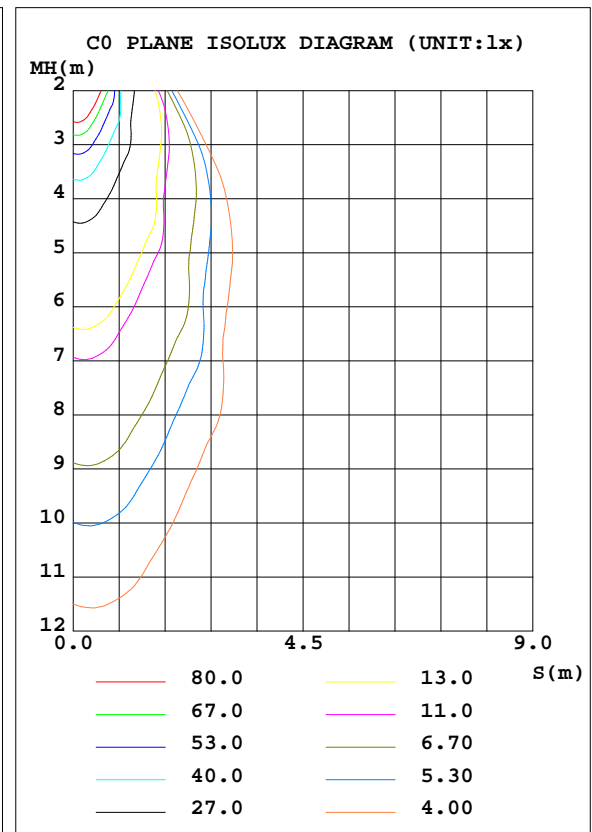
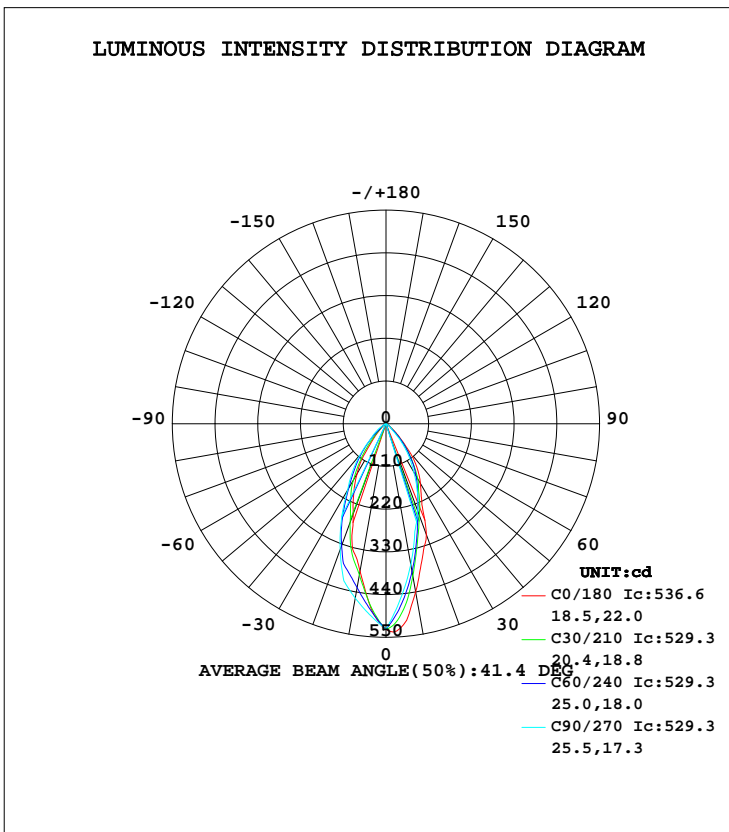


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:11.94V I:0.4488A P:3.512W PF:0.6556 Lamp Flux:235x1 lm		
NAME: 489999	TYPE:489999	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.59 lm/W			
MODEL	489999	I <sub>max</sub> (cd)	536.6	S/MH(C0/180)	0.61
NOMINAL POWER(W)	3.5	LOR(%)	120.5	S/MH(C90/270)	0.78
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	361.36	η UP, DN(C0-180)	0.0,53.0
NOMINAL FLUX(lm)	300	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,67.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	12	η down(%)	120.5	CIBSE SHR MAX	0.70



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:20DEG  
 Operators:Y  
 Test Date:2024-04-15

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:8.750m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	#lum, lamp
5	519.8	474.4	448.6	442.6	470.8	472.7	492.6	505.3	0- 5	11.88	11.88	3.29,3.96
10	439.8	391.8	367.8	348.6	385.7	411.1	455.9	449.9	5- 10	31.26	43.13	11.9,14.4
15	360.5	305.1	287.1	277.6	333.4	366.8	419.1	385.1	10- 15	43.78	86.91	24.1,29
20	304.1	239.6	239.0	223.9	247.3	316.7	345.4	352.6	15- 20	50.74	137.7	38.1,45.9
25	218.0	194.0	191.0	177.6	196.4	233.5	271.6	262.3	20- 25	51.58	189.2	52.4,63.1
30	177.0	154.1	142.9	132.3	150.0	175.8	197.9	193.2	25- 30	48.29	237.5	65.7,79.2
35	140.3	111.4	103.5	85.44	101.5	125.0	150.4	152.2	30- 35	42.39	279.9	77.5,93.3
40	94.60	68.22	64.08	45.95	50.52	74.62	102.9	114.1	35- 40	33.21	313.1	86.7,104
45	49.87	40.55	24.67	27.20	24.91	43.13	55.46	72.03	40- 45	21.87	335.0	92.7,112
50	24.53	21.39	17.38	13.32	12.81	22.26	38.83	37.01	45- 50	12.36	347.4	96.1,116
55	12.36	7.844	10.09	4.902	5.645	9.084	22.21	14.34	50- 55	7.041	354.4	98.1,118
60	5.134	4.562	2.802	3.041	2.838	5.156	5.588	8.320	55- 60	3.685	358.1	99.1,119
65	2.614	2.181	1.978	1.643	1.585	2.530	3.980	4.001	60- 65	1.649	359.7	99.5,120
70	1.439	1.024	1.154	0.7767	0.8521	1.206	2.372	1.757	65- 70	0.9294	360.7	99.8,120
75	0.7143	0.5474	0.3306	0.3444	0.3371	0.6106	0.7641	0.9911	70- 75	0.5020	361.2	99.9,120
80	0.2320	0.1339	0	0	0.0004	0.1091	0	0.3366	75- 80	0.1778	361.3	100,120
85	0	0	0	0	0	0	0	0	80- 85	0.0189	361.4	100,120
90	0	0	0	0	0	0	0	0	85- 90	0.0001	361.4	100,120
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

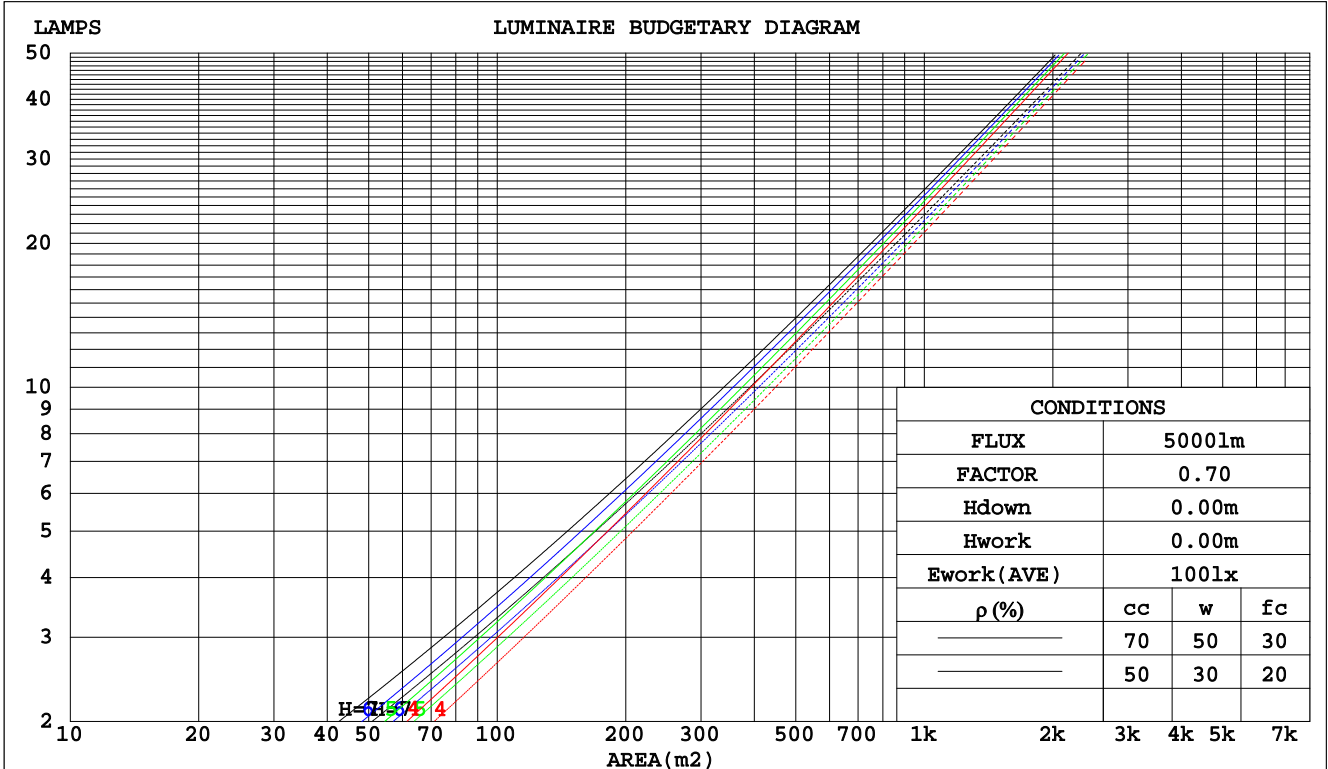
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:Y  
Test Date:2024-04-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:11.94V I:0.4488A P:3.512W PF:0.6556 Lamp Flux:235x1 lm		
NAME: 489999	TYPE:489999	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.43	1.43	1.43	1.40	1.40	1.40	1.34	1.34	1.34	1.28	1.28	1.28	1.23	1.23	1.23	1.20
1.0	1.33	1.30	1.27	1.30	1.28	1.25	1.26	1.23	1.21	1.21	1.19	1.18	1.17	1.16	1.14	1.12
2.0	1.23	1.18	1.14	1.21	1.17	1.13	1.17	1.14	1.10	1.14	1.11	1.08	1.10	1.08	1.06	1.04
3.0	1.15	1.08	1.03	1.13	1.07	1.03	1.10	1.05	1.01	1.07	1.03	.99	1.04	1.01	.98	.96
4.0	1.07	.90	.94	1.05	.99	.94	1.03	.97	.93	1.00	.96	.92	.98	.94	.91	.89
5.0	.90	.92	.87	.98	.92	.87	.96	.90	.86	.94	.89	.85	.92	.88	.84	.82
6.0	.93	.86	.80	.92	.85	.80	.90	.84	.80	.89	.83	.79	.87	.82	.79	.77
7.0	.87	.80	.75	.87	.80	.75	.85	.79	.74	.84	.78	.74	.82	.77	.73	.72
8.0	.82	.75	.70	.82	.75	.70	.80	.74	.69	.79	.73	.69	.78	.73	.69	.67
9.0	.78	.70	.65	.77	.70	.65	.76	.70	.65	.75	.69	.65	.74	.69	.65	.63
10.0	.73	.66	.62	.73	.66	.61	.72	.66	.61	.71	.65	.61	.70	.65	.61	.59



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:Y  
Test Date:2024-04-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:

**WEC AND CCEC**

Test:U:11.94V I:0.4488A P:3.512W PF:0.6556 Lamp Flux:235x1 lm														
NAME: 489999					TYPE:489999					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.:					SUR.:					PROTECTION ANGLE:				

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.221	.126	.040	.213	.122	.039	.198	.114	.036	.184	.106	.034	.171	.099	.032	
2.0	.213	.117	.036	.207	.114	.035	.194	.108	.033	.182	.102	.032	.171	.097	.030	
3.0	.204	.108	.032	.198	.106	.032	.187	.101	.031	.177	.097	.030	.167	.093	.029	
4.0	.194	.101	.030	.189	.099	.029	.180	.095	.028	.171	.092	.028	.163	.088	.027	
5.0	.185	.094	.027	.181	.093	.027	.172	.090	.026	.164	.087	.026	.157	.084	.025	
6.0	.176	.088	.025	.172	.087	.025	.165	.085	.025	.158	.082	.024	.152	.080	.024	
7.0	.168	.083	.024	.165	.082	.023	.158	.080	.023	.152	.078	.023	.146	.076	.022	
8.0	.161	.078	.022	.157	.078	.022	.152	.076	.022	.146	.074	.021	.141	.072	.021	
9.0	.154	.074	.021	.151	.073	.021	.146	.072	.020	.141	.070	.020	.136	.069	.020	
10.0	.147	.070	.020	.144	.070	.019	.140	.068	.019	.135	.067	.019	.131	.066	.019	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.229	.229	.229	.196	.196	.196	.134	.134	.134	.077	.077	.077	.025	.025	.025	
1.0	.207	.189	.174	.177	.163	.150	.121	.112	.103	.070	.065	.060	.022	.021	.019	
2.0	.189	.160	.135	.162	.137	.117	.111	.095	.081	.064	.055	.048	.021	.018	.016	
3.0	.175	.137	.107	.150	.118	.092	.103	.082	.065	.059	.048	.038	.019	.016	.013	
4.0	.163	.119	.086	.140	.103	.075	.096	.072	.053	.056	.042	.031	.018	.014	.010	
5.0	.153	.105	.071	.131	.091	.061	.090	.064	.043	.052	.037	.026	.017	.012	.008	
6.0	.144	.094	.059	.124	.082	.051	.085	.057	.036	.049	.034	.022	.016	.011	.007	
7.0	.136	.085	.050	.117	.074	.043	.081	.052	.031	.047	.031	.018	.015	.010	.006	
8.0	.129	.078	.043	.111	.068	.037	.077	.047	.026	.045	.028	.016	.014	.009	.005	
9.0	.123	.072	.037	.106	.062	.032	.073	.044	.023	.043	.026	.014	.014	.008	.005	
10.0	.118	.066	.032	.101	.058	.028	.070	.041	.020	.041	.024	.012	.013	.008	.004	

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:Y  
Test Date:2024-04-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:11.94V I:0.4488A P:3.512W PF:0.6556 Lamp Flux:235x1 lm										
NAME: 489999					TYPE:489999			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	4.0	4.9	4.2	5.1	5.3	3.1	4.1	3.4	4.3	4.5
3H	3.8	4.7	4.1	4.9	5.1	3.0	3.9	3.2	4.1	4.3
4H	3.7	4.6	4.0	4.8	5.0	2.9	3.8	3.2	4.0	4.2
6H	3.6	4.4	3.9	4.7	4.9	2.8	3.6	3.1	3.9	4.1
8H	3.6	4.4	3.9	4.6	4.9	2.8	3.5	3.1	3.8	4.1
12H	3.6	4.3	3.9	4.6	4.8	2.7	3.5	3.0	3.7	4.0
4H 2H	3.7	4.6	4.0	4.8	5.0	2.9	3.8	3.2	4.0	4.2
3H	3.6	4.3	3.9	4.6	4.9	2.8	3.5	3.1	3.8	4.1
4H	3.5	4.2	3.9	4.5	4.8	2.7	3.4	3.0	3.7	4.0
6H	3.4	4.0	3.8	4.3	4.7	2.6	3.2	3.0	3.5	3.9
8H	3.4	3.9	3.8	4.3	4.6	2.5	3.1	2.9	3.4	3.8
12H	3.3	3.8	3.7	4.2	4.6	2.5	3.0	2.9	3.4	3.8
8H 4H	3.4	3.9	3.8	4.3	4.6	2.5	3.1	2.9	3.4	3.8
6H	3.3	3.7	3.7	4.1	4.5	2.4	2.9	2.9	3.3	3.7
8H	3.2	3.6	3.7	4.0	4.5	2.4	2.8	2.8	3.2	3.6
12H	3.2	3.5	3.6	3.9	4.4	2.3	2.7	2.8	3.1	3.6
12H 4H	3.3	3.8	3.7	4.2	4.6	2.5	3.0	2.9	3.4	3.8
6H	3.2	3.6	3.7	4.0	4.5	2.4	2.8	2.8	3.2	3.6
8H	3.2	3.5	3.6	3.9	4.4	2.3	2.7	2.8	3.1	3.6
Variations with the observer position at spacings:										
S = 1.0H	+ 3.1 / - 8.2					+ 2.3 / - 7.5				
1.5H	+ 4.6 / - 6.3					+ 3.9 / - 5.0				
2.0H	+ 6.2 / - 8.2					+ 3.7 / - 8.0				

CIE Pub.117 Corrected 300.0 lm Total Lamp Luminous Flux. (8log(F/F0) = -4.2)

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:Y  
Test Date:2024-04-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:11.94V I:0.4488A P:3.512W PF:0.6556 Lamp Flux:235x1 lm		
NAME: 489999	TYPE:489999	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

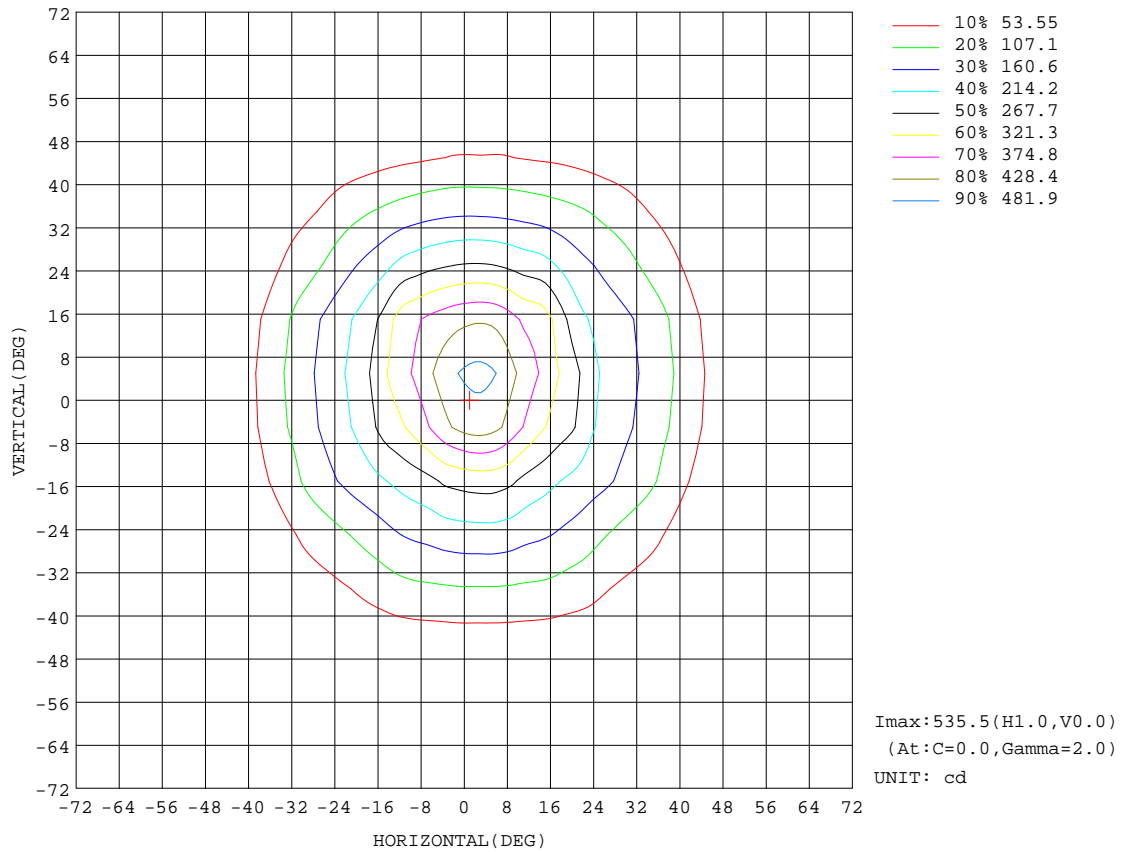
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	100	91	86	99	91	86	98	91	86	81
0.80	110	102	97	109	101	97	107	101	96	91
1.00	116	109	104	115	108	104	113	108	103	98
1.25	122	115	110	121	114	110	118	113	109	103
1.50	125	119	115	124	118	114	121	116	113	107
2.00	129	124	120	128	123	119	124	120	117	111
2.50	132	127	123	130	125	122	126	122	119	112
3.00	134	129	126	131	128	124	127	124	122	114
4.00	136	133	130	134	131	128	129	127	125	116
5.00	138	135	132	135	133	130	130	128	127	117
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:20DEG  
 Operators:Y  
 Test Date:2024-04-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:8.750m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:11.94V I:0.4488A P:3.512W PF:0.6556 Lamp Flux:235x1 lm		
NAME: 489999	TYPE:489999	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

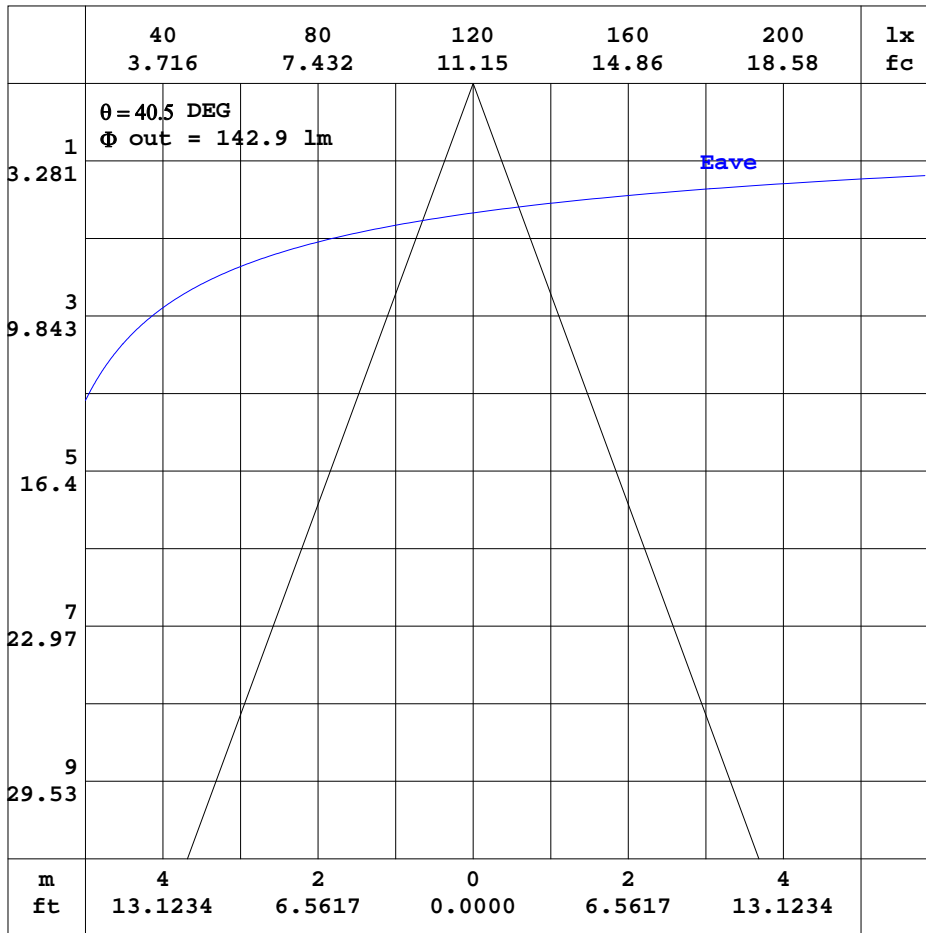


C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:20DEG  
 Operators:Y  
 Test Date:2024-04-15

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:8.750m [K=1.0000]  
 Remarks:

**AAI CURVES**

Test:U:11.94V I:0.4488A P:3.512W PF:0.6556 Lamp Flux:235x1 lm		
NAME: 489999	TYPE:489999	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



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

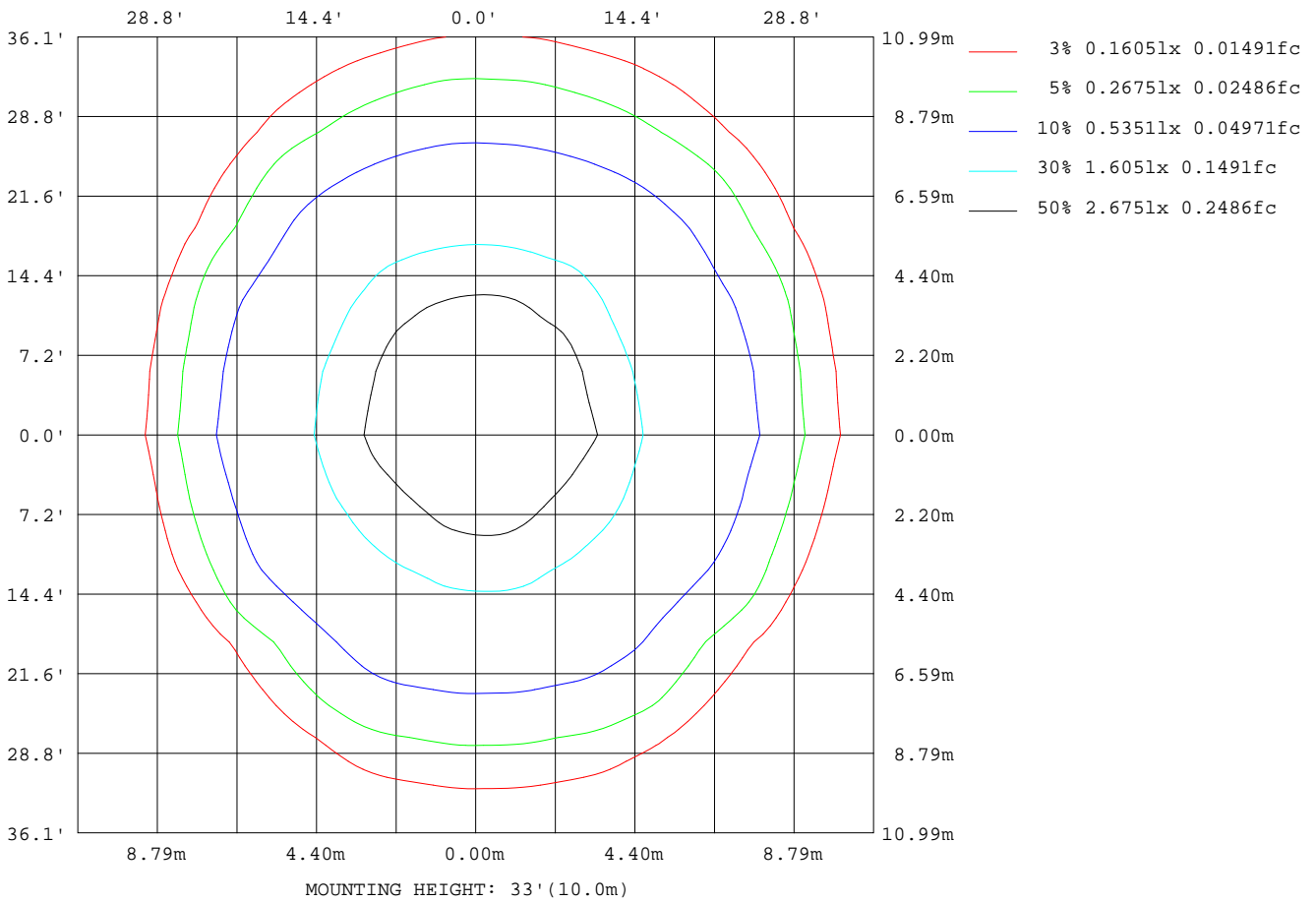
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:Y  
Test Date:2024-04-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:



**ISOLUX DIAGRAM**

Test:U:11.94V I:0.4488A P:3.512W PF:0.6556 Lamp Flux:235x1 lm		
NAME: 489999	TYPE:489999	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:Y  
Test Date:2024-04-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:

**LED Avg.L Report**

Test:U:11.94V I:0.4488A P:3.512W PF:0.6556 Lamp Flux:235x1 lm		
NAME: 489999	TYPE:489999	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

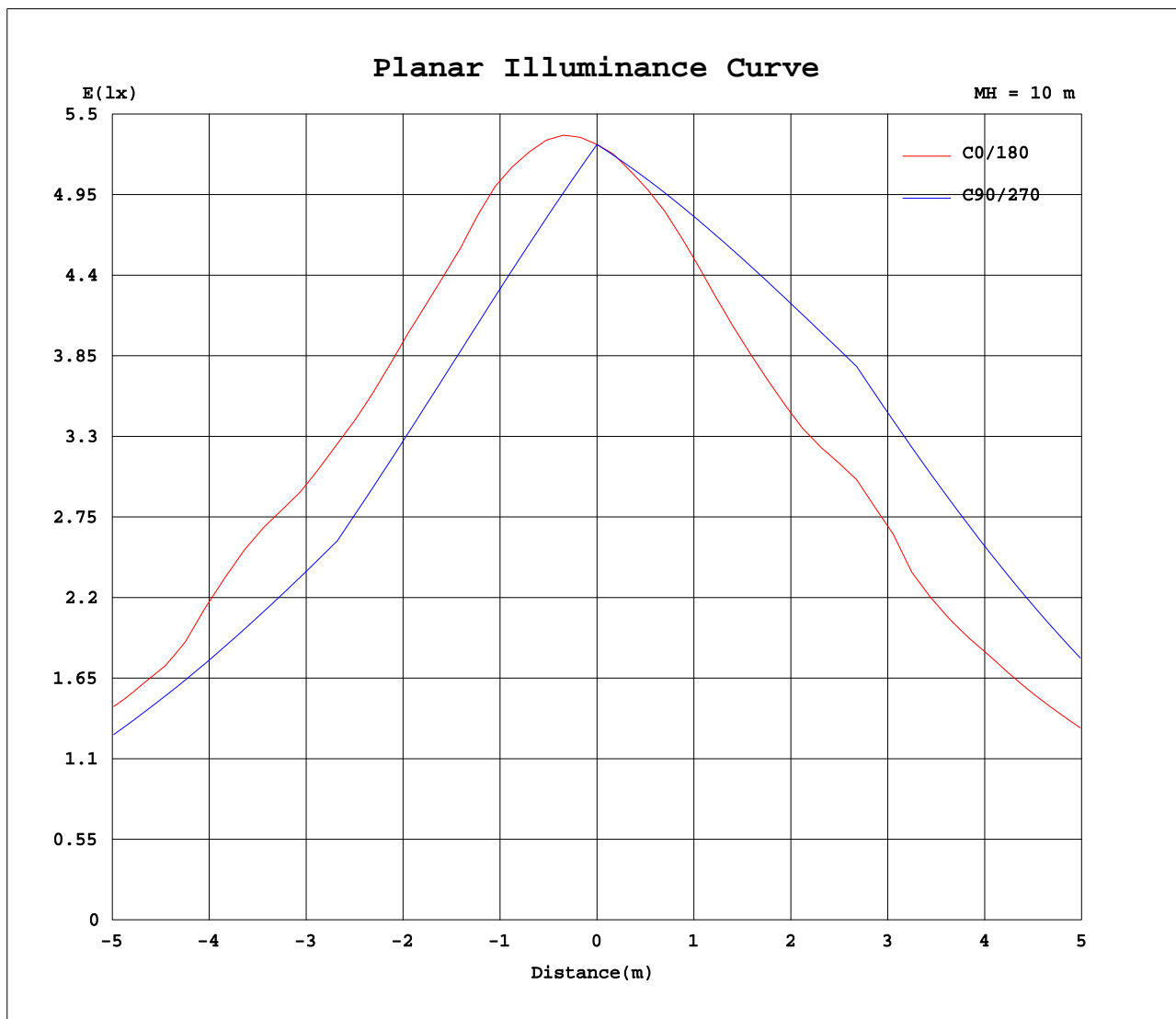
AvgL	cd/m2
L_0~180(65)av	25
L_0~180(75)av	10
L_0~180(85)av	0
L_90~270(65)av	35
L_90~270(75)av	11
L_90~270(85)av	0
L_45(65)av	31
L_45(75)av	12
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:Y  
Test Date:2024-04-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 20DEG  
 Operators: Y  
 Test Date: 2024-04-15

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 8.750m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:11.94V I:0.4488A P:3.512W PF:0.6556 Lamp Flux:235x1 lm		
NAME: 489999	TYPE:489999	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG)\γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529
5	520	513	507	501	496	491	486	482	478	474	471	468	465	462	459	456	453	451	449
10	440	430	421	414	407	402	398	395	393	392	390	389	387	384	381	378	374	371	368
15	361	350	340	332	324	318	314	310	307	305	305	307	306	305	303	299	294	290	287
20	304	292	282	274	266	258	251	247	243	240	237	237	240	246	246	247	244	241	239
25	218	212	207	204	203	203	202	198	196	194	194	194	193	193	197	197	195	192	191
30	177	171	167	165	164	166	163	157	155	154	154	155	155	152	150	149	146	143	143
35	140	134	131	130	130	126	119	114	112	111	115	116	117	115	110	108	106	104	103
40	94.6	87.2	82.8	80.4	81.2	82.9	79.3	73.3	68.4	68.2	73.6	78.4	77.3	76.5	72.8	68.9	66.9	64.8	64.1
45	49.9	46.0	44.3	43.9	42.8	41.8	40.8	38.2	39.4	40.6	42.1	43.7	42.4	38.4	34.9	30.7	27.7	25.6	24.7
50	24.5	22.7	21.9	21.6	21.4	21.0	19.2	20.3	21.7	21.4	19.6	16.7	15.6	15.7	16.9	17.5	17.6	17.6	17.4
55	12.4	11.3	11.1	10.6	10.3	9.93	10.2	9.85	9.06	7.84	8.61	9.18	10.0	10.0	10.2	10.5	10.4	10.2	10.1
60	5.13	4.85	4.75	4.77	4.36	4.76	4.75	3.62	3.81	4.56	5.03	5.05	4.97	4.64	4.11	3.72	3.24	2.91	2.80
65	2.61	2.54	2.49	2.37	2.39	2.29	2.14	2.18	2.17	2.18	2.09	1.72	1.74	1.80	1.86	1.92	1.96	1.97	1.98
70	1.44	1.42	1.40	1.37	1.33	1.26	1.24	1.12	0.96	1.02	1.07	1.12	1.13	1.14	1.15	1.15	1.17	1.16	1.15
75	0.71	0.72	0.72	0.69	0.67	0.59	0.58	0.58	0.54	0.55	0.55	0.55	0.53	0.49	0.46	0.41	0.38	0.34	0.33
80	0.23	0.22	0.28	0.21	0.25	0.23	0.23	0.19	0.15	0.13	0.12	0.11	0.09	0.06	0.04	0.02	0.01	0.00	0.00
85	0.00	0.00	0.00	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:Y  
Test Date:2024-04-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:11.94V I:0.4488A P:3.512W PF:0.6556 Lamp Flux:235x1 lm		
NAME: 489999	TYPE:489999	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--2 UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529
5	447	445	444	442	441	441	441	442	443	444	446	447	450	453	456	460	465	471	469
10	365	362	360	359	358	355	352	350	349	349	350	352	356	360	365	371	378	386	385
15	285	284	284	281	276	274	274	276	278	280	282	286	292	298	306	314	323	333	330
20	237	235	231	225	223	223	223	223	224	227	229	230	229	230	233	236	241	247	246
25	190	188	184	182	182	181	179	177	178	180	185	185	184	184	184	187	191	196	195
30	143	142	142	144	142	138	133	132	132	134	137	142	143	141	140	141	144	150	148
35	103	102	104	105	102	94.5	87.9	85.2	85.4	88.0	91.5	94.6	94.2	89.9	88.7	90.6	94.7	102	98.5
40	63.7	63.9	65.9	66.4	63.3	59.9	55.0	50.1	46.0	48.2	49.6	48.7	48.4	48.6	47.4	46.7	47.6	50.5	49.6
45	24.6	25.7	28.1	30.1	31.3	31.7	30.5	28.8	27.2	24.2	21.7	24.0	24.7	23.9	23.6	23.1	23.5	24.9	24.7
50	16.9	16.2	15.6	14.2	13.4	12.4	12.3	13.6	13.3	12.5	12.1	11.5	11.7	11.9	12.1	11.9	12.0	12.8	12.6
55	9.86	9.68	9.42	8.80	8.54	7.88	6.92	5.87	4.90	5.83	6.23	5.93	5.11	5.50	5.56	5.36	5.37	5.65	5.70
60	2.94	3.25	3.56	3.84	4.12	4.12	3.87	3.39	3.04	2.82	2.68	2.86	2.79	2.70	2.74	2.72	2.69	2.84	2.85
65	1.99	1.99	1.92	1.85	1.78	1.67	1.54	1.60	1.64	1.64	1.60	1.51	1.51	1.52	1.48	1.46	1.46	1.58	1.60
70	1.15	1.15	1.11	1.08	1.05	1.00	0.93	0.83	0.78	0.77	0.83	0.82	0.79	0.75	0.75	0.74	0.74	0.85	0.82
75	0.32	0.31	0.32	0.33	0.35	0.36	0.36	0.33	0.34	0.38	0.37	0.35	0.33	0.28	0.27	0.27	0.26	0.34	0.30
80	0.00	0.01	0.02	0.02	0.03	0.04	0.03	0.01	0.00	0.02	0.07	0.10	0.08	0.03	0.02	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:20DEG  
 Operators:Y  
 Test Date:2024-04-15

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:8.750m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:11.94V I:0.4488A P:3.512W PF:0.6556 Lamp Flux:235x1 lm		
NAME: 489999	TYPE:489999	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529
5	468	467	467	468	468	470	471	473	475	477	479	481	483	486	489	490	493	495	497
10	385	387	389	391	395	400	405	411	417	423	429	434	439	444	449	453	456	459	462
15	329	329	331	336	342	351	360	367	373	380	389	396	402	407	412	416	419	423	425
20	247	249	254	260	271	281	294	317	332	338	335	335	336	338	340	343	345	349	351
25	196	198	202	208	215	225	229	234	240	255	265	266	266	267	268	270	272	273	275
30	149	152	157	164	169	169	172	176	181	186	193	198	198	198	197	197	198	198	200
35	99.0	103	112	117	115	115	118	125	133	138	140	142	144	147	148	150	150	150	151
40	51.0	54.3	58.9	61.8	66.4	69.7	70.4	74.6	85.2	92.6	95.1	96.5	97.9	99.0	100	102	103	103	105
45	25.7	28.5	30.1	31.3	32.3	34.4	38.6	43.1	47.3	52.3	53.7	53.4	53.3	52.7	53.0	55.1	55.5	56.2	59.0
50	13.2	14.1	14.4	15.2	15.7	17.6	20.2	22.3	22.7	21.1	21.9	25.2	29.4	32.5	35.0	37.9	38.8	39.1	39.7
55	6.26	6.64	6.72	7.32	8.20	8.60	8.93	9.08	10.7	12.0	13.5	15.3	17.5	19.2	20.2	21.7	22.2	22.6	23.1
60	3.02	3.10	3.19	3.44	3.82	3.61	4.11	5.16	6.02	6.55	6.77	6.95	6.87	6.51	5.92	5.62	5.59	5.97	6.84
65	1.68	1.75	1.77	1.82	1.88	2.10	2.31	2.53	2.54	2.27	2.55	2.77	3.04	3.32	3.53	3.82	3.98	4.08	4.13
70	0.90	0.94	0.92	0.98	1.07	1.13	1.09	1.21	1.34	1.44	1.61	1.74	1.89	2.04	2.13	2.29	2.37	2.47	2.51
75	0.37	0.36	0.40	0.47	0.47	0.54	0.56	0.61	0.65	0.68	0.74	0.77	0.78	0.79	0.74	0.78	0.76	0.86	0.90
80	0.00	0.05	0.08	0.15	0.14	0.10	0.08	0.11	0.12	0.12	0.12	0.11	0.07	0.05	0.02	0.01	0.00	0.01	0.03
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 20DEG  
Operators: Y  
Test Date: 2024-04-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 8.750m [K=1.0000]  
Remarks:

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:11.94V I:0.4488A P:3.512W PF:0.6556 Lamp Flux:235x1 lm		
NAME: 489999	TYPE:489999	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--4

UNIT: cd

C( DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	529	529	529	529	529	529	529	529	529	529	529	529	529	529	529				
5	499	500	502	503	504	505	505	506	507	508	509	511	512	515	517				
10	463	463	463	461	458	455	450	444	440	437	434	433	433	434	436				
15	425	424	419	411	401	392	385	381	378	374	369	365	361	360	359				
20	353	351	347	342	343	352	353	337	319	305	297	293	292	293	297				
25	276	274	272	277	282	275	262	249	237	230	225	219	216	215	216				
30	202	205	210	214	210	203	193	189	187	187	186	182	178	176	176				
35	152	153	156	157	160	157	152	149	148	149	151	150	144	140	139				
40	106	108	110	113	115	114	114	110	105	104	105	107	99.6	94.0	92.4				
45	60.0	62.7	66.5	69.2	71.0	72.5	72.0	66.8	61.8	60.8	58.6	56.4	55.0	50.8	49.1				
50	38.1	37.4	35.8	32.7	32.1	35.9	37.0	36.1	33.7	30.7	28.9	28.5	27.4	25.3	24.0				
55	22.7	22.9	22.1	20.2	18.2	16.0	14.3	16.1	16.1	14.7	13.6	13.3	12.7	12.5	12.0				
60	7.86	9.00	9.81	9.96	9.62	9.13	8.32	7.13	5.81	6.61	6.72	5.87	5.76	5.51	5.14				
65	4.04	3.85	3.67	3.43	3.18	3.73	4.00	3.68	3.21	2.95	3.05	2.92	2.76	2.69	2.62				
70	2.49	2.41	2.33	2.23	2.09	1.91	1.76	1.62	1.67	1.68	1.62	1.58	1.51	1.47	1.50				
75	0.97	1.00	1.04	1.11	1.11	1.04	0.99	0.94	0.87	0.81	0.82	0.81	0.79	0.74	0.77				
80	0.06	0.09	0.14	0.21	0.26	0.29	0.34	0.37	0.37	0.36	0.34	0.28	0.26	0.29	0.25				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00	0.00				
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:20DEG  
Operators:Y  
Test Date:2024-04-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks: