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Photometric Report

Job / Report / Date 42 / 10692 / 10692-17a / 2013.06.17

Customer	Encapsulite International Ltd.
Luminaire Range	MT70 IP68
Luminaire catalog No.	MT70 SC 58W
Luminaire description	linear cylindrical luminaire with opal cover data derived from range test series
Lamp description	58W/840 F T8 Sylvania Luxline Plus
Lamp lumen output	5,200 lm
Lamp quantity	1

Photometric Report

- Pictures
- Luminaire information
- Report 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
- CIBSE TM10 Glare Index Results
- CIE Glare Limiting (Soellnor) Diagram
- Comments
- Quick Design Table

Job / Report / Date

42 / 10692 / 10692-17a / 2013.06.17

Customer

Encapsulite International Ltd.

Luminaire Range

MT70 IP68

Luminaire catalog No.

MT70 SC 58W

Luminaire description

linear cylindrical luminaire
with opal cover

Lamp description

data derived from range test series

Lamp lumen output

58W/840 F T8 Sylvania Luxline Plus

Lamp quantity

1



Helvar
www.helvar.com

ELECTRONIC BALLAST EL1x58s
220-240V 0/50-60Hz



T8: 1x58W 0.26-0.23A λ 0.98
 $t_a = -20...+50^\circ\text{C}$

SYLVANIA
LUXLINE PLUS

F58W / 840 -T8

COOL WHITE DE LUXE

www.havells-sylvania.com

MADE IN GERMANY



Job / Report / Date 42 / 10692 / 10692-17a / 2013.06.17

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Luminaire Range	MT70 IP68
Luminaire catalog No.	MT70 SC 58W
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Lamp description	58W/840 F T8 Sylvania Luxline Plus
Lamp lumen output	5,200 lm
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Luminaire physical characteristics

Overall Dimensions

Length	1616mm
Width	70mm
Height	70mm

Visible Dimensions when installed

Length	1616mm
Width	70mm
Height	70mm

Luminous Dimensions

Length	1554mm
Width	70mm
Height 0°	35mm
Height 90°	0mm
Height 180°	35mm
Height 270°	0mm

Luminous Areas

Base	0.10878m ²
Sides	0.05439m ² (0°/180° azimuth)
Ends	0m ² (90°/270° azimuth)

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Report Basis

All measurements taken in accordance with EN13032.

Lamp tests were performed with the lamps in a horizontal orientation.

Luminaire tests were performed with the lamps in a horizontal orientation.

The photometric centre of the luminaire was taken as the geometric centre of the lamp.

The photometric nadir was taken to be perpendicular to the front face of the reflector.

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

The lumen output, light output ratio (LORL) and power consumption of the luminaire were determined at 25°C after 100 hours pre-conditioning.

Lamps used for test were provided by the customer.

Job / Report / Date 42 / 10692 / 10692-17a / 2013.06.17

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Electrical input & Photometric output characteristics

Control gear

1 * Helvar EL1x58s

Ballast Voltage Range 220-240V
Ballast Current Range 0.23-0.26A
Ballast Power Factor 0.98

Sample	Voltage (V)	Current (mA)	Power Factor	Power (W)	VA	Output (lm)	% of Nominal	Efficacy (lm/W)
Luminaire	230.0	225.5	0.987	51.2	51.9	3,440	66%	67.2
Lamp	230.0	236.4	0.989	53.8	54.4	4,264	82%	79.3

Electrical characteristics at 25°C

Ballast Nominal	230V	244.3mA	0.98PF	55.1W	56.2VA
Lamp Nominal	230V	252.2mA	1.00PF	58.0W	58.0VA
Luminaire	230V	225.5mA	0.99PF	51.2W	51.9VA
Lamp	230V	236.4mA	0.99PF	53.8W	54.4VA

Measured Electrical characteristics relative to Ballast Nominal

Luminaire	Current	92%	Power	93%	VA	92%
Lamp	Current	97%	Power	98%	VA	97%

Measured Electrical characteristics relative to Lamp Nominal

Luminaire	Current	89%	Power	88%	VA	89%
Lamp	Current	94%	Power	93%	VA	94%

Lumen Output figures used in this report (lumens)

Nominal Lamp Output	5,200
Measured Luminaire Output	3,440
Measured Lamp Output	4,264

Measured Lumen Output characteristics relative to Lamp Nominal Total

Luminaire	66%
Lamp	82%

Measured luminous efficacy at 25°C

Luminaire	67.2 lm/W
Lamp	79.3 lm/W

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The light output ratio of the luminaire was measured as 0.807 at 25°C.
This is the ratio of the output of the luminaire to the output of the lamp.

The measured lumen output of the luminaire was 3,440 lumens at 25°C.
This figure can be related to the nominal lumen output of the lamp quoted by the manufacturer of 5,200 lumens, to give a nominal light output ratio of 0.661.

The measured lumen output of the lamp was 4,264 lumens at 25°C.
This figure can be related to the nominal lumen output of the lamp quoted by the manufacturer of 5,200 lumens, to give a nominal BLF of 0.82.

For lighting design calculations:

A light output ratio of 1 should be used in conjunction with the measured lumen output of the luminaire of 3,440 lumens.

or

The nominal light output ratio of 0.661 should be used in conjunction with the nominal lumen output of the lamp of 5,200 lumens.

or

The measured light output ratio of 0.807 should be used in conjunction with the measured lumen output of the lamp of 4,264 lumens.

or

The measured light output ratio of 0.807 should be used in conjunction with the nominal lumen output of the lamp of 5,200 lumens and the nominal BLF of 0.82.

This report is based on the following parameters:

The Light Output Ratio is the nominal value of 0.661.

The lamp output is the nominal value of 5,200 lumens.

There is 1 lamp in the luminaire.

No measurements relating to the ballast factor of the control gear were made.

The nominal ballast factor represented by the ratio of the measured lumen output of the lamp to the declared lumen output has been incorporated into the nominal Light Output Ratio figure. The resultant nominal LOR allows lighting calculations to be performed using the declared lamp output without having to incorporate a separate BLF calculation to allow for deviation from the nominal output due to thermal and gear effects.

If the measured LOR figure is used, the measured lumen output of the lamp should be used to perform lighting calculations. If the nominal lamp output is used with the measured LOR figure, an allowance should be made for any deviation of the lamp and gear combination from the published lumen output, represented by the nominal BLF.

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linear cylindrical luminaire
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data derived from range test series

Lamp description

58W/840 F T8 Sylvania Luxline Plus

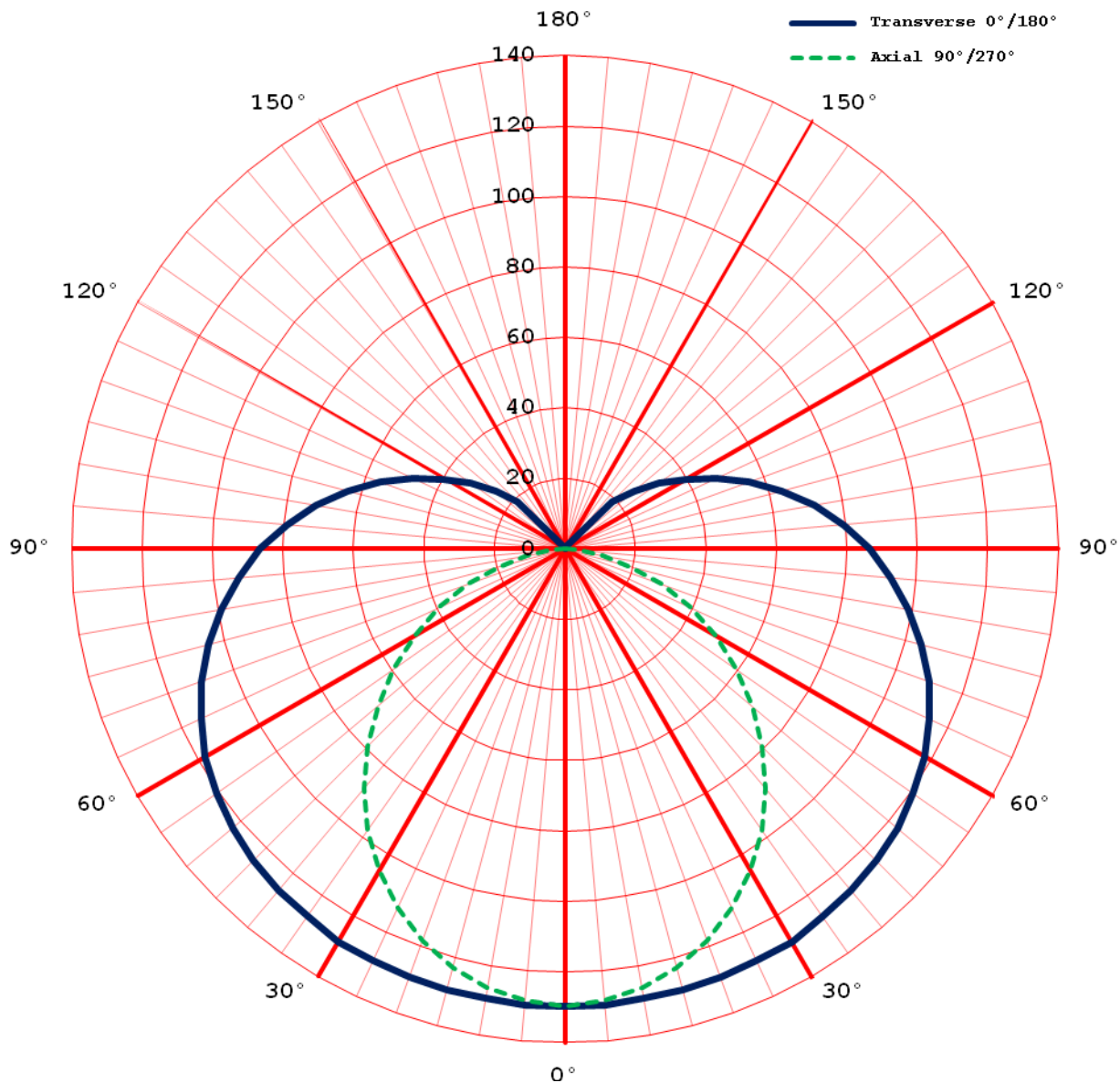
Lamp lumen output

5,200 lm

Lamp quantity

1

Average Principal Axes Luminous Intensities (cd/klm)



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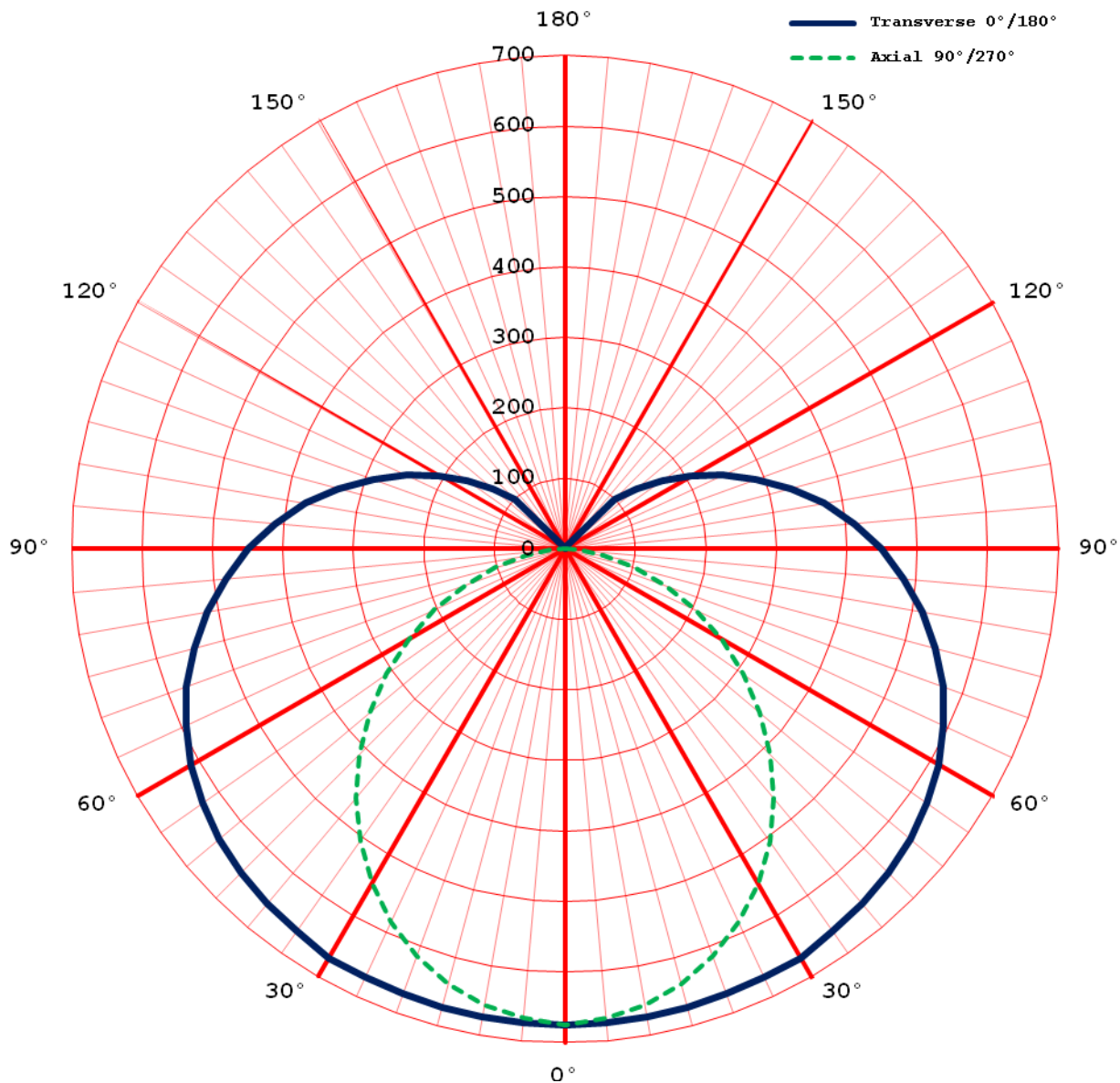
Lamp lumen output

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Lamp quantity

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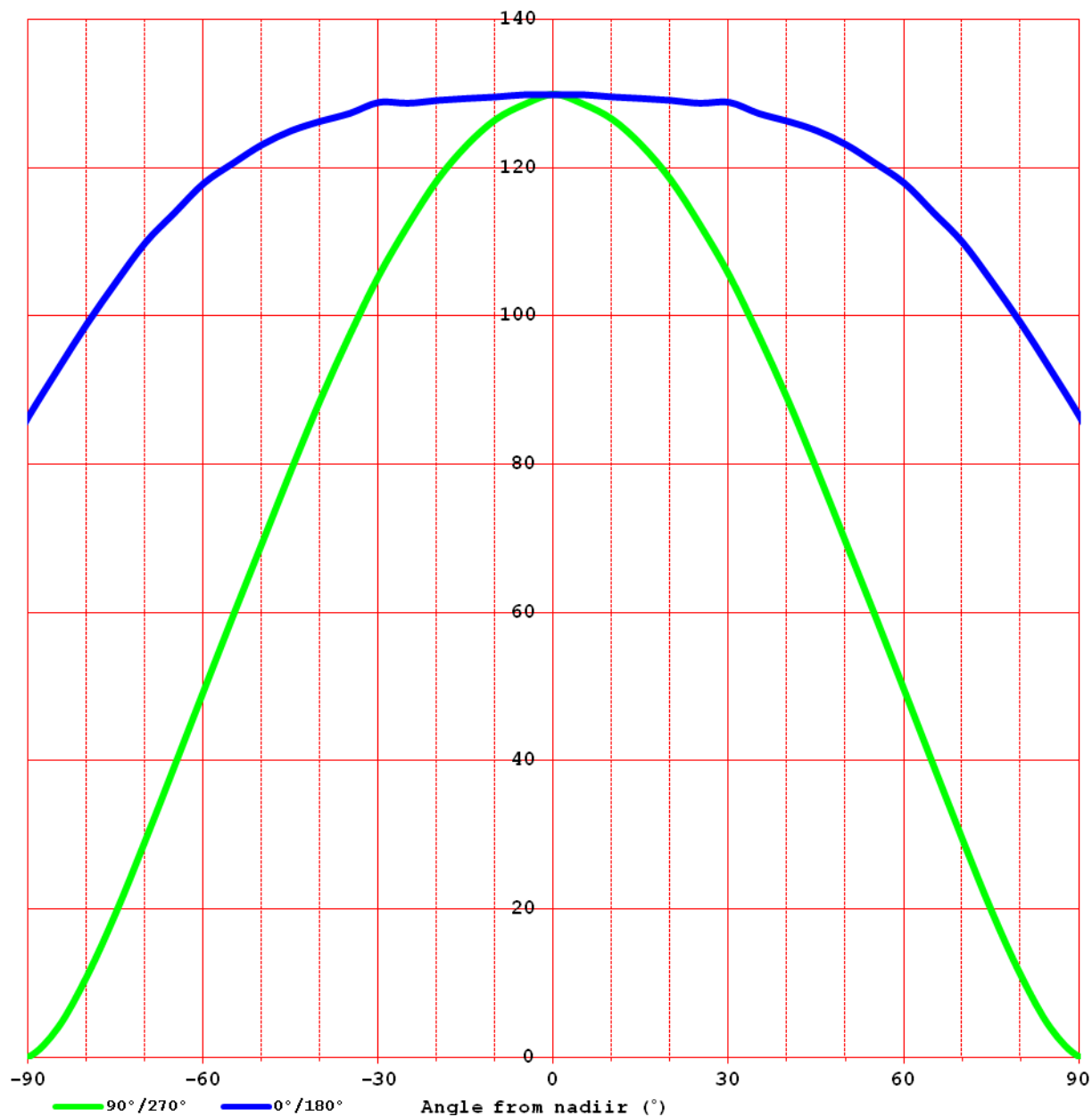
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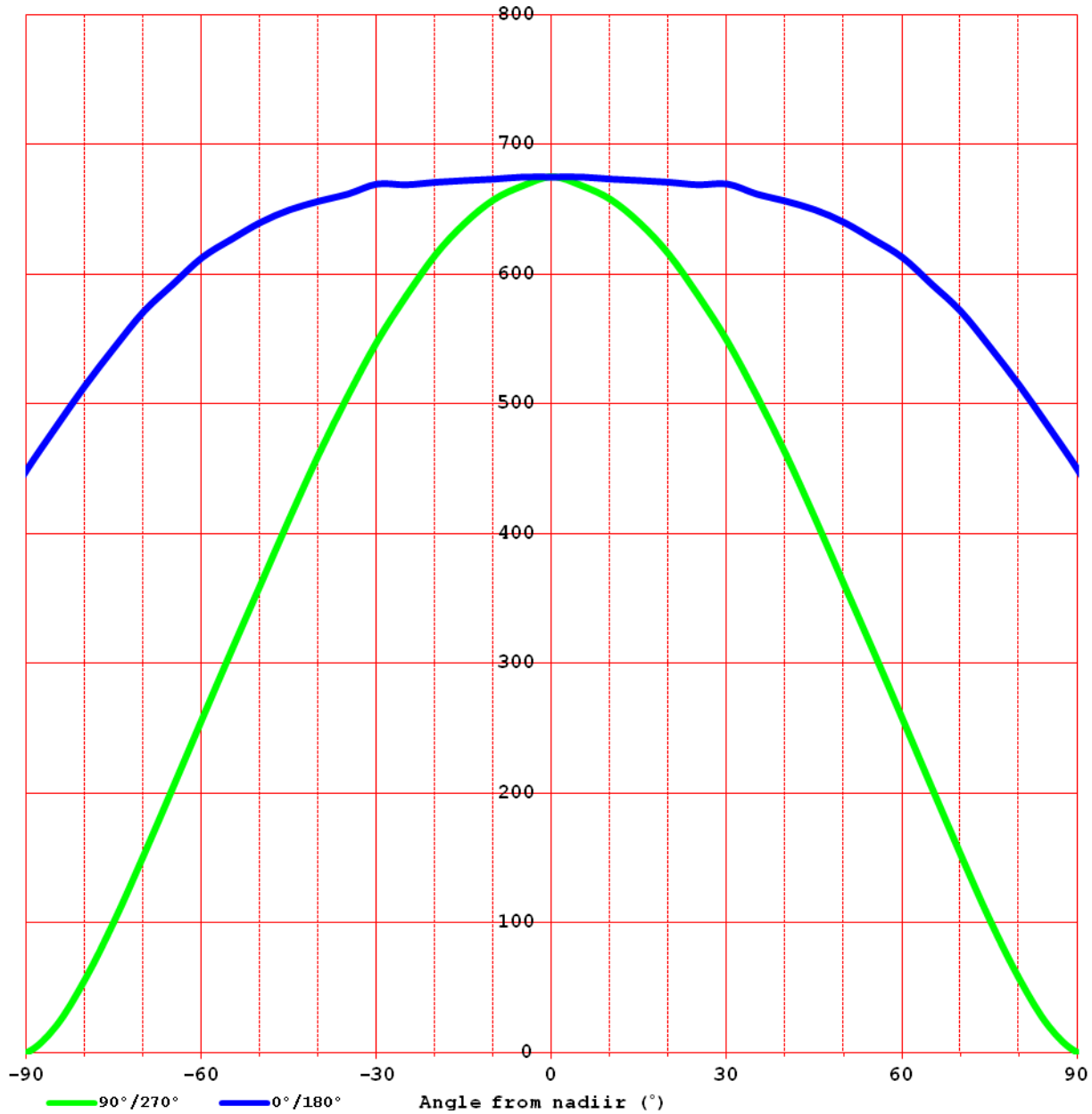
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Job / Report / Date

42 / 10692 / 10692-17a / 2013.06.17

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Average Luminous Intensities (cd/Klm)

Angle	Transverse plane	Axial plane
0°	129.88	129.88
5°	129.88	128.56
10°	129.58	126.49
15°	129.37	122.99
20°	129.11	118.33
25°	128.73	112.24
30°	128.85	105.46
35°	127.36	97.43
40°	126.30	88.75
45°	125.02	79.25
50°	123.14	69.36
55°	120.63	59.51
60°	117.94	49.45
65°	113.97	39.30
70°	109.92	29.24
75°	104.62	19.56
80°	98.98	10.92
85°	92.84	3.93
90°	86.47	0.00
95°	79.39	0.00
100°	71.83	0.00
105°	63.93	0.00
110°	55.68	0.00
115°	47.52	0.00
120°	39.74	0.00
125°	32.51	0.00
130°	25.62	0.00
135°	19.13	0.00
140°	2.44	0.00
145°	1.84	0.00
150°	0.95	0.00
155°	0.00	0.00
160°	0.00	0.00
165°	0.00	0.00
170°	0.00	0.00
175°	0.00	0.00
180°	0.00	0.00

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Average Luminous Intensities (cd)

Angle	Transverse plane	Axial plane
0°	675.36	675.36
5°	675.38	668.50
10°	673.81	657.73
15°	672.70	639.55
20°	671.38	615.31
25°	669.39	583.65
30°	670.00	548.38
35°	662.29	506.62
40°	656.75	461.47
45°	650.10	412.09
50°	640.35	360.66
55°	627.26	309.45
60°	613.27	257.13
65°	592.63	204.35
70°	571.57	152.03
75°	544.03	101.72
80°	514.72	56.80
85°	482.74	20.43
90°	449.66	0.00
95°	412.81	0.00
100°	373.51	0.00
105°	332.43	0.00
110°	289.55	0.00
115°	247.10	0.00
120°	206.64	0.00
125°	169.07	0.00
130°	133.24	0.00
135°	99.45	0.00
140°	12.67	0.00
145°	9.56	0.00
150°	4.95	0.00
155°	0.00	0.00
160°	0.00	0.00
165°	0.00	0.00
170°	0.00	0.00
175°	0.00	0.00
180°	0.00	0.00

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Light Output Ratios	Up	0.12
	Down	0.54
	Total	0.66

Spacing to Height Ratios	SHR NOM	1.75
	SHR MAX	1.82
	SHR MAX TRANS	2.38

Utilisation Factors UF(F) Standard Presentation SHR NOM = 1.75

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	N/A	.38	.42	.45	.50	.53	.55	.59	.61	
	.30		N/A	.32	.36	.40	.45	.49	.51	.55	.58	
	.10		N/A	.28	.32	.36	.41	.45	.48	.52	.55	
.50	.50	.20	N/A	.35	.39	.42	.46	.49	.51	.54	.56	
	.30		N/A	.30	.34	.37	.42	.45	.48	.51	.53	
	.10		N/A	.27	.31	.34	.39	.42	.45	.48	.51	
.30	.50	.20	N/A	.32	.36	.38	.42	.45	.47	.49	.51	
	.30		N/A	.28	.32	.35	.39	.42	.44	.47	.49	
	.10		N/A	.25	.29	.32	.36	.39	.42	.45	.47	
.00	.00	.00	N/A	.22	.25	.28	.32	.34	.37	.39	.41	
BZ Class			N/A	6	6	6	6	6	6	6	6	

CIE Flux code 34 / 62 / 84 / 82 / 66

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	0.22	0.29	0.36	0.42	0.47	0.56	0.61	0.65	0.71	0.74	0.80	0.82					
CIE class	7	/	7	/	7	/	7	/	7	/	8	/	8	/	9	/	-

Flux Fraction Ratio 0.22
DIN Class 0.66 B

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 / Report / Date 42 / 10692 / 10692-17a / 2013.06.17

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Lamp description 58W/840 F T8 Sylvania Luxline Plus
Lamp lumen output 5,200 lm
Lamp 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°	0.253	0.033
20°	0.331	0.057
25°	0.402	0.087
30°	0.467	0.121
35°	0.525	0.157
40°	0.574	0.196
45°	0.616	0.234
50°	0.650	0.270
55°	0.676	0.305
60°	0.696	0.336
65°	0.709	0.362
70°	0.718	0.383
75°	0.723	0.399
80°	0.725	0.409
85°	0.726	0.414
90°	0.726	0.415

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Zonal Flux Calculations

Angles	Individual	Cumulative
0° - 5°	0.5%	0.5%
5° - 10°	1.4%	1.9%
10° - 15°	2.3%	4.2%
15° - 20°	3.1%	7.3%
20° - 25°	3.9%	11.2%
25° - 30°	4.6%	15.7%
30° - 35°	5.1%	20.9%
35° - 40°	5.6%	26.4%
40° - 45°	5.9%	32.3%
45° - 50°	6.1%	38.5%
50° - 55°	6.2%	44.6%
55° - 60°	6.2%	50.8%
60° - 65°	6.0%	56.8%
65° - 70°	5.8%	62.6%
70° - 75°	5.4%	68.0%
75° - 80°	5.0%	73.0%
80° - 85°	4.6%	77.6%
85° - 90°	4.1%	81.7%
90° - 95°	3.7%	85.3%
95° - 100°	3.3%	88.6%
100° - 105°	2.8%	91.4%
105° - 110°	2.4%	93.8%
110° - 115°	2.0%	95.8%
115° - 120°	1.5%	97.3%
120° - 125°	1.1%	98.5%
125° - 130°	0.8%	99.3%
130° - 135°	0.5%	99.8%
135° - 140°	0.2%	99.9%
140° - 145°	0.0%	100.0%
145° - 150°	0.0%	100.0%
150° - 155°	0.0%	100.0%
155° - 160°	0.0%	100.0%
160° - 165°	0.0%	100.0%
165° - 170°	0.0%	100.0%
170° - 175°	0.0%	100.0%
175° - 180°	0.0%	100.0%

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42 / 10692 / 10692-17a / 2013.06.17

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Averaged Luminance Values (cd/m²)

Elevation(°)

Azimuth(°)

	0.0°	30.0°	60.0°	90.0°	120.0°	150.0°	180.0°
45°	5635	5415	4961	5357	4961	5415	5635
50°	5738	5455	4812	5158	4812	5455	5738
55°	5865	5517	4701	4960	4701	5517	5865
60°	6042	5611	4587	4728	4587	5611	6042
65°	6221	5735	4508	4445	4508	5735	6221
70°	6472	5913	4450	4086	4450	5913	6472
75°	6742	6105	4454	3613	4454	6105	6742
80°	7104	6446	4556	3007	4556	6446	7104
85°	7583	6882	4826	2154	4826	6882	7583
	180.0°	210.0°	240.0°	270.0°	300.0°	330.0°	0.0°
45°	5635	5415	4961	5357	4961	5415	5635
50°	5738	5455	4812	5158	4812	5455	5738
55°	5865	5517	4701	4960	4701	5517	5865
60°	6042	5611	4587	4728	4587	5611	6042
65°	6221	5735	4508	4445	4508	5735	6221
70°	6472	5913	4450	4086	4450	5913	6472
75°	6742	6105	4454	3613	4454	6105	6742
80°	7104	6446	4556	3007	4556	6446	7104
85°	7583	6882	4826	2154	4826	6882	7583

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Non averaged Luminance Values (cd/m²)

Elevation(°)

Azimuth(°)

	0.0°	30.0°	60.0°	90.0°	120.0°	150.0°	180.0°
45°	5591	5389	4905	5296	4999	5449	5678
50°	5683	5413	4753	5100	4870	5505	5794
55°	5794	5461	4625	4910	4765	5582	5936
60°	5963	5535	4497	4677	4658	5695	6122
65°	6118	5645	4394	4401	4601	5850	6324
70°	6316	5792	4310	4052	4583	6046	6628
75°	6565	5854	4296	3586	4593	6303	6919
80°	6894	6262	4365	3011	4726	6656	7314
85°	7329	6653	4592	2185	5031	7136	7836
	180.0°	210.0°	240.0°	270.0°	300.0°	330.0°	0.0°
45°	5678	5401	4948	5419	4992	5422	5591
50°	5794	5451	4815	5215	4810	5452	5683
55°	5936	5535	4699	5009	4718	5491	5794
60°	6122	5650	4601	4778	4591	5564	5963
65°	6324	5781	4530	4489	4510	5662	6118
70°	6628	5999	4487	4120	4418	5813	6316
75°	6919	6270	4520	3640	4406	5992	6565
80°	7314	6626	4656	3004	4478	6240	6894
85°	7836	7119	4977	2124	4704	6618	7329

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Averaged Luminance Values (cd/m²/klm)

Elevation(°)	Azimuth(°)						
	0.0°	30.0°	60.0°	90.0°	120.0°	150.0°	180.0°
45°	1084	1041	954	1030	954	1041	1084
50°	1104	1049	925	992	925	1049	1104
55°	1128	1061	904	954	904	1061	1128
60°	1162	1079	882	909	882	1079	1162
65°	1196	1103	867	855	867	1103	1196
70°	1245	1137	856	786	856	1137	1245
75°	1297	1174	856	695	856	1174	1297
80°	1366	1240	876	578	876	1240	1366
85°	1458	1323	928	414	928	1323	1458
	180.0°	210.0°	240.0°	270.0°	300.0°	330.0°	0.0°
45°	1084	1041	954	1030	954	1041	1084
50°	1104	1049	925	992	925	1049	1104
55°	1128	1061	904	954	904	1061	1128
60°	1162	1079	882	909	882	1079	1162
65°	1196	1103	867	855	867	1103	1196
70°	1245	1137	856	786	856	1137	1245
75°	1297	1174	856	695	856	1174	1297
80°	1366	1240	876	578	876	1240	1366
85°	1458	1323	928	414	928	1323	1458

Job / Report / Date 42 / 10692 / 10692-17a / 2013.06.17

Customer Encapsulite International Ltd.
Luminaire Range MT70 IP68
Luminaire catalog No. MT70 SC 58W
Luminaire description linear cylindrical luminaire
with opal cover
data derived from range test series
Lamp description 58W/840 F T8 Sylvania Luxline Plus
Lamp lumen output 5,200 lm
Lamp quantity 1

Non averaged Luminance Values (cd/m²/klm)

Elevation(°)	Azimuth(°)						
	0.0°	30.0°	60.0°	90.0°	120.0°	150.0°	180.0°
45°	1075	1036	943	1018	961	1048	1092
50°	1093	1041	914	981	937	1059	1114
55°	1114	1050	889	944	916	1074	1142
60°	1147	1065	865	899	896	1095	1177
65°	1177	1086	845	846	885	1125	1216
70°	1215	1114	829	779	881	1163	1275
75°	1263	1126	826	690	883	1212	1331
80°	1326	1204	839	579	909	1280	1407
85°	1409	1279	883	420	967	1372	1507
	180.0°	210.0°	240.0°	270.0°	300.0°	330.0°	0.0°
45°	1092	1039	952	1042	960	1043	1075
50°	1114	1048	926	1003	925	1048	1093
55°	1142	1064	904	963	907	1056	1114
60°	1177	1087	885	919	883	1070	1147
65°	1216	1112	871	863	867	1089	1177
70°	1275	1154	863	792	850	1118	1215
75°	1331	1206	869	700	847	1152	1263
80°	1407	1274	895	578	861	1200	1326
85°	1507	1369	957	408	905	1273	1409

Job / Report / Date 42 / 10692 / 10692-17a / 2013.06.17

Customer Encapsulite International Ltd.
Luminaire Range MT70 IP68
Luminaire catalog No. MT70 SC 58W
Luminaire description linear cylindrical luminaire
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Lamp description 58W/840 F T8 Sylvania Luxline Plus
Lamp lumen output 5,200 lm
Lamp quantity 1

Maximum Non averaged Luminance Values (cd/m²)

Elevation(°)

Maximum Azimuth Angle

45°	5678	180°
50°	5794	180°
55°	5936	180°
60°	6122	180°
65°	6324	180°
70°	6628	180°
75°	6919	180°
80°	7314	180°
85°	7836	180°

Job / Report / Date 42 / 10692 / 10692-17a / 2013.06.17

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Luminaire catalog No. MT70 SC 58W
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Lamp description 58W/840 F T8 Sylvania Luxline Plus
Lamp lumen output 5,200 lm
Lamp quantity 1

VDT Luminance Information

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

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

Customer Encapsulite International Ltd.
 Luminaire Range MT70 IP68
 Luminaire catalog No. MT70 SC 58W
 Luminaire description linear cylindrical luminaire
 with opal cover
 data derived from range test series
 Lamp description 58W/840 F T8 Sylvania Luxline Plus
 Lamp lumen output 5,200 lm
 Lamp quantity 1

Uncorrected Glare Indices

Reflectance of										
Ceiling	.70	.70	.50	.50	.30	.70	.70	.50	.50	.30
Wall	.50	.30	.50	.30	.30	.50	.30	.50	.30	.30
Floor Cavity	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20

Room dimension		Viewed crosswise					Viewed endwise				
X Y		0°					90°				
2H 2H	11.6	13.4	12.4	14.2	15.1	8.0	9.7	8.7	10.5	11.4	
3H	15.0	16.6	15.8	17.4	18.4	10.0	11.6	10.7	12.4	13.3	
4H	16.6	18.2	17.4	19.0	20.0	10.7	12.2	11.5	13.0	14.0	
6H	18.4	19.9	19.2	20.7	21.7	11.2	12.7	12.0	13.5	14.5	
8H	19.3	20.7	20.1	21.5	22.5	11.4	12.8	12.2	13.6	14.6	
12H	20.2	21.6	21.1	22.4	23.4	11.4	12.8	12.3	13.6	14.6	
4H 2H	12.5	14.0	13.3	14.9	15.8	10.1	11.6	10.9	12.4	13.4	
3H	16.2	17.6	17.0	18.4	19.4	12.3	13.7	13.1	14.5	15.5	
4H	18.2	19.4	19.0	20.3	21.3	13.3	14.5	14.1	15.4	16.4	
6H	20.1	21.2	21.0	22.1	23.2	14.0	15.1	14.9	16.0	17.0	
8H	21.2	22.2	22.1	23.1	24.2	14.3	15.3	15.1	16.2	17.3	
12H	22.3	23.3	23.2	24.2	25.2	14.5	15.4	15.3	16.3	17.4	
8H 4H	18.8	19.8	19.7	20.7	21.8	15.3	16.4	16.2	17.3	18.3	
6H	21.0	22.0	21.9	22.9	24.0	16.4	17.3	17.3	18.2	19.3	
8H	22.4	23.2	23.3	24.1	25.2	16.9	17.7	17.8	18.6	19.7	
12H	23.7	24.4	24.7	25.4	26.5	17.2	17.9	18.1	18.9	20.0	
12H 4H	18.9	19.9	19.8	20.8	21.9	16.3	17.3	17.2	18.1	19.2	
6H	21.4	22.2	22.3	23.1	24.2	17.6	18.4	18.5	19.3	20.4	
8H	22.7	23.4	23.7	24.4	25.5	18.2	18.9	19.1	19.8	20.9	

Calculated in accordance with CIBSE Technical Memorandum No. 10 1985

Customer

Encapsulite International Ltd.

Luminaire Range

MT70 IP68

Luminaire catalog No.

MT70 SC 58W

Luminaire description

linear cylindrical luminaire
with opal cover

data derived from range test series

Lamp description

58W/840 F T8 Sylvania Luxline Plus

Lamp lumen output

5,200 lm

Lamp quantity

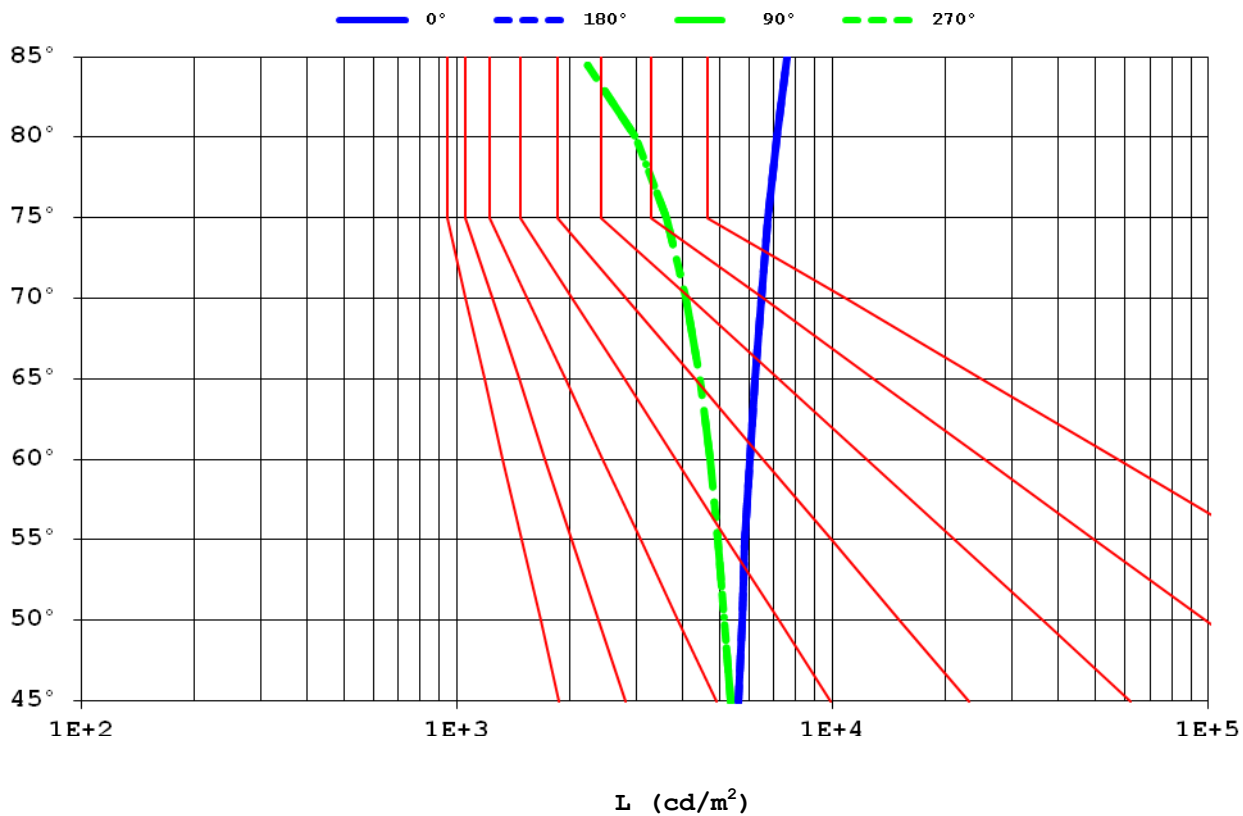
1

CIE Glare Limiting (Soellnor) Diagram

Glare Quality
Rating 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 / Report / Date 42 / 10692 / 10692-17a / 2013.06.17

Customer	Encapsulite International Ltd.
Luminaire Range	MT70 IP68
Luminaire catalog No.	MT70 SC 58W
Luminaire description	linear cylindrical luminaire with opal cover data derived from range test series
Lamp description	58W/840 F T8 Sylvania Luxline Plus
Lamp lumen output	5,200 lm
Lamp quantity	1

Comments

It is recommended that point to point calculations are used when designing lighting schemes in order to accurately predict uniformity. Data files in various formats are available to allow easy transfer of this data to a computer. Please enquire for details.

Job / Report / Date 42 / 10692 / 10692-17a / 2013.06.17

Customer Encapsulite International Ltd.
Luminaire Range MT70 IP68
Luminaire catalog No. MT70 SC 58W
Luminaire description linear cylindrical luminaire
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data derived from range test series
Lamp description 58W/840 F T8 Sylvania Luxline Plus
Lamp lumen output 5,200 lm
Lamp quantity 1

Quick Design Table

Based on: reflectances of Ceiling = 0.5
Wall = 0.5
Floor = 0.2
Room Index = 2.00
lamp output = 5200 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	0.8	1.3	1.7	2.1	3.4	4.2	8.4	12.6	21.0