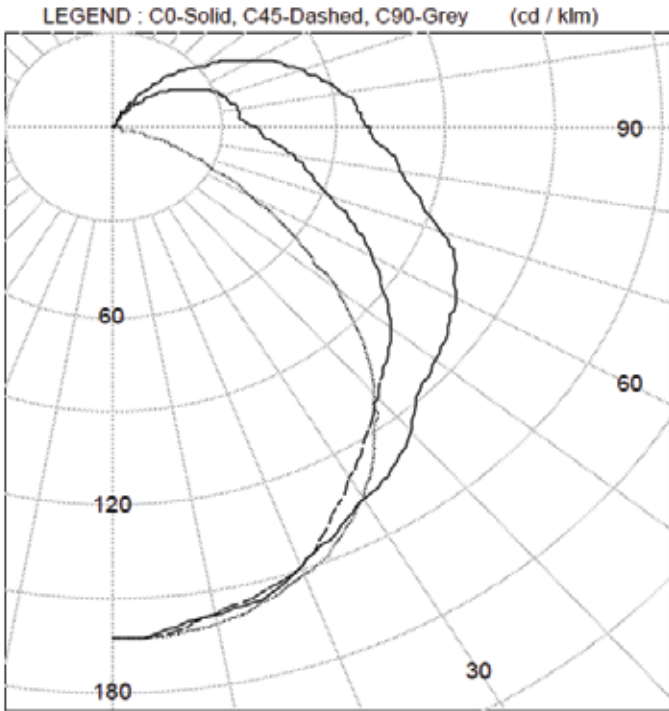
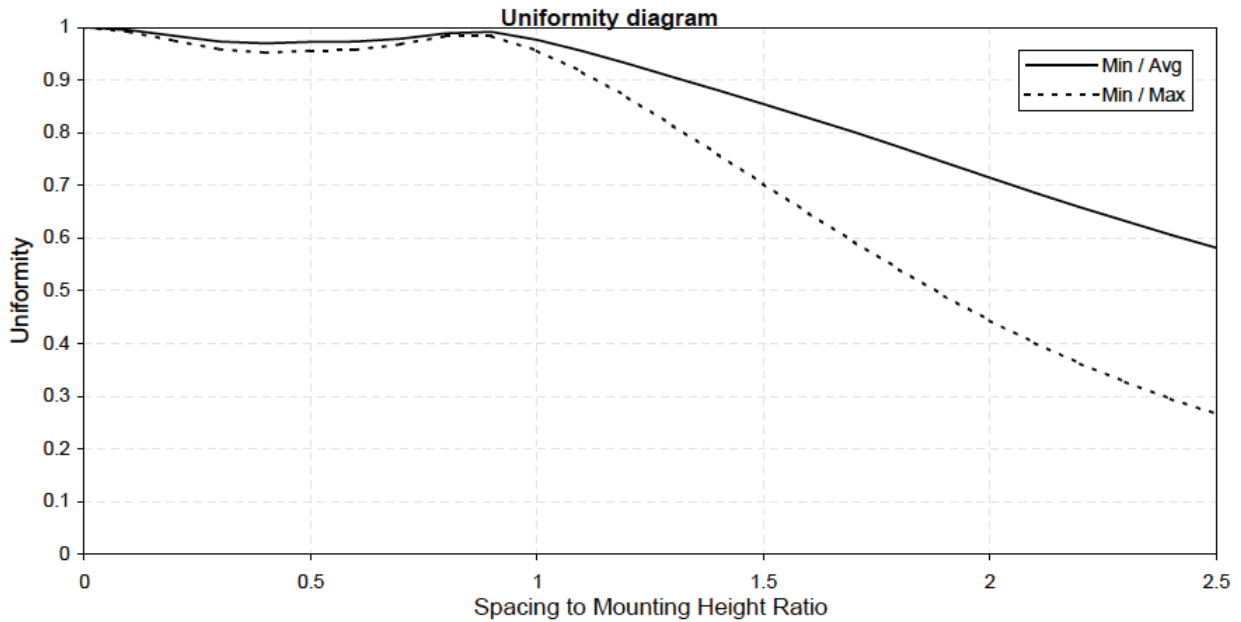


## Photometric Datasheet



INTENSITY SUMMARY (cd / klm)

Gamma	C-Plane					Output Lumens
	C0	C22.5	C45	C67.5	C90	
0.0	163	163	163	163	163	
5.0	161	161	162	163	162	15
10.0	157	157	157	159	160	
15.0	156	155	154	154	157	44
20.0	149	149	149	148	152	
25.0	142	141	139	141	145	65
30.0	137	134	129	131	136	
35.0	132	129	120	117	124	77
40.0	126	124	112	103	111	
45.0	118	116	105	90	96	81
50.0	114	109	99	78	78	
55.0	111	105	90	67	59	78
60.0	107	99	81	57	44	
65.0	103	94	72	47	30	69
70.0	95	86	62	37	19	
75.0	86	78	55	27	10	55
80.0	79	72	50	18	4	
85.0	74	67	43	12	1	44
90.0	69	62	39	10	0	



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## Photometric Datasheet

### Utilization factors UF(F)

SHR NOM = 1.50											
Room Reflectance			Room Index								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.34	0.39	0.43	0.46	0.51	0.54	0.56	0.60	0.62
	0.30		0.28	0.33	0.38	0.41	0.46	0.50	0.53	0.58	0.59
	0.10		0.25	0.30	0.34	0.38	0.43	0.47	0.49	0.53	0.56
0.50	0.50	0.20	0.31	0.36	0.40	0.43	0.47	0.50	0.52	0.54	0.56
	0.30		0.27	0.31	0.36	0.39	0.43	0.46	0.49	0.52	0.54
	0.10		0.24	0.28	0.32	0.35	0.40	0.43	0.46	0.50	0.52
0.30	0.50	0.20	0.29	0.33	0.37	0.39	0.43	0.45	0.47	0.50	0.51
	0.30		0.27	0.29	0.33	0.36	0.40	0.43	0.45	0.48	0.50
	0.10		0.24	0.26	0.30	0.33	0.37	0.40	0.43	0.46	0.48
0.00	0.00	0.00	0.20	0.23	0.27	0.29	0.33	0.35	0.37	0.40	0.42

Rating : Photometrically tested without ceiling board.

Multiply values by service correction factors.

Calculated in accordance with CIBS Technical Memorandum No. 5 1980 using the fine grid method.

Luminaire discretisation employed. Ceiling/Wall/Floor reflectances not used in calculations.

### INTENSITY DATA (cd / klm)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	163	163	163	163	163
2.5	163	163	163	163	163
5.0	161	161	162	163	162
7.5	159	159	160	161	162
10.0	157	157	157	159	160
12.5	157	156	155	157	159
15.0	156	155	154	154	157
17.5	153	153	152	151	154
20.0	149	149	149	148	152
22.5	145	145	144	145	148
25.0	142	141	139	141	145
27.5	139	138	134	137	140
30.0	137	134	129	131	136
32.5	134	131	124	124	130
35.0	132	129	120	117	124
37.5	129	126	116	110	117
40.0	126	124	112	103	111
42.5	121	120	108	96	104
45.0	118	116	105	90	96
47.5	116	112	102	84	88
50.0	114	109	99	78	78
52.5	113	107	94	73	69
55.0	111	105	90	67	59
57.5	109	102	85	62	51
60.0	107	99	81	57	44
62.5	104	96	77	52	36
65.0	103	94	72	47	30
67.5	100	90	67	41	24
70.0	95	86	62	37	19
72.5	90	81	58	32	14
75.0	86	78	55	27	10
77.5	82	75	52	22	7
80.0	79	72	50	18	4
82.5	77	70	46	15	2
85.0	74	67	43	12	1
87.5	71	64	40	10	0
90.0	69	62	39	10	0

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## Photometric Datasheet

INTENSITY DATA (cd / klm)					
Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	69	62	39	10	0
92.5	68	60	37	10	0
95.0	67	59	35	10	0
97.5	66	57	34	10	0
100.0	64	56	34	10	0
102.5	61	53	34	11	0
105.0	59	51	33	11	0
107.5	57	50	32	11	0
110.0	55	48	31	11	0
112.5	52	46	30	11	0
115.0	50	44	29	11	0
117.5	46	41	27	11	0
120.0	43	38	25	10	0
122.5	40	36	23	9	0
125.0	38	33	22	9	0
127.5	34	30	20	8	0
130.0	31	28	19	7	0
132.5	28	25	17	6	0
135.0	26	23	15	5	0
137.5	23	20	13	4	0
140.0	20	18	12	4	0
142.5	17	15	10	3	0
145.0	15	13	9	3	0
147.5	12	11	7	2	0
150.0	10	9	6	2	0
152.5	9	8	5	2	0
155.0	7	6	4	1	0
157.5	6	5	3	1	0
160.0	4	4	2	1	0
162.5	4	3	2	1	0
165.0	3	2	1	1	0
167.5	2	2	1	1	0
170.0	1	1	1	0	0
172.5	1	1	1	0	0
175.0	1	1	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0

### ZONAL LUMENS AND PERCENTAGES

Zone	Lumens	% Lamp	% Luminaire
0-30	124	12.4	18.7
0-40	201	20.1	30.4
0-60	360	36.0	54.3
0-90	528	52.8	79.7
40-90	326	32.6	49.3
60-90	168	16.8	25.4
90-180	134	13.4	20.3
0-180	662	66.2	100.0

### AVERAGE LUMINANCE (cd / sq.m / klm)

Gamma	C0	C45	C90
45.0	793	771	974
55.0	796	723	727
65.0	817	659	480
75.0	795	603	246
85.0	843	609	53

Light Output Ratio = 66.2 %

SHR-NOM = 1.50  
SHR-MAX = 1.70

Calculated using the TM5  
fine grid method.

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