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Report No.: 1 Test Time: 30.01.2020 14:48

Luminaire Property

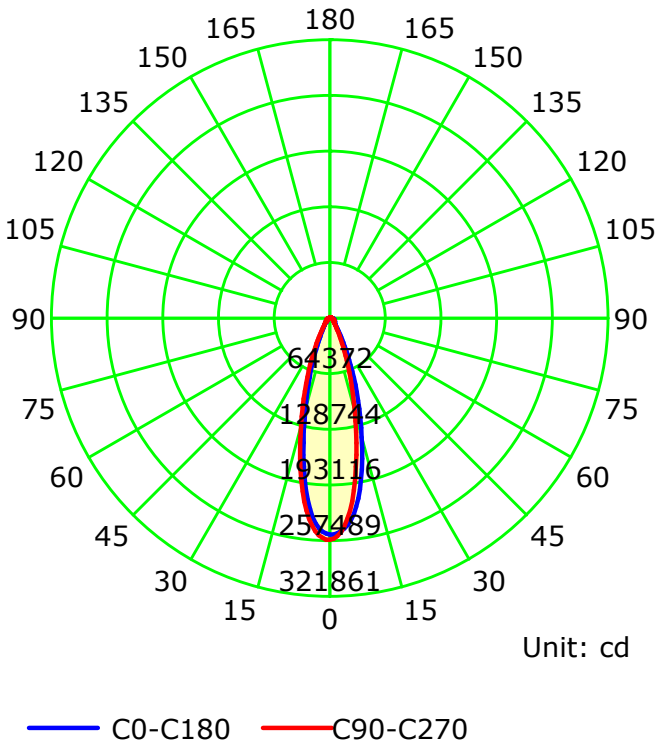
Luminaire Manufacturer:
Luminaire Description: FG 100 DALI 36LED 800W 5000K 30gr.
Luminous Length (mm): 455 mm Luminous Width (mm): 345 mm
Luminous Height (mm): 695 mm Voltage: 220.7 V
Current: 3.924 A Power: 802.03 W
Power Factor: 0.989

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 115080.4 lm
Measurement Flux: 115080.4 lm Efficiency: 100%
Downward Ratio: 95% Upward Ratio: 5%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 58.9, 58.3, 61.7, 62.1
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 30.4, 28.7, 30.7, 30.8
Luminaire Efficacy Rating (LER): 143.54 Central Intensity: 250282.7 cd
Max. Intensity: 257489.33 cd Pos of Max. Intensity: H315 V1
S/MH(C0/C180): 0.50 S/MH(C90/C270): 0.48

Picture Of Luminaire

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5 Gamma Plane (°):0.0-180.0:1.0
Test Lab: Test Device: LSG-1800B
Test Type: TYPE C Distance: 12.677 m
Temperature: Humidity:
Operator: Inspector:

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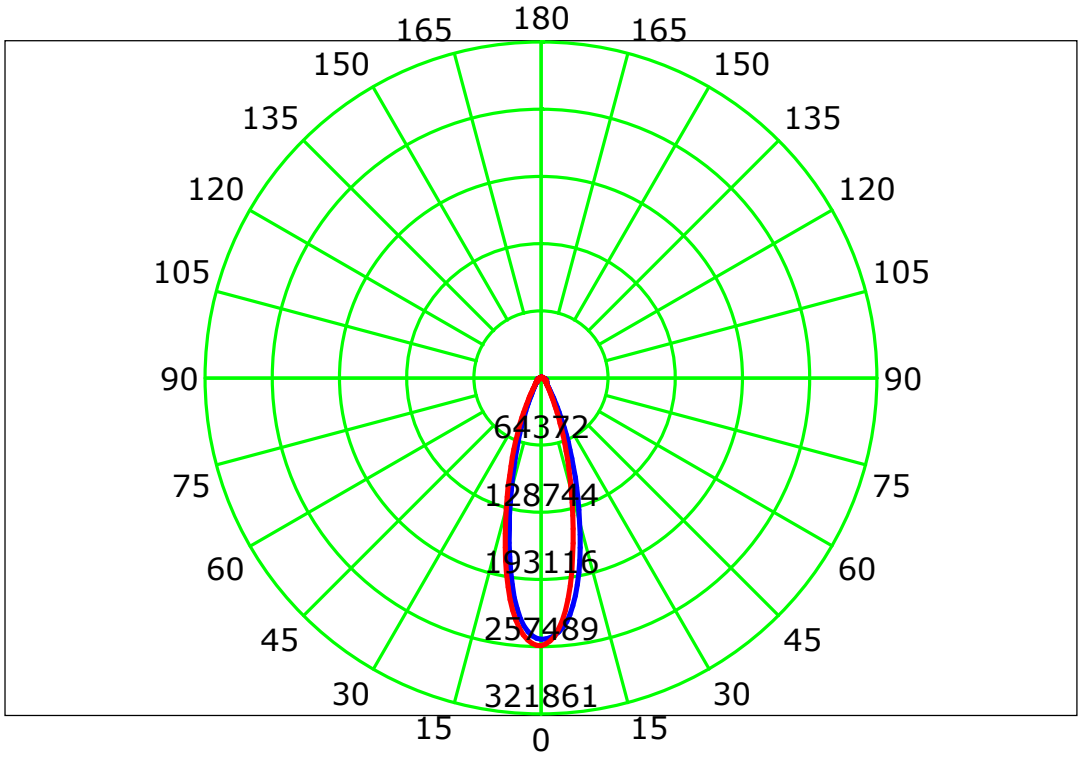
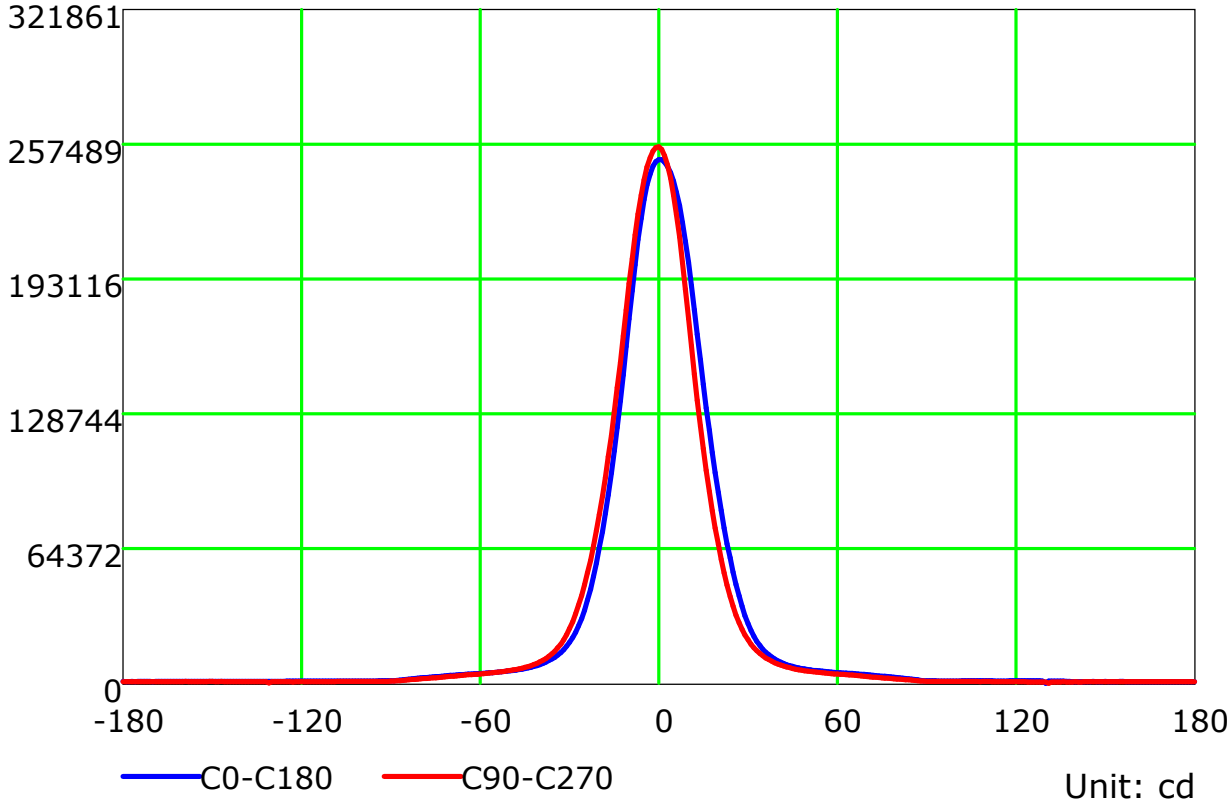
Luminous Intensity Distribution Curve





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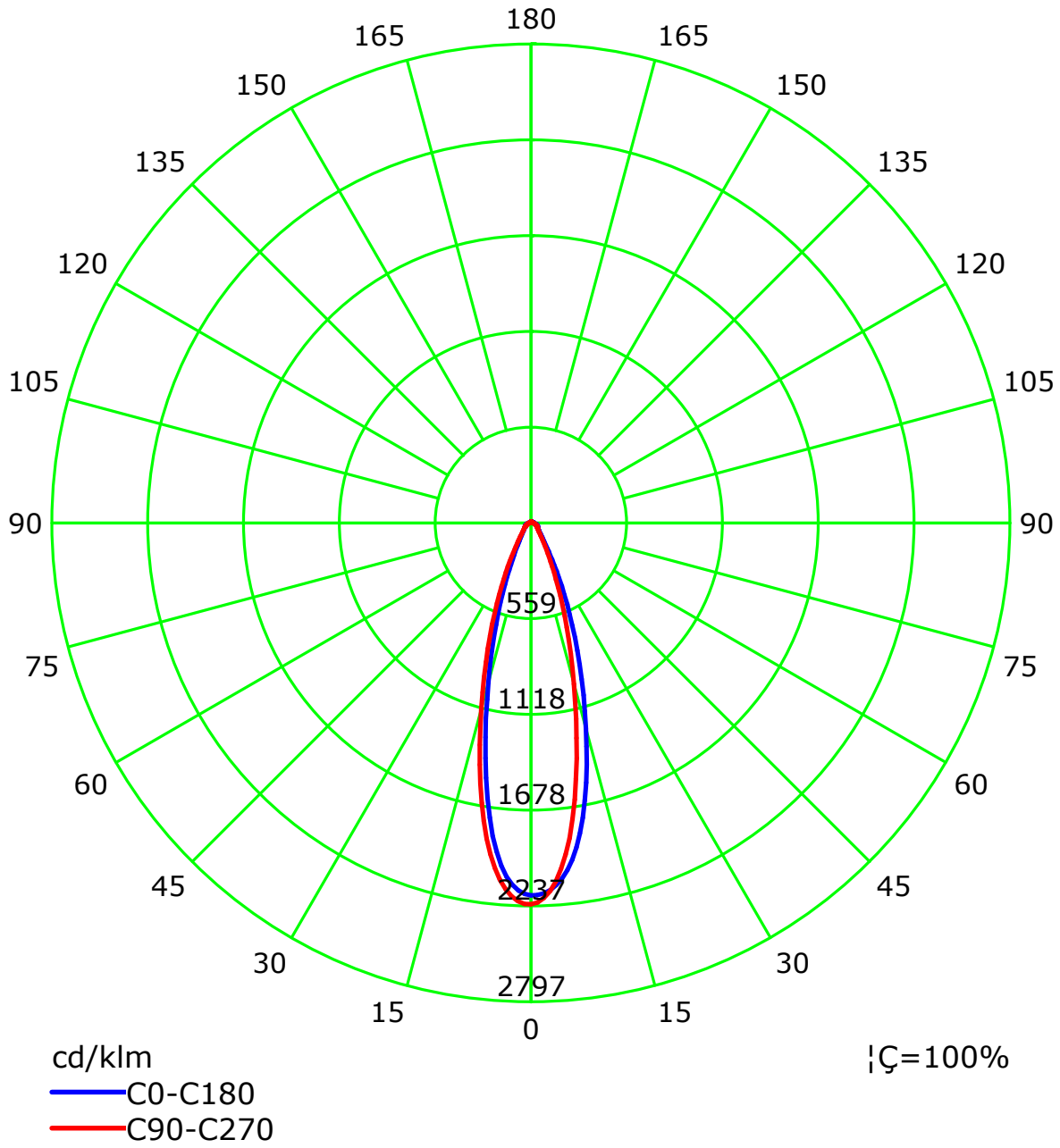
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5
Test Lab:
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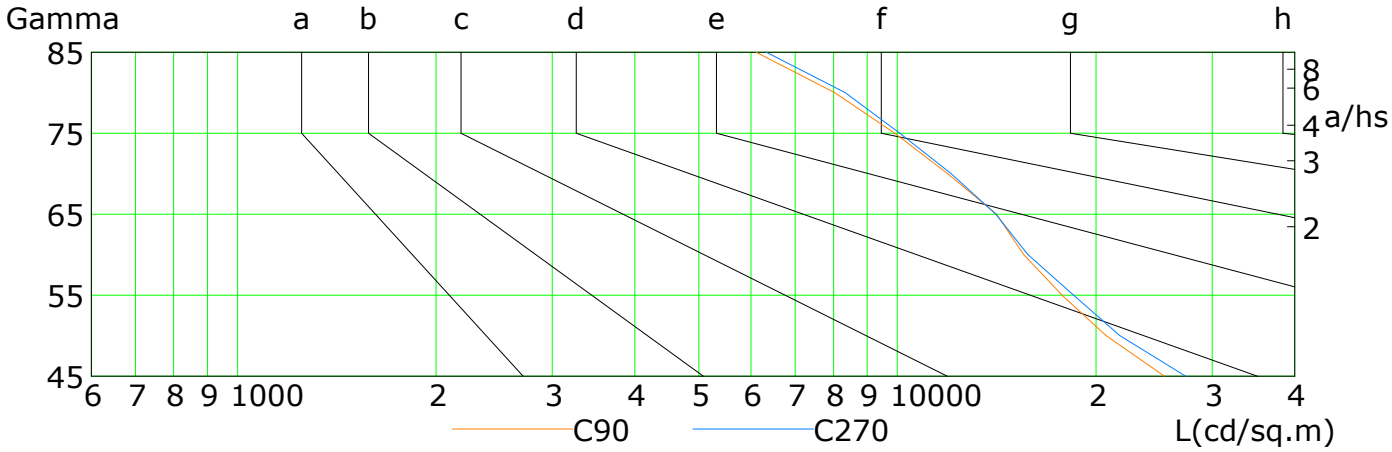
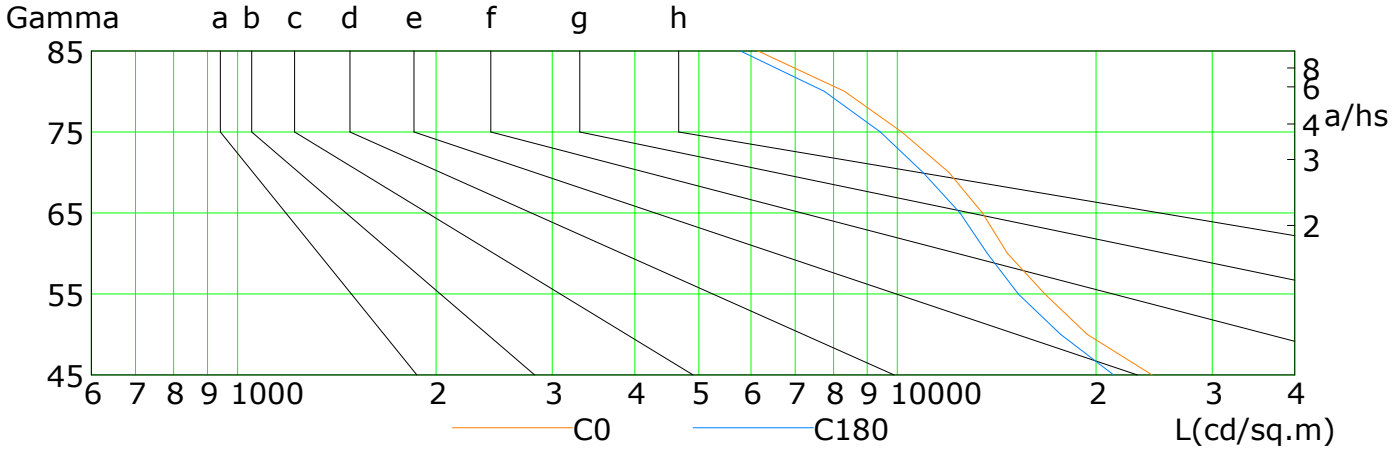
Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
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





L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	24319	19379	16726	14674	13455	11971	10159	8314	6147
C90	25404	20712	17772	15540	14134	11917	9905	8033	6110
C180	21276	17664	15244	13681	12441	10928	9424	7750	5784
C270	27332	21718	18494	15762	14105	12060	10080	8335	6331

C Plane (°):0.0-360.0: 22.5
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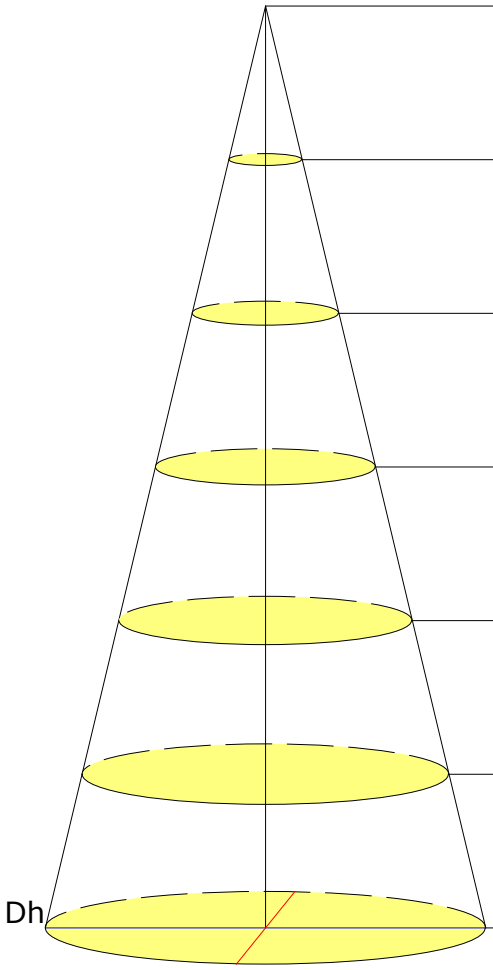
Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
5.0	10011.31	2.72/2.56	5.7	6647.46
10.0	2502.83	5.43/5.12	22.9	1661.86
15.0	1112.37	8.15/7.68	51.6	738.61
20.0	625.71	10.86/10.24	91.7	415.47
25.0	400.45	13.58/12.81	143.2	265.90
30.0	278.09	16.29/15.37	206.3	184.65

Beam Angle(B): H30.4 V28.7 Field Angle(F): H58.9 V58.3

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
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Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
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UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	18.6	19.5	19.0	19.8	20.1	18.4	19.3	18.8	19.6	19.9
3H	19.9	20.7	20.3	21.0	21.4	19.6	20.3	19.9	20.7	21.0
4H	20.5	21.2	20.9	21.6	22.0	20.1	20.8	20.5	21.2	21.6
6H	21.0	21.7	21.5	22.1	22.5	20.5	21.2	21.0	21.6	22.0
8H	21.2	21.9	21.7	22.3	22.7	20.7	21.4	21.2	21.8	22.2
12H	21.4	22.1	21.9	22.5	22.9	20.9	21.5	21.3	21.9	22.4
X=4H Y=2H	19.0	19.7	19.4	20.1	20.5	18.8	19.6	19.2	19.9	20.3
3H	20.5	21.1	20.9	21.5	22.0	20.2	20.8	20.6	21.2	21.7
4H	21.2	21.8	21.7	22.2	22.7	20.8	21.4	21.3	21.8	22.3
6H	21.9	22.4	22.4	22.9	23.4	21.4	22.0	21.9	22.4	22.9
8H	22.2	22.7	22.7	23.1	23.7	21.7	22.2	22.2	22.6	23.2
12H	22.4	22.8	22.9	23.4	23.9	21.9	22.3	22.4	22.8	23.4
X=8H Y=4H	21.4	21.9	22.0	22.4	22.9	21.1	21.6	21.6	22.1	22.6
6H	22.3	22.7	22.8	23.2	23.8	21.9	22.2	22.4	22.8	23.3
8H	22.7	23.0	23.2	23.5	24.1	22.2	22.5	22.8	23.1	23.7
12H	23.0	23.3	23.6	23.9	24.5	22.5	22.8	23.1	23.4	24.0
X=12H Y=4H	21.5	21.9	22.0	22.4	22.9	21.1	21.5	21.6	22.0	22.6
6H	22.3	22.7	22.9	23.2	23.8	21.9	22.3	22.5	22.8	23.4
8H	22.8	23.1	23.3	23.6	24.2	22.3	22.6	22.9	23.2	23.8
Variations with the observer position at spacings:										
S=1.0H	+0.6/-0.4					+0.8/-0.4				
S=1.5H	+1.4/-0.7					+1.7/-0.8				
S=2.0H	+2.3/-1.0					+2.6/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 115080lm (8log(F/F0) = 16.5).

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

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Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.75								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.81	0.86	0.91	0.94	0.98	1.01	1.03	1.06	1.08
	0.30		0.76	0.82	0.86	0.89	0.94	0.97	1.00	1.03	1.05
	0.20		0.72	0.78	0.82	0.86	0.91	0.94	0.97	1.01	1.03
0.50	0.50	0.20	0.79	0.84	0.88	0.91	0.94	0.97	0.99	1.01	1.03
	0.30		0.74	0.80	0.84	0.87	0.91	0.94	0.96	0.99	1.01
	0.20		0.71	0.77	0.81	0.84	0.88	0.91	0.94	0.97	0.99
0.30	0.50	0.20	0.77	0.82	0.85	0.88	0.91	0.93	0.95	0.97	0.98
	0.30		0.73	0.78	0.82	0.84	0.88	0.91	0.92	0.95	0.96
	0.20		0.71	0.76	0.79	0.82	0.86	0.88	0.91	0.93	0.95
0.00	0.00	0.00	0.68	0.73	0.76	0.78	0.82	0.84	0.86	0.88	0.89

Rating:802W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 0.75								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.63	0.53	0.45	0.40	0.32	0.27	0.23	0.18	0.15
	0.30		0.53	0.45	0.39	0.35	0.29	0.25	0.21	0.17	0.14
	0.20		0.45	0.39	0.35	0.31	0.26	0.23	0.20	0.16	0.14
0.50	0.50	0.20	0.59	0.49	0.42	0.37	0.30	0.28	0.21	0.17	0.14
	0.30		0.50	0.42	0.37	0.33	0.27	0.23	0.20	0.16	0.13
	0.20		0.43	0.38	0.33	0.30	0.25	0.21	0.19	0.15	0.13
0.30	0.50	0.20	0.56	0.46	0.39	0.34	0.27	0.23	0.19	0.15	0.13
	0.30		0.48	0.40	0.35	0.31	0.25	0.21	0.18	0.15	0.12
	0.20		0.42	0.36	0.32	0.28	0.23	0.20	0.17	0.14	0.12
0.00	0.00	0.00	0.28	0.23	0.20	0.18	0.14	0.12	0.11	0.08	0.07

Rating:802W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 0.75								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.19	0.20	0.21	0.22	0.24	0.25	0.25	0.26	0.26
	0.30		0.14	0.16	0.18	0.19	0.21	0.22	0.23	0.24	0.25
	0.20		0.11	0.13	0.15	0.16	0.18	0.19	0.20	0.22	0.23
0.50	0.50	0.20	0.18	0.20	0.21	0.22	0.23	0.24	0.24	0.25	0.25
	0.30		0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.23	0.24
	0.20		0.11	0.13	0.14	0.16	0.17	0.19	0.20	0.21	0.22
0.30	0.50	0.20	0.17	0.19	0.20	0.21	0.22	0.23	0.23	0.24	0.24
	0.30		0.14	0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23
	0.20		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.21	0.22
0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Rating:802W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector: