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VAT Registration Number: GB 661 1596 34

Photometric Report

Job / Report / Date

42 / 9102 / 9102-14b / 2010.03.26

Customer	Encapsulite International Ltd.
Luminaire Range	Stick-Lite
Luminaire catalog No.	HFI 58W Stick-Lite
Luminaire description	Sealed tubular luminaire with integral T8 fluorescent lamp Single distribution test used for series
Lamp description	58W T8 linear fluorescent
Lamp lumen output	3730lm
No. of lamps in luminaire	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 / 9102 / 9102-14b / 2010.03.26

Customer

Encapsulite International Ltd.

Luminaire Range

Stick-Lite

Luminaire catalog No.

HFI 58W Stick-Lite

Luminaire description

Sealed tubular luminaire
with integral T8 fluorescent lamp
Single distribution test used for series

Lamp description

58W T8 linear fluorescent

Lamp lumen output

3730lm

No. of lamps in luminaire

1



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Customer	Encapsulite International Ltd.
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No. of lamps in luminaire	1

Luminaire physical characteristics

Overall Dimensions

Length	1783mm
Width	38mm
Height	38mm

Visible Dimensions when installed

Length	1783mm
Width	38mm
Height	38mm

Luminous Dimensions

Length	1467mm
Width	35mm
Height 0°	35mm
Height 90°	35mm
Height 180°	35mm
Height 270°	35mm

Luminous Areas

Base	0.051345m ²
Sides	0.051345m ² (0°/180° azimuth)
Ends	0.001225m ² (90°/270° azimuth)

Job / Report / Date 42 / 9102 / 9102-14b / 2010.03.26

Customer Encapsulite International Ltd.

Luminaire Range Stick-Lite

Luminaire catalog No. HFI 58W Stick-Lite

Luminaire description Sealed tubular luminaire
with integral T8 fluorescent lamp
Single distribution test used for series

Lamp description 58W T8 linear fluorescent

Lamp lumen output 3730lm

No. of lamps in luminaire 1

Report Basis

All measurements taken in accordance with BS5225 / EN13032 / CIE24 / CIE27 / CIE121.

Control gear

1 * integral ballast
Ballast Voltage Range 220-240V

Electrical characteristics at 25°C

Luminaire	230V	211.9mA	0.99PF	48.1W	48.8VA
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Lumen Output figures used in this report (lumens)

Measured Luminaire Output	3,726
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Measured luminous efficacy at 25°C

Luminaire	77.5 lm/W
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Luminaire tests were performed with 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 luminaire.

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 was determined at 25°C.

The lamp was treated as an integral part of the luminaire.

No measurement of the absolute lumen output of components of the lamp assembly were made. For calculation purposes, the Lumen Output figure mentioned in this report should be used in conjunction with a Light Output Ratio of 1.

No measurement of the ballast factor of the control gear was made.

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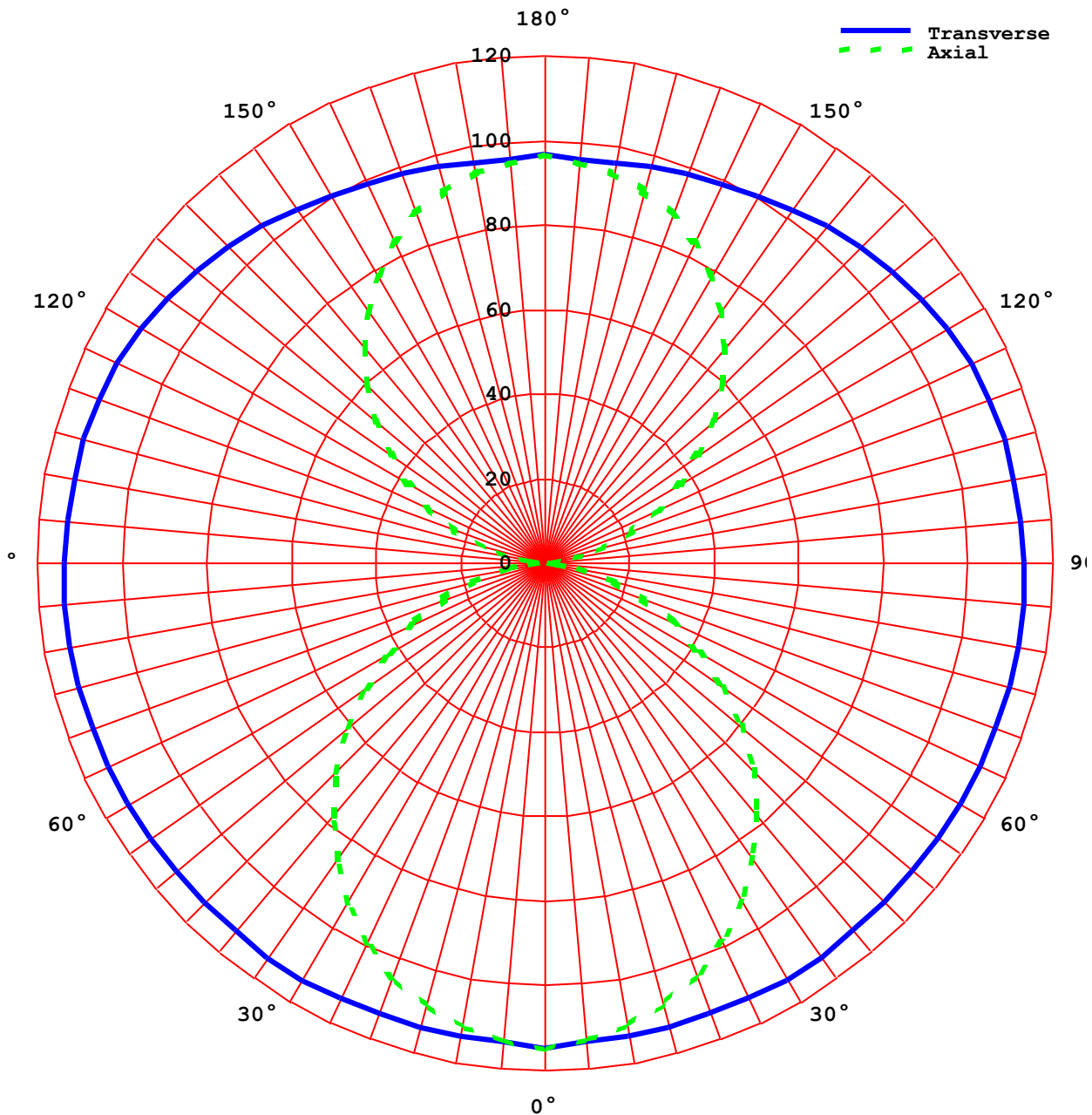
Lamp lumen output

3730lm

No. of lamps in luminaire

1

Average Principal Axes Luminous Intensities (cd/klm)



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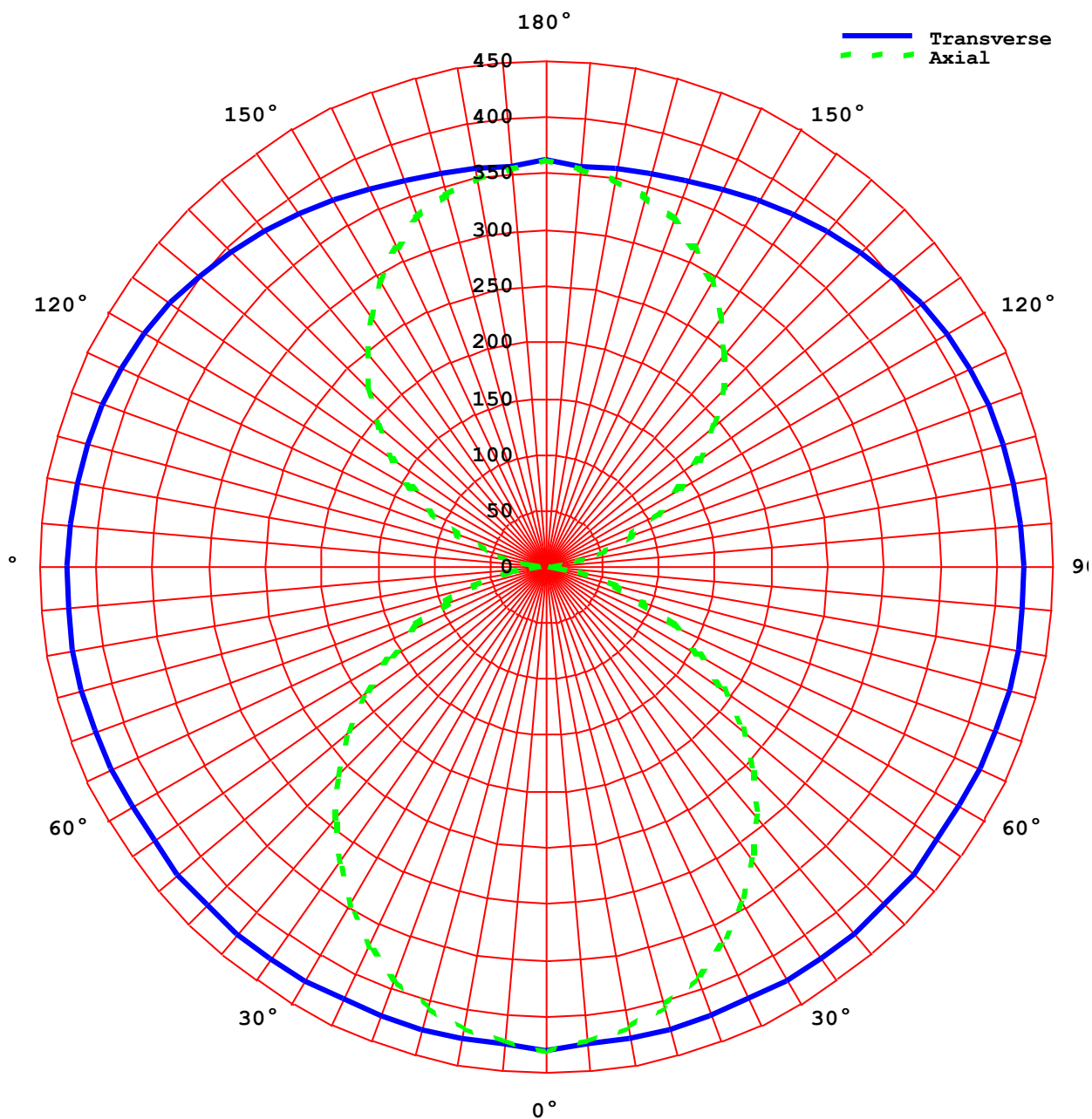
Lamp lumen output

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No. of lamps in luminaire

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Average Principal Axes Luminous Intensities (cd)



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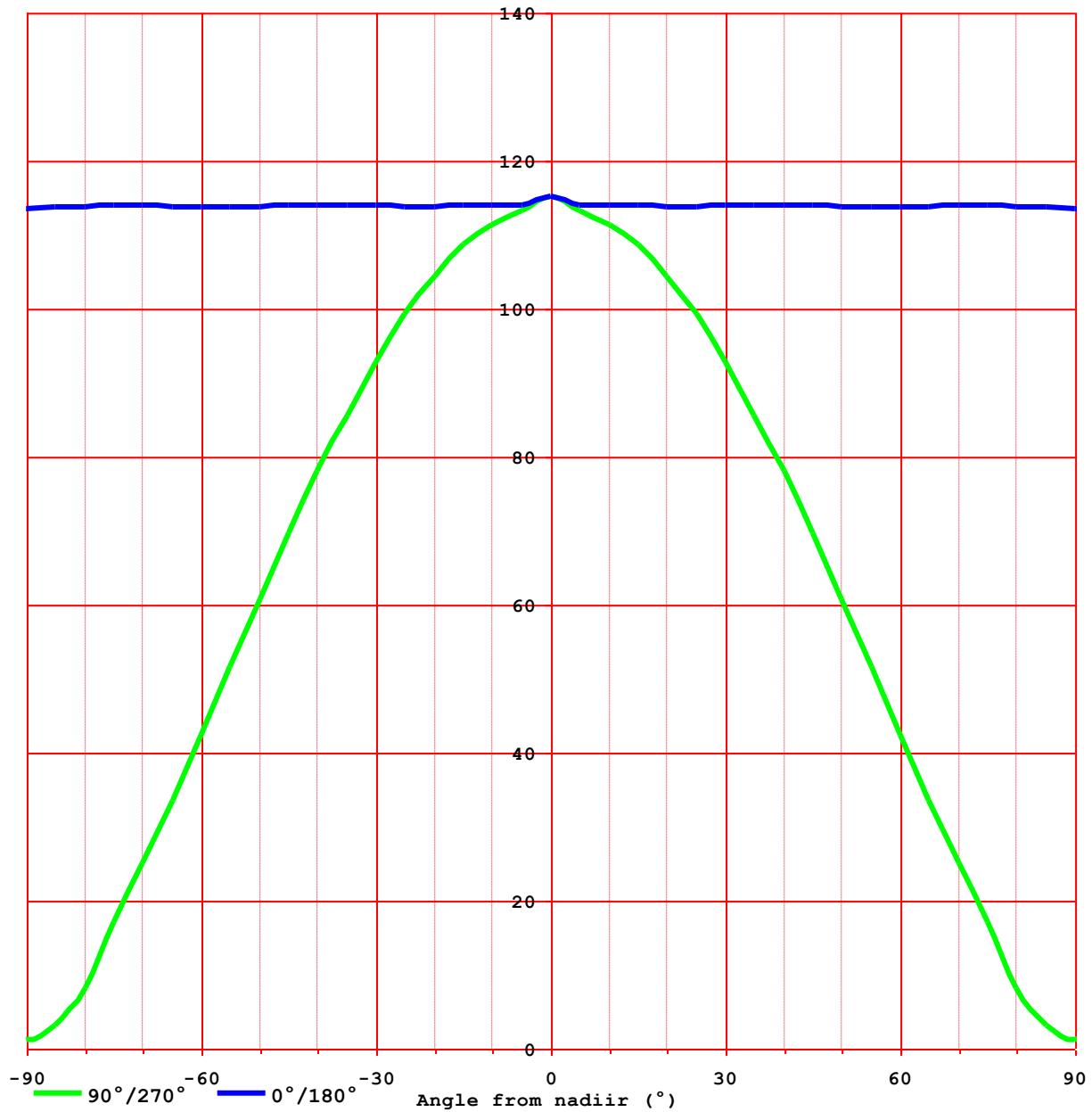
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No. of lamps in luminaire

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Average Principal Axes Luminous Intensities (cd/klm)



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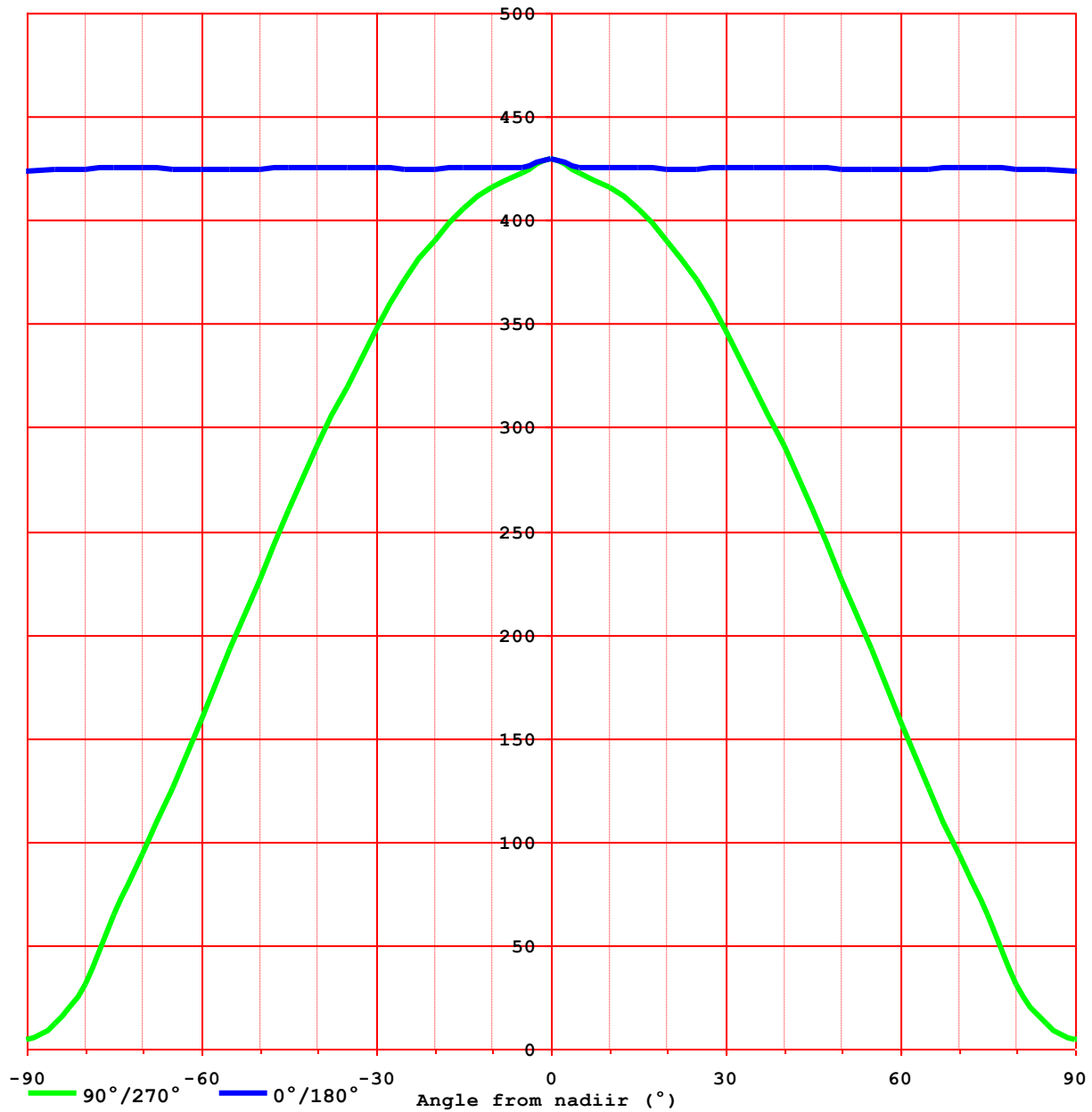
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Average Principal Axes Luminous Intensities (cd)



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Luminaire description Sealed tubular luminaire
with integral T8 fluorescent lamp
Single distribution test used for series
Lamp description 58W T8 linear fluorescent
Lamp lumen output 3730lm
No. of lamps in luminaire 1

Average Luminous Intensities (cd/Klm)

Angle	Transverse plane	Axial plane
0°	115.09	115.09
5°	113.93	113.24
10°	113.96	111.44
15°	113.94	108.57
20°	113.85	104.40
25°	113.78	99.34
30°	114.07	92.87
35°	114.03	85.61
40°	113.96	77.97
45°	113.89	69.58
50°	113.85	60.79
55°	113.78	51.61
60°	113.75	42.37
65°	113.81	33.61
70°	113.87	25.06
75°	113.88	17.22
80°	113.80	8.20
85°	113.71	3.16
90°	113.59	1.09
95°	113.19	3.55
100°	112.76	9.05
105°	112.40	14.98
110°	111.93	22.13
115°	111.23	29.64
120°	110.24	36.93
125°	108.91	44.52
130°	107.38	51.94
135°	105.57	59.55
140°	103.85	66.13
145°	102.03	72.61
150°	100.38	78.24
155°	98.60	83.62
160°	97.56	87.74
165°	96.75	91.12
170°	95.99	93.42
175°	95.54	94.93
180°	96.61	96.61

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Lamp description

58W T8 linear fluorescent

Lamp lumen output

3730lm

No. of lamps in luminaire

1

Average Luminous Intensities (cd)

Angle	Transverse plane	Axial plane
0°	429.28	429.28
5°	424.98	422.38
10°	425.07	415.65
15°	424.99	404.96
20°	424.67	389.43
25°	424.41	370.53
30°	425.47	346.42
35°	425.34	319.31
40°	425.07	290.83
45°	424.80	259.55
50°	424.67	226.74
55°	424.41	192.52
60°	424.28	158.04
65°	424.52	125.35
70°	424.74	93.47
75°	424.79	64.25
80°	424.49	30.58
85°	424.12	11.77
90°	423.70	4.08
95°	422.22	13.25
100°	420.60	33.78
105°	419.24	55.89
110°	417.49	82.53
115°	414.88	110.56
120°	411.20	137.75
125°	406.24	166.07
130°	400.54	193.75
135°	393.78	222.13
140°	387.35	246.65
145°	380.59	270.84
150°	374.42	291.84
155°	367.76	311.90
160°	363.89	327.29
165°	360.87	339.89
170°	358.04	348.45
175°	356.37	354.10
180°	360.37	360.37

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Lamp description Single distribution test used for series
58W T8 linear fluorescent
Lamp lumen output 3730lm
No. of lamps in luminaire 1

Light Output Ratios Up 0.48
Down 0.52
Total 1.00

Spacing to Height Ratios SHR NOM 1.75
SHR MAX 1.84
SHR MAX TRANS 2.46

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	.50	.56	.61	.68	.72	.75	.80	.83	
	.30		N/A	.43	.49	.54	.61	.66	.70	.75	.79	
	.10		N/A	.37	.43	.48	.55	.61	.65	.71	.75	
.50	.50	.20	N/A	.43	.48	.52	.57	.61	.64	.68	.70	
	.30		N/A	.37	.42	.46	.52	.56	.59	.64	.67	
	.10		N/A	.32	.37	.41	.48	.52	.56	.61	.64	
.30	.50	.20	N/A	.36	.40	.43	.47	.50	.53	.56	.58	
	.30		N/A	.31	.35	.39	.44	.47	.50	.53	.56	
	.10		N/A	.27	.32	.35	.40	.44	.47	.51	.53	
.00	.00	.00	N/A	.20	.23	.25	.29	.31	.33	.36	.38	
BZ Class			N/A	6	6	6	6	6	6	7	7	

CIE Flux code 32 / 58 / 80 / 52 / 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 0.22 0.28 0.33 0.40 0.45 0.53 0.58 0.62 0.66 0.68 0.69 0.66
CIE class 7 / 8 / 8 / 8 / 8 / 8 / 8 / 8 / 8 / 8 / 9 / - / -

Flux Fraction Ratio 0.92
DIN Class 1.00 C

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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Luminaire Range

Stick-Lite

Luminaire catalog No.

HFI 58W Stick-Lite

Luminaire description

Sealed tubular luminaire
with integral T8 fluorescent lamp
Single distribution test used for series

Lamp description

58W T8 linear fluorescent

Lamp lumen output

3730lm

No. of lamps in luminaire

1

Angle

Aspect Factors

	Parallel plane	Perpendicular plane
0°	0.000	0.000
5°	0.086	0.004
10°	0.171	0.015
15°	0.252	0.033
20°	0.329	0.057
25°	0.401	0.087
30°	0.465	0.120
35°	0.522	0.157
40°	0.571	0.194
45°	0.613	0.232
50°	0.646	0.269
55°	0.672	0.302
60°	0.691	0.333
65°	0.704	0.358
70°	0.713	0.379
75°	0.718	0.394
80°	0.720	0.403
85°	0.720	0.408
90°	0.720	0.409

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Lamp lumen output	3730lm
No. of lamps in luminaire	1

Zonal Flux Calculations

Angles	Individual	Cumulative
0° - 5°	0.3%	0.3%
5° - 10°	0.8%	1.1%
10° - 15°	1.3%	2.4%
15° - 20°	1.8%	4.2%
20° - 25°	2.3%	6.5%
25° - 30°	2.7%	9.2%
30° - 35°	3.0%	12.2%
35° - 40°	3.3%	15.4%
40° - 45°	3.5%	18.9%
45° - 50°	3.6%	22.6%
50° - 55°	3.7%	26.3%
55° - 60°	3.8%	30.1%
60° - 65°	3.8%	33.9%
65° - 70°	3.7%	37.6%
70° - 75°	3.7%	41.3%
75° - 80°	3.6%	44.9%
80° - 85°	3.5%	48.5%
85° - 90°	3.5%	52.0%
90° - 95°	3.5%	55.5%
95° - 100°	3.5%	59.0%
100° - 105°	3.5%	62.5%
105° - 110°	3.6%	66.1%
110° - 115°	3.6%	69.7%
115° - 120°	3.6%	73.3%
120° - 125°	3.5%	76.8%
125° - 130°	3.4%	80.3%
130° - 135°	3.3%	83.6%
135° - 140°	3.1%	86.7%
140° - 145°	2.9%	89.6%
145° - 150°	2.6%	92.2%
150° - 155°	2.3%	94.5%
155° - 160°	1.9%	96.4%
160° - 165°	1.5%	98.0%
165° - 170°	1.1%	99.1%
170° - 175°	0.7%	99.8%
175° - 180°	0.2%	100.0%

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 Single distribution test used for series
 Lamp description 58W T8 linear fluorescent
 Lamp lumen output 3730lm
 No. of lamps in luminaire 1

Averaged Luminance Values (Cd/m²)

Elevation(°)

Azimuth(°)

	0°	15°	30°	45°	60°	75°	90°
45°	5850	5766	5675	5542	5544	5862	6982
50°	5871	5764	5624	5400	5286	5507	6680
55°	5935	5805	5618	5296	5049	5116	6322
60°	6049	5895	5661	5229	4842	4755	5912
65°	6222	6043	5758	5229	4678	4383	5496
70°	6454	6253	5926	5288	4570	4016	4995
75°	6755	6534	6177	5439	4554	3709	4439
80°	7137	6897	6514	5694	4688	3425	3021
85°	7625	7372	6985	6119	5016	3429	2067
	90°	105°	120°	135°	150°	165°	180°
45°	6982	5862	5544	5542	5675	5766	5850
50°	6680	5507	5286	5400	5624	5764	5871
55°	6322	5116	5049	5296	5618	5805	5935
60°	5912	4755	4842	5229	5661	5895	6049
65°	5496	4383	4678	5229	5758	6043	6222
70°	4995	4016	4570	5288	5926	6253	6454
75°	4439	3709	4554	5439	6177	6534	6755
80°	3021	3425	4688	5694	6514	6897	7137
85°	2067	3429	5016	6119	6985	7372	7625
	180°	195°	210°	225°	240°	255°	270°
45°	5850	5766	5675	5542	5544	5862	6982
50°	5871	5764	5624	5400	5286	5507	6680
55°	5935	5805	5618	5296	5049	5116	6322
60°	6049	5895	5661	5229	4842	4755	5912
65°	6222	6043	5758	5229	4678	4383	5496
70°	6454	6253	5926	5288	4570	4016	4995
75°	6755	6534	6177	5439	4554	3709	4439
80°	7137	6897	6514	5694	4688	3425	3021
85°	7625	7372	6985	6119	5016	3429	2067
	270°	285°	300°	315°	330°	345°	0°
45°	6982	5862	5544	5542	5675	5766	5850
50°	6680	5507	5286	5400	5624	5764	5871
55°	6322	5116	5049	5296	5618	5805	5935
60°	5912	4755	4842	5229	5661	5895	6049
65°	5496	4383	4678	5229	5758	6043	6222
70°	4995	4016	4570	5288	5926	6253	6454
75°	4439	3709	4554	5439	6177	6534	6755
80°	3021	3425	4688	5694	6514	6897	7137
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 No. of lamps in luminaire 1

Non averaged Luminance Values (Cd/m²)

Elevation(°)

Azimuth(°)

	0°	15°	30°	45°	60°	75°	90°
45°	5840	5766	5697	5591	5589	5923	7096
50°	5859	5763	5645	5444	5322	5568	6769
55°	5925	5805	5639	5335	5077	5153	6418
60°	6042	5897	5684	5275	4873	4812	6007
65°	6213	6044	5782	5279	4744	4443	5551
70°	6445	6256	5956	5324	4597	4075	5060
75°	6748	6540	6211	5465	4562	3754	4475
80°	7133	6906	6547	5723	4696	3457	3033
85°	7626	7386	7021	6139	5021	3462	2097
	90°	105°	120°	135°	150°	165°	180°
45°	7096	5900	5635	5587	5735	5798	5861
50°	6769	5571	5378	5458	5687	5797	5882
55°	6418	5182	5110	5351	5685	5839	5945
60°	6007	4810	4945	5294	5733	5929	6057
65°	5551	4437	4757	5308	5829	6077	6230
70°	5060	4048	4669	5376	5996	6287	6463
75°	4475	3682	4638	5527	6253	6569	6762
80°	3033	3426	4800	5785	6587	6927	7140
85°	2097	3410	5122	6221	7057	7398	7624
	180°	195°	210°	225°	240°	255°	270°
45°	5861	5759	5622	5495	5468	5833	6869
50°	5882	5758	5575	5353	5208	5465	6592
55°	5945	5796	5561	5247	4983	5107	6226
60°	6057	5882	5596	5172	4755	4715	5816
65°	6230	6030	5691	5160	4590	4346	5440
70°	6463	6239	5851	5209	4476	3999	4930
75°	6762	6515	6088	5351	4470	3735	4403
80°	7140	6875	6427	5600	4574	3444	3009
85°	7624	7346	6893	6013	4902	3441	2037
	270°	285°	300°	315°	330°	345°	0°
45°	6869	5793	5485	5496	5645	5742	5840
50°	6592	5423	5235	5345	5589	5737	5859
55°	6226	5023	5026	5250	5589	5781	5925
60°	5816	4684	4796	5175	5631	5873	6042
65°	5440	4307	4622	5171	5730	6020	6213
70°	4930	3942	4536	5243	5901	6230	6445
75°	4403	3662	4545	5412	6156	6514	6748
80°	3009	3374	4682	5668	6496	6880	7133
85°	2037	3404	5018	6105	6968	7359	7626

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Elevation(°)

Azimuth(°)

	0°	15°	30°	45°	60°	75°	90°
45°	1568	1546	1521	1486	1486	1572	1872
50°	1574	1545	1508	1448	1417	1476	1791
55°	1591	1556	1506	1420	1354	1372	1695
60°	1622	1581	1518	1402	1298	1275	1585
65°	1668	1620	1544	1402	1254	1175	1473
70°	1730	1676	1589	1418	1225	1077	1339
75°	1811	1752	1656	1458	1221	994	1190
80°	1913	1849	1746	1527	1257	918	810
85°	2044	1976	1873	1641	1345	919	554
	90°	105°	120°	135°	150°	165°	180°
45°	1872	1572	1486	1486	1521	1546	1568
50°	1791	1476	1417	1448	1508	1545	1574
55°	1695	1372	1354	1420	1506	1556	1591
60°	1585	1275	1298	1402	1518	1581	1622
65°	1473	1175	1254	1402	1544	1620	1668
70°	1339	1077	1225	1418	1589	1676	1730
75°	1190	994	1221	1458	1656	1752	1811
80°	810	918	1257	1527	1746	1849	1913
85°	554	919	1345	1641	1873	1976	2044
	180°	195°	210°	225°	240°	255°	270°
45°	1568	1546	1521	1486	1486	1572	1872
50°	1574	1545	1508	1448	1417	1476	1791
55°	1591	1556	1506	1420	1354	1372	1695
60°	1622	1581	1518	1402	1298	1275	1585
65°	1668	1620	1544	1402	1254	1175	1473
70°	1730	1676	1589	1418	1225	1077	1339
75°	1811	1752	1656	1458	1221	994	1190
80°	1913	1849	1746	1527	1257	918	810
85°	2044	1976	1873	1641	1345	919	554
	270°	285°	300°	315°	330°	345°	0°
45°	1872	1572	1486	1486	1521	1546	1568
50°	1791	1476	1417	1448	1508	1545	1574
55°	1695	1372	1354	1420	1506	1556	1591
60°	1585	1275	1298	1402	1518	1581	1622
65°	1473	1175	1254	1402	1544	1620	1668
70°	1339	1077	1225	1418	1589	1676	1730
75°	1190	994	1221	1458	1656	1752	1811
80°	810	918	1257	1527	1746	1849	1913
85°	554	919	1345	1641	1873	1976	2044

Customer Encapsulite International Ltd.
 Luminaire Range Stick-Lite
 Luminaire catalog No. HFI 58W Stick-Lite
 Luminaire description Sealed tubular luminaire
 with integral T8 fluorescent lamp
 Single distribution test used for series
 Lamp description 58W T8 linear fluorescent
 Lamp lumen output 3730lm
 No. of lamps in luminaire 1

Non averaged Luminance Values (Cd/m²/klm)

Elevation(°)

Azimuth(°)

	0°	15°	30°	45°	60°	75°	90°
45°	1566	1546	1527	1499	1498	1588	1902
50°	1571	1545	1514	1460	1427	1493	1815
55°	1588	1556	1512	1430	1361	1381	1721
60°	1620	1581	1524	1414	1307	1290	1610
65°	1666	1621	1550	1415	1272	1191	1488
70°	1728	1677	1597	1427	1233	1093	1357
75°	1809	1753	1665	1465	1223	1006	1200
80°	1912	1851	1755	1534	1259	927	813
85°	2044	1980	1882	1646	1346	928	562
	90°	105°	120°	135°	150°	165°	180°
45°	1902	1582	1511	1498	1538	1554	1571
50°	1815	1494	1442	1463	1525	1554	1577
55°	1721	1389	1370	1435	1524	1565	1594
60°	1610	1290	1326	1419	1537	1590	1624
65°	1488	1189	1275	1423	1563	1629	1670
70°	1357	1085	1252	1441	1608	1686	1733
75°	1200	987	1243	1482	1676	1761	1813
80°	813	918	1287	1551	1766	1857	1914
85°	562	914	1373	1668	1892	1983	2044
	180°	195°	210°	225°	240°	255°	270°
45°	1571	1544	1507	1473	1466	1564	1841
50°	1577	1544	1495	1435	1396	1465	1767
55°	1594	1554	1491	1407	1336	1369	1669
60°	1624	1577	1500	1386	1275	1264	1559
65°	1670	1617	1526	1383	1231	1165	1459
70°	1733	1673	1569	1397	1200	1072	1322
75°	1813	1747	1632	1434	1198	1001	1181
80°	1914	1843	1723	1501	1226	923	807
85°	2044	1969	1848	1612	1314	922	546
	270°	285°	300°	315°	330°	345°	0°
45°	1841	1553	1470	1474	1513	1539	1566
50°	1767	1454	1404	1433	1498	1538	1571
55°	1669	1347	1347	1408	1498	1550	1588
60°	1559	1256	1286	1387	1510	1574	1620
65°	1459	1155	1239	1386	1536	1614	1666
70°	1322	1057	1216	1406	1582	1670	1728
75°	1181	982	1218	1451	1650	1746	1809
80°	807	905	1255	1520	1742	1845	1912
85°	546	913	1345	1637	1868	1973	2044

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Customer Encapsulite International Ltd.
Luminaire Range Stick-Lite
Luminaire catalog No. HFI 58W Stick-Lite
Luminaire description Sealed tubular luminaire
with integral T8 fluorescent lamp
Single distribution test used for series
Lamp description 58W T8 linear fluorescent
Lamp lumen output 3730lm
No. of lamps in luminaire 1

Maximum Non averaged Luminance Values (Cd/m²)

Elevation(°)

Maximum Azimuth Angle

45°	7096	90°
50°	6769	90°
55°	6418	90°
60°	6057	180°
65°	6230	180°
70°	6463	180°
75°	6762	180°
80°	7140	180°
85°	7626	0°

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Lamp lumen output 3730lm
No. of lamps in luminaire 1

VDT Luminance Information
BS EN 12464 / CIBSE LG7 / 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

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 Lamp description 58W T8 linear fluorescent
 Lamp lumen output 3730lm
 No. of lamps in luminaire 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

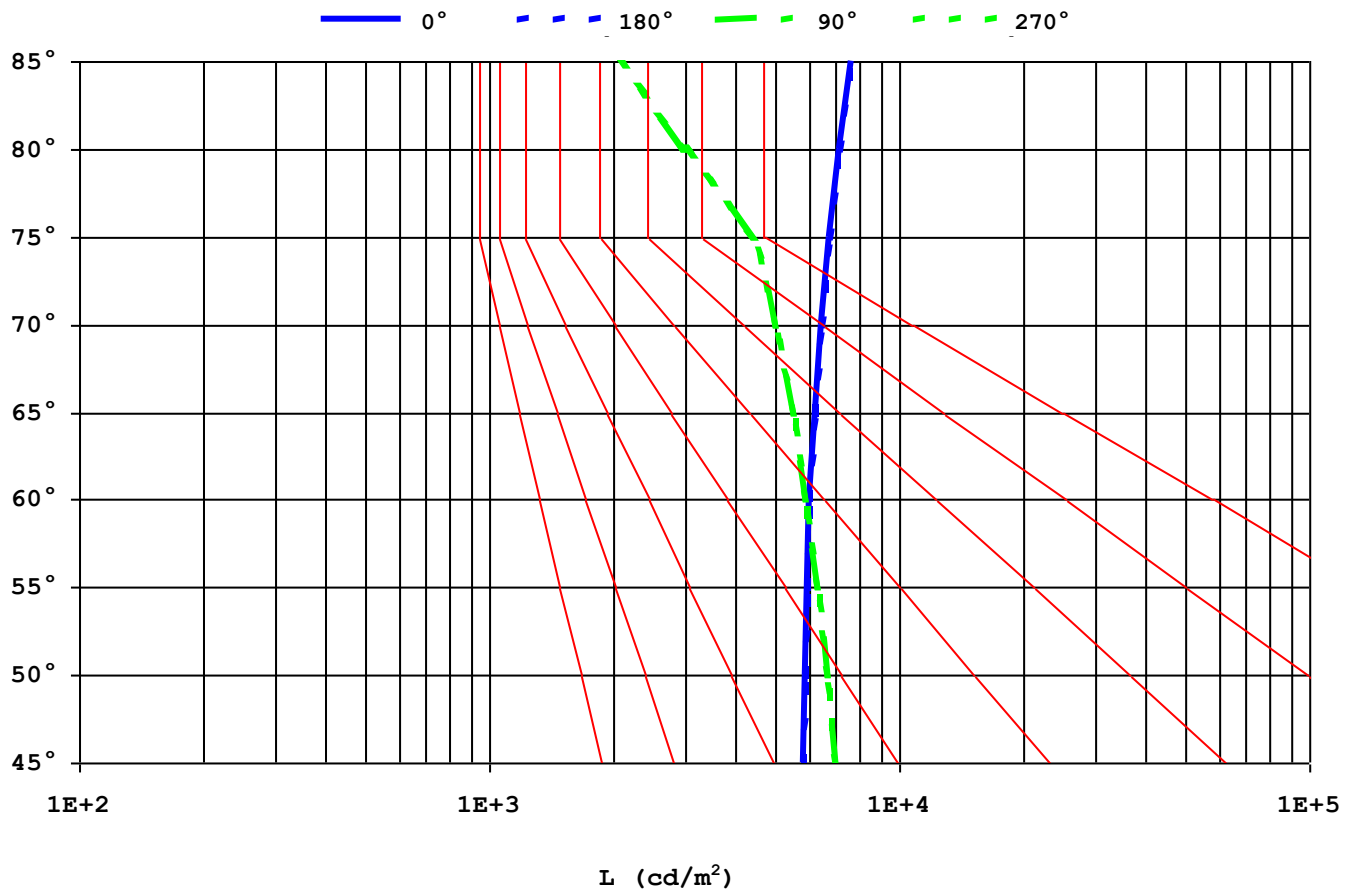
X Y	0°					90°				
2H 2H	9.9	11.2	11.1	12.3	13.9	5.9	7.1	7.0	8.3	9.9
3H	13.4	14.5	14.6	15.7	17.3	7.8	8.9	9.0	10.1	11.7
4H	15.1	16.2	16.3	17.4	19.0	8.5	9.5	9.6	10.8	12.3
6H	17.0	18.0	18.2	19.3	20.9	9.0	10.0	10.2	11.2	12.8
8H	18.0	19.0	19.2	20.2	21.8	9.1	10.1	10.3	11.3	12.9
12H	19.0	19.9	20.2	21.2	22.8	9.1	10.1	10.3	11.3	12.9
4H 2H	10.8	11.9	12.0	13.1	14.6	8.2	9.2	9.3	10.4	12.0
3H	14.6	15.6	15.8	16.8	18.4	10.3	11.3	11.5	12.5	14.1
4H	16.7	17.5	17.9	18.7	20.4	11.3	12.1	12.5	13.4	15.0
6H	18.7	19.5	19.9	20.8	22.4	11.9	12.7	13.2	14.0	15.6
8H	19.8	20.6	21.1	21.8	23.4	12.2	12.9	13.4	14.2	15.8
12H	21.0	21.7	22.3	22.9	24.6	12.4	13.1	13.6	14.3	16.0
8H 4H	17.3	18.0	18.5	19.3	20.9	13.6	14.4	14.9	15.6	17.2
6H	19.7	20.3	20.9	21.5	23.2	14.6	15.2	15.9	16.5	18.2
8H	21.1	21.6	22.3	22.9	24.6	15.1	15.7	16.4	17.0	18.6
12H	22.5	23.0	23.7	24.3	25.9	15.5	16.0	16.7	17.3	18.9
12H 4H	17.4	18.1	18.6	19.3	21.0	14.7	15.4	16.0	16.6	18.3
6H	20.0	20.5	21.2	21.8	23.5	16.0	16.6	17.3	17.8	19.5
8H	21.4	21.9	22.7	23.2	24.8	16.6	17.1	17.9	18.4	20.0

Calculated in accordance with CIBSE Technical Memorandum No. 10 1985

Customer Encapsulite International Ltd.
Luminaire Range Stick-Lite
Luminaire catalog No. HFI 58W Stick-Lite
Luminaire description Sealed tubular luminaire
with integral T8 fluorescent lamp
Single distribution test used for series
Lamp description 58W T8 linear fluorescent
Lamp lumen output 3730lm
No. of lamps in luminaire 1

CIE Glare Limiting (Soellnor) Diagram

Glare Rating	Quality Class	Service values of illuminance							
		a	b	c	d	e	f	g	h
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



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Customer	Encapsulite International Ltd.
Luminaire Range	Stick-Lite
Luminaire catalog No.	HFI 58W Stick-Lite
Luminaire description	Sealed tubular luminaire with integral T8 fluorescent lamp Single distribution test used for series
Lamp description	58W T8 linear fluorescent
Lamp lumen output	3730lm
No. of lamps in luminaire	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 Stick-Lite
Luminaire catalog No. HFI 58W Stick-Lite
Luminaire description Sealed tubular luminaire
with integral T8 fluorescent lamp
Single distribution test used for series
Lamp description 58W T8 linear fluorescent
Lamp lumen output 3730lm
No. of lamps in luminaire 1

Quick Design Table

Based on: reflectances of Ceiling = 0.5
Wall = 0.5
Floor = 0.2
Room Index = 2.00
lamp output = 3730 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	0.9	1.4	1.9	2.3	3.8	4.7	9.4	14.1	23.5