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Report No.: 1 Test Time: 12.02.2019 16:26

Luminaire Property

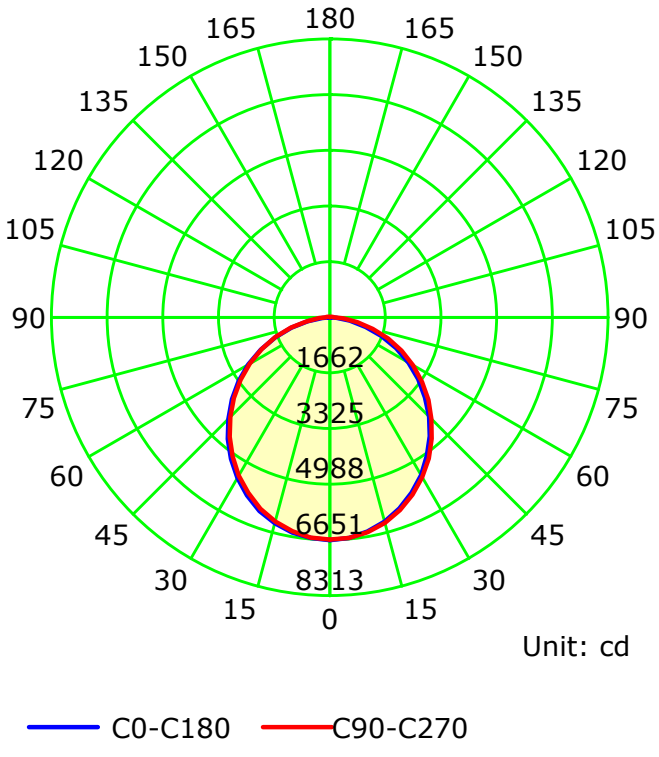
Luminaire Manufacturer: FAROS
Luminaire Description: FG 55 80LED 0,6A 2x75W 5000K opal
Lamp Description: LED Number of Lamps: 1
Lumens per Lamp: 18649.8 lm Luminous Length (mm): 1545 mm
Luminous Width (mm): 55 mm Luminous Height (mm): 90 mm
Voltage: 220.8 V Current: 0.681 A
Power: 148.19 W Power Factor: 0.981

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 18649.8 lm
Measurement Flux: 18644 lm Efficiency: 99.97%
Downward Ratio: 98.83% Upward Ratio: 1.14%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 159.5, 162.8, 161.5, 161.4
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.0, 109.9, 109.4, 109.5
Luminaire Efficacy Rating (LER): 125.86 Central Intensity: 6651.12 cd
Max. Intensity: 6651.13 cd Pos of Max. Intensity: H0 V0
S/MH(C0/C180): 1.23 S/MH(C90/C270): 1.23

Picture Of Luminaire

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5 Gamma Plane (°):0.0-180.0:5.0
Test Lab: Test Device: LSG-1800B
Test Type: TYPE C Distance: 12.654 m
Temperature: Humidity:
Operator: Inspector:

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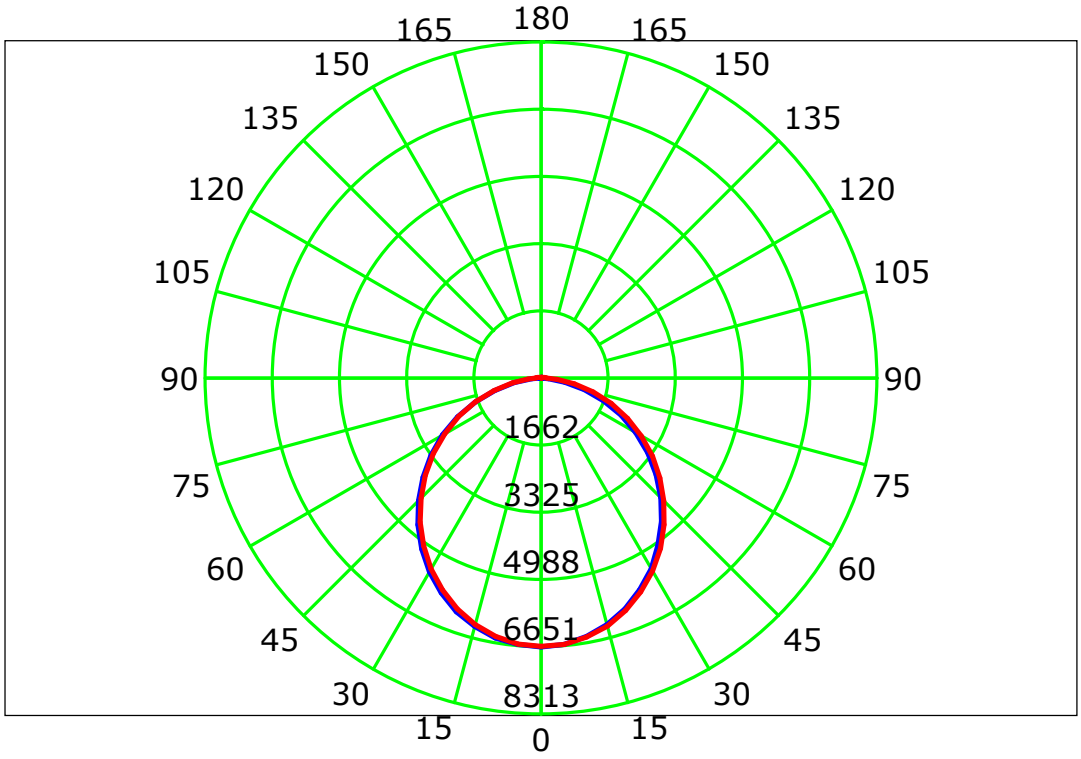
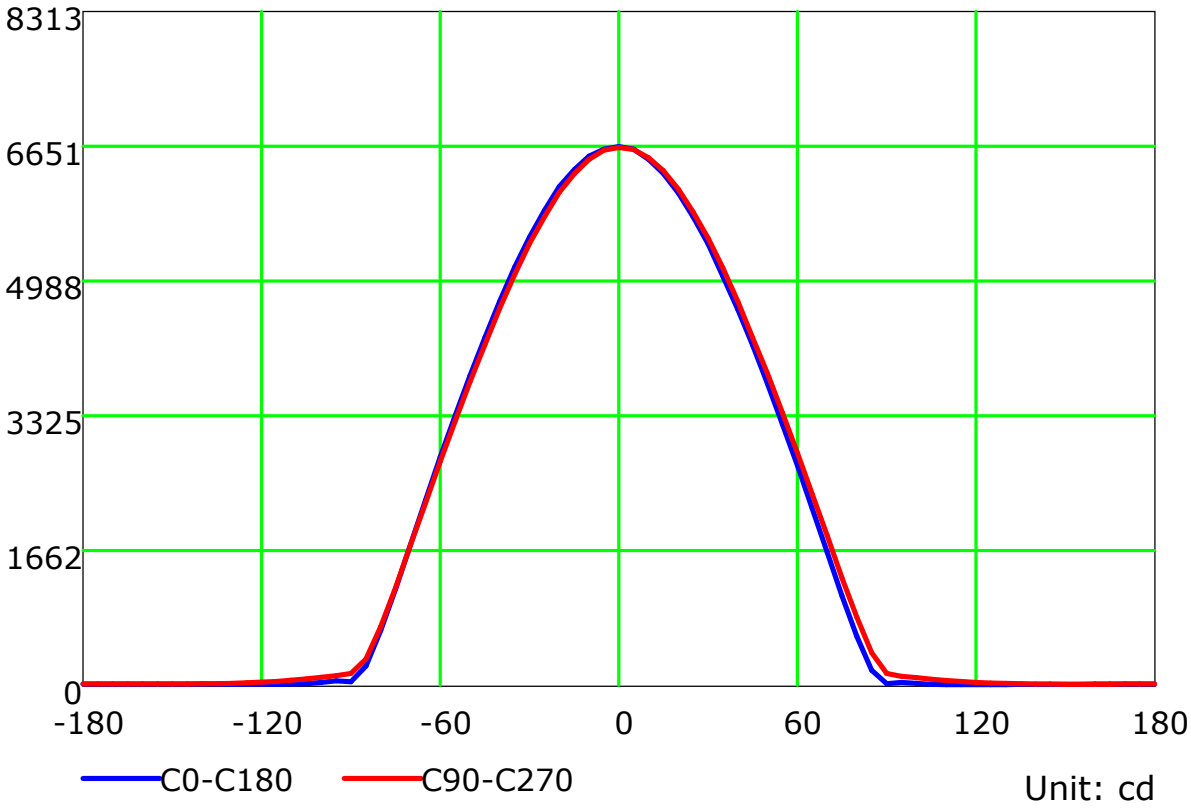
Luminous Intensity Distribution Curve





C Plane (°):0.0-360.0: 22.5
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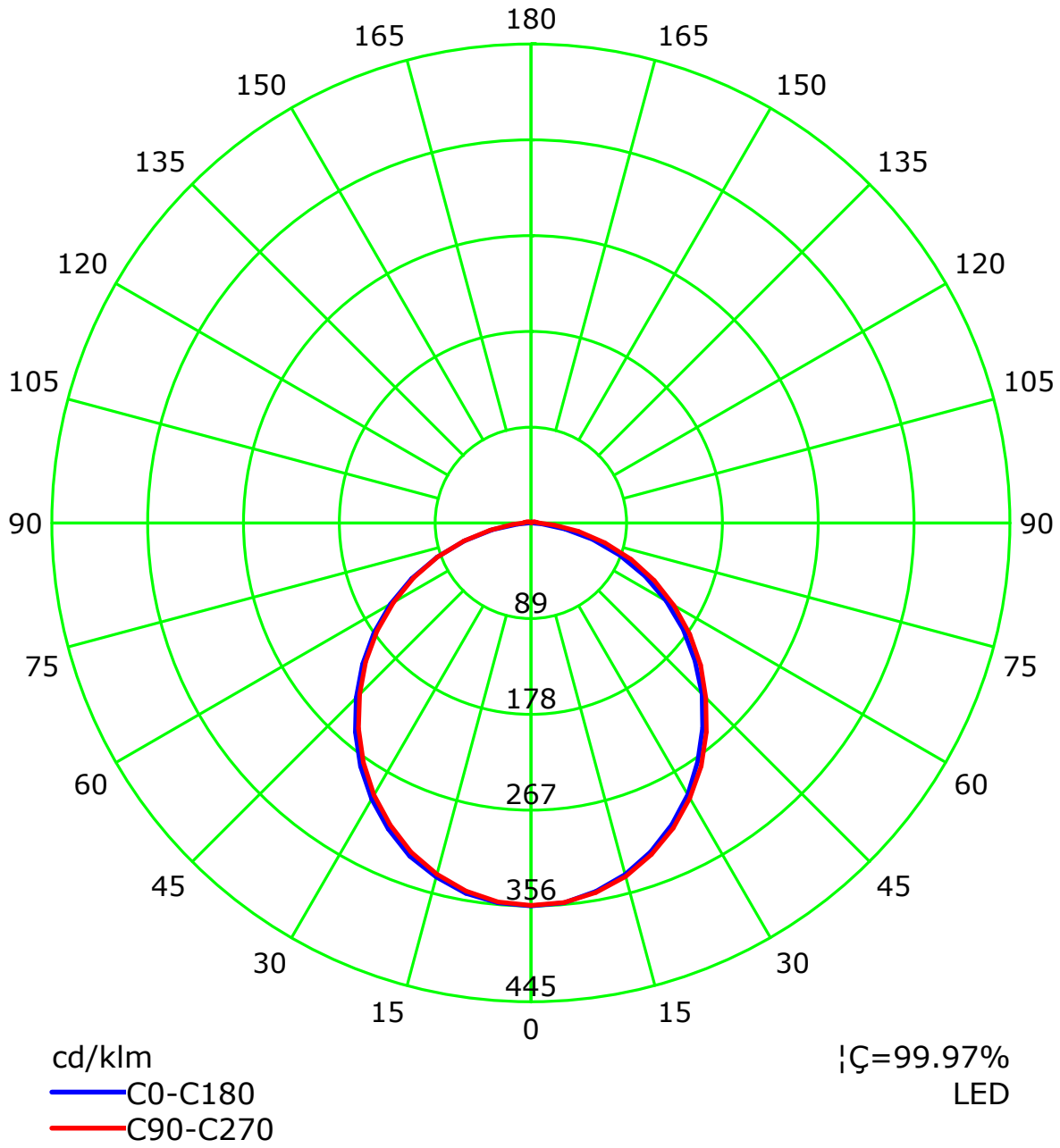
Luminous Intensity Distribution Curve(cd/klm)



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

Gamma Plane (°):0.0-180.0:5.0
Test Device: LSG-1800B
Distance: 12.654 m
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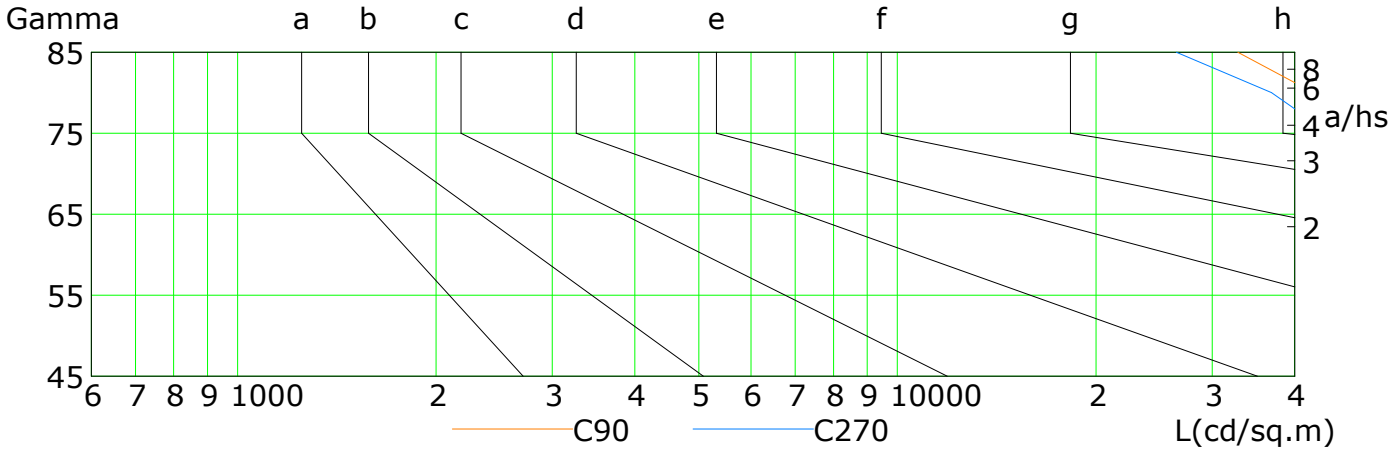
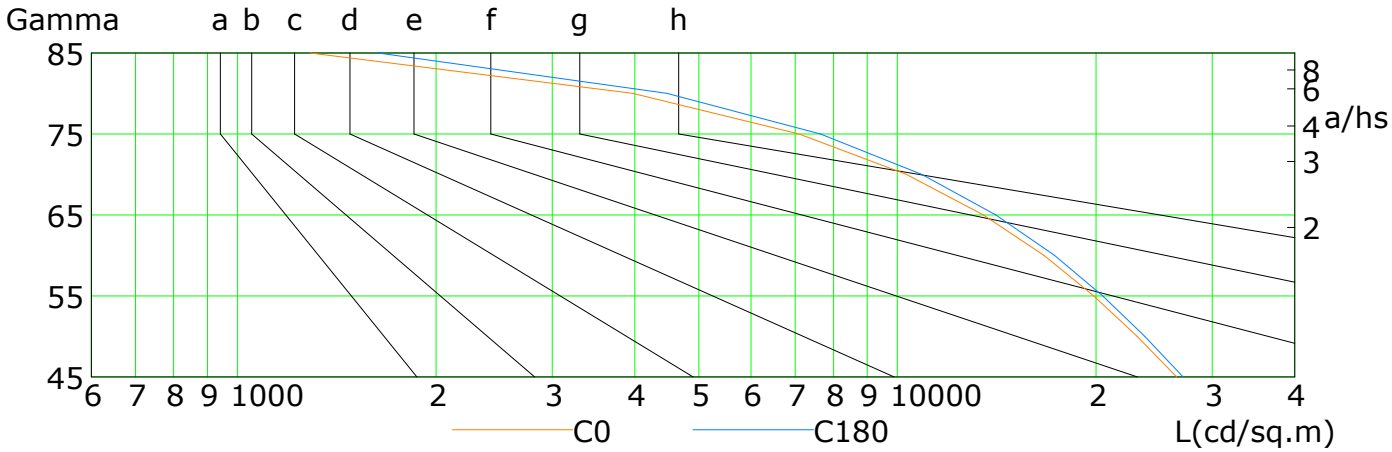
Lum Limit Curve

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	26505	23067	19838	16665	13498	10310	7093	3967	1288
C90	67485	65810	63807	61370	58509	54901	49664	42751	32803
C180	27117	23704	20483	17290	14107	10876	7649	4473	1634
C270	66212	64151	61836	59027	55641	51314	45284	36884	26486

C Plane (°):0.0-360.0: 22.5
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Test Device: LSG-1800B
Distance: 12.654 m
Humidity:
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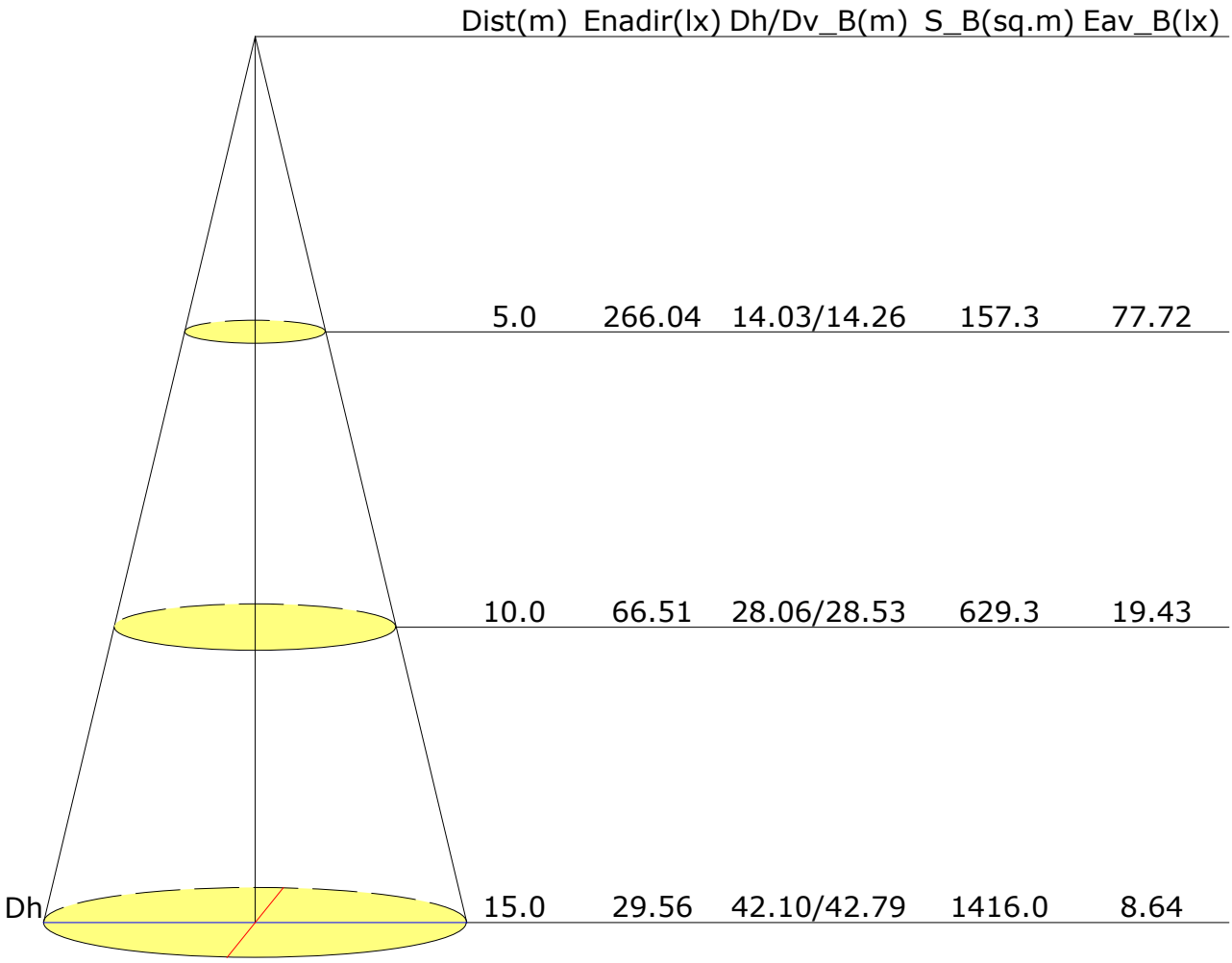
Illuminance at a Distance



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

Gamma Plane (°):0.0-180.0:5.0
Test Device: LSG-1800B
Distance: 12.654 m
Humidity:
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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	23.0	24.4	23.3	24.7	24.9	25.3	26.6	25.6	26.9	27.2
3H	24.0	25.2	24.3	25.5	25.8	26.8	28.0	27.1	28.3	28.6
4H	24.3	25.4	24.6	25.8	26.1	27.4	28.6	27.8	28.9	29.2
6H	24.4	25.5	24.8	25.8	26.2	27.8	28.9	28.2	29.3	29.6
8H	24.4	25.5	24.8	25.8	26.2	28.0	29.0	28.4	29.4	29.7
12H	24.4	25.4	24.8	25.7	26.1	28.1	29.1	28.5	29.4	29.8
X=4H Y=2H	23.7	24.8	24.0	25.2	25.5	25.5	26.7	25.9	27.0	27.3
3H	24.8	25.8	25.2	26.1	26.5	27.1	28.2	27.5	28.5	28.9
4H	25.1	26.0	25.6	26.4	26.8	27.8	28.7	28.3	29.1	29.5
6H	25.3	26.1	25.8	26.5	27.0	28.4	29.2	28.8	29.6	30.0
8H	25.3	26.1	25.8	26.5	27.0	28.5	29.3	29.0	29.7	30.2
12H	25.3	26.0	25.8	26.5	26.9	28.7	29.3	29.1	29.8	30.2
X=8H Y=4H	25.4	26.1	25.8	26.5	27.0	27.9	28.6	28.3	29.0	29.5
6H	25.6	26.2	26.1	26.7	27.2	28.5	29.1	29.0	29.5	30.0
8H	25.7	26.2	26.2	26.7	27.2	28.7	29.2	29.2	29.7	30.2
12H	25.7	26.2	26.2	26.6	27.2	28.9	29.3	29.4	29.8	30.3
X=12H Y=4H	25.4	26.0	25.8	26.5	26.9	27.9	28.5	28.3	29.0	29.4
6H	25.7	26.2	26.2	26.7	27.2	28.5	29.0	29.0	29.5	30.0
8H	25.7	26.2	26.2	26.7	27.2	28.7	29.2	29.2	29.6	30.2
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.2/-0.2				
S=1.5H	+0.4/-0.8					+0.6/-0.6				
S=2.0H	+0.8/-1.5					+1.3/-1.4				

Calculate in accordance with CIE Pub.117. The table is revised with 18650lm (8log(F/F0) = 10.2).

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

Gamma Plane (°):0.0-180.0:5.0
Test Device: LSG-1800B
Distance: 12.654 m
Humidity:
Inspector:

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Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25								
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	0.56	0.67	0.74	0.79	0.87	0.92	0.95	1.00	1.03
	0.30		0.49	0.59	0.67	0.72	0.80	0.86	0.90	0.96	0.99
	0.20		0.43	0.53	0.61	0.67	0.75	0.81	0.86	0.92	0.96
0.50	0.50	0.20	0.55	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.98
	0.30		0.48	0.58	0.65	0.70	0.78	0.83	0.87	0.92	0.95
	0.20		0.42	0.53	0.60	0.66	0.74	0.79	0.83	0.89	0.93
0.30	0.50	0.20	0.53	0.62	0.69	0.74	0.80	0.85	0.88	0.92	0.94
	0.30		0.47	0.57	0.64	0.69	0.76	0.81	0.84	0.89	0.92
	0.20		0.42	0.52	0.59	0.64	0.72	0.77	0.81	0.86	0.90
0.00	0.00	0.00	0.40	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.85

Rating:148W 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 (°):0.0-180.0:5.0
Test Device: LSG-1800B
Distance: 12.654 m
Humidity:
Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25								
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	0.99	0.82	0.70	0.61	0.49	0.40	0.35	0.27	0.22
	0.30		0.83	0.70	0.61	0.54	0.44	0.37	0.32	0.25	0.21
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20
0.50	0.50	0.20	0.96	0.79	0.67	0.58	0.46	0.42	0.33	0.25	0.21
	0.30		0.81	0.68	0.59	0.52	0.42	0.36	0.31	0.24	0.20
	0.20		0.70	0.60	0.53	0.47	0.39	0.33	0.29	0.23	0.19
0.30	0.50	0.20	0.93	0.76	0.64	0.56	0.44	0.37	0.31	0.24	0.20
	0.30		0.79	0.67	0.57	0.51	0.41	0.34	0.30	0.23	0.19
	0.20		0.69	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.18
0.00	0.00	0.00	0.59	0.50	0.43	0.38	0.30	0.25	0.22	0.17	0.14

Rating:148W 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 = 1.25								
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	0.17	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Rating:148W 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 (°):0.0-180.0:5.0
Test Device: LSG-1800B
Distance: 12.654 m
Humidity:
Inspector: