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Photometric Report

Job / Report / Date 42 / 10692 / 10692-16a / 2013.06.17

Customer	Encapsulite International Ltd.
Luminaire Range	MT70 IP68
Luminaire catalog No.	MT70 SC 36W
Luminaire description	linear cylindrical luminaire with opal cover data derived from range test series
Lamp description	36W/840 FT8 GE Polulux XLr
Lamp lumen output	3,350 lm
Lamp quantity	1

Photometric Report

- Pictures
- Luminaire information
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- Principal Axes Intensities
- Light Output Ratios & CIBSE TM5 Results
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Job / Report / Date

42 / 10692 / 10692-16a / 2013.06.17

Customer

Encapsulite International Ltd.

Luminaire Range

MT70 IP68

Luminaire catalog No.

MT70 SC 36W

Luminaire description

linear cylindrical luminaire
with opal cover

Lamp description

data derived from range test series

Lamp lumen output

36W/840 FT8 GE Polulux XLr

Lamp quantity

3,350 lm

1



Helvar
www.helvar.com

ELECTRONIC BALLAST EL1x36/40/18s
220-240V 0/50-60Hz

tc



T8: 36W 0.16-0.15A λ 0.98

O

TC-L: 40W 0.20-0.18A λ 0.98

75 ° C

TC-L: 18W 0.08A λ 0.98

ta = -20...+50°C



Polylux XLr

FT8 36W 840



Made in U.S.A. Recyclable

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Luminaire physical characteristics

Overall Dimensions

Length	1312mm
Width	70mm
Height	70mm

Visible Dimensions when installed

Length	1312mm
Width	70mm
Height	70mm

Luminous Dimensions

Length	1250mm
Width	70mm
Height 0°	35mm
Height 90°	0mm
Height 180°	35mm
Height 270°	0mm

Luminous Areas

Base	0.0875m ²
Sides	0.04375m 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.

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Electrical input & Photometric output characteristics

Control gear

1 * Helvar EL1x36/40/18S

Ballast Voltage Range 220-240V
Ballast Current Range 0.15-0.16A
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	145.9	0.987	33.1	33.6	2,281	68%	68.9
Lamp	230.0	153.2	0.987	34.8	35.2	2,923	87%	84.0

Electrical characteristics at 25°C

Ballast Nominal	230V	154.8mA	0.98PF	34.9W	35.6VA
Lamp Nominal	230V	156.5mA	1.00PF	36.0W	36.0VA
Luminaire	230V	145.9mA	0.99PF	33.1W	33.6VA
Lamp	230V	153.2mA	0.99PF	34.8W	35.2VA

Measured Electrical characteristics relative to Ballast Nominal

Luminaire	Current	94%	Power	95%	VA	94%
Lamp	Current	99%	Power	100%	VA	99%

Measured Electrical characteristics relative to Lamp Nominal

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

Lumen Output figures used in this report (lumens)

Nominal Lamp Output	3,350
Measured Luminaire Output	2,281
Measured Lamp Output	2,923

Measured Lumen Output characteristics relative to Lamp Nominal Total

Luminaire	68%
Lamp	87%

Measured luminous efficacy at 25°C

Luminaire	68.9 lm/W
Lamp	84.0 lm/W

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The light output ratio of the luminaire was measured as 0.780 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 2,281 lumens at 25°C.
This figure can be related to the nominal lumen output of the lamp quoted by the manufacturer of 3,350 lumens, to give a nominal light output ratio of 0.681.

The measured lumen output of the lamp was 2,923 lumens at 25°C.
This figure can be related to the nominal lumen output of the lamp quoted by the manufacturer of 3,350 lumens, to give a nominal BLF of 0.872.

For lighting design calculations:

A light output ratio of 1 should be used in conjunction with the measured lumen output of the luminaire of 2,281 lumens.

or

The nominal light output ratio of 0.681 should be used in conjunction with the nominal lumen output of the lamp of 3,350 lumens.

or

The measured light output ratio of 0.780 should be used in conjunction with the measured lumen output of the lamp of 2,923 lumens.

or

The measured light output ratio of 0.780 should be used in conjunction with the nominal lumen output of the lamp of 3,350 lumens and the nominal BLF of 0.872.

This report is based on the following parameters:

The Light Output Ratio is the nominal value of 0.681.

The lamp output is the nominal value of 3,350 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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data derived from range test series

Lamp description

36W/840 FT8 GE Polulux XLr

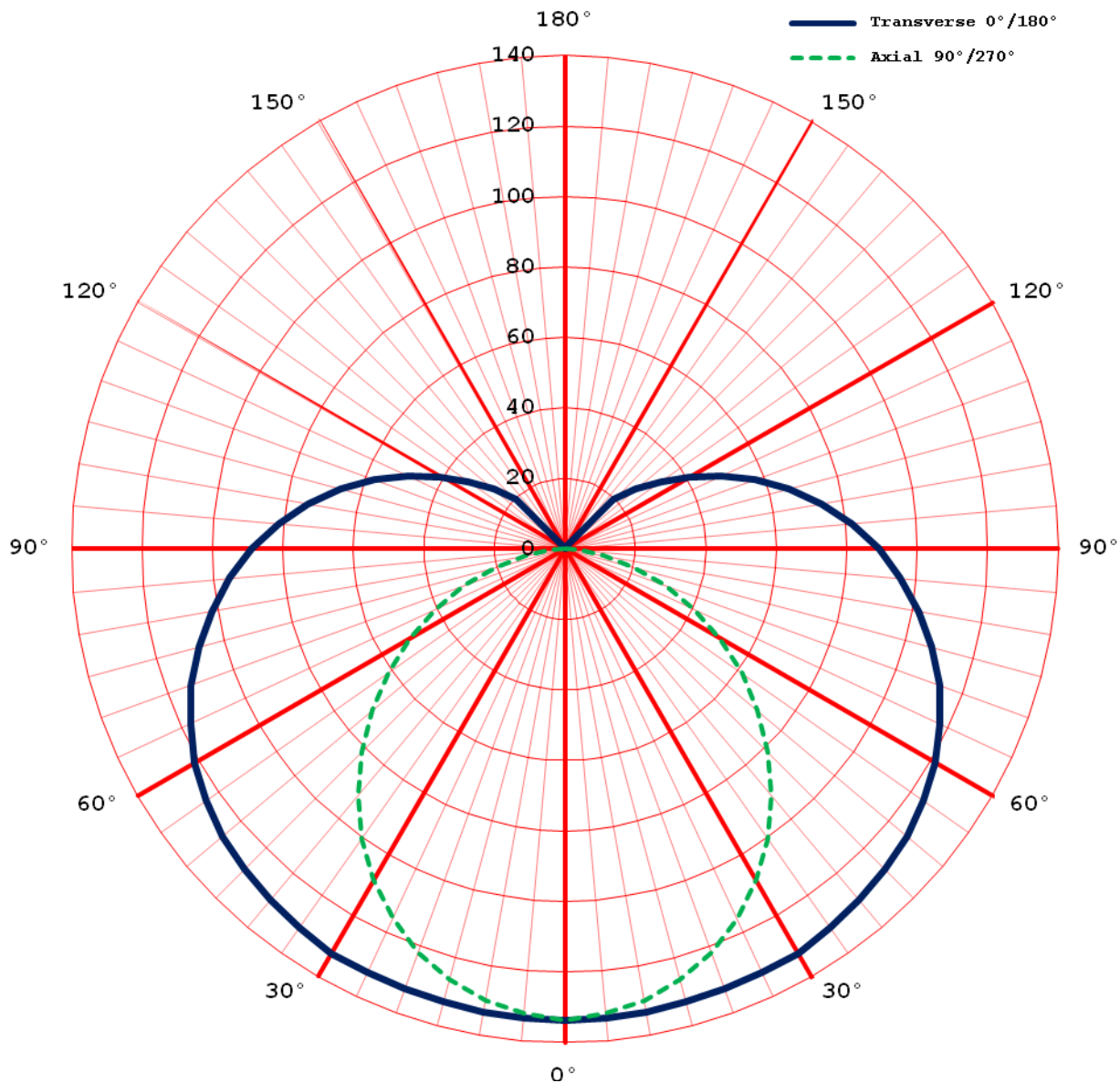
Lamp lumen output

3,350 lm

Lamp quantity

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Average Principal Axes Luminous Intensities (cd/klm)



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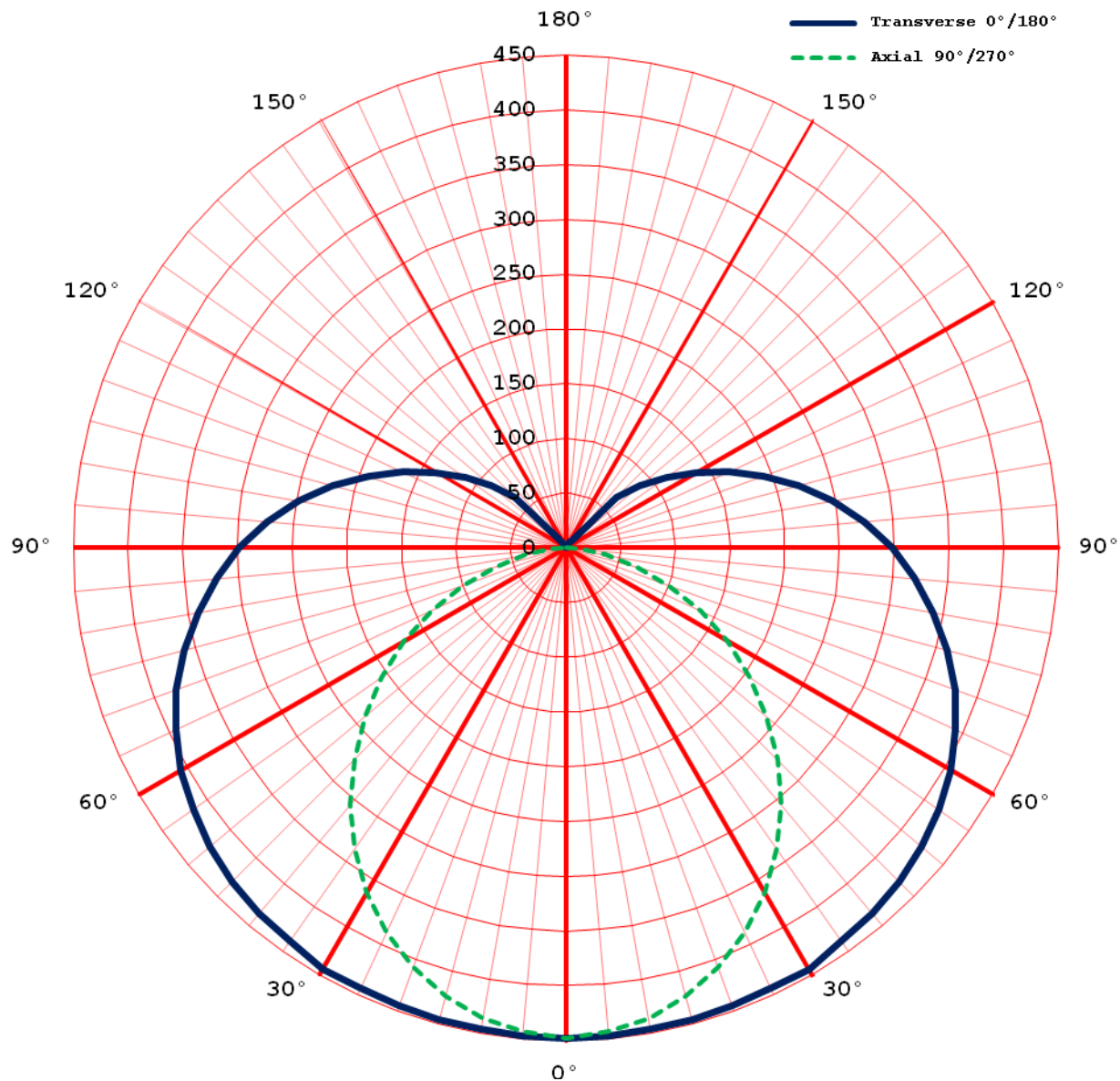
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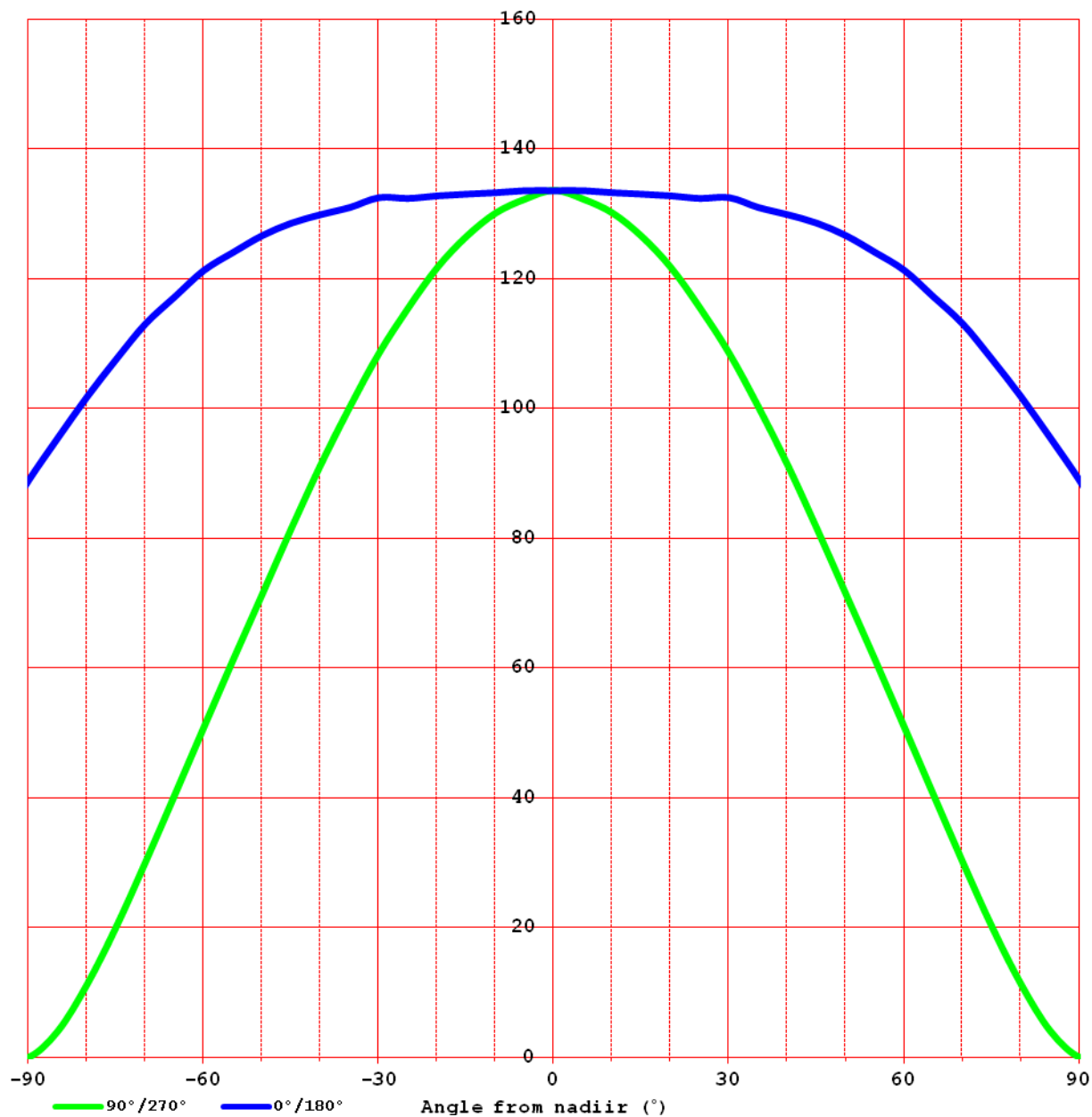
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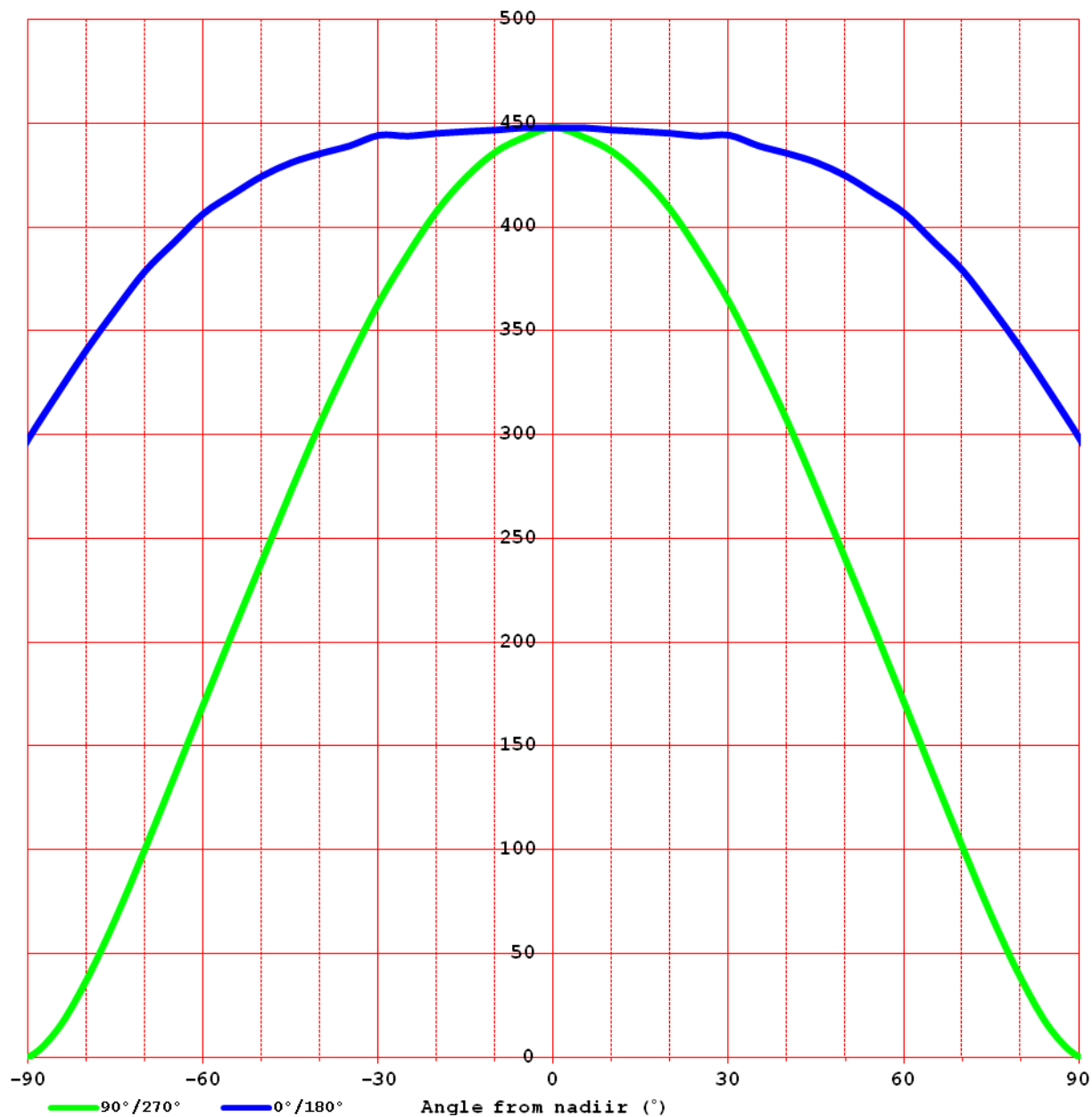
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Average Principal Axes Luminous Intensities (cd)



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Average Luminous Intensities (cd/Klm)

Angle	Transverse plane	Axial plane
0°	133.67	133.67
5°	133.67	132.31
10°	133.36	130.18
15°	133.14	126.58
20°	132.88	121.78
25°	132.49	115.52
30°	132.61	108.54
35°	131.08	100.27
40°	129.98	91.34
45°	128.67	81.56
50°	126.74	71.38
55°	124.15	61.25
60°	121.38	50.89
65°	117.29	40.45
70°	113.13	30.09
75°	107.68	20.13
80°	101.87	11.24
85°	95.55	4.04
90°	89.00	0.00
95°	81.70	0.00
100°	73.93	0.00
105°	65.80	0.00
110°	57.31	0.00
115°	48.91	0.00
120°	40.90	0.00
125°	33.46	0.00
130°	26.37	0.00
135°	19.68	0.00
140°	2.51	0.00
145°	1.89	0.00
150°	0.98	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°	447.79	447.79
5°	447.80	443.24
10°	446.76	436.10
15°	446.03	424.04
20°	445.15	407.98
25°	443.83	386.98
30°	444.24	363.60
35°	439.12	335.91
40°	435.45	305.98
45°	431.04	273.23
50°	424.57	239.13
55°	415.89	205.18
60°	406.62	170.49
65°	392.93	135.49
70°	378.98	100.80
75°	360.71	67.45
80°	341.28	37.66
85°	320.08	13.54
90°	298.14	0.00
95°	273.71	0.00
100°	247.65	0.00
105°	220.42	0.00
110°	191.98	0.00
115°	163.84	0.00
120°	137.01	0.00
125°	112.10	0.00
130°	88.34	0.00
135°	65.94	0.00
140°	8.40	0.00
145°	6.34	0.00
150°	3.28	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 0.56
Total 0.68

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	.39	.43	.46	.51	.55	.57	.60	.63	
	.30		N/A	.33	.38	.41	.46	.50	.53	.57	.59	
	.10		N/A	.29	.33	.37	.42	.46	.49	.54	.57	
.50	.50	.20	N/A	.36	.40	.43	.47	.50	.52	.55	.57	
	.30		N/A	.31	.35	.38	.43	.46	.49	.52	.55	
	.10		N/A	.27	.31	.35	.40	.43	.46	.50	.52	
.30	.50	.20	N/A	.33	.37	.39	.43	.46	.48	.51	.53	
	.30		N/A	.29	.33	.36	.40	.43	.45	.48	.51	
	.10		N/A	.26	.30	.33	.37	.40	.43	.46	.49	
.00	.00	.00	N/A	.23	.26	.29	.33	.35	.38	.41	.43	
BZ Class			N/A	6	6	6	6	6	6	6	6	

CIE Flux code 34 / 62 / 84 / 82 / 68

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 / 7 / 7 / 7 / 8 / 8 / 9 / -

Flux Fraction Ratio 0.22
DIN Class 0.68 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.

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Lamp description 36W/840 FT8 GE Polulux XLr
Lamp lumen output 3,350 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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Averaged Luminance Values (cd/m²)

Elevation(°)

Azimuth(°)

	0.0°	30.0°	60.0°	90.0°	120.0°	150.0°	180.0°
45°	4644	4464	4089	4416	4089	4464	4644
50°	4730	4496	3967	4252	3967	4496	4730
55°	4835	4548	3875	4088	3875	4548	4835
60°	4981	4625	3781	3897	3781	4625	4981
65°	5128	4727	3716	3664	3716	4727	5128
70°	5335	4874	3668	3368	3668	4874	5335
75°	5558	5032	3671	2978	3671	5032	5558
80°	5856	5314	3756	2479	3756	5314	5856
85°	6250	5672	3978	1776	3978	5672	6250
	180.0°	210.0°	240.0°	270.0°	300.0°	330.0°	0.0°
45°	4644	4464	4089	4416	4089	4464	4644
50°	4730	4496	3967	4252	3967	4496	4730
55°	4835	4548	3875	4088	3875	4548	4835
60°	4981	4625	3781	3897	3781	4625	4981
65°	5128	4727	3716	3664	3716	4727	5128
70°	5335	4874	3668	3368	3668	4874	5335
75°	5558	5032	3671	2978	3671	5032	5558
80°	5856	5314	3756	2479	3756	5314	5856
85°	6250	5672	3978	1776	3978	5672	6250

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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°	4609	4442	4043	4365	4120	4492	4680
50°	4684	4462	3918	4204	4015	4537	4776
55°	4776	4502	3812	4048	3927	4602	4893
60°	4915	4563	3707	3855	3839	4695	5046
65°	5043	4653	3622	3628	3792	4822	5212
70°	5207	4774	3553	3340	3778	4984	5463
75°	5412	4825	3541	2956	3786	5195	5703
80°	5683	5162	3598	2482	3896	5486	6029
85°	6042	5484	3786	1801	4147	5882	6459
	180.0°	210.0°	240.0°	270.0°	300.0°	330.0°	0.0°
45°	4680	4452	4079	4467	4115	4469	4609
50°	4776	4493	3969	4299	3965	4494	4684
55°	4893	4562	3873	4129	3889	4526	4776
60°	5046	4657	3793	3939	3784	4587	4915
65°	5212	4766	3734	3700	3717	4667	5043
70°	5463	4945	3698	3396	3642	4791	5207
75°	5703	5168	3726	3001	3631	4939	5412
80°	6029	5462	3838	2476	3691	5144	5683
85°	6459	5868	4102	1750	3878	5456	6042

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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°	1386	1332	1221	1318	1221	1332	1386
50°	1412	1342	1184	1269	1184	1342	1412
55°	1443	1358	1157	1220	1157	1358	1443
60°	1487	1381	1129	1163	1129	1381	1487
65°	1531	1411	1109	1094	1109	1411	1531
70°	1592	1455	1095	1005	1095	1455	1592
75°	1659	1502	1096	889	1096	1502	1659
80°	1748	1586	1121	740	1121	1586	1748
85°	1866	1693	1187	530	1187	1693	1866
	180.0°	210.0°	240.0°	270.0°	300.0°	330.0°	0.0°
45°	1386	1332	1221	1318	1221	1332	1386
50°	1412	1342	1184	1269	1184	1342	1412
55°	1443	1358	1157	1220	1157	1358	1443
60°	1487	1381	1129	1163	1129	1381	1487
65°	1531	1411	1109	1094	1109	1411	1531
70°	1592	1455	1095	1005	1095	1455	1592
75°	1659	1502	1096	889	1096	1502	1659
80°	1748	1586	1121	740	1121	1586	1748
85°	1866	1693	1187	530	1187	1693	1866

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Customer

Encapsulite International Ltd.

Luminaire Range

MT70 IP68

Luminaire catalog No.

MT70 SC 36W

Luminaire description

linear cylindrical luminaire
with opal cover

data derived from range test series

Lamp description

36W/840 FT8 GE Polulux XLr

Lamp lumen output

3,350 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°	1376	1326	1207	1303	1230	1341	1397
50°	1398	1332	1170	1255	1198	1354	1426
55°	1426	1344	1138	1208	1172	1374	1461
60°	1467	1362	1107	1151	1146	1401	1506
65°	1505	1389	1081	1083	1132	1439	1556
70°	1554	1425	1061	997	1128	1488	1631
75°	1615	1440	1057	882	1130	1551	1702
80°	1696	1541	1074	741	1163	1638	1800
85°	1803	1637	1130	538	1238	1756	1928
	180.0°	210.0°	240.0°	270.0°	300.0°	330.0°	0.0°
45°	1397	1329	1218	1333	1228	1334	1376
50°	1426	1341	1185	1283	1183	1341	1398
55°	1461	1362	1156	1232	1161	1351	1426
60°	1506	1390	1132	1176	1130	1369	1467
65°	1556	1423	1115	1104	1110	1393	1505
70°	1631	1476	1104	1014	1087	1430	1554
75°	1702	1543	1112	896	1084	1474	1615
80°	1800	1630	1146	739	1102	1535	1696
85°	1928	1752	1225	523	1158	1629	1803

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Customer Encapsulite International Ltd.
Luminaire Range MT70 IP68
Luminaire catalog No. MT70 SC 36W
Luminaire description linear cylindrical luminaire
with opal cover
data derived from range test series
Lamp description 36W/840 FT8 GE Polulux XLr
Lamp lumen output 3,350 lm
Lamp quantity 1

Maximum Non averaged Luminance Values (cd/m²)

Elevation(°)

Maximum Azimuth Angle

45°	4680	180°
50°	4776	180°
55°	4893	180°
60°	5046	180°
65°	5212	180°
70°	5463	180°
75°	5703	180°
80°	6029	180°
85°	6459	180°

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Luminaire catalog No. MT70 SC 36W
Luminaire description linear cylindrical luminaire
with opal cover
data derived from range test series
Lamp description 36W/840 FT8 GE Polulux XLr
Lamp lumen output 3,350 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

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Customer

Encapsulite International Ltd.

Luminaire Range

MT70 IP68

Luminaire catalog No.

MT70 SC 36W

Luminaire description

linear cylindrical luminaire
with opal cover

data derived from range test series

Lamp description

36W/840 FT8 GE Polulux XLr

Lamp lumen output

3,350 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	12.5	14.2	13.2	15.0	15.9	8.8	10.6	9.6	11.3	12.3
3H	15.8	17.4	16.6	18.3	19.2	10.8	12.4	11.6	13.2	14.2
4H	17.5	19.0	18.3	19.8	20.8	11.5	13.0	12.3	13.9	14.8
6H	19.3	20.7	20.1	21.5	22.5	12.1	13.5	12.9	14.3	15.3
8H	20.1	21.5	20.9	22.4	23.4	12.2	13.6	13.0	14.4	15.4
12H	21.1	22.4	21.9	23.3	24.3	12.3	13.6	13.1	14.5	15.5
4H 2H	13.3	14.9	14.1	15.7	16.6	10.9	12.4	11.7	13.3	14.2
3H	17.0	18.4	17.9	19.3	20.2	13.1	14.5	14.0	15.3	16.3
4H	19.0	20.2	19.8	21.1	22.1	14.1	15.4	15.0	16.2	17.3
6H	21.0	22.1	21.8	23.0	24.0	14.8	15.9	15.7	16.8	17.9
8H	22.0	23.1	22.9	24.0	25.0	15.1	16.2	16.0	17.1	18.1
12H	23.1	24.1	24.0	25.0	26.1	15.3	16.3	16.2	17.2	18.2
8H 4H	19.6	20.7	20.5	21.6	22.6	16.2	17.2	17.1	18.1	19.2
6H	21.9	22.8	22.8	23.7	24.8	17.2	18.1	18.1	19.0	20.1
8H	23.2	24.0	24.1	25.0	26.0	17.7	18.5	18.6	19.5	20.5
12H	24.6	25.3	25.5	26.2	27.3	18.0	18.8	19.0	19.7	20.8
12H 4H	19.7	20.7	20.6	21.6	22.7	17.1	18.1	18.0	19.0	20.1
6H	22.2	23.0	23.1	23.9	25.0	18.4	19.2	19.3	20.2	21.2
8H	23.6	24.3	24.5	25.2	26.3	19.0	19.7	19.9	20.7	21.7

Calculated in accordance with CIBSE Technical Memorandum No. 10 1985

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Customer

Encapsulite International Ltd.

Luminaire Range

MT70 IP68

Luminaire catalog No.

MT70 SC 36W

Luminaire description

linear cylindrical luminaire
with opal cover

data derived from range test series

Lamp description

36W/840 FT8 GE Polulux XLr

Lamp lumen output

3,350 lm

Lamp quantity

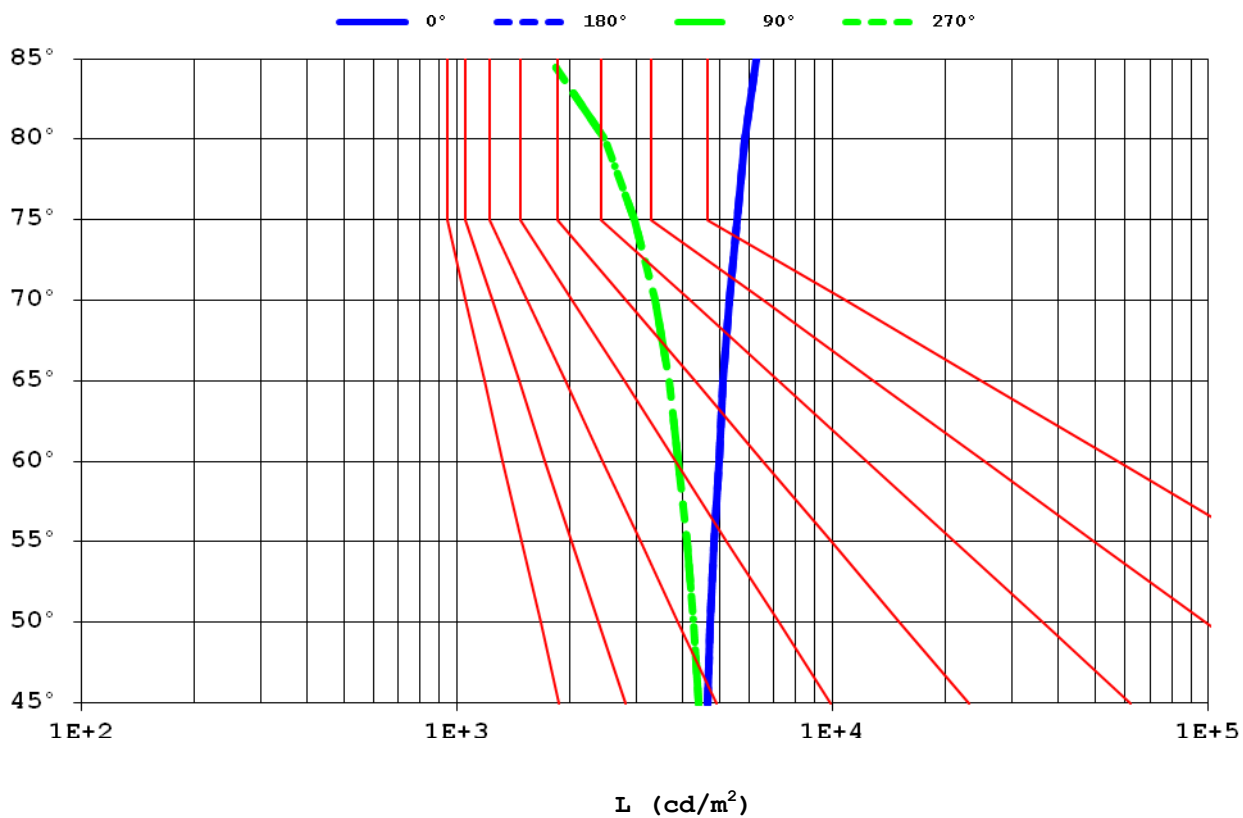
1

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



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Customer	Encapsulite International Ltd.
Luminaire Range	MT70 IP68
Luminaire catalog No.	MT70 SC 36W
Luminaire description	linear cylindrical luminaire with opal cover data derived from range test series
Lamp description	36W/840 FT8 GE Polulux XLr
Lamp lumen output	3,350 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.

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Customer Encapsulite International Ltd.
Luminaire Range MT70 IP68
Luminaire catalog No. MT70 SC 36W
Luminaire description linear cylindrical luminaire
with opal cover
data derived from range test series
Lamp description 36W/840 FT8 GE Polulux XLr
Lamp lumen output 3,350 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 = 3350 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	1.3	1.9	2.5	3.2	5.1	6.3	12.7	19.0	31.7