principal Axes Luminous Intensities (cd)



Job Ref.	42 /LIAL-ONEL-Q09964-Luminance-/-00 /
	ASTON16115-RGB-ldt / 20211012
Customer	One Electrical Ltd
Luminaire range	ASTON1615-RGB
Luminaire reference	OE-ASTON1615-RGB
Source description	LED
Source output	246 lumens (lm)
Source quantity	1

Non Average Principal Axes Luminous Intensities (cd)



Job Ref.	42 /LIAL-ONEL-Q09964-Luminance-/-00 / ASTON16115-RGB-ldt / 20211012
Customer	One Electrical Ltd
Luminaire range	ASTON1615-RGB
Luminaire reference	OE-ASTON1615-RGB
Source description	LED
Source output	246 lumens (lm)
Source quantity	1

Average Luminous Intensities (cd/Klm)

Angle	Transverse plane	Axial plane
0°	306.20	306.20
5°	305.04	304.89
10°	302.81	300.62
15°	298.95	294.28
20°	292.95	284.97
25°	285.13	273.34
30°	275.56	259.53
35°	265.07	243.63
40°	252.21	226.27
45°	237.17	207.10
50°	220.74	186.70
55°	202.02	164.73
60°	181.37	142.75
65°	158.18	119.69
70°	132.83	96.95
75°	105.75	74.21
80°	76.21	50.62
85°	45.21	26.96
90°	8.40	4.84

Job Ref.	42 /LIAL-ONEL-Q09964-Luminance-/-00 / ASTON16115-RGB-ldt / 20211012
Customer	One Electrical Ltd
Luminaire range	ASTON1615-RGB
Luminaire reference	OE-ASTON1615-RGB
Source description	LED
Source output	246 lumens (lm)
Source quantity	1

Average Luminous Intensities (cd)

Angle	Transverse plane	Axial plane
0°	75.33	75.33
5°	75.04	75.00
10°	74.49	73.95
15°	73.54	72.39
20°	72.07	70.10
25°	70.14	67.24
30°	67.79	63.84
35°	65.21	59.93
40°	62.04	55.66
45°	58.34	50.95
50°	54.30	45.93
55°	49.70	40.52
60°	44.62	35.12
65°	38.91	29.44
70°	32.68	23.85
75°	26.01	18.25
80°	18.75	12.45
85°	11.12	6.63
90°	2.07	1.19

Job Ref. 42 /LIAL-ONEL-Q09964-Luminance-/-00 /
 ASTON16115-RGB-ldt / 20211012
 Customer One Electrical Ltd
 Luminaire range ASTON1615-RGB
 Luminaire reference OE-ASTON1615-RGB
 Source description LED
 Source output 246 lumens (lm)
 Source quantity 1

Light Output Ratios Up 0.00
 Down 1.00
 Total 1.00

Spacing to Height Ratios SHR NOM 1.50
 SHR MAX 1.70
 SHR MAX TRANS 1.98

Utilisation Factors UF(F) Standard Presentation SHR NOM = 1.50

Room Reflectances			Room Index									
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
.70	.50	.20	.56	.65	.72	.78	.85	.90	.94	.99	1.02	
	.30		.49	.57	.65	.70	.78	.84	.88	.94	.98	
	.10		.43	.51	.59	.64	.73	.79	.84	.90	.94	
.50	.50	.20	.55	.63	.70	.75	.82	.87	.90	.94	.97	
	.30		.48	.55	.63	.68	.76	.81	.85	.91	.94	
	.10		.42	.50	.58	.63	.71	.77	.81	.87	.91	
.30	.50	.20	.53	.61	.68	.72	.79	.83	.86	.91	.94	
	.30		.47	.54	.62	.67	.74	.79	.83	.88	.91	
	.10		.42	.50	.57	.62	.70	.75	.79	.85	.88	
.00	.00	.00	.40	.47	.54	.59	.67	.72	.75	.80	.84	

BZ Class 5 5 5 5 5 5 5 5 5 5 5

CIE Flux code 42 / 73 / 92 / 100 / 100

CIE Room Index 0.60 0.80 1.00 1.25 1.50 2.00 2.50 3.00 4.00 5.00 10.0 20.0
 CIE DRR 0.27 0.35 0.42 0.49 0.55 0.64 0.70 0.74 0.79 0.83 0.90 0.95
 CIE class 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6

Flux Fraction Ratio 0.00
 DIN Class 1.00 A

Calculated in accordance with CIBSE Technical Memorandum No. 5 1980
 In accordance with TM5, this UF table is valid for values of SHR from 0.5 below SHR NOM to 0.5 above SHR NOM. SHR MAX is a separate limitation.
 Reflectances given in the UF table are the effective reflectances of the ceiling cavity, walls and floor cavity, and must be determined for the actual room in which the luminaire will be used.
 UF(F),UF(W), and UF(C) for 0% reflectance of the room surfaces are equivalent to DF(F),DF(W) and DF(C) respectively.

Job Ref.	42 /LIAL-ONEL-Q09964-Luminance-/-00 /
	ASTON16115-RGB-ldt / 20211012
Customer	One Electrical Ltd
Luminaire range	ASTON1615-RGB
Luminaire reference	OE-ASTON1615-RGB
Source description	LED
Source output	246 lumens (lm)
Source quantity	1

Angle	Aspect Factors	
	Parallel plane	Perpendicular plane
0°	0.000	0.000
5°	0.087	0.004
10°	0.172	0.015
15°	0.255	0.033
20°	0.334	0.058
25°	0.407	0.089
30°	0.475	0.124
35°	0.535	0.162
40°	0.588	0.203
45°	0.634	0.245
50°	0.672	0.286
55°	0.702	0.326
60°	0.726	0.363
65°	0.743	0.396
70°	0.755	0.424
75°	0.762	0.448
80°	0.766	0.465
85°	0.767	0.476
90°	0.768	0.480

[illegible]

[illegible]

[illegible]

Job Ref.	42 /LIAL-ONEL-Q09964-Luminance-/-00 /
	ASTON16115-RGB-ldt / 20211012
Customer	One Electrical Ltd
Luminaire range	ASTON1615-RGB
Luminaire reference	OE-ASTON1615-RGB
Source description	LED
Source output	246 lumens (lm)
Source quantity	1

Zonal Flux Calculations

Angles	Individual	Cumulative
0° - 5°	0.7%	0.7%
5° - 10°	2.2%	2.9%
10° - 15°	3.5%	6.5%
15° - 20°	4.8%	11.3%
20° - 25°	6.0%	17.2%
25° - 30°	6.9%	24.1%
30° - 35°	7.7%	31.8%
35° - 40°	8.2%	40.0%
40° - 45°	8.5%	48.6%
45° - 50°	8.6%	57.1%
50° - 55°	8.4%	65.5%
55° - 60°	7.9%	73.4%
60° - 65°	7.2%	80.6%
65° - 70°	6.3%	86.9%
70° - 75°	5.2%	92.1%
75° - 80°	4.0%	96.1%
80° - 85°	2.6%	98.7%
85° - 90°	1.1%	99.8%
90° - 95°	0.2%	100.0%
95° - 180°	0.0%	100.0%

Job Ref. 42 /LIAL-ONEL-Q09964-Luminance-/-00 /
 ASTON16115-RGB-ldt / 20211012
 Customer One Electrical Ltd
 Luminaire range ASTON1615-RGB
 Luminaire reference OE-ASTON1615-RGB
 Source description LED
 Source output 246 lumens (lm)
 Source quantity 1

Averaged Luminance Values (cd/m²)

Elevation(°)	Azimuth(°)								
	0.0°	45.0°	90.0°	135.0°	180.0°	225.0°	270.0°	315.0°	0.0°
0°	4708	4708	4708	4708	4708	4708	4708	4708	4708
5°	4708	4711	4706	4711	4708	4711	4706	4711	4708
10°	4728	4711	4693	4711	4728	4711	4693	4711	4728
15°	4758	4716	4684	4716	4758	4716	4684	4716	4758
20°	4793	4729	4663	4729	4793	4729	4663	4729	4793
25°	4837	4732	4637	4732	4837	4732	4637	4732	4837
30°	4892	4743	4608	4743	4892	4743	4608	4743	4892
35°	4975	4758	4573	4758	4975	4758	4573	4758	4975
40°	5062	4776	4541	4776	5062	4776	4541	4776	5062
45°	5157	4793	4503	4793	5157	4793	4503	4793	5157
50°	5280	4809	4466	4809	5280	4809	4466	4809	5280
55°	5415	4834	4416	4834	5415	4834	4416	4834	5415
60°	5577	4862	4389	4862	5577	4862	4389	4862	5577
65°	5755	4900	4354	4900	5755	4900	4354	4900	5755
70°	5971	4952	4358	4952	5971	4952	4358	4952	5971
75°	6282	5050	4408	5050	6282	5050	4408	5050	6282
80°	6748	5266	4482	5266	6748	5266	4482	5266	6748
85°	7975	5820	4757	5820	7975	5820	4757	5820	7975

Job Ref. 42 /LIAL-ONEL-Q09964-Luminance-/-00 /
 ASTON16115-RGB-ldt / 20211012
 Customer One Electrical Ltd
 Luminaire range ASTON1615-RGB
 Luminaire reference OE-ASTON1615-RGB
 Source description LED
 Source output 246 lumens (lm)
 Source quantity 1

Non averaged Luminance Values (cd/m²)

Elevation(°)	Azimuth(°)								
	0.0°	45.0°	90.0°	135.0°	180.0°	225.0°	270.0°	315.0°	0.0°
0°	4708	4708	4708	4708	4708	4708	4708	4708	4708
5°	4713	4709	4699	4711	4703	4722	4712	4702	4713
10°	4728	4710	4684	4713	4727	4722	4703	4701	4728
15°	4751	4706	4674	4715	4766	4733	4694	4710	4751
20°	4787	4717	4648	4741	4799	4740	4677	4716	4787
25°	4821	4715	4620	4749	4854	4748	4654	4715	4821
30°	4873	4730	4586	4758	4912	4754	4629	4730	4873
35°	4954	4745	4553	4770	4997	4773	4593	4745	4954
40°	5035	4760	4520	4786	5089	4803	4563	4756	5035
45°	5129	4776	4485	4816	5185	4818	4521	4763	5129
50°	5241	4775	4443	4826	5319	4842	4488	4791	5241
55°	5377	4825	4412	4841	5453	4849	4419	4819	5377
60°	5549	4864	4388	4865	5605	4868	4391	4853	5549
65°	5747	4919	4372	4873	5763	4906	4336	4901	5747
70°	5994	4991	4389	4886	5949	4945	4328	4986	5994
75°	6349	5137	4476	4942	6215	5000	4341	5121	6349
80°	6965	5476	4635	5029	6532	5114	4329	5445	6965
85°	8607	6338	5250	5216	7342	5259	4263	6468	8607

Job Ref. 42 /LIAL-ONEL-Q09964-Luminance-/-00 /
 ASTON16115-RGB-ldt / 20211012
 Customer One Electrical Ltd
 Luminaire range ASTON1615-RGB
 Luminaire reference OE-ASTON1615-RGB
 Source description LED
 Source output 246 lumens (lm)
 Source quantity 1

Averaged Luminance Values (cd/m²/klm)

Elevation(°)	Azimuth(°)								
	0.0°	45.0°	90.0°	135.0°	180.0°	225.0°	270.0°	315.0°	0.0°
0°	19138	19138	19138	19138	19138	19138	19138	19138	19138
5°	19138	19150	19128	19150	19138	19150	19128	19150	19138
10°	19218	19152	19078	19152	19218	19152	19078	19152	19218
15°	19343	19170	19041	19170	19343	19170	19041	19170	19343
20°	19484	19222	18954	19222	19484	19222	18954	19222	19484
25°	19663	19235	18850	19235	19663	19235	18850	19235	19663
30°	19887	19280	18730	19280	19887	19280	18730	19280	19887
35°	20224	19342	18589	19342	20224	19342	18589	19342	20224
40°	20578	19415	18461	19415	20578	19415	18461	19415	20578
45°	20963	19486	18305	19486	20963	19486	18305	19486	20963
50°	21463	19547	18153	19547	21463	19547	18153	19547	21463
55°	22013	19649	17950	19649	22013	19649	17950	19649	22013
60°	22671	19766	17843	19766	22671	19766	17843	19766	22671
65°	23393	19918	17701	19918	23393	19918	17701	19918	23393
70°	24274	20130	17717	20130	24274	20130	17717	20130	24274
75°	25537	20528	17919	20528	25537	20528	17919	20528	25537
80°	27431	21407	18219	21407	27431	21407	18219	21407	27431
85°	32417	23659	19335	23659	32417	23659	19335	23659	32417

Job Ref. 42 /LIAL-ONEL-Q09964-Luminance-/-00 /
ASTON16115-RGB-ldt / 20211012
Customer One Electrical Ltd
Luminaire range ASTON1615-RGB
Luminaire reference OE-ASTON1615-RGB
Source description LED
Source output 246 lumens (lm)
Source quantity 1

Non averaged Luminance Values (cd/m²/klm)

Elevation(°)	Azimuth(°)								
	0.0°	45.0°	90.0°	135.0°	180.0°	225.0°	270.0°	315.0°	0.0°
0°	19138	19138	19138	19138	19138	19138	19138	19138	19138
5°	19158	19141	19103	19149	19118	19196	19154	19116	19158
10°	19219	19146	19041	19160	19216	19194	19116	19109	19219
15°	19315	19129	19002	19166	19372	19239	19080	19145	19315
20°	19459	19177	18896	19272	19510	19269	19011	19170	19459
25°	19596	19168	18781	19306	19730	19299	18919	19168	19596
30°	19807	19227	18644	19339	19966	19327	18816	19228	19807
35°	20136	19288	18506	19391	20312	19402	18671	19289	20136
40°	20467	19348	18374	19454	20689	19523	18547	19334	20467
45°	20849	19415	18232	19579	21077	19586	18378	19362	20849
50°	21303	19410	18063	19616	21622	19685	18243	19477	21303
55°	21860	19615	17935	19680	22167	19712	17965	19589	21860
60°	22557	19772	17837	19775	22785	19789	17850	19728	22557
65°	23360	19998	17774	19809	23426	19941	17627	19924	23360
70°	24366	20290	17841	19861	24181	20102	17593	20267	24366
75°	25809	20881	18194	20091	25265	20326	17645	20815	25809
80°	28311	22261	18839	20445	26551	20790	17598	22134	28311
85°	34989	25765	21340	21203	29845	21377	17331	26291	34989

Job Ref. 42 /LIAL-ONEL-Q09964-Luminance-/-00 /
ASTON16115-RGB-ldt / 20211012
Customer One Electrical Ltd
Luminaire range ASTON1615-RGB
Luminaire reference OE-ASTON1615-RGB
Source description LED
Source output 246 lumens (lm)
Source quantity 1

VDT Luminance Information data Averaged data
BS EN 12464 (2002) / CIBSE LG7 (2005) / CIBSE LG3 (2001)

Permitted Usage according to Screen Type and Luminance Limit Angle	Limiting luminance (cd/m ²)	Use permitted at Luminance Limit Angle (°)	
		55°	65°
Screen Type III (No screen treatment) used with some negative polarity software	200	NO	NO
Screen Type I and II (Good or moderate screen treatment) used with some negative polarity software	500	NO	NO
Screen Type III (No screen treatment) used with only positive polarity software	1000	NO	NO
Screen Type I and II (Good or moderate screen treatment) used with only positive polarity software	1500	NO	NO

VDT Luminance Information data Averaged data
BS EN 12464 (2011) / CIBSE LG7 (2012)

Permitted Usage according to Screen Type and Luminance Limit Angle	Limiting luminance (cd/m ²)	Use permitted at Luminance Limit Angle (°)	
		55°	65°
Medium luminance screen (L <= 200 cdm ²) Case B negative polarity and/or higher requirements	1000	-	NO
Medium luminance screen (L <= 200 cdm ²) Case A positive polarity and normal requirements	1500	-	NO
High luminance screen (L > 200 cd/m ²) Case B negative polarity and/or higher requirements	1500	-	NO
High luminance screen (L > 200 cd/m ²) Case A positive polarity and normal requirements	3000	-	NO

Job Ref. 42 /LIAL-ONEL-Q09964-Luminance-/-00 /
ASTON16115-RGB-ldt / 20211012
Customer One Electrical Ltd
Luminaire range ASTON1615-RGB
Luminaire reference OE-ASTON1615-RGB
Source description LED
Source output 246 lumens (lm)
Source quantity 1

VDT Luminance Information data Non Averaged data
BS EN 12464 (2002) / CIBSE LG7 (2005) / CIBSE LG3 (2001)

Permitted Usage according to Screen Type and Luminance Limit Angle	Limiting luminance (cd/m ²)	Use permitted at Luminance Limit Angle (°)	
		55°	65°
Screen Type III (No screen treatment) used with some negative polarity software	200	NO	NO
Screen Type I and II (Good or moderate screen treatment) used with some negative polarity software	500	NO	NO
Screen Type III (No screen treatment) used with only positive polarity software	1000	NO	NO
Screen Type I and II (Good or moderate screen treatment) used with only positive polarity software	1500	NO	NO

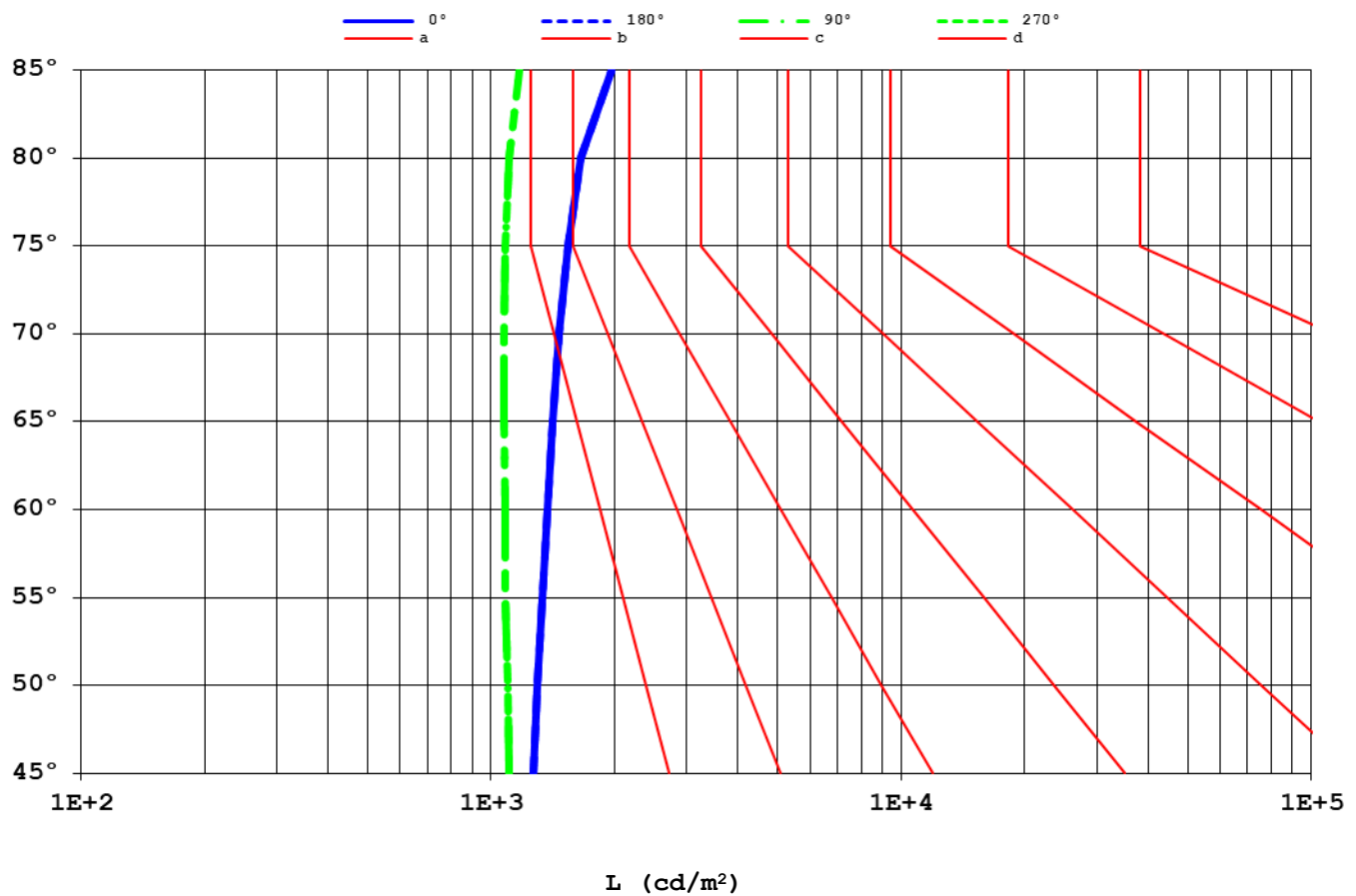
VDT Luminance Information data Non Averaged data
BS EN 12464 (2011) / CIBSE LG7 (2012)

Permitted Usage according to Screen Type and Luminance Limit Angle	Limiting luminance (cd/m ²)	Use permitted at Luminance Limit Angle (°)	
		55°	65°
Medium luminance screen (L <= 200 cdm ²) Case B negative polarity and/or higher requirements	1000	-	NO
Medium luminance screen (L <= 200 cdm ²) Case A positive polarity and normal requirements	1500	-	NO
High luminance screen (L > 200 cd/m ²) Case B negative polarity and/or higher requirements	1500	-	NO
High luminance screen (L > 200 cd/m ²) Case A positive polarity and normal requirements	3000	-	NO

Job Ref. 42 /LIAL-ONEL-Q09964-Luminance-/-00 /
 ASTON16115-RGB-ldt / 20211012
 Customer One Electrical Ltd
 Luminaire range ASTON1615-RGB
 Luminaire reference OE-ASTON1615-RGB
 Source description LED
 Source output 246 lumens (lm)
 Source quantity 1

CIE Glare Limiting (Soellnor) Diagram

Glare Rating	Quality Class	Service values of illuminance							
1.15	A	2000	1000	500	<300				
1.50	B		2000	1000	500	<300			
1.85	C			2000	1000	500	<300		
2.20	D				2000	1000	500	<300	
2.55	E					2000	1000	500	<300
		a	b	c	d	e	f	g	h



Job Ref. 42 /LIAL-ONEL-Q09964-Luminance-/-00 /
 ASTON16115-RGB-ldt / 20211012
 Customer One Electrical Ltd
 Luminaire range ASTON1615-RGB
 Luminaire reference OE-ASTON1615-RGB
 Source description LED
 Source output 246 lumens (lm)
 Source quantity 1

Quick Design Table

Based on: reflectances of Ceiling = 0.5
 Wall = 0.5
 Floor = 0.2
 Room Index = 2.00
 Source output = 246 lumens
 Ballast Lumen Factor = 1.00

To achieve an Illuminance of 100 lux

Surface Area (m ²)	20	30	40	50	80	100	200	300	500
No. of luminaires	9.9	14.9	19.9	24.9	39.8	49.7	99.4	149.1	248.5