OOO "FAROS"
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Report No.: 1 Test Time: 01.12.2017 10:02

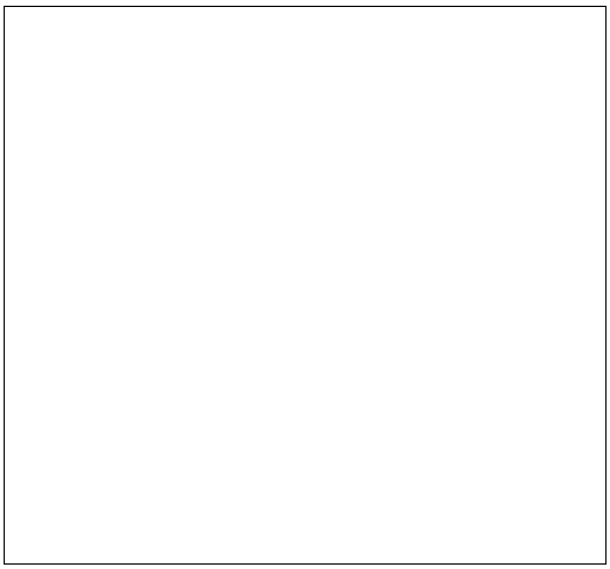
Luminaire Property

Luminaire Manufacturer: FAROS
Luminaire Description: FP 150 100W 5000K 40x90gr. NEMA
Number of Lamps: 1 Luminous Length (mm): 596
Luminous Width (mm): 153 Luminous Height (mm): 80
Voltage: 231.5 V Current: 0.418 A
Power: 94.12 W Power Factor: 0.971

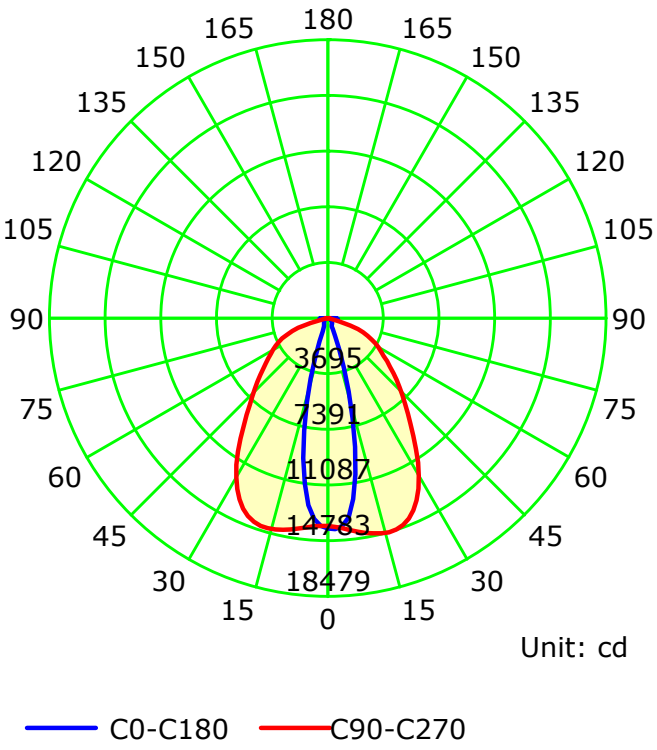
Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 11419.6 lm
Measurement Flux: 11419.6 lm Efficiency: 100%
Downward Ratio: 99% Upward Ratio: 1%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 42.4, 145.7, 56.0, 56.0
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 26.5, 86.4, 35.6, 35.8
Luminaire Efficacy Rating (LER): 121.38 Central Intensity: 13973.62 cd
Max. Intensity: 14783.66 cd Pos of Max. Intensity: H90 V16
S/MH(C0/C180): 0.45 S/MH(C90/C270): 1.26

Picture Of Luminaire

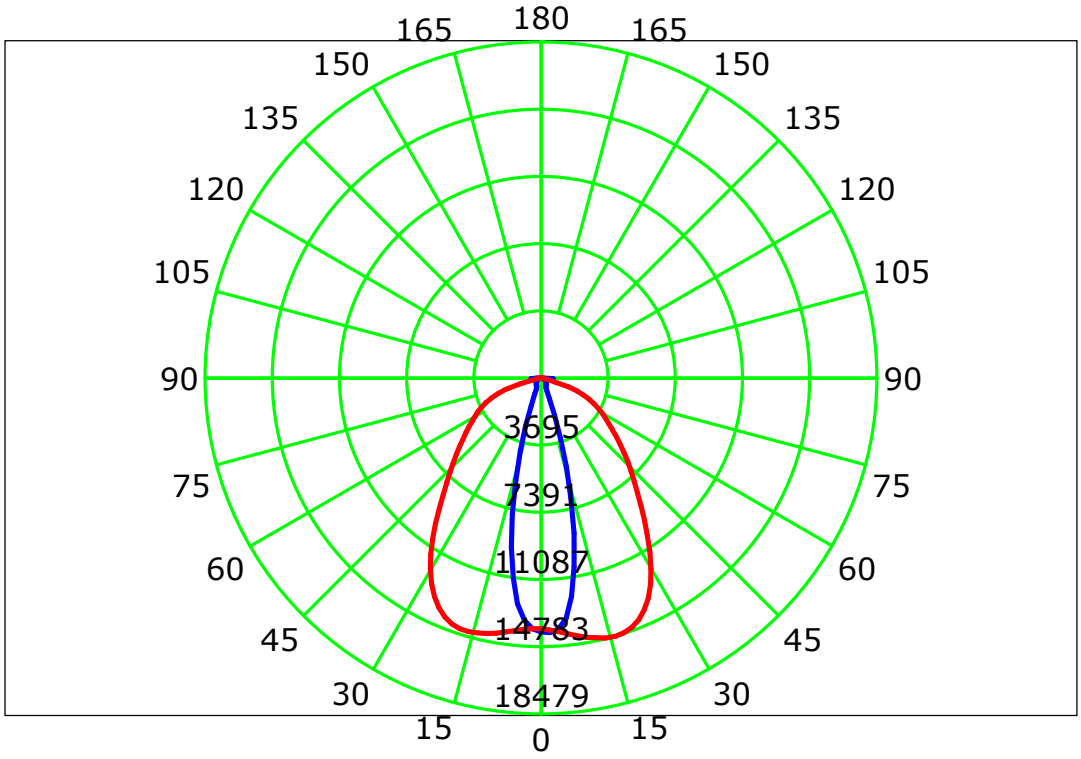


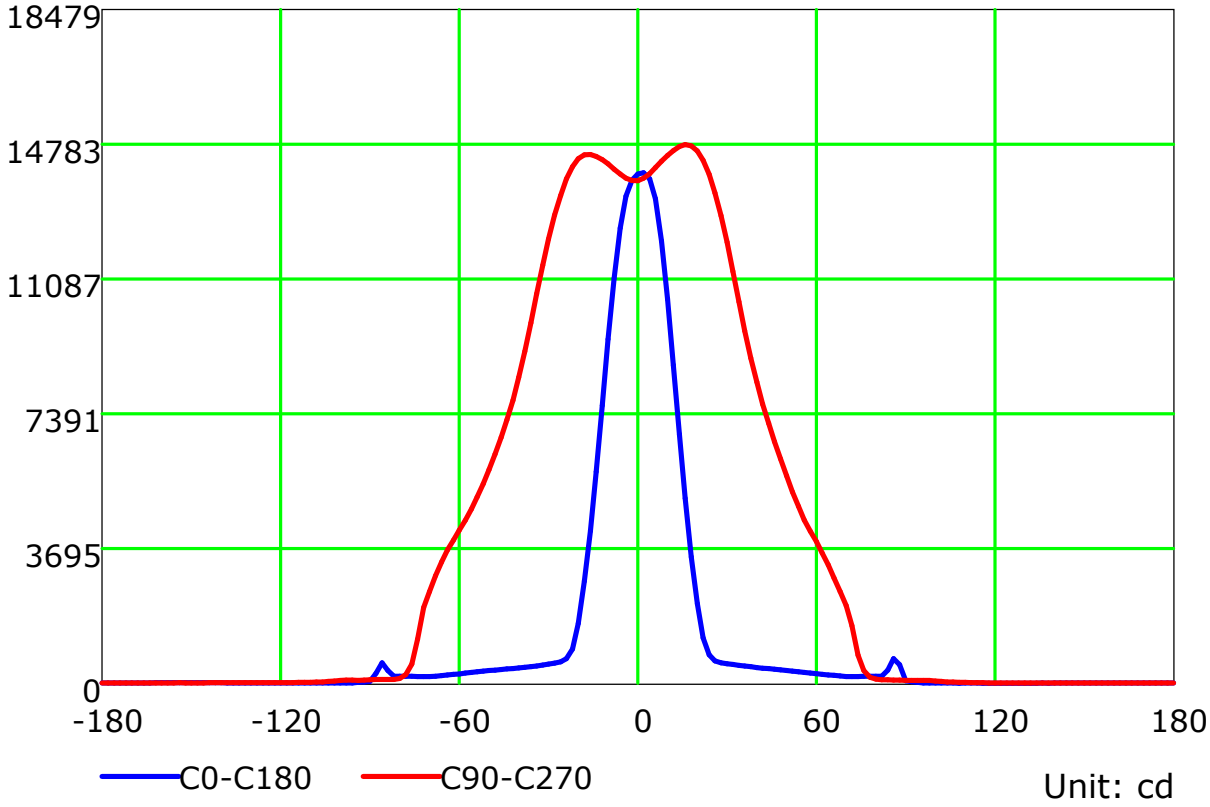
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5 Gamma Plane (°):0.0-180.0:2.0
Test Lab: Test Device: LSG-1800B
Test Type: TYPE C Distance: 12.606 m
Temperature: Humidity:
Operator: Inspector:

Luminous Intensity Distribution Curve

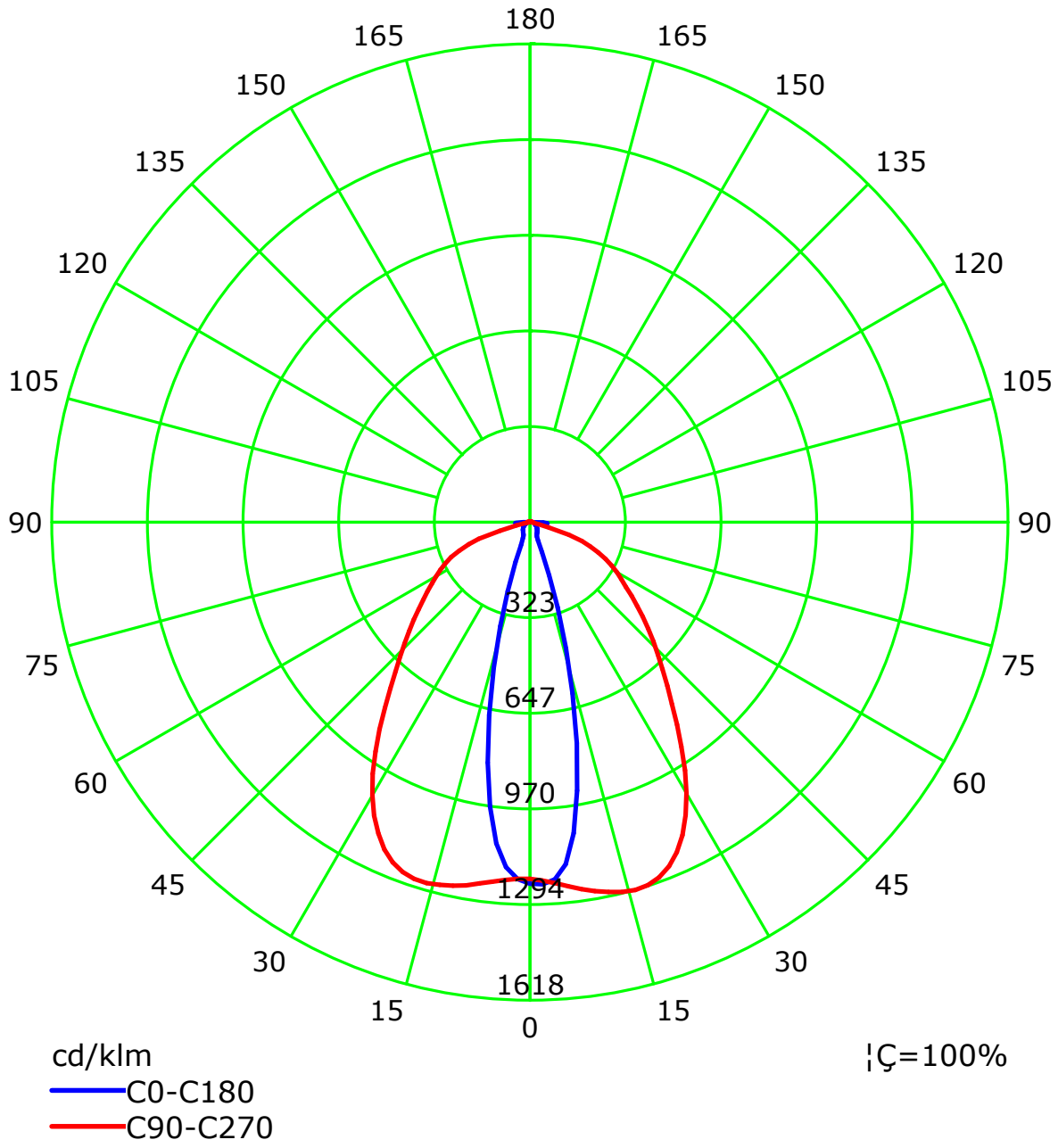




C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.606 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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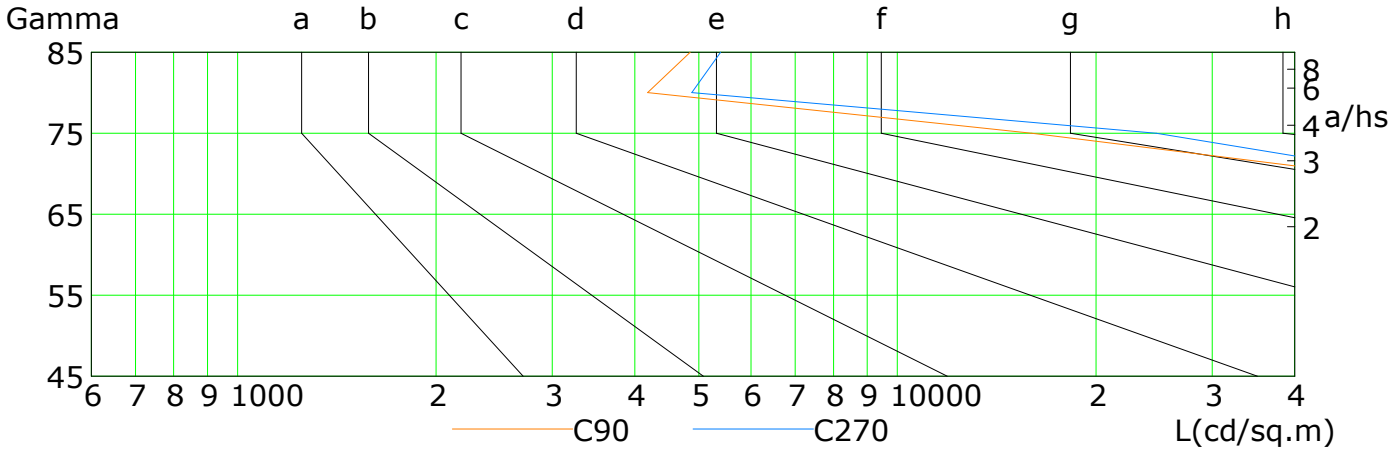
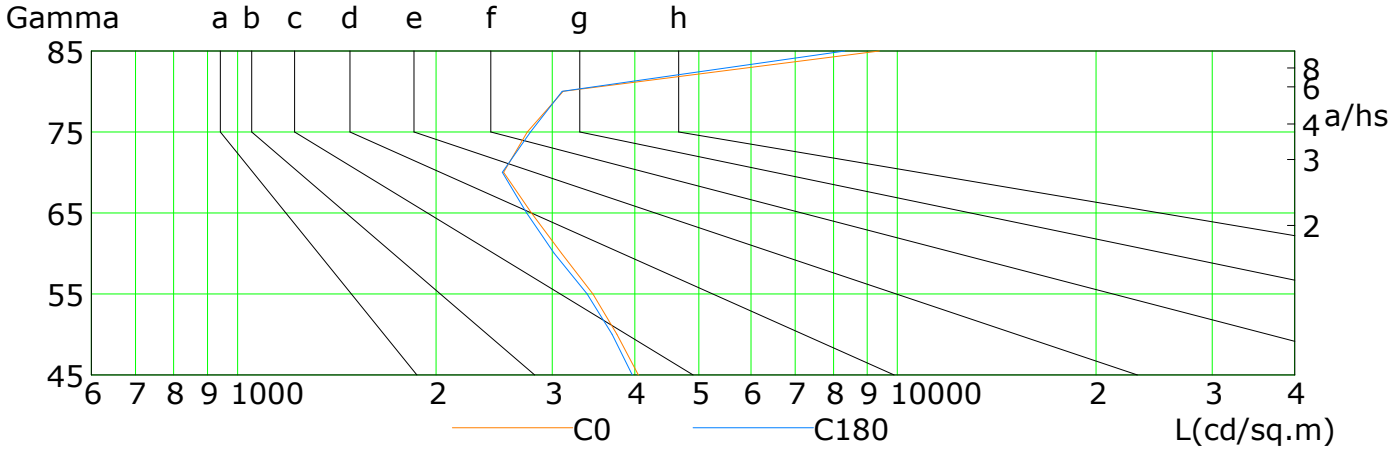
Lum Limit Curve

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	4049	3756	3455	3096	2790	2532	2747	3115	9389
C90	94079	83671	74928	69257	61948	50164	15971	4181	4855
C180	3966	3695	3387	3019	2742	2520	2781	3106	8322
C270	95522	86217	79385	74735	70402	58890	24669	4881	5398

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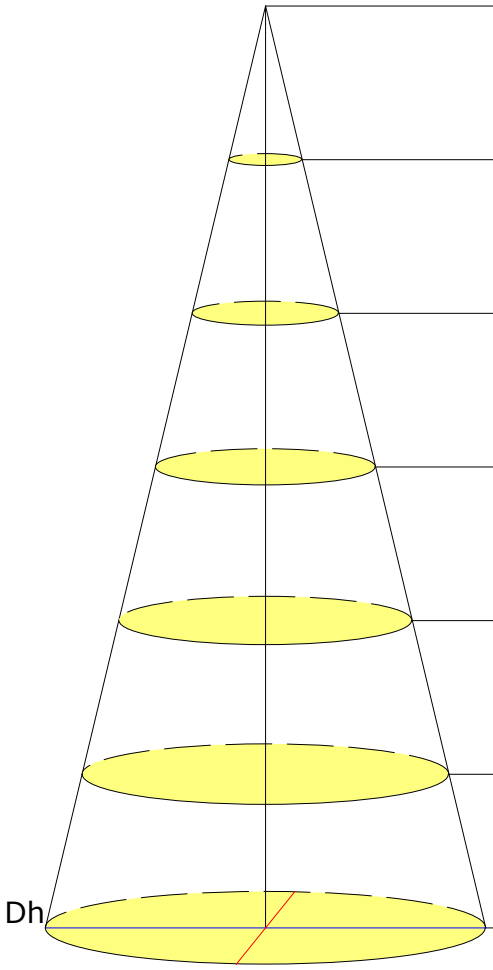
Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
5.0	558.94	2.36/9.39	17.6	306.53
10.0	139.74	4.71/18.78	70.3	76.63
15.0	62.10	7.07/28.17	158.3	34.06
20.0	34.93	9.42/37.56	281.4	19.16
25.0	22.36	11.78/46.95	439.7	12.26
30.0	15.53	14.13/56.34	633.1	8.51

Beam Angle(B): H26.5 V86.4 Field Angle(F): H42.4 V145.7

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

Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.606 m
Humidity:
Inspector:

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	10.9	12.0	11.2	12.2	12.4	26.6	27.6	26.9	27.9	28.1
3H	12.2	13.2	12.5	13.4	13.7	28.1	29.1	28.5	29.4	29.6
4H	12.9	13.8	13.3	14.1	14.4	28.4	29.3	28.7	29.6	29.9
6H	13.8	14.7	14.2	15.0	15.3	28.3	29.2	28.7	29.5	29.8
8H	14.4	15.3	14.8	15.6	15.9	28.3	29.1	28.7	29.5	29.8
12H	16.4	17.2	16.8	17.5	17.9	28.3	29.1	28.7	29.4	29.7
X=4H Y=2H	12.9	13.8	13.3	14.1	14.4	26.3	27.2	26.7	27.5	27.8
3H	13.9	14.7	14.3	15.0	15.4	27.9	28.7	28.3	29.0	29.4
4H	14.6	15.2	15.0	15.6	16.0	28.2	28.9	28.6	29.3	29.6
6H	15.3	16.0	15.8	16.3	16.8	28.2	28.8	28.6	29.2	29.6
8H	15.9	16.5	16.4	16.9	17.3	28.1	28.7	28.6	29.1	29.6
12H	17.8	18.3	18.3	18.8	19.2	28.1	28.6	28.6	29.1	29.5
X=8H Y=4H	14.9	15.5	15.4	15.9	16.4	28.1	28.7	28.5	29.1	29.5
6H	15.7	16.2	16.2	16.6	17.1	28.1	28.5	28.5	29.0	29.4
8H	16.3	16.7	16.8	17.2	17.7	28.0	28.4	28.5	28.9	29.4
12H	18.3	18.6	18.8	19.1	19.6	28.0	28.4	28.5	28.9	29.4
X=12H Y=4H	15.0	15.5	15.4	15.9	16.4	28.1	28.6	28.5	29.0	29.4
6H	15.8	16.2	16.3	16.7	17.2	28.0	28.4	28.5	28.9	29.4
8H	16.4	16.7	16.9	17.2	17.7	28.0	28.4	28.5	28.8	29.4
Variations with the observer position at spacings:										
S=1.0H	+0.8/-0.6					+1.1/-1.4				
S=1.5H	+1.2/-1.1					+2.4/-4.0				
S=2.0H	+2.2/-1.6					+3.6/-7.5				

Calculate in accordance with CIE Pub.117. The table is revised with 11420lm (8log(F/F0) = 8.5).

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

Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.606 m
Humidity:
Inspector:

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	0.71	0.80	0.85	0.90	0.95	0.99	1.02	1.05	1.07
	0.30		0.65	0.74	0.80	0.84	0.90	0.95	0.98	1.02	1.04
	0.20		0.61	0.69	0.75	0.80	0.87	0.91	0.94	0.99	1.02
0.50	0.50	0.20	0.70	0.78	0.83	0.87	0.92	0.96	0.98	1.01	1.03
	0.30		0.64	0.72	0.78	0.82	0.88	0.92	0.95	0.98	1.01
	0.20		0.60	0.68	0.74	0.79	0.85	0.89	0.92	0.96	0.99
0.30	0.50	0.20	0.69	0.76	0.81	0.84	0.89	0.92	0.94	0.97	0.99
	0.30		0.64	0.71	0.77	0.81	0.86	0.89	0.92	0.95	0.97
	0.20		0.60	0.68	0.73	0.77	0.83	0.87	0.90	0.93	0.95
0.00	0.00	0.00	0.58	0.65	0.71	0.74	0.80	0.83	0.86	0.89	0.91

Rating:94W 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 (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.606 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	0.78	0.64	0.54	0.47	0.37	0.31	0.26	0.20	0.17
	0.30		0.65	0.55	0.47	0.42	0.34	0.28	0.24	0.19	0.16
	0.20		0.56	0.48	0.42	0.37	0.31	0.26	0.23	0.18	0.15
0.50	0.50	0.20	0.75	0.61	0.51	0.44	0.35	0.33	0.25	0.19	0.16
	0.30		0.63	0.53	0.45	0.40	0.32	0.27	0.23	0.18	0.15
	0.20		0.55	0.47	0.41	0.36	0.29	0.25	0.22	0.17	0.14
0.30	0.50	0.20	0.72	0.58	0.49	0.42	0.33	0.27	0.23	0.18	0.15
	0.30		0.61	0.51	0.44	0.38	0.31	0.25	0.22	0.17	0.14
	0.20		0.54	0.46	0.40	0.35	0.28	0.24	0.21	0.16	0.14
0.00	0.00	0.00	0.42	0.34	0.29	0.25	0.20	0.17	0.14	0.11	0.09

Rating:94W 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 (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.606 m
Humidity:
Inspector:

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	0.15	0.17	0.18	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	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.18
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18
0.30	0.50	0.20	0.14	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.08	0.09	0.11	0.12	0.14	0.15	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:94W 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 (°):0.0-180.0:2.0
Test Device: LSG-1800B
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