OOO "FAROS"
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Tel: +7 (8422) 583-386, 583-387
E-mail: info@farosled.ru

Report No.: 1 Test Time: 13.12.2017 10:40

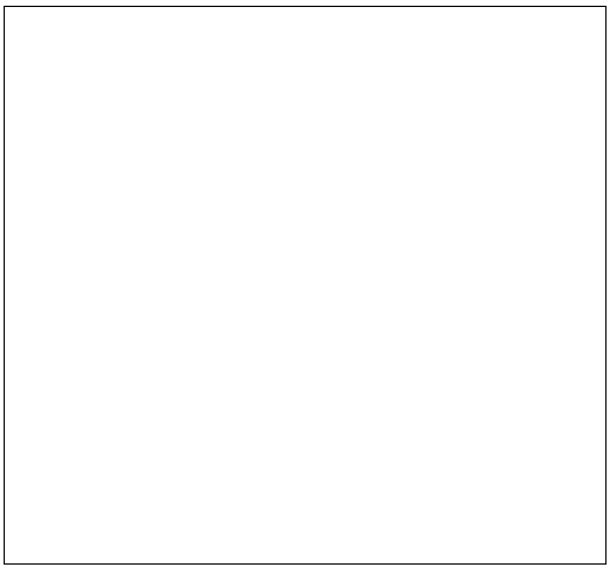
Luminaire Property

Luminaire Manufacturer: FAROS
Luminaire Description: FP 150 100W 5000K 2x40-100gr. NEMA
Number of Lamps: 1 Luminous Length (mm): 496
Luminous Width (mm): 153 Luminous Height (mm): 80
Voltage: 231.6 V Current: 0.415 A
Power: 93.44 W Power Factor: 0.970

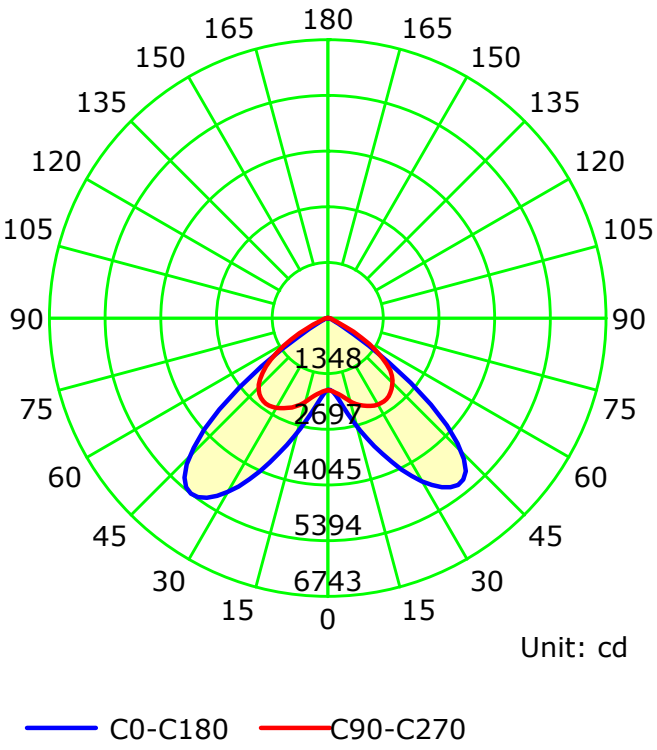
Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 11236.1 lm
Measurement Flux: 11236.1 lm Efficiency: 100%
Downward Ratio: 100% Upward Ratio: 0%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 119.2, 135.3, 136.0, 135.2
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 103.7, 115.1, 119.8, 119.5
Luminaire Efficacy Rating (LER): 120.30 Central Intensity: 1742.07 cd
Max. Intensity: 5394.63 cd Pos of Max. Intensity: H180 V38
S/MH(C0/C180): 2.39 S/MH(C90/C270): 1.92

Picture Of Luminaire

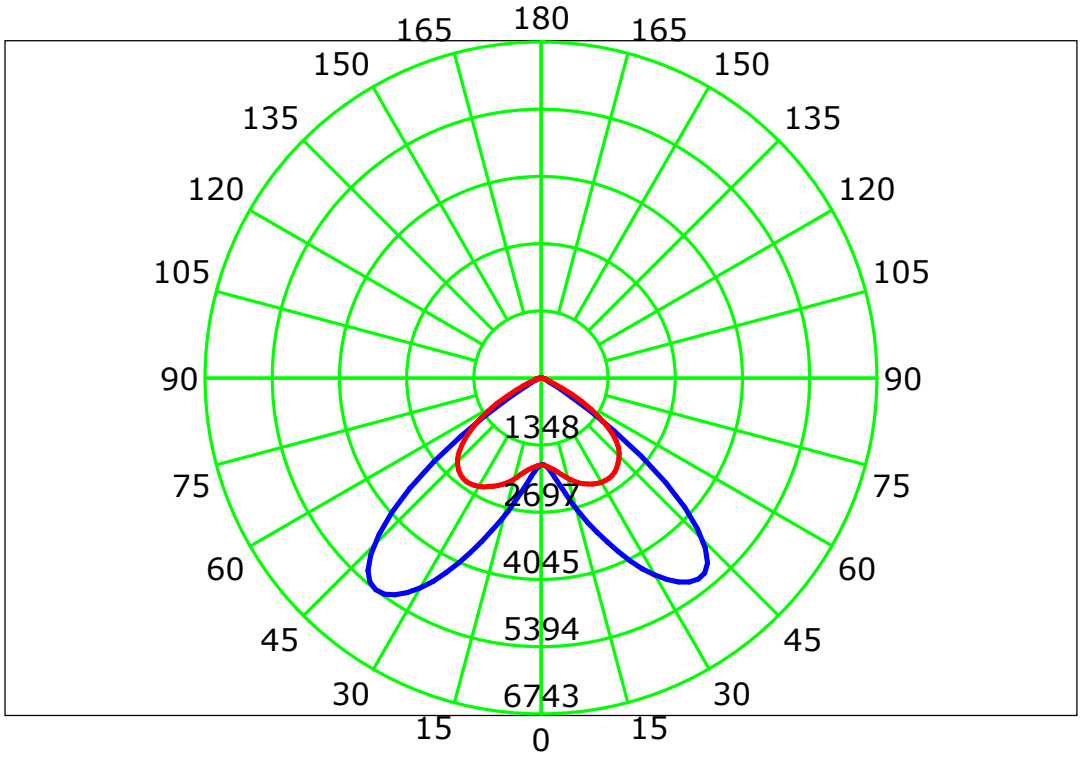


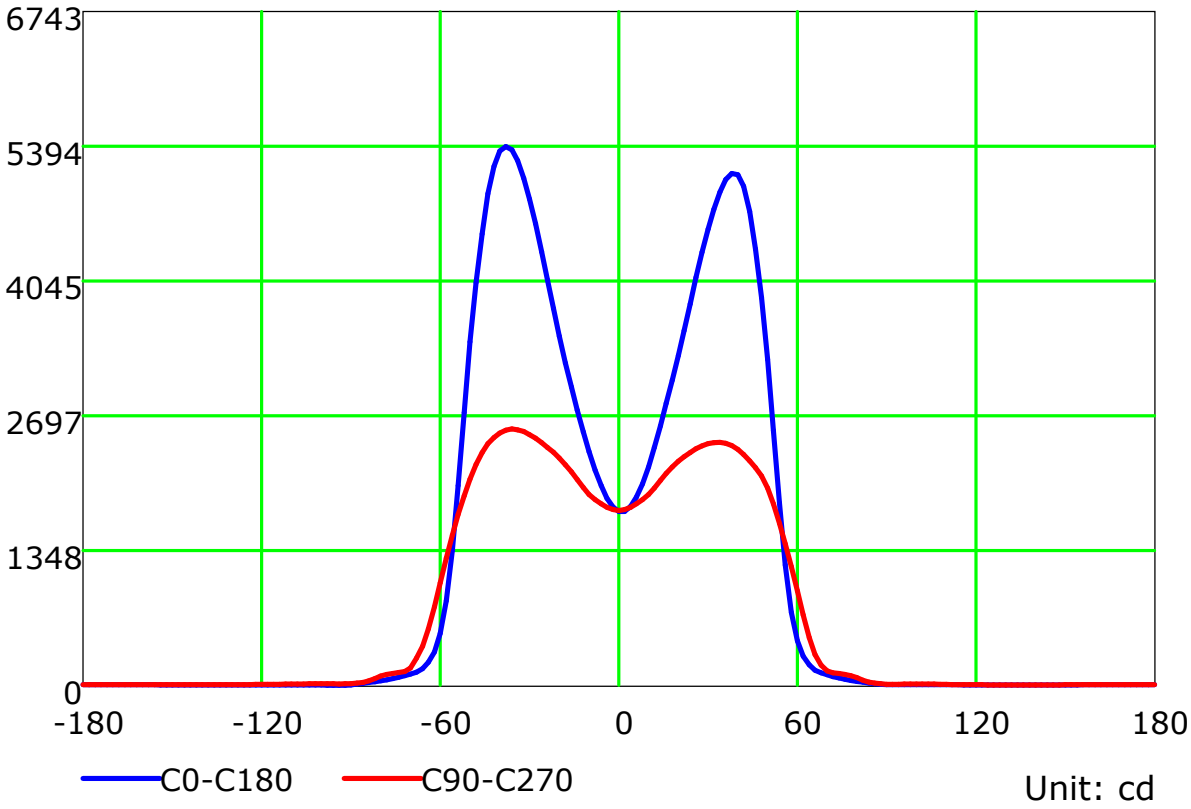
Luminous Intensity Distribution Curve



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





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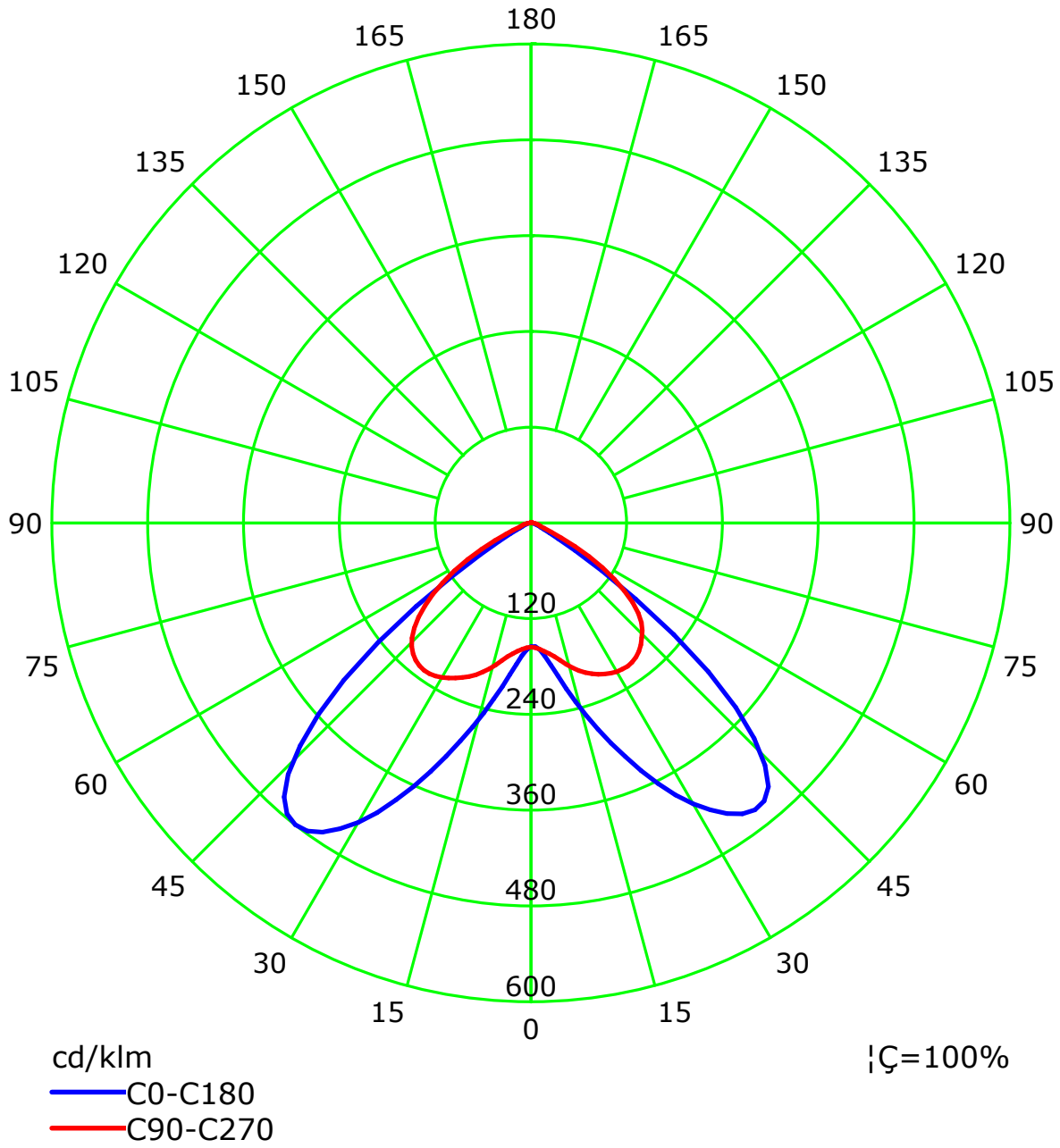
Test Type: TYPE C
Temperature:
Operator:

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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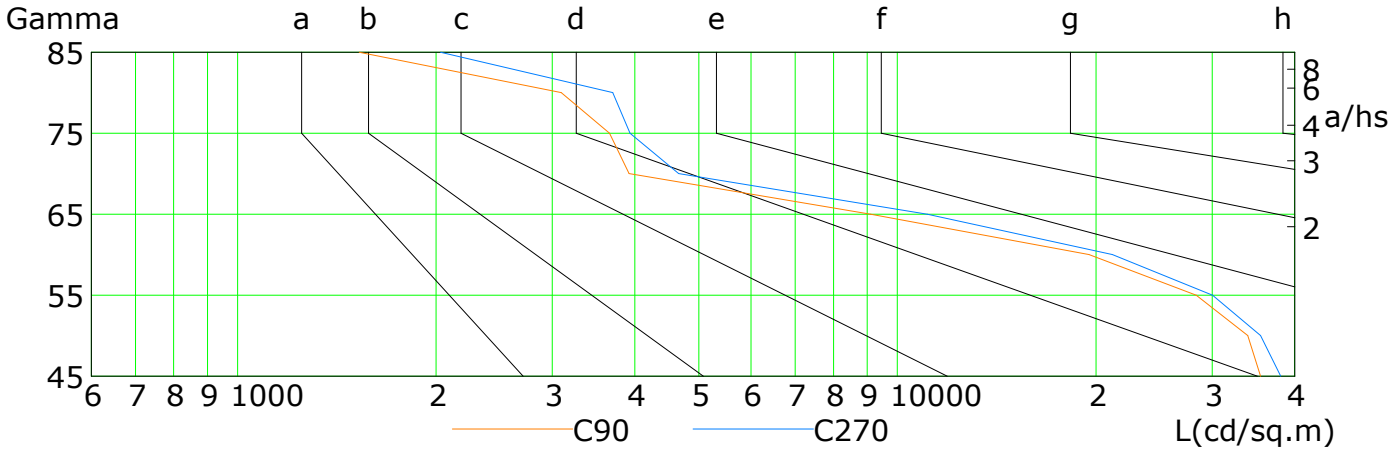
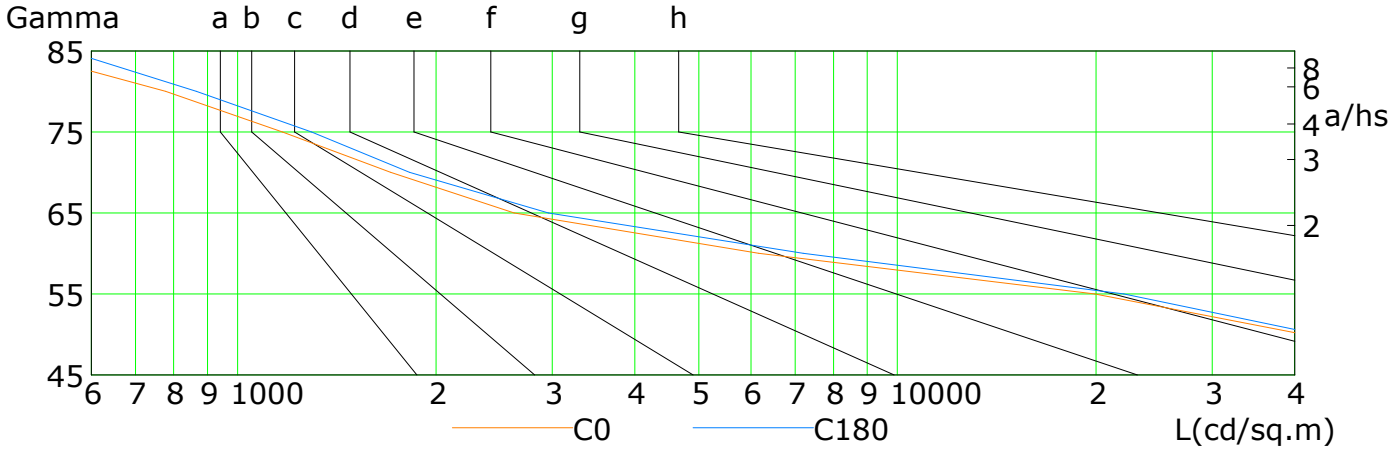
Lum Limit Curve

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	55742	41201	19923	6160	2626	1706	1169	778	463
C90	35515	33950	28383	19512	9114	3922	3664	3092	1529
C180	57776	43445	22047	7200	2960	1821	1294	866	553
C270	38111	35516	30052	21165	11106	4663	3933	3702	2031

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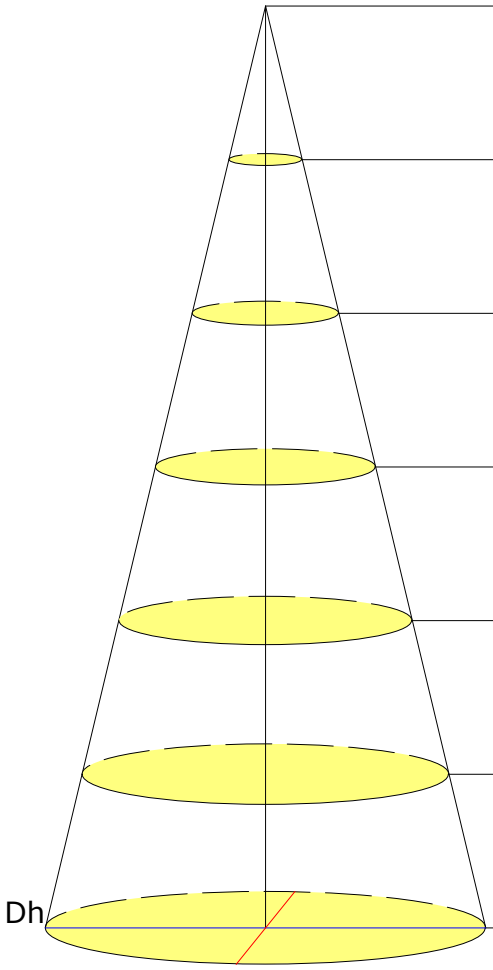
Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
5.0	69.68	12.73/15.73	198.6	27.38
10.0	17.42	25.46/31.45	794.6	6.85
15.0	7.74	38.18/47.18	1787.8	3.04
20.0	4.36	50.91/62.90	3178.3	1.71
25.0	2.79	63.64/78.63	4966.2	1.10
30.0	1.94	76.37/94.35	7151.3	0.76

Beam Angle(B): H103.7 V115.1 Field Angle(F): H119.2 V135.3

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	25.1	26.4	25.4	26.6	26.9	25.3	26.6	25.6	26.9	27.1
3H	24.9	26.1	25.2	26.4	26.7	25.3	26.5	25.6	26.8	27.0
4H	24.8	26.0	25.2	26.2	26.6	25.2	26.4	25.6	26.6	26.9
6H	24.8	25.8	25.1	26.1	26.4	25.2	26.2	25.5	26.5	26.8
8H	24.7	25.7	25.1	26.0	26.4	25.1	26.1	25.5	26.5	26.8
12H	24.7	25.6	25.1	26.0	26.3	25.1	26.1	25.5	26.4	26.7
X=4H Y=2H	25.4	26.5	25.8	26.8	27.1	25.6	26.7	26.0	27.0	27.3
3H	25.3	26.2	25.7	26.6	26.9	25.6	26.6	26.0	26.9	27.3
4H	25.2	26.1	25.6	26.4	26.8	25.6	26.4	26.0	26.8	27.2
6H	25.2	25.9	25.6	26.3	26.7	25.5	26.3	26.0	26.7	27.1
8H	25.1	25.8	25.6	26.2	26.6	25.5	26.2	26.0	26.6	27.0
12H	25.1	25.7	25.6	26.1	26.6	25.5	26.1	26.0	26.5	27.0
X=8H Y=4H	25.1	25.8	25.6	26.2	26.6	25.5	26.2	25.9	26.6	27.0
6H	25.1	25.6	25.6	26.1	26.5	25.5	26.0	25.9	26.4	26.9
8H	25.1	25.5	25.5	26.0	26.5	25.4	25.9	25.9	26.4	26.9
12H	25.0	25.4	25.5	25.9	26.4	25.4	25.8	25.9	26.3	26.8
X=12H Y=4H	25.1	25.7	25.6	26.1	26.6	25.5	26.1	25.9	26.5	26.9
6H	25.1	25.5	25.5	26.0	26.5	25.4	25.9	25.9	26.4	26.8
8H	25.0	25.4	25.5	25.9	26.4	25.4	25.8	25.9	26.3	26.8
Variations with the observer position at spacings:										
S=1.0H	+1.2/-1.9					+0.5/-0.6				
S=1.5H	+2.7/-9.6					+2.5/-4.2				
S=2.0H	+3.6/-13.2					+3.4/-8.1				

Calculate in accordance with CIE Pub.117. The table is revised with 11236lm (8log(F/F0) = 8.4).

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 = 2.00								
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	NA	0.80	0.85	0.90	0.96	1.00	1.02	1.05	1.08
	0.30		NA	0.74	0.80	0.85	0.92	0.96	0.99	1.03	1.05
	0.20		NA	0.70	0.76	0.81	0.88	0.93	0.96	1.00	1.03
0.50	0.50	0.20	NA	0.78	0.83	0.87	0.93	0.97	0.99	1.02	1.03
	0.30		NA	0.73	0.78	0.83	0.89	0.93	0.96	0.99	1.01
	0.20		NA	0.69	0.75	0.79	0.86	0.91	0.93	0.97	1.00
0.30	0.50	0.20	NA	0.76	0.81	0.85	0.90	0.93	0.95	0.98	1.00
	0.30		NA	0.72	0.77	0.81	0.87	0.91	0.93	0.96	0.98
	0.20		NA	0.68	0.74	0.78	0.85	0.88	0.91	0.94	0.96
0.00	0.00	0.00	NA	0.66	0.71	0.75	0.81	0.85	0.87	0.90	0.92

Rating:93W 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 = 2.00
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	NA	0.62	0.53	0.45	0.35	0.28	0.24	0.19	0.15	
	0.30		NA	0.53	0.46	0.40	0.31	0.26	0.22	0.17	0.14	
	0.20		NA	0.47	0.41	0.36	0.29	0.24	0.21	0.16	0.14	
0.50	0.50	0.20	NA	0.59	0.50	0.43	0.33	0.30	0.23	0.17	0.14	
	0.30		NA	0.52	0.44	0.38	0.30	0.25	0.21	0.16	0.13	
	0.20		NA	0.46	0.40	0.35	0.28	0.23	0.20	0.16	0.13	
0.30	0.50	0.20	NA	0.57	0.48	0.41	0.31	0.25	0.21	0.16	0.13	
	0.30		NA	0.50	0.43	0.37	0.28	0.23	0.20	0.15	0.13	
	0.20		NA	0.45	0.39	0.34	0.26	0.22	0.19	0.15	0.12	
0.00	0.00	0.00	0.99	0.33	0.28	0.24	0.18	0.15	0.12	0.09	0.08	

Rating:93W 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 = 2.00								
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	NA	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		NA	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		NA	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18
0.50	0.50	0.20	NA	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.21
	0.30		NA	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		NA	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17
0.30	0.50	0.20	NA	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20
	0.30		NA	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18
	0.20		NA	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Rating:93W 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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Test Lab:
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Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
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