OOO "FAROS"
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Report No.:

Test Time: 05.03.2020 11:56

Luminaire Property

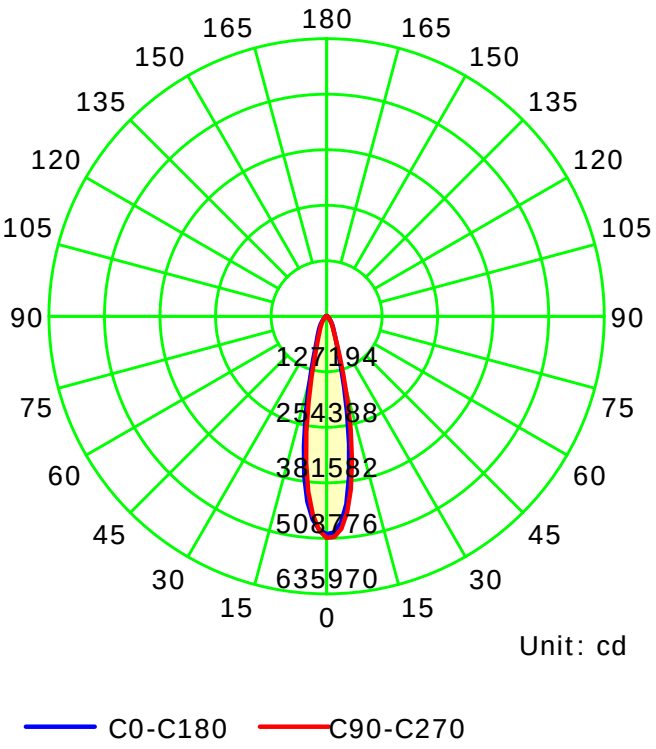
Luminaire Manufacturer:
Luminaire Description: FG 100 36LED 1000W 5000K 20gr. DALI
Luminous Length (mm): 345
Luminous Width (mm): 565
Luminous Height (mm): 695
Voltage: 229.2 V
Current: 4.423 A
Power: 998.56 W
Power Factor: 0.985

Photometric Results

CIE Class: Direct
Total Rated Lamp Lumens: 148997.7 lm
Measurement Flux: 148997.7 lm
Efficiency: 100%
Downward Ratio: 96%
Upward Ratio: 4%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 47.6, 44.7, 49.9, 48.7
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 22.8, 22.8, 23.3, 22.4
Luminaire Efficacy Rating (LER): 149.26
Central Intensity: 499025 cd
Max. Intensity: 508776.22 cd
Pos of Max. Intensity: H135 V0
S/MH(C0/C180): 0.39
S/MH(C90/C270): 0.39

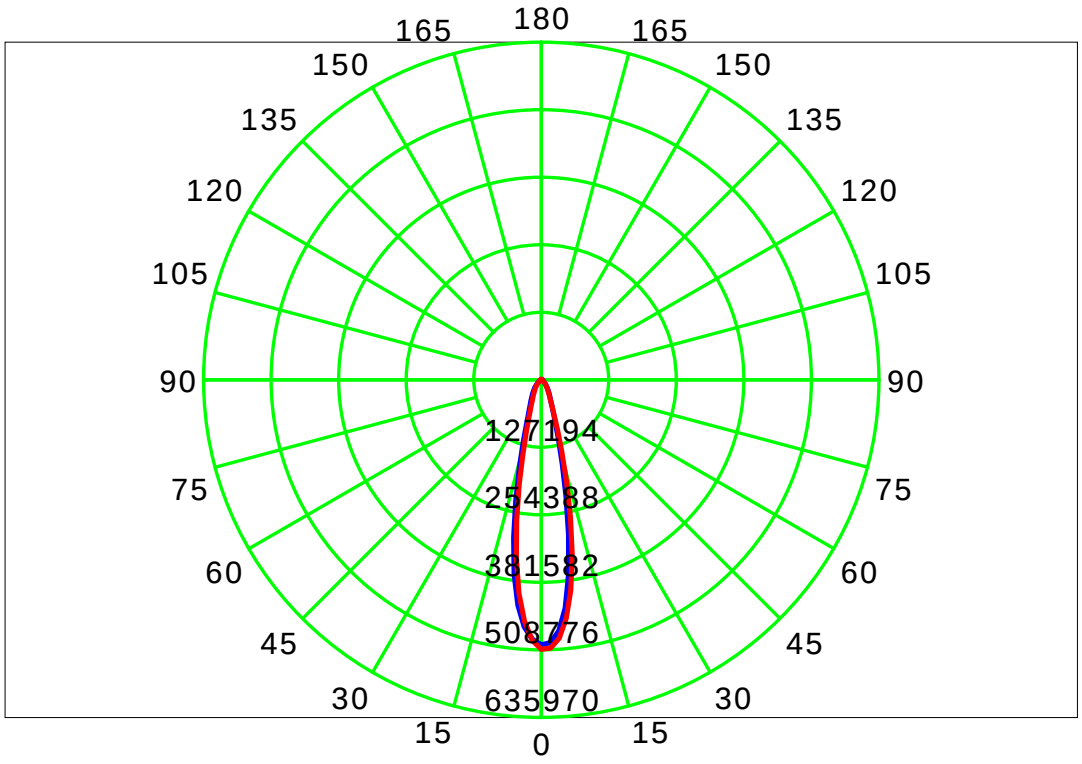
Picture Of Luminaire

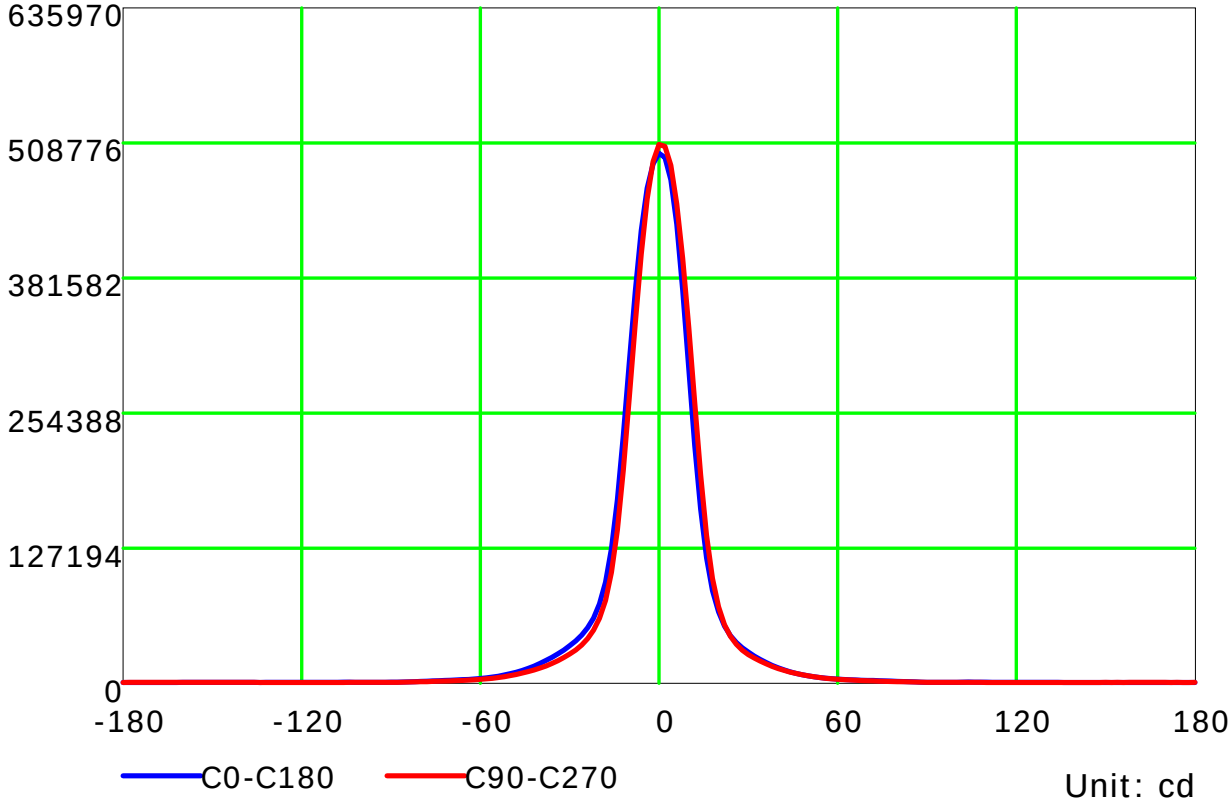
Luminous Intensity Distribution Curve



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: 12.677 m
Temperature:
Humidity:
Operator:
Inspector:

Luminous Intensity Distribution Curve

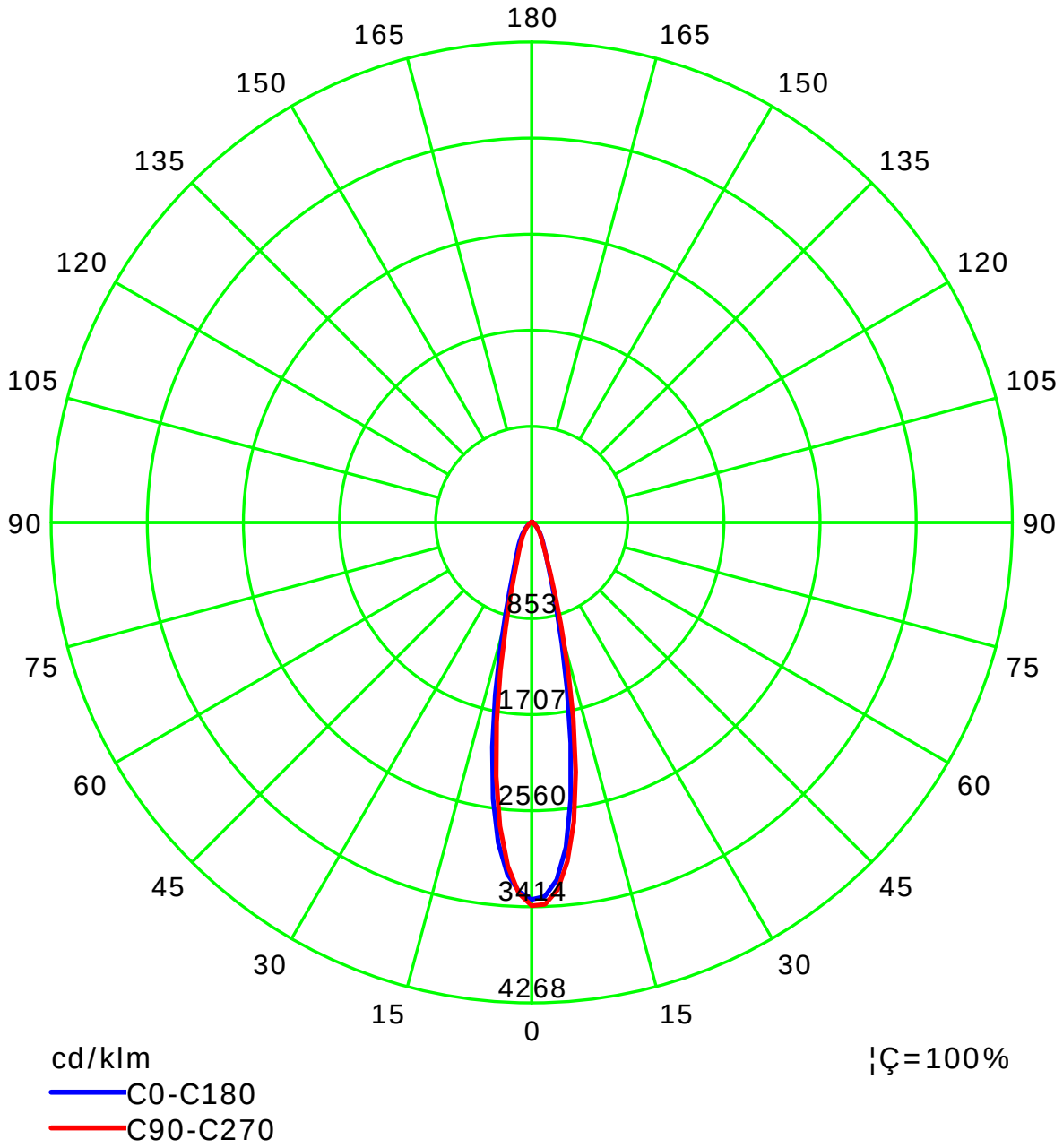




C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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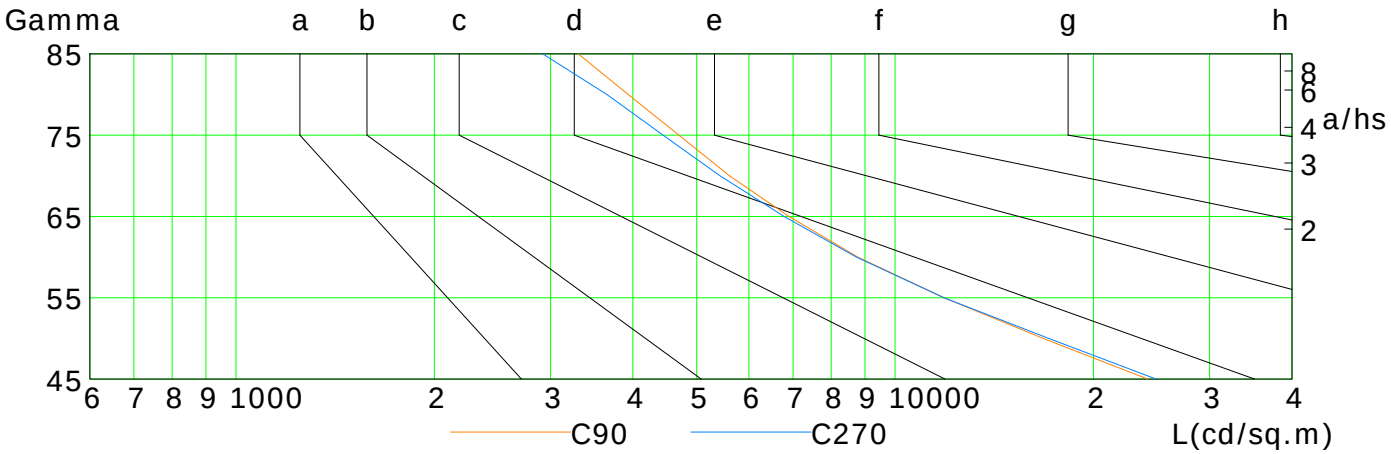
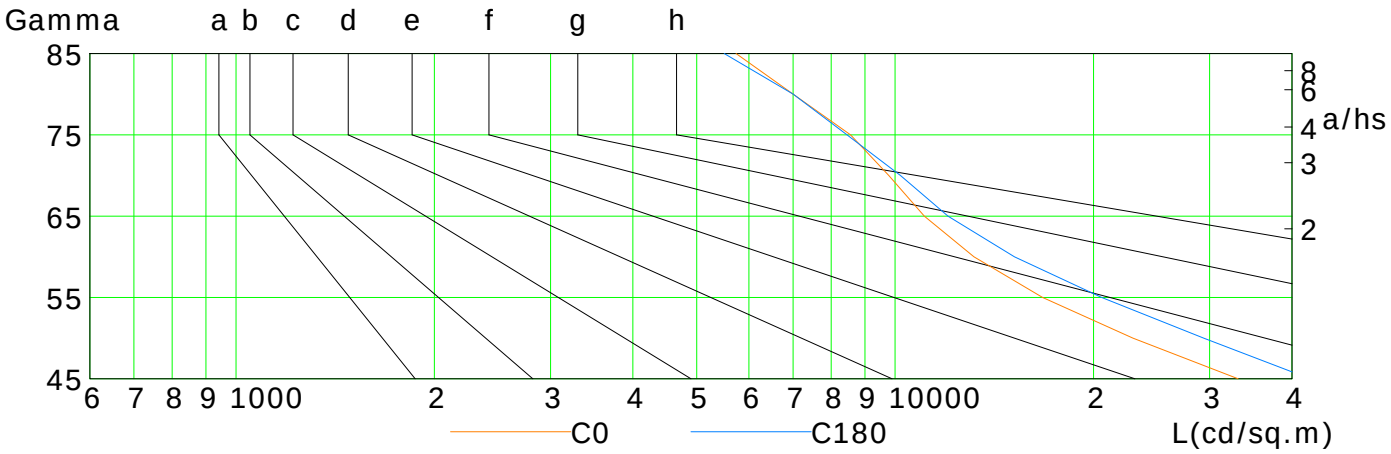
Lum Limit Curve

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	33134	22953	16746	13171	11076	9783	8556	7005	5736
C90	24180	16782	11861	8780	6900	5607	4699	3935	3306
C180	42619	29392	20580	15173	12029	10188	8451	7005	5505
C270	24891	17106	11861	8735	6787	5426	4446	3654	2920

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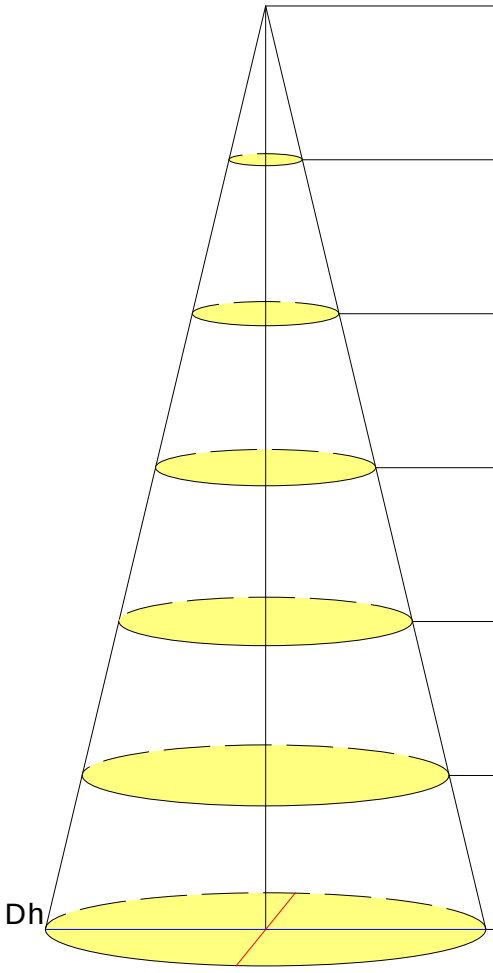
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
5.0	19961.00	2.02/2.01	3.2	12877.56
10.0	4990.25	4.04/4.02	12.8	3219.39
15.0	2217.89	6.06/6.04	28.9	1430.84
20.0	1247.56	8.07/8.05	51.4	804.85
25.0	798.44	10.09/10.06	80.3	515.10
30.0	554.47	12.11/12.07	115.6	357.71

Beam Angle(B): H22.8 V22.8 Field Angle(F): H47.6 V44.7

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: 12.677 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	18.9	19.7	19.2	19.9	20.2	18.6	19.4	18.9	19.7	19.9
3H	19.3	20.1	19.7	20.4	20.7	18.9	19.6	19.2	19.9	20.2
4H	19.6	20.3	20.0	20.6	21.0	19.0	19.7	19.4	20.0	20.4
6H	19.9	20.5	20.3	20.9	21.3	19.1	19.8	19.5	20.1	20.5
8H	20.0	20.6	20.4	21.0	21.4	19.2	19.8	19.6	20.2	20.6
12H	20.1	20.7	20.5	21.1	21.5	19.3	19.9	19.7	20.2	20.6
X=4H Y=2H	19.0	19.7	19.4	20.0	20.4	18.8	19.5	19.1	19.8	20.1
3H	19.6	20.2	20.1	20.6	21.0	19.2	19.8	19.6	20.2	20.6
4H	20.0	20.5	20.4	20.9	21.4	19.4	20.0	19.9	20.4	20.8
6H	20.4	20.8	20.8	21.3	21.7	19.6	20.1	20.1	20.6	21.0
8H	20.5	21.0	21.0	21.4	21.9	19.7	20.2	20.2	20.6	21.1
12H	20.7	21.1	21.2	21.6	22.1	19.8	20.2	20.3	20.7	21.2
X=8H Y=4H	20.0	20.5	20.5	20.9	21.4	19.5	20.0	20.0	20.4	20.9
6H	20.5	20.9	21.0	21.4	21.9	19.8	20.2	20.4	20.7	21.2
8H	20.7	21.1	21.3	21.6	22.1	20.0	20.3	20.5	20.8	21.4
12H	21.0	21.3	21.5	21.8	22.4	20.2	20.5	20.7	21.0	21.6
X=12H Y=4H	20.0	20.4	20.5	20.9	21.4	19.5	19.9	20.0	20.4	20.9
6H	20.5	20.8	21.0	21.3	21.9	19.9	20.2	20.4	20.7	21.2
8H	20.8	21.1	21.3	21.6	22.2	20.1	20.3	20.6	20.9	21.5
Variations with the observer position at spacings:										
S=1.0H	+1.0/-1.2					+1.1/-1.4				
S=1.5H	+2.2/-1.9					+2.0/-2.4				
S=2.0H	+3.6/-2.5					+3.4/-3.1				

Calculate in accordance with CIE Pub.117. The table is revised with 148998lm (8log(F/F0) = 17.4).

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: 12.677 m
Humidity:
Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.50								
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	0.87	0.92	0.95	1.00	1.03	1.05	1.08	1.10
	0.30		0.76	0.82	0.87	0.91	0.96	0.99	1.02	1.05	1.07
	0.20		0.72	0.79	0.84	0.87	0.93	0.96	0.99	1.03	1.05
0.50	0.50	0.20	0.79	0.85	0.89	0.92	0.96	0.99	1.01	1.03	1.05
	0.30		0.75	0.81	0.85	0.89	0.93	0.96	0.98	1.01	1.03
	0.20		0.71	0.78	0.82	0.86	0.90	0.94	0.96	0.99	1.01
0.30	0.50	0.20	0.78	0.83	0.87	0.90	0.93	0.95	0.97	0.99	1.00
	0.30		0.74	0.80	0.84	0.87	0.91	0.93	0.95	0.97	0.99
	0.20		0.71	0.77	0.81	0.84	0.88	0.91	0.93	0.96	0.98
0.00	0.00	0.00	0.69	0.74	0.78	0.81	0.84	0.87	0.88	0.91	0.92

Rating:999W 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: 12.677 m
Humidity:
Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 0.50								
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	0.65	0.53	0.45	0.39	0.31	0.26	0.22	0.17	0.14
	0.30		0.54	0.46	0.39	0.35	0.28	0.24	0.21	0.16	0.14
	0.20		0.46	0.40	0.35	0.31	0.26	0.22	0.19	0.15	0.13
0.50	0.50	0.20	0.61	0.50	0.42	0.36	0.29	0.28	0.20	0.16	0.13
	0.30		0.52	0.43	0.37	0.33	0.26	0.22	0.19	0.15	0.12
	0.20		0.45	0.38	0.33	0.30	0.24	0.21	0.18	0.14	0.12
0.30	0.50	0.20	0.58	0.47	0.39	0.34	0.27	0.22	0.19	0.15	0.12
	0.30		0.50	0.41	0.35	0.31	0.25	0.21	0.18	0.14	0.11
	0.20		0.43	0.37	0.32	0.28	0.23	0.19	0.17	0.13	0.11
0.00	0.00	0.00	0.30	0.24	0.20	0.18	0.14	0.12	0.10	0.08	0.06

Rating:999W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 0.50								
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	0.21	0.22	0.23	0.24	0.25	0.25
	0.30		0.13	0.15	0.16	0.17	0.19	0.20	0.21	0.23	0.23
	0.20		0.10	0.11	0.13	0.14	0.16	0.18	0.19	0.21	0.22
0.50	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.23	0.24
	0.30		0.13	0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.23
	0.20		0.10	0.11	0.13	0.14	0.16	0.18	0.19	0.20	0.21
0.30	0.50	0.20	0.16	0.18	0.19	0.19	0.21	0.21	0.22	0.23	0.23
	0.30		0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.21	0.22
	0.20		0.09	0.11	0.13	0.14	0.16	0.17	0.18	0.20	0.20
0.00	0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04

Rating:999W 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: 12.677 m
Humidity:
Inspector: