



**42 Partners Limited**

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

## Photometric Report

Job / Report / Date	42 / 9102 / 9102-15b / 2010.03.26
Customer	Encapsulite International Ltd.
Luminaire Range	Stick-Lite
Luminaire catalog No.	HFI 70W Stick-Lite
Luminaire description	Sealed tubular luminaire with integral T8 fluorescent lamp Single distribution test used for series Not tested - Data derived from test series
Lamp description	70W T8 linear fluorescent
Lamp lumen output	4710lm
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
- VDT Luminance table
- CIBSE TM10 Glare Index Results
- CIE Glare Limiting (Soellnor) Diagram
- Comments
- Quick Design Table

Job / Report / Date

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Customer

Encapsulite International Ltd.

Luminaire Range

Stick-Lite

Luminaire catalog No.

HFI 70W Stick-Lite

Luminaire description

Sealed tubular luminaire  
with integral T8 fluorescent lamp  
Single distribution test used for series  
Not tested - Data derived from test series

Lamp description

70W T8 linear fluorescent

Lamp lumen output

4710lm

No. of lamps in luminaire

1



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#### Luminaire physical characteristics

##### Overall Dimensions

Length	2046mm
Width	38mm
Height	38mm

##### Visible Dimensions when installed

Length	2046mm
Width	38mm
Height	38mm

##### Luminous Dimensions

Length	1737mm
Width	35mm
Height 0°	35mm
Height 90°	35mm
Height 180°	35mm
Height 270°	35mm

##### Luminous Areas

Base	0.060795m <sup>2</sup>
Sides	0.060795m <sup>2</sup> ( 0°/180° azimuth)
Ends	0.001225m <sup>2</sup> (90°/270° azimuth)

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Customer                                Encapsulite International Ltd.

Luminaire Range                        Stick-Lite

Luminaire catalog No.                 HFI 70W Stick-Lite

Luminaire description                 Sealed tubular luminaire  
with integral T8 fluorescent lamp  
Single distribution test used for series  
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Lamp description                       70W T8 linear fluorescent

Lamp lumen output                     4710lm

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	269.2mA	0.99PF	61.1W	61.9VA
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#### Lumen Output figures used in this report (lumens)

Measured Luminaire Output	4,708
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#### Measured luminous efficacy at 25°C

Luminaire	77.1 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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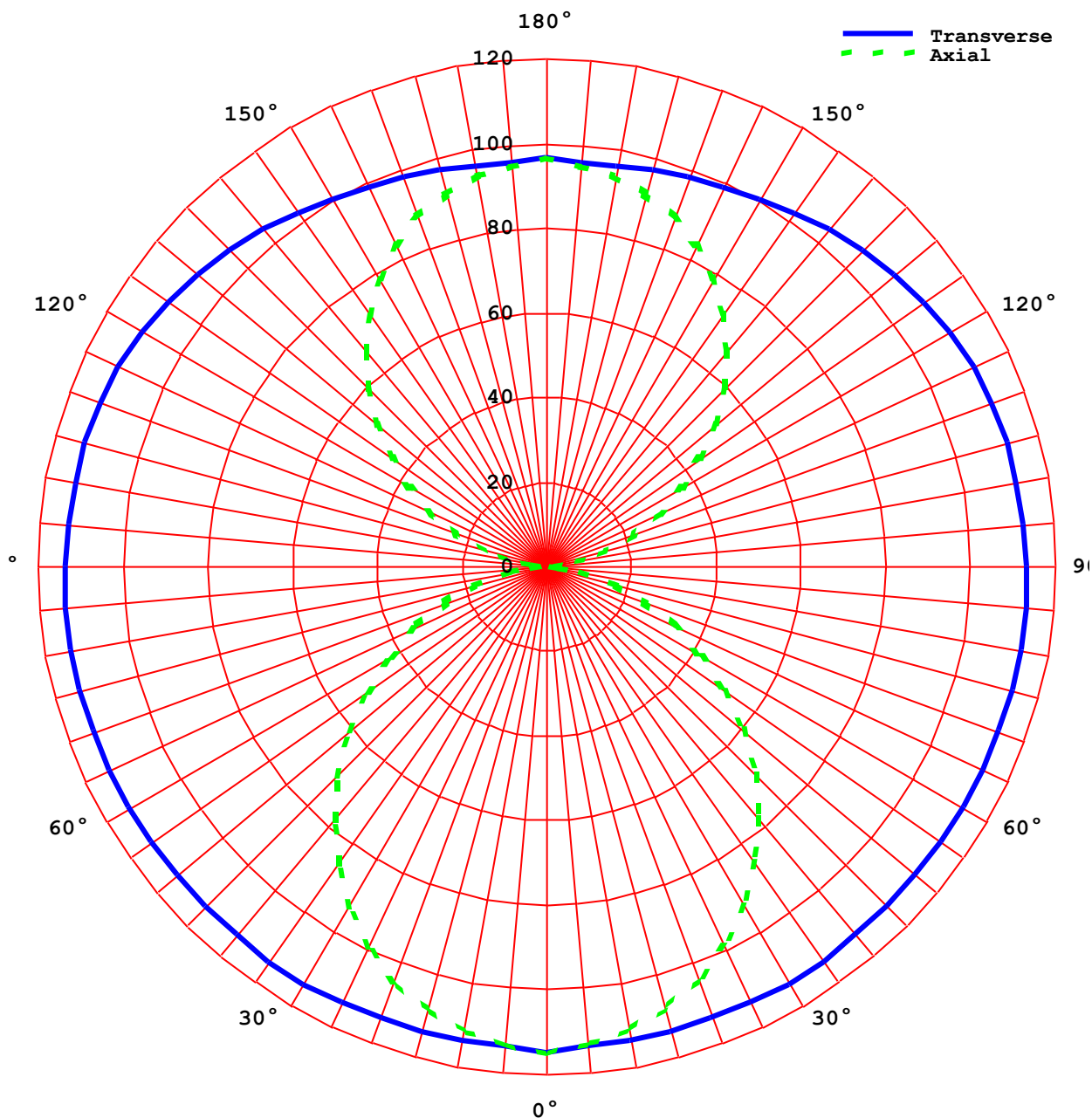
Lamp lumen output

4710lm

No. of lamps in luminaire

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Average Principal Axes Luminous Intensities (cd/klm)



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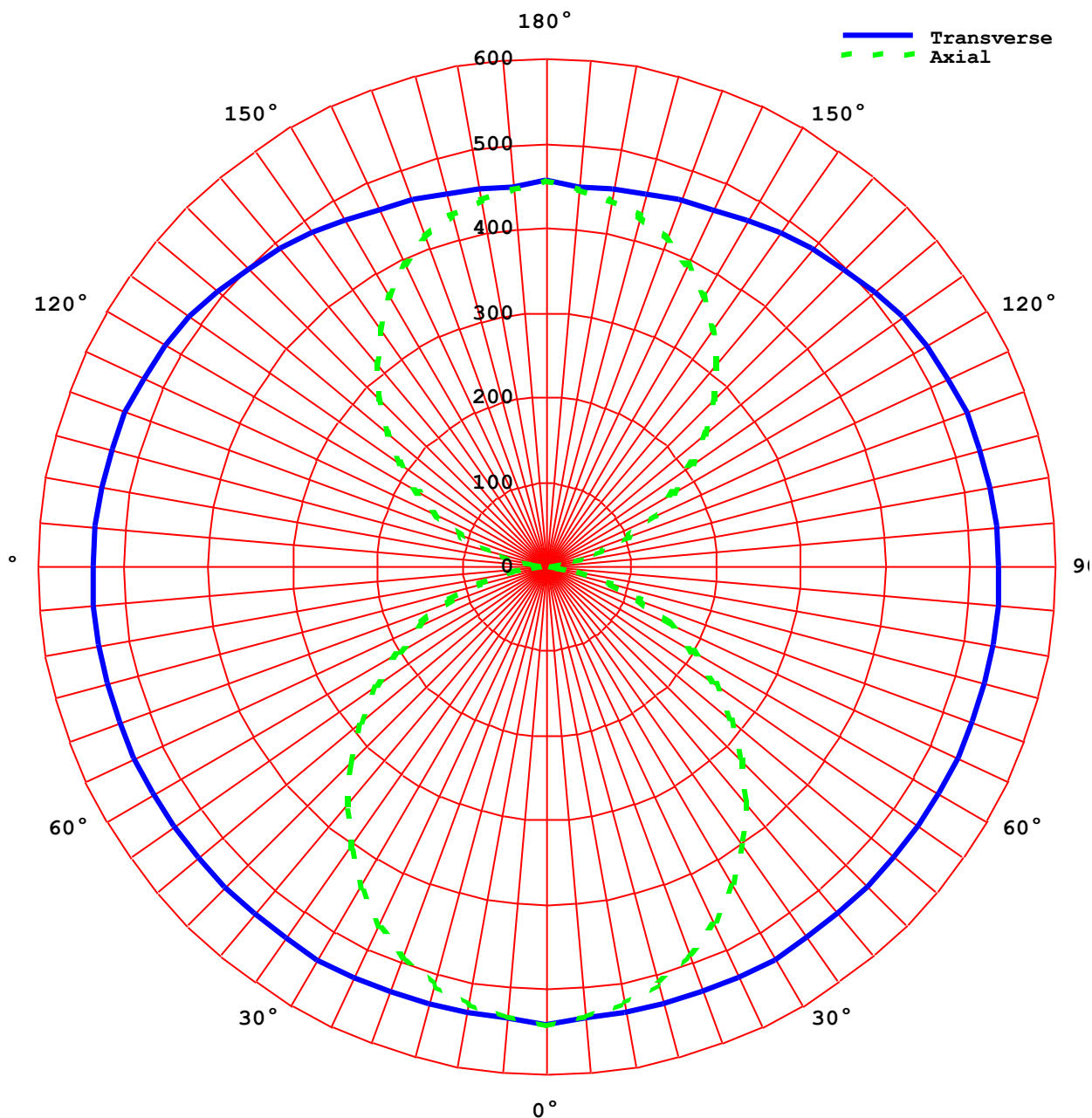
Lamp lumen output

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No. of lamps in luminaire

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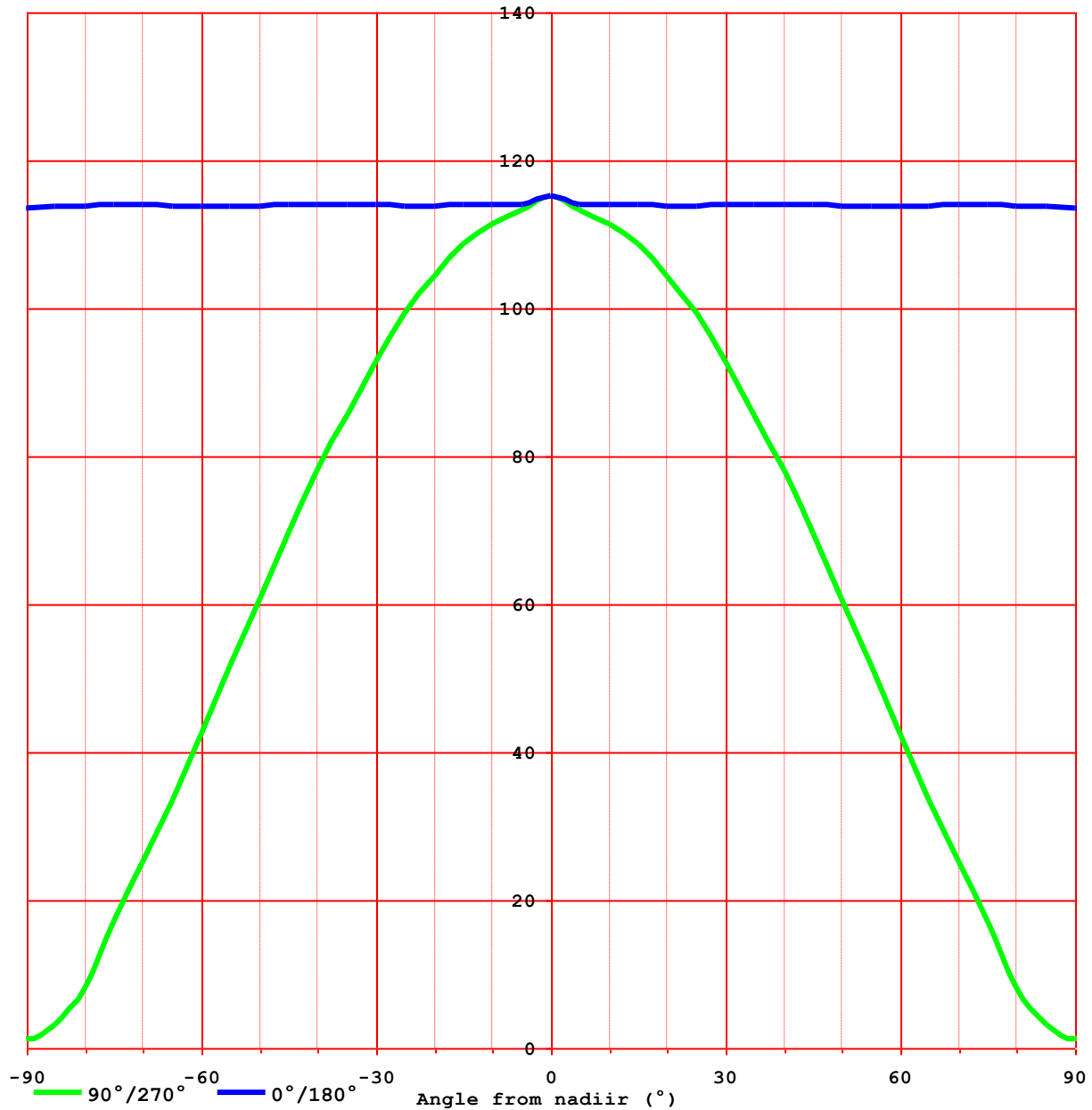
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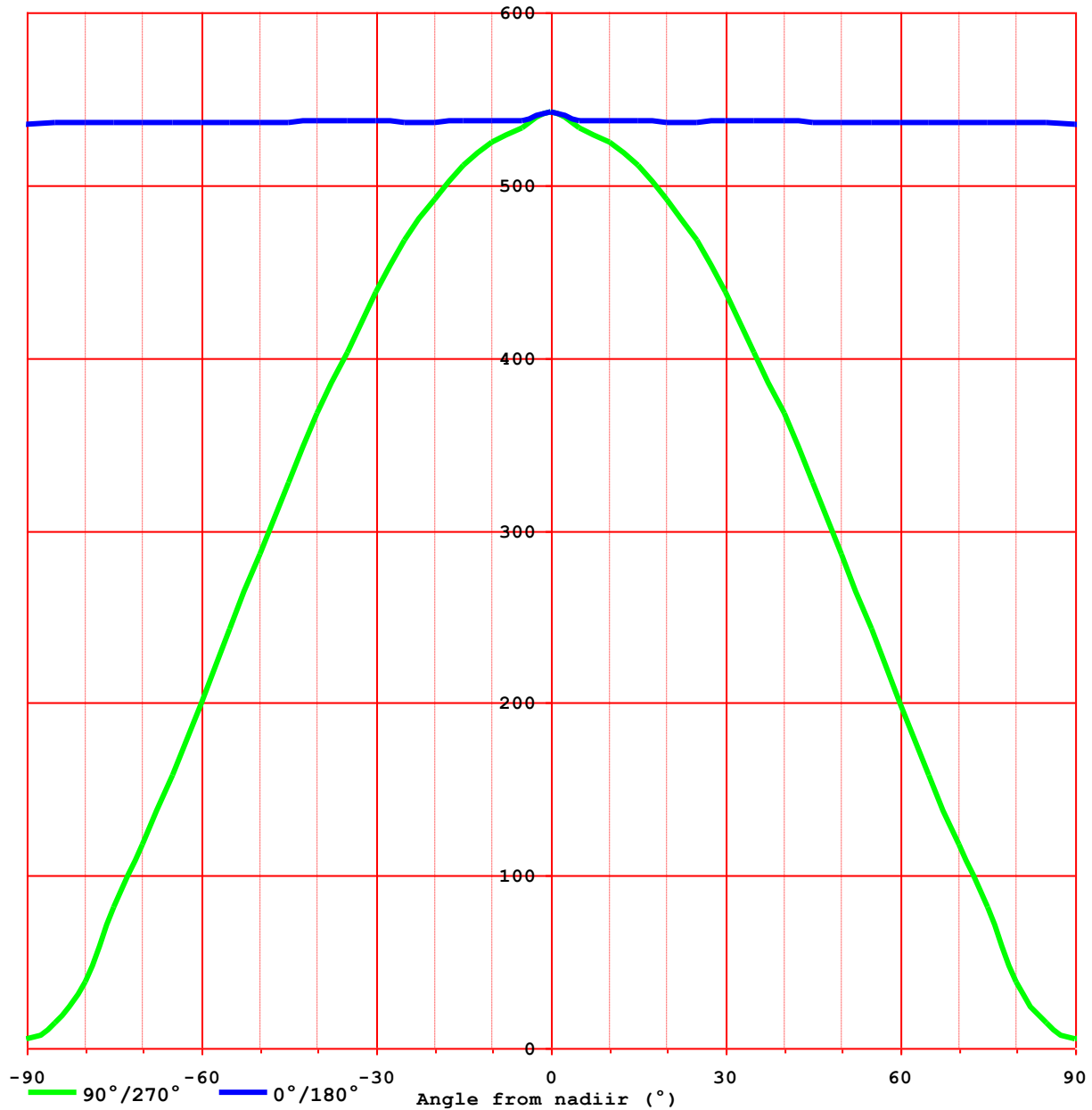
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## Average Principal Axes Luminous Intensities (cd)



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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 lumen output

4710lm

No. of lamps in luminaire

1

Average Luminous Intensities (cd)

Angle	Transverse plane	Axial plane
0°	542.07	542.07
5°	536.63	533.35
10°	536.75	524.86
15°	536.65	511.35
20°	536.25	491.74
25°	535.92	467.88
30°	537.26	437.43
35°	537.09	403.21
40°	536.75	367.25
45°	536.41	327.74
50°	536.24	286.32
55°	535.92	243.10
60°	535.76	199.56
65°	536.06	158.28
70°	536.34	118.03
75°	536.39	81.13
80°	536.02	38.61
85°	535.56	14.87
90°	535.02	5.16
95°	533.15	16.73
100°	531.11	42.65
105°	529.39	70.58
110°	527.17	104.22
115°	523.89	139.60
120°	519.24	173.94
125°	512.98	209.70
130°	505.77	244.65
135°	497.23	280.49
140°	489.12	311.45
145°	480.58	342.00
150°	472.79	368.52
155°	464.38	393.85
160°	459.50	413.28
165°	455.68	429.19
170°	452.10	440.00
175°	450.00	447.13
180°	455.05	455.05

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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	/	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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Lamp description

70W T8 linear fluorescent

Lamp lumen output

4710lm

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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## 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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 Lamp lumen output 4710lm  
 No. of lamps in luminaire 1

Averaged Luminance Values (Cd/m<sup>2</sup>)

Elevation(°)

Azimuth(°)

	0°	15°	30°	45°	60°	75°	90°
45°	6239	6152	6058	5920	5925	6269	7473
50°	6261	6150	6004	5769	5650	5892	7155
55°	6329	6194	5999	5658	5399	5476	6777
60°	6451	6291	6045	5587	5179	5093	6344
65°	6635	6449	6149	5589	5005	4697	5905
70°	6883	6673	6329	5653	4891	4307	5379
75°	7204	6974	6598	5816	4876	3981	4795
80°	7611	7362	6960	6090	5023	3682	3282
85°	8131	7869	7464	6547	5377	3693	2280
	90°	105°	120°	135°	150°	165°	180°
45°	7473	6269	5925	5920	6058	6152	6239
50°	7155	5892	5650	5769	6004	6150	6261
55°	6777	5476	5399	5658	5999	6194	6329
60°	6344	5093	5179	5587	6045	6291	6451
65°	5905	4697	5005	5589	6149	6449	6635
70°	5379	4307	4891	5653	6329	6673	6883
75°	4795	3981	4876	5816	6598	6974	7204
80°	3282	3682	5023	6090	6960	7362	7611
85°	2280	3693	5377	6547	7464	7869	8131
	180°	195°	210°	225°	240°	255°	270°
45°	6239	6152	6058	5920	5925	6269	7473
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70°	6883	6673	6329	5653	4891	4307	5379
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80°	7611	7362	6960	6090	5023	3682	3282
85°	8131	7869	7464	6547	5377	3693	2280
	270°	285°	300°	315°	330°	345°	0°
45°	7473	6269	5925	5920	6058	6152	6239
50°	7155	5892	5650	5769	6004	6150	6261
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Elevation(°)	Azimuth(°)						
	0°	15°	30°	45°	60°	75°	90°
45°	6228	6152	6082	5972	5973	6334	7595
50°	6249	6149	6027	5816	5689	5957	7249
55°	6319	6194	6021	5700	5429	5515	6879
60°	6443	6293	6070	5637	5212	5153	6446
65°	6626	6450	6175	5642	5076	4761	5965
70°	6874	6676	6361	5691	4921	4370	5448
75°	7197	6980	6635	5844	4885	4030	4834
80°	7607	7371	6995	6121	5031	3716	3296
85°	8132	7884	7502	6568	5383	3728	2314
	90°	105°	120°	135°	150°	165°	180°
45°	7595	6310	6023	5968	6122	6186	6250
50°	7249	5960	5749	5830	6071	6185	6273
55°	6879	5547	5463	5718	6070	6230	6340
60°	6446	5152	5289	5657	6122	6327	6459
65°	5965	4754	5090	5673	6225	6485	6644
70°	5448	4342	4998	5747	6404	6710	6893
75°	4834	3953	4966	5910	6679	7011	7211
80°	3296	3682	5143	6188	7037	7394	7615
85°	2314	3672	5491	6656	7541	7897	8131
	180°	195°	210°	225°	240°	255°	270°
45°	6250	6144	6002	5869	5843	6238	7352
50°	6273	6144	5952	5718	5567	5847	7060
55°	6340	6185	5937	5606	5328	5466	6674
60°	6459	6277	5975	5526	5086	5050	6241
65°	6644	6435	6078	5515	4911	4657	5846
70°	6893	6658	6249	5569	4791	4289	5309
75°	7211	6953	6503	5721	4787	4010	4756
80°	7615	7338	6866	5989	4901	3701	3269
85°	8131	7841	7365	6434	5255	3705	2247
	270°	285°	300°	315°	330°	345°	0°
45°	7352	6195	5862	5871	6026	6127	6228
50°	7060	5801	5596	5710	5967	6122	6249
55°	6674	5376	5374	5609	5967	6169	6319
60°	6241	5017	5130	5530	6013	6267	6443
65°	5846	4615	4946	5527	6120	6424	6626
70°	5309	4227	4855	5605	6302	6649	6874
75°	4756	3931	4866	5787	6575	6952	7197
80°	3269	3627	5016	6062	6940	7343	7607
85°	2247	3665	5380	6532	7446	7856	8132



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Azimuth(°)

	0°	15°	30°	45°	60°	75°	90°
45°	1325	1306	1286	1257	1258	1331	1587
50°	1329	1306	1275	1225	1200	1251	1519
55°	1344	1315	1274	1201	1146	1163	1439
60°	1370	1336	1283	1186	1100	1081	1347
65°	1409	1369	1306	1187	1063	997	1254
70°	1461	1417	1344	1200	1038	914	1142
75°	1529	1481	1401	1235	1035	845	1018
80°	1616	1563	1478	1293	1066	782	697
85°	1726	1671	1585	1390	1142	784	484
	90°	105°	120°	135°	150°	165°	180°
45°	1587	1331	1258	1257	1286	1306	1325
50°	1519	1251	1200	1225	1275	1306	1329
55°	1439	1163	1146	1201	1274	1315	1344
60°	1347	1081	1100	1186	1283	1336	1370
65°	1254	997	1063	1187	1306	1369	1409
70°	1142	914	1038	1200	1344	1417	1461
75°	1018	845	1035	1235	1401	1481	1529
80°	697	782	1066	1293	1478	1563	1616
85°	484	784	1142	1390	1585	1671	1726
	180°	195°	210°	225°	240°	255°	270°
45°	1325	1306	1286	1257	1258	1331	1587
50°	1329	1306	1275	1225	1200	1251	1519
55°	1344	1315	1274	1201	1146	1163	1439
60°	1370	1336	1283	1186	1100	1081	1347
65°	1409	1369	1306	1187	1063	997	1254
70°	1461	1417	1344	1200	1038	914	1142
75°	1529	1481	1401	1235	1035	845	1018
80°	1616	1563	1478	1293	1066	782	697
85°	1726	1671	1585	1390	1142	784	484
	270°	285°	300°	315°	330°	345°	0°
45°	1587	1331	1258	1257	1286	1306	1325
50°	1519	1251	1200	1225	1275	1306	1329
55°	1439	1163	1146	1201	1274	1315	1344
60°	1347	1081	1100	1186	1283	1336	1370
65°	1254	997	1063	1187	1306	1369	1409
70°	1142	914	1038	1200	1344	1417	1461
75°	1018	845	1035	1235	1401	1481	1529
80°	697	782	1066	1293	1478	1563	1616
85°	484	784	1142	1390	1585	1671	1726

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Customer

Encapsulite International Ltd.

Luminaire Range

Stick-Lite

Luminaire catalog No.

HFI 70W Stick-Lite

Luminaire description

Sealed tubular luminaire  
 with integral T8 fluorescent lamp  
 Single distribution test used for series  
 Not tested - Data derived from test series

Lamp description

70W T8 linear fluorescent

Lamp lumen output

4710lm

No. of lamps in luminaire

1

Non averaged Luminance Values (Cd/m<sup>2</sup>/klm)

Elevation(°)

Azimuth(°)

	0°	15°	30°	45°	60°	75°	90°
45°	1322	1306	1291	1268	1268	1345	1613
50°	1327	1305	1280	1235	1208	1265	1539
55°	1342	1315	1278	1210	1153	1171	1461
60°	1368	1336	1289	1197	1107	1094	1369
65°	1407	1370	1311	1198	1078	1011	1266
70°	1459	1417	1351	1208	1045	928	1157
75°	1528	1482	1409	1241	1037	856	1026
80°	1615	1565	1485	1300	1068	789	700
85°	1727	1674	1593	1394	1143	792	491
	90°	105°	120°	135°	150°	165°	180°
45°	1613	1340	1279	1267	1300	1313	1327
50°	1539	1265	1221	1238	1289	1313	1332
55°	1461	1178	1160	1214	1289	1323	1346
60°	1369	1094	1123	1201	1300	1343	1371
65°	1266	1009	1081	1205	1322	1377	1411
70°	1157	922	1061	1220	1360	1425	1463
75°	1026	839	1054	1255	1418	1489	1531
80°	700	782	1092	1314	1494	1570	1617
85°	491	780	1166	1413	1601	1677	1726
	180°	195°	210°	225°	240°	255°	270°
45°	1327	1305	1274	1246	1241	1324	1561
50°	1332	1304	1264	1214	1182	1241	1499
55°	1346	1313	1261	1190	1131	1161	1417
60°	1371	1333	1269	1173	1080	1072	1325
65°	1411	1366	1290	1171	1043	989	1241
70°	1463	1414	1327	1182	1017	911	1127
75°	1531	1476	1381	1215	1016	851	1010
80°	1617	1558	1458	1272	1041	786	694
85°	1726	1665	1564	1366	1116	787	477
	270°	285°	300°	315°	330°	345°	0°
45°	1561	1315	1245	1246	1279	1301	1322
50°	1499	1232	1188	1212	1267	1300	1327
55°	1417	1141	1141	1191	1267	1310	1342
60°	1325	1065	1089	1174	1277	1331	1368
65°	1241	980	1050	1173	1299	1364	1407
70°	1127	898	1031	1190	1338	1412	1459
75°	1010	835	1033	1229	1396	1476	1528
80°	694	770	1065	1287	1474	1559	1615
85°	477	778	1142	1387	1581	1668	1727

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Customer Encapsulite International Ltd.  
Luminaire Range Stick-Lite  
Luminaire catalog No. HFI 70W Stick-Lite  
Luminaire description Sealed tubular luminaire  
with integral T8 fluorescent lamp  
Single distribution test used for series  
Not tested - Data derived from test series  
Lamp description 70W T8 linear fluorescent  
Lamp lumen output 4710lm  
No. of lamps in luminaire 1

Maximum Non averaged Luminance Values (Cd/m<sup>2</sup>)

Elevation(°)

-----		
	Maximum	Azimuth Angle
-----		
45°	7595	90°
50°	7249	90°
55°	6879	90°
60°	6459	180°
65°	6644	180°
70°	6893	180°
75°	7211	180°
80°	7615	180°
85°	8132	0°

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Lamp description 70W T8 linear fluorescent  
Lamp lumen output 4710lm  
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 <sup>2</sup> )	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

Customer Encapsulite International Ltd.  
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 Not tested - Data derived from test series  
 Lamp description 70W T8 linear fluorescent  
 Lamp lumen output 4710lm  
 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

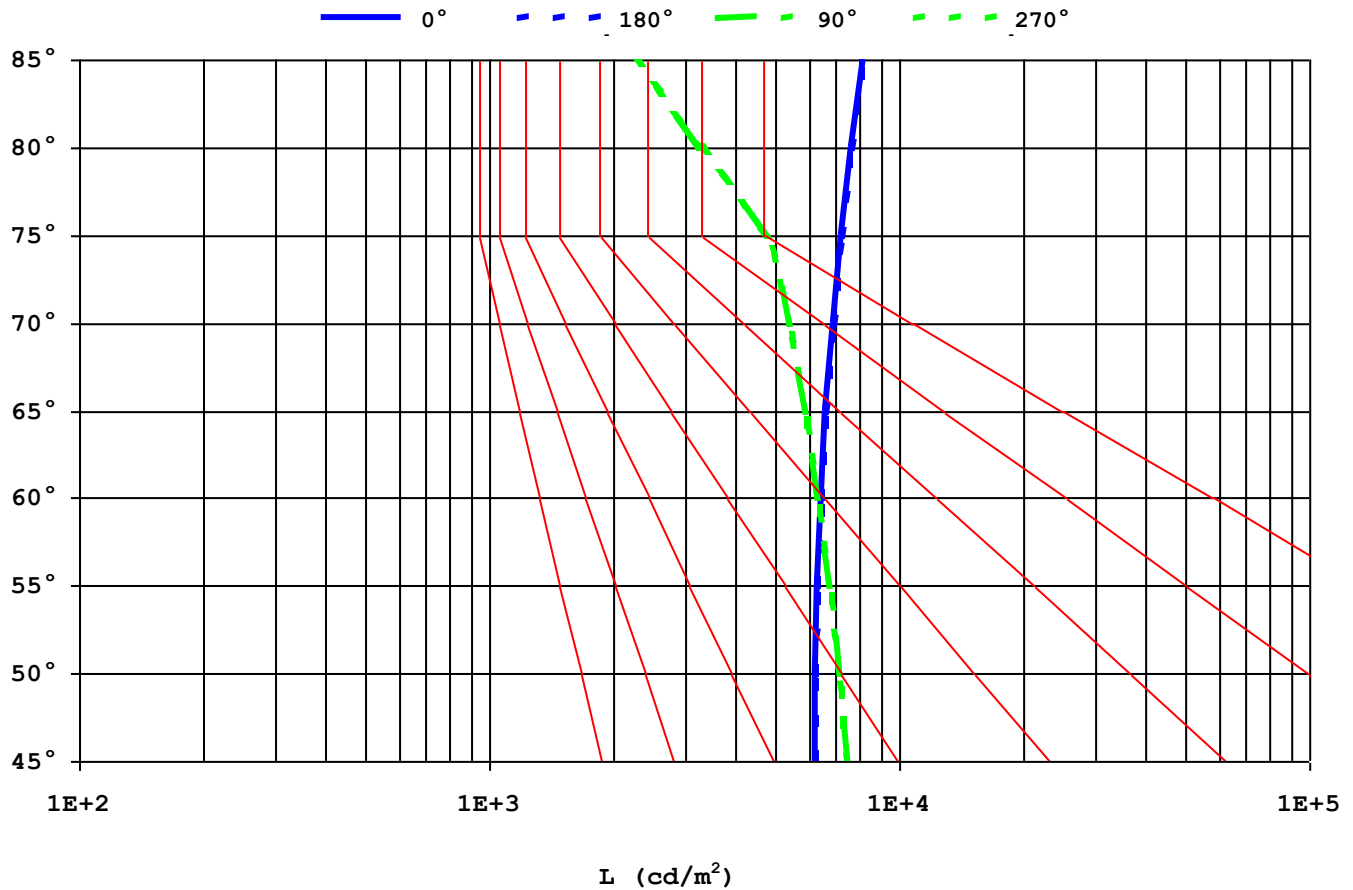
Room dimension		Viewed crosswise					Viewed endwise				
X Y		0°					90°				
2H	2H	9.3	10.6	10.5	11.8	13.3	5.3	6.5	6.5	7.7	9.3
	3H	12.8	13.9	14.0	15.2	16.7	7.2	8.3	8.4	9.5	11.1
	4H	14.6	15.6	15.7	16.8	18.4	7.9	9.0	9.1	10.2	11.7
	6H	16.5	17.5	17.6	18.7	20.3	8.4	9.4	9.6	10.6	12.2
	8H	17.4	18.4	18.6	19.6	21.2	8.5	9.5	9.7	10.7	12.3
	12H	18.4	19.4	19.6	20.6	22.2	8.5	9.5	9.7	10.7	12.3
4H	2H	10.2	11.3	11.4	12.5	14.1	7.6	8.6	8.7	9.9	11.4
	3H	14.0	15.0	15.2	16.2	17.8	9.7	10.7	10.9	11.9	13.5
	4H	16.1	16.9	17.3	18.2	19.8	10.7	11.6	11.9	12.8	14.4
	6H	18.1	18.9	19.4	20.2	21.8	11.4	12.1	12.6	13.4	15.0
	8H	19.3	20.0	20.5	21.2	22.9	11.6	12.3	12.9	13.6	15.2
	12H	20.4	21.1	21.7	22.4	24.0	11.8	12.5	13.0	13.7	15.4
8H	4H	16.7	17.4	17.9	18.7	20.3	13.0	13.8	14.3	15.0	16.7
	6H	19.1	19.7	20.3	21.0	22.6	14.0	14.7	15.3	15.9	17.6
	8H	20.5	21.0	21.7	22.3	24.0	14.6	15.1	15.8	16.4	18.1
	12H	21.9	22.4	23.2	23.7	25.3	14.9	15.4	16.2	16.7	18.3
12H	4H	16.8	17.5	18.0	18.7	20.4	14.1	14.8	15.4	16.1	17.7
	6H	19.4	19.9	20.6	21.2	22.9	15.4	16.0	16.7	17.3	18.9
	8H	20.8	21.3	22.1	22.6	24.3	16.0	16.5	17.3	17.8	19.5

Calculated in accordance with CIBSE Technical Memorandum No. 10 1985

Customer	Encapsulite International Ltd.
Luminaire Range	Stick-Lite
Luminaire catalog No.	HFI 70W Stick-Lite
Luminaire description	Sealed tubular luminaire with integral T8 fluorescent lamp Single distribution test used for series Not tested - Data derived from test series
Lamp description	70W T8 linear fluorescent
Lamp lumen output	4710lm
No. of lamps in luminaire	1

### CIE Glare Limiting (Soellnor) Diagram

Glare Quality		Service values of illuminance							
Rating	Class								
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	Stick-Lite
Luminaire catalog No.	HFI 70W Stick-Lite
Luminaire description	Sealed tubular luminaire with integral T8 fluorescent lamp Single distribution test used for series Not tested - Data derived from test series
Lamp description	70W T8 linear fluorescent
Lamp lumen output	4710lm
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 70W Stick-Lite  
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with integral T8 fluorescent lamp  
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Not tested - Data derived from test series  
Lamp description 70W T8 linear fluorescent  
Lamp lumen output 4710lm  
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 = 4710 lumens  
ballast lumen factor = 1.00

To achieve an Illuminance of 100 lux

Surface Area (m <sup>2</sup> )	20	30	40	50	80	100	200	300	500
No. of luminaires	0.7	1.1	1.5	1.9	3.0	3.7	7.4	11.2	18.6