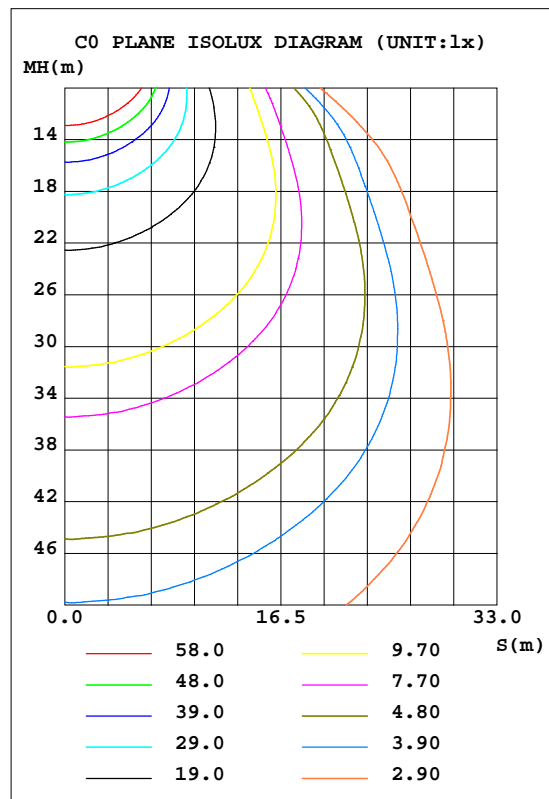
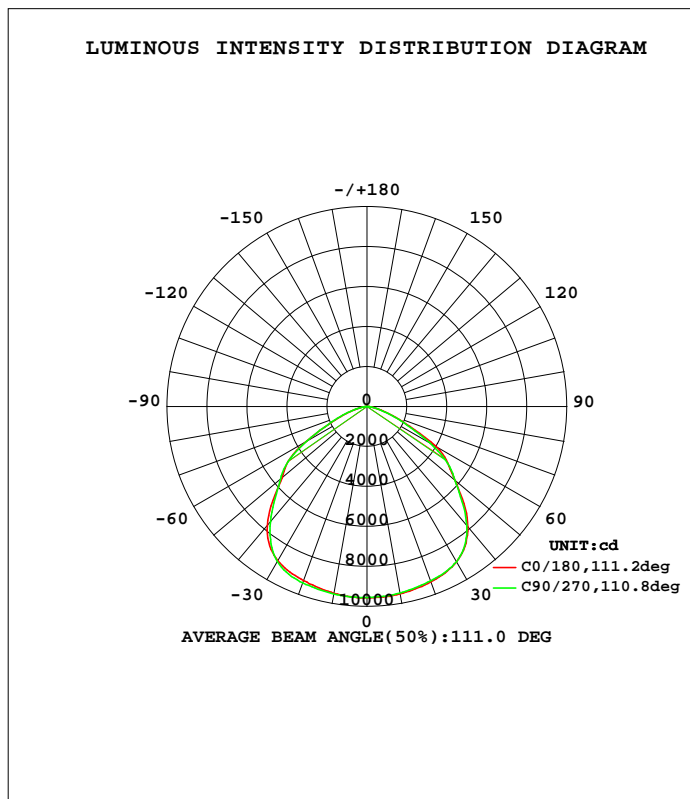


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.5V I:0.7060A P:149.3W PF:0.9590 Lamp Flux:25689.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 172.07 lm/W			
MODEL		I _{max} (cd)	9583	S/MH(C0/180)	1.38
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.38
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	25689	h UP, DN(C0-180)	0.0, 50.4
NOMINAL FLUX(lm)	25689.4	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0, 49.6
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.4	h down(%)	100.0	CIBSE SHR MAX	1.35



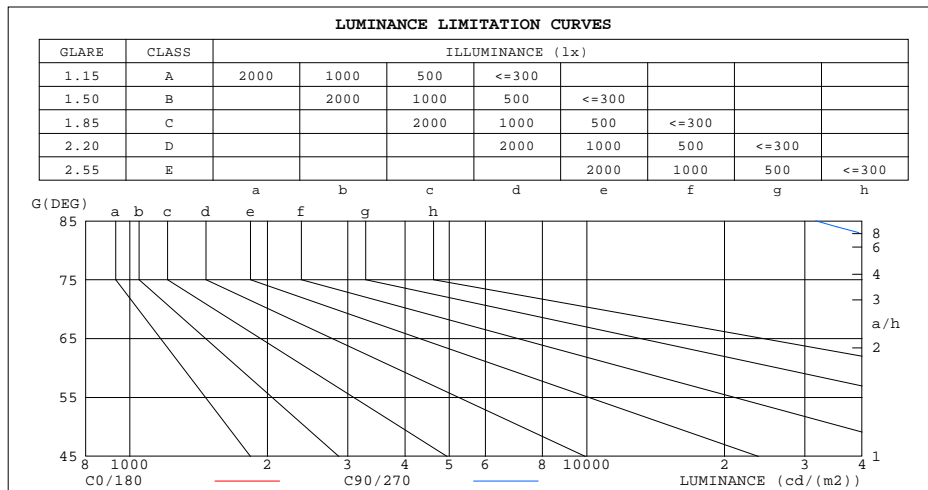
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-03-02

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.281
 Humidity:65.0%
 Test Distance:8.280m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	9513	9499	9478	9490	9493	9498	9528	9543	0- 10	910.3	910.3	3.54,3.54
20	9341	9316	9287	9317	9265	9337	9396	9427	10- 20	2669	3579	13.9,13.9
30	8977	8968	8964	8978	8920	8940	8960	8994	20- 30	4250	7829	30.5,30.5
40	7853	7803	7778	7637	7750	7542	7513	7576	30- 40	5266	13095	51,51
50	5759	5771	5757	5795	5554	5593	5658	5836	40- 50	5139	18234	71,71
60	3962	3812	3604	3338	3535	3412	3484	3562	50- 60	4287	22521	87.7,87.7
70	1391	1407	1336	1259	1246	1249	1300	1385	60- 70	2269	24791	96.5,96.5
80	328.3	329.7	309.0	286.2	270.9	276.6	303.0	332.6	70- 80	774.6	25566	99.5,99.5
90	9.633	9.081	6.950	5.616	5.538	5.426	6.795	9.995	80- 90	123.8	25689	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



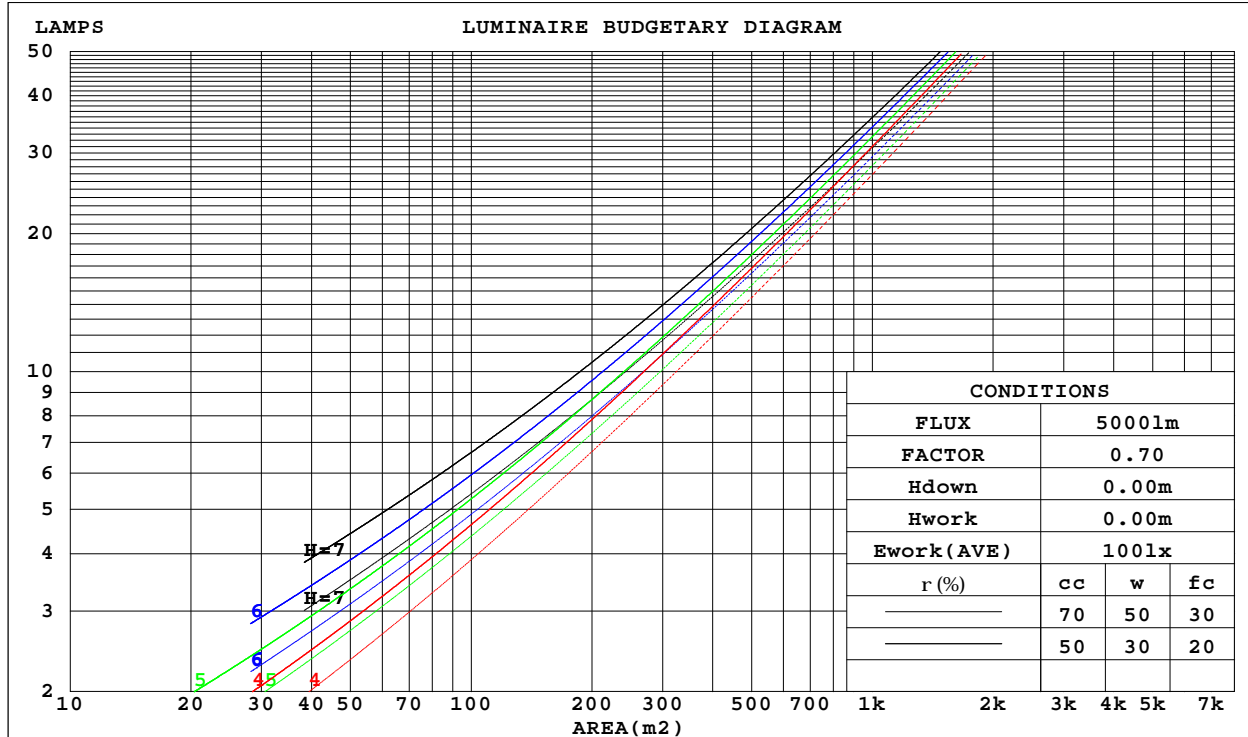
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-03-02

g Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:8.280m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.5V I:0.7060A P:149.3W PF:0.9590 Lamp Flux:25689.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.06	1.02	.99	1.04	1.01	.97	.90	.97	.94	.96	.94	.92	.92	.91	.89	.87
2.0	.94	.88	.83	.92	.86	.82	.88	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.83	.76	.70	.82	.75	.69	.79	.73	.68	.76	.71	.67	.73	.69	.66	.64
4.0	.74	.66	.60	.73	.65	.59	.70	.64	.58	.68	.62	.58	.66	.61	.57	.55
5.0	.66	.58	.52	.65	.57	.51	.63	.56	.51	.61	.55	.50	.60	.54	.50	.48
6.0	.60	.51	.45	.59	.51	.45	.57	.50	.45	.56	.49	.44	.54	.48	.44	.42
7.0	.54	.46	.40	.54	.46	.40	.52	.45	.40	.51	.44	.39	.49	.44	.39	.37
8.0	.50	.41	.36	.49	.41	.36	.48	.41	.35	.46	.40	.35	.45	.39	.35	.33
9.0	.46	.38	.32	.45	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.30
10.0	.42	.34	.29	.41	.34	.29	.40	.34	.29	.40	.33	.29	.39	.33	.29	.27



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-03-02

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.281
 Humidity:65.0%
 Test Distance:8.280m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.5V I:0.7060A P:149.3W PF:0.9590 Lamp Flux:25689.4x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.:			SERIAL No.:		
MFR.:			SUR.:			PROTECTION ANGLE:		

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.267	.152	.048	.260	.148	.047	.247	.142	.045	.235	.135	.043	.224	.130	.042	
2.0	.260	.142	.044	.253	.140	.043	.242	.135	.042	.232	.130	.041	.222	.125	.040	
3.0	.246	.131	.039	.240	.129	.039	.230	.125	.038	.221	.121	.037	.212	.118	.036	
4.0	.231	.120	.035	.226	.118	.035	.217	.115	.034	.209	.112	.034	.201	.109	.033	
5.0	.216	.110	.032	.212	.109	.032	.204	.106	.031	.197	.104	.031	.190	.101	.030	
6.0	.203	.102	.029	.199	.100	.029	.192	.098	.029	.185	.096	.028	.179	.094	.028	
7.0	.190	.094	.027	.187	.093	.027	.180	.091	.026	.174	.089	.026	.169	.088	.026	
8.0	.179	.087	.025	.176	.086	.024	.170	.085	.024	.165	.083	.024	.160	.082	.024	
9.0	.168	.081	.023	.166	.081	.023	.160	.079	.022	.156	.078	.022	.151	.077	.022	
10.0	.159	.076	.021	.156	.076	.021	.152	.074	.021	.147	.073	.021	.143	.072	.021	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.168	.132	.102	.144	.114	.088	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.160	.114	.078	.137	.098	.067	.094	.068	.047	.054	.040	.028	.017	.013	.009	
4.0	.152	.101	.061	.131	.087	.053	.090	.061	.037	.052	.035	.022	.017	.012	.007	
5.0	.145	.090	.049	.125	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.138	.082	.041	.119	.071	.035	.082	.049	.025	.048	.029	.015	.015	.010	.005	
7.0	.132	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.126	.069	.030	.108	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.120	.064	.026	.104	.055	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.036	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-03-02

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.281
 Humidity:65.0%
 Test Distance:8.280m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:220.5V I:0.7060A P:149.3W PF:0.9590 Lamp Flux:25689.4x1 lm										
NAME:					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:			PROTECTION ANGLE:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working 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	32.2	33.6	32.5	33.8	34.0	32.0	33.4	32.3	33.6	33.8
3H	32.8	34.1	33.0	34.3	34.5	32.5	33.9	32.8	34.1	34.3
4H	32.8	34.1	33.2	34.3	34.6	32.6	33.9	32.9	34.1	34.4
6H	32.8	34.0	33.2	34.3	34.6	32.6	33.8	33.0	34.1	34.3
8H	32.8	33.9	33.2	34.2	34.5	32.6	33.7	32.9	34.0	34.3
12H	32.8	33.9	33.1	34.2	34.4	32.6	33.6	32.9	33.9	34.2
4H 2H	32.5	33.8	32.8	34.0	34.2	32.3	33.6	32.6	33.8	34.1
3H	33.2	34.2	33.5	34.5	34.8	33.0	34.1	33.3	34.4	34.7
4H	33.3	34.3	33.7	34.6	34.9	33.1	34.1	33.5	34.4	34.8
6H	33.4	34.2	33.8	34.6	34.9	33.2	34.0	33.6	34.4	34.8
8H	33.4	34.2	33.8	34.5	34.9	33.2	34.0	33.6	34.3	34.7
12H	33.3	34.1	33.8	34.4	34.8	33.2	33.9	33.6	34.3	34.7
8H 4H	33.3	34.1	33.7	34.5	34.9	33.2	33.9	33.6	34.3	34.7
6H	33.4	34.1	33.9	34.5	34.9	33.2	33.9	33.7	34.3	34.7
8H	33.4	34.0	33.9	34.4	34.9	33.3	33.8	33.7	34.3	34.7
12H	33.4	33.9	33.9	34.4	34.8	33.2	33.7	33.7	34.2	34.7
12H 4H	33.3	34.0	33.7	34.4	34.8	33.1	33.8	33.5	34.2	34.6
6H	33.4	34.0	33.8	34.4	34.8	33.2	33.8	33.7	34.2	34.7
8H	33.4	33.9	33.9	34.4	34.8	33.2	33.7	33.7	34.2	34.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.5				
1.5H	+ 0.5 / - 0.6					+ 0.5 / - 0.6				
2.0H	+ 0.5 / - 1.0					+ 0.7 / - 1.0				

CIE Pub.117 Corrected 25689 lm Total Lamp Luminous Flux.(8log(F/F0) = 11.3)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-03-02

g Range: 0 - 90DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.281
 Humidity:65.0%
 Test Distance:8.280m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.5V I:0.7060A P:149.3W PF:0.9590 Lamp Flux:25689.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

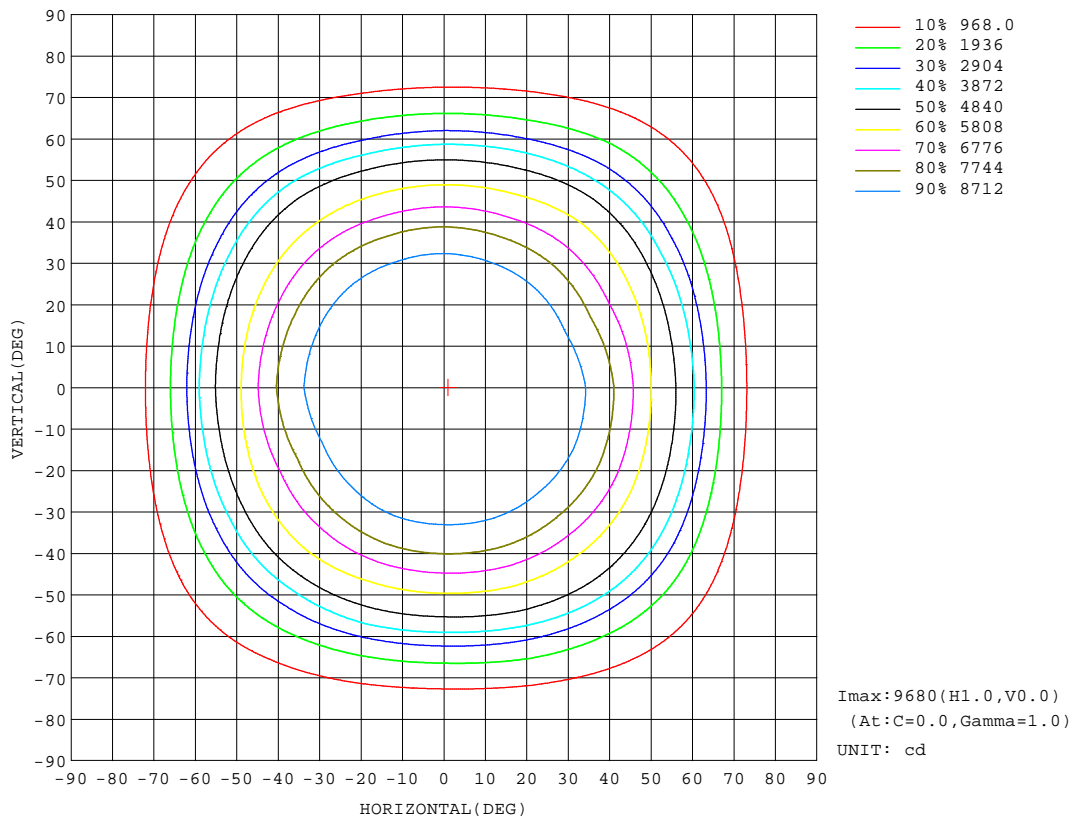
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	61	49	43	60	49	43	59	49	43	36
0.80	71	60	53	70	60	53	68	59	53	46
1.00	80	70	63	79	69	63	77	70	62	56
1.25	87	78	71	86	77	71	83	76	70	63
1.50	92	83	77	90	82	76	87	81	75	68
2.00	98	91	85	97	90	84	93	88	83	76
2.50	102	95	90	100	94	89	96	91	87	79
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	99	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	104	101	98	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-03-02

g Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.281
 Humidity:65.0%
 Test Distance:8.280m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.5V I:0.7060A P:149.3W PF:0.9590 Lamp Flux:25689.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



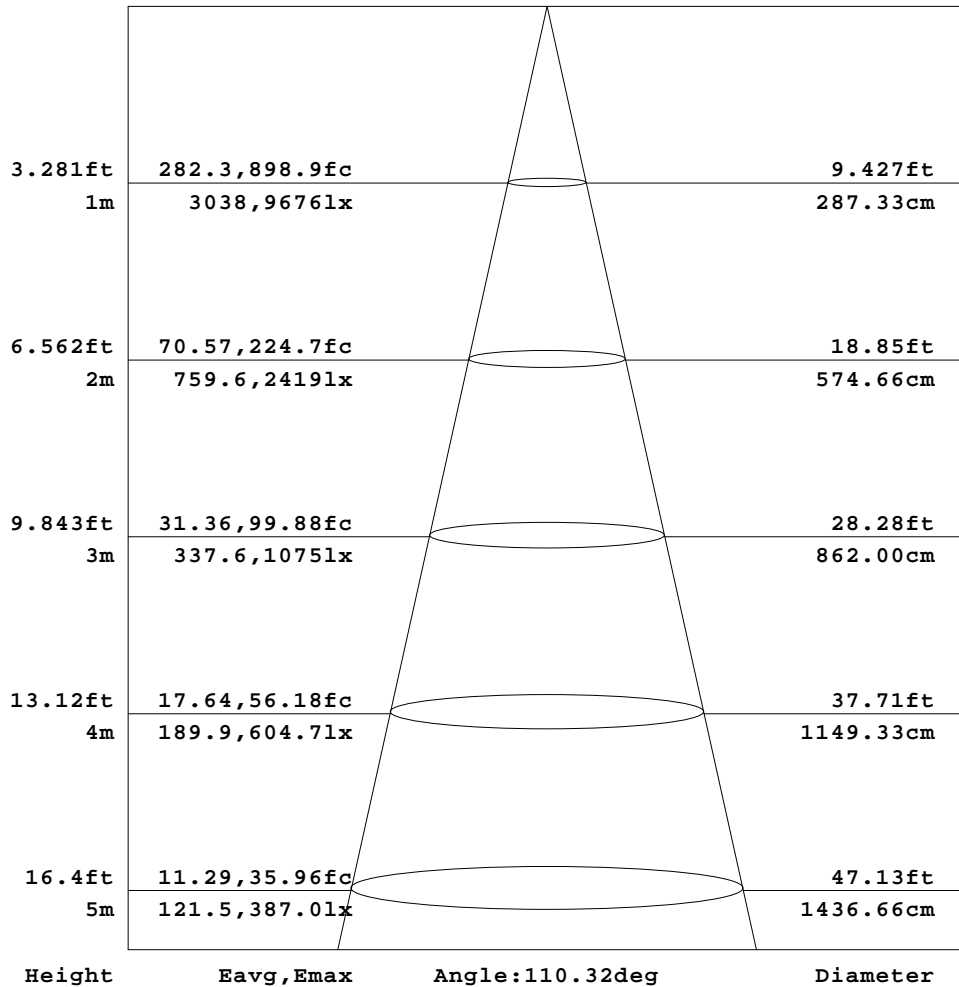
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-03-02

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.281
 Humidity:65.0%
 Test Distance:8.280m [K=1.0000]
 Remarks:

AAI Figure

Test:U:220.5V I:0.7060A P:149.3W PF:0.9590 Lamp Flux:25689.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:20981 lm



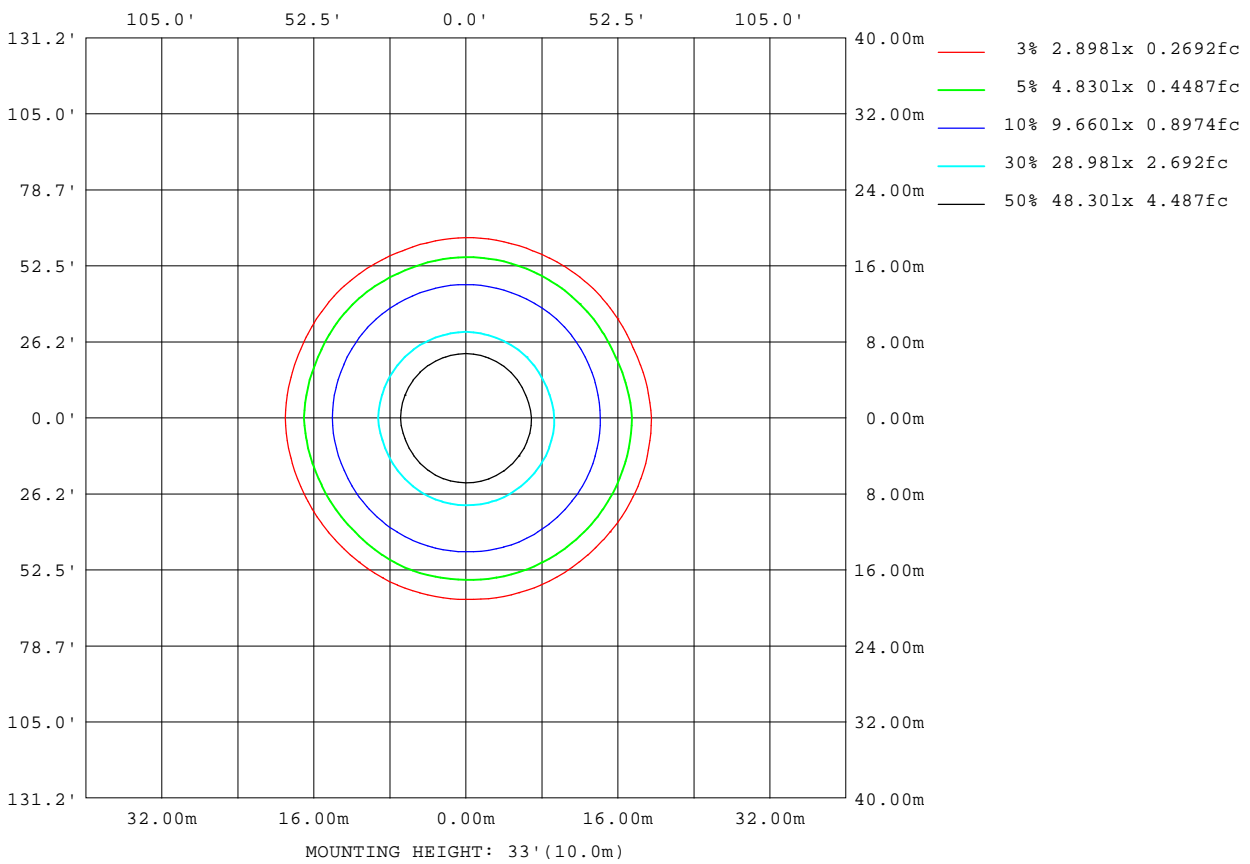
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-03-02

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.281
 Humidity:65.0%
 Test Distance:8.280m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

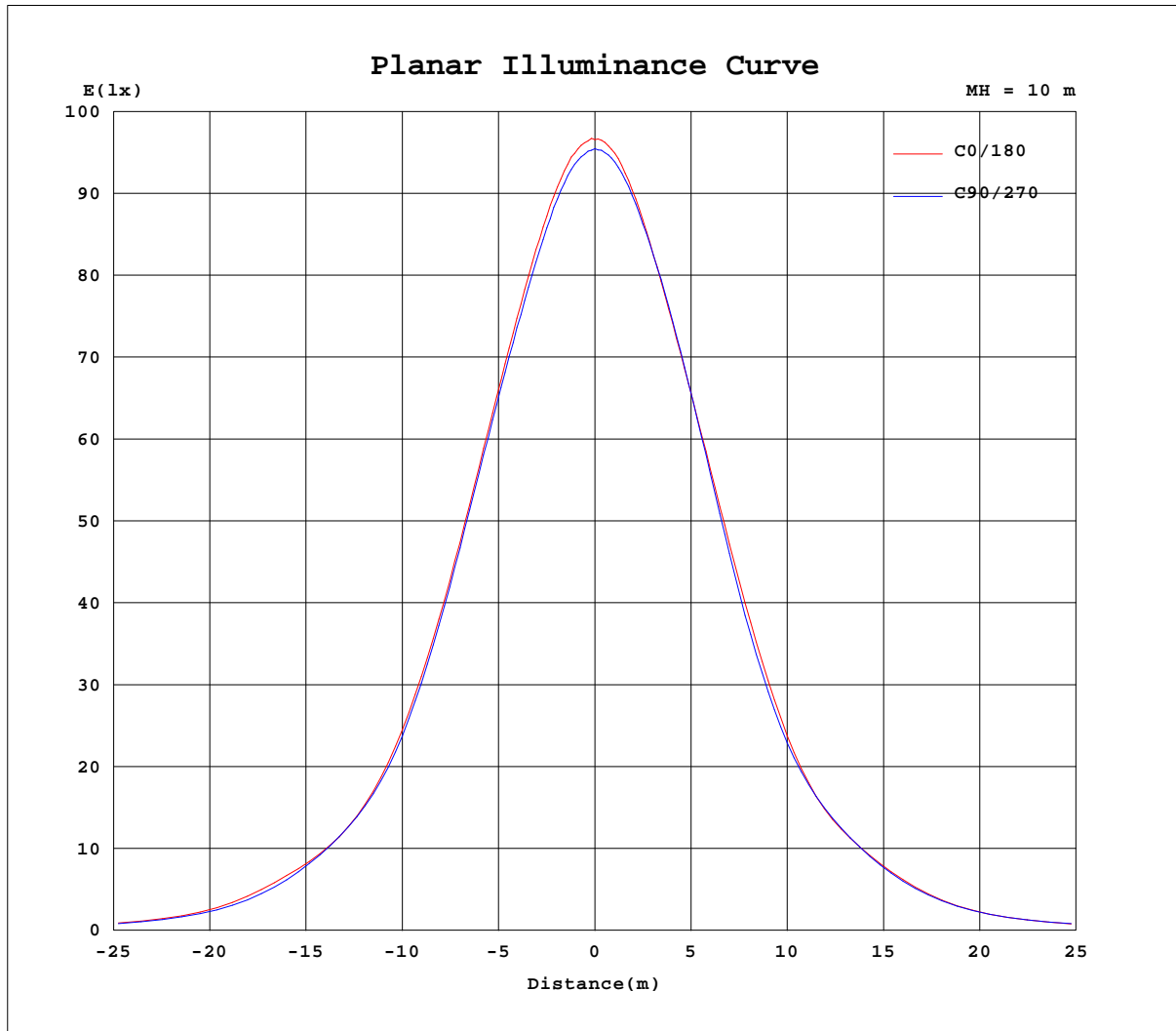
Test:U:220.5V I:0.7060A P:149.3W PF:0.9590 Lamp Flux:25689.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
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Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.281
 Humidity: 65.0%
 Test Distance: 8.280m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024-03-02

Page Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.281
 Humidity: 65.0%
 Test Distance: 8.280m [K=1.0000]
 Remarks:

