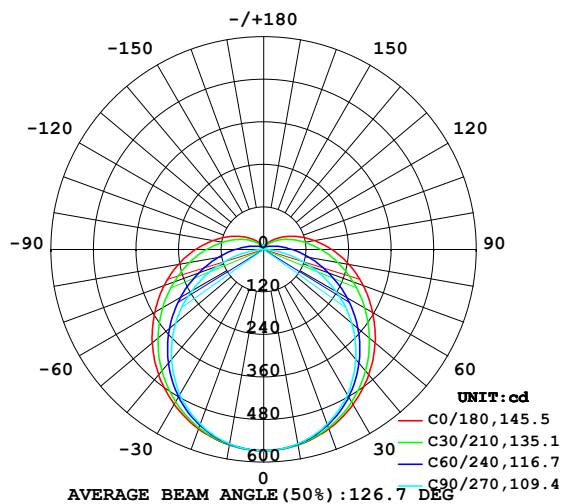


## LUMINAIRE PHOTOMETRIC TEST REPORT

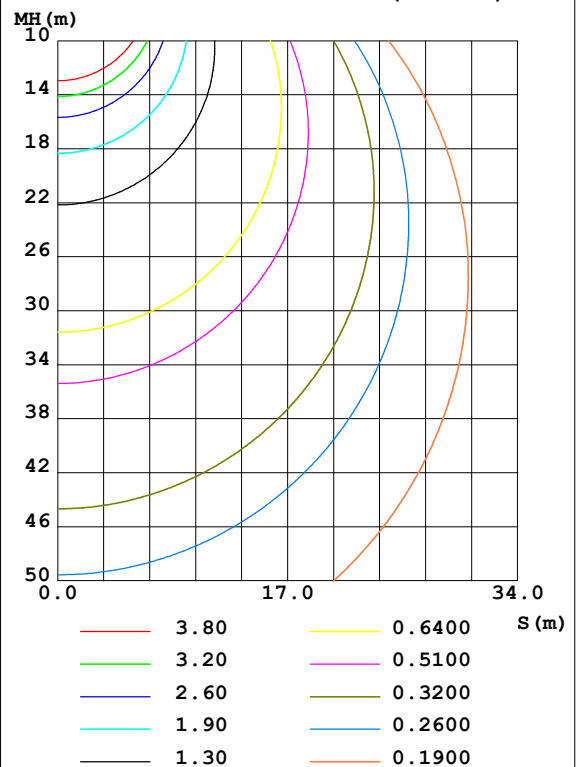
Test:U:230.6V I:0.2083A P:46.63W PF:0.9712 Freq:49.99Hz Lamp Flux:2254.89x1 lm		
NAME: TI60LP-LC-48-1500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: TUBI	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 48.36 lm/W			
MODEL		I <sub>max</sub> (cd)	567.6	S/MH (C0/180)	1.33
NOMINAL POWER (W)	48	LOR (%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	2254.9	η UP, DN (C0-180)	6.5, 43.5
NOMINAL FLUX (lm)	2254.89	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	6.5, 43.5
LAMPS INSIDE	1	η up (%)	12.9	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	230	η down (%)	87.1	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QC  
Test Date: 2022-03-23

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 53.0%  
Test Distance: 10.700m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	559.8	558.3	556.4	558.3	559.8	558.3	556.4	558.3	0- 10	53.73	53.73	2.38,2.38
20	538.3	531.3	524.2	531.3	538.3	531.3	524.2	531.3	10- 20	154.4	208.2	9.23,9.23
30	504.8	488.7	472.9	488.7	504.8	488.7	472.9	488.7	20- 30	236.1	444.3	19.7,19.7
40	461.3	432.2	404.5	432.2	461.3	432.2	404.5	432.2	30- 40	289.4	733.6	32.5,32.5
50	410.7	368.7	324.9	368.7	410.7	368.7	324.9	368.7	40- 50	310.2	1044	46.3,46.3
60	354.8	301.7	235.4	301.7	354.8	301.7	235.4	301.7	50- 60	299.3	1343	59.6,59.6
70	299.1	235.7	140.8	235.7	299.1	235.7	140.8	235.7	60- 70	261.8	1605	71.2,71.2
80	244.3	175.8	51.03	175.8	244.3	175.8	51.03	175.8	70- 80	207.6	1812	80.4,80.4
90	192.2	125.8	3.168	125.8	192.2	125.8	3.168	125.8	80- 90	150.7	1963	87.1,87.1
100	145.9	86.41	4.261	86.41	145.9	86.41	4.261	86.41	90-100	105.9	2069	91.8,91.8
110	106.3	57.37	5.479	57.37	106.3	57.37	5.479	57.37	100-110	72.30	2141	95,95
120	73.94	35.80	6.708	35.80	73.94	35.80	6.708	35.80	110-120	46.81	2188	97,97
130	49.03	23.60	7.942	23.60	49.03	23.60	7.942	23.60	120-130	28.84	2217	98.3,98.3
140	31.20	16.69	9.150	16.69	31.20	16.69	9.150	16.69	130-140	17.15	2234	99.1,99.1
150	19.55	13.18	10.26	13.18	19.55	13.18	10.26	13.18	140-150	10.12	2244	99.5,99.5
160	13.46	11.87	11.20	11.87	13.46	11.87	11.20	11.87	150-160	5.976	2250	99.8,99.8
170	11.99	11.89	11.92	11.89	11.99	11.89	11.92	11.89	160-170	3.385	2254	99.9,99.9
180	12.15	12.12	12.25	12.12	12.15	12.12	12.25	12.12	170-180	1.147	2255	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 888.19 lm

%lum = 39.4%

%lamp = 39.4%

Conical surface Flux(120deg): 1343.1 lm

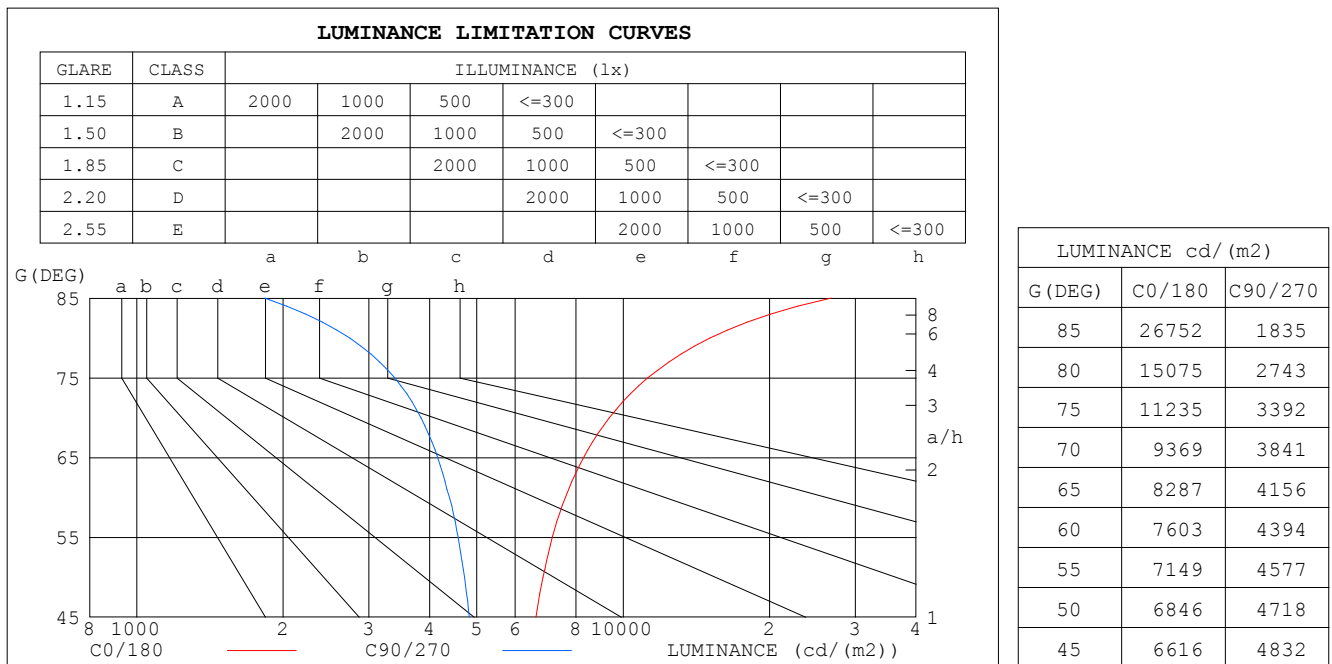
%lum = 59.6%

%lamp = 59.6%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QC  
 Test Date:2022-03-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:53.0%  
 Test Distance:10.700m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

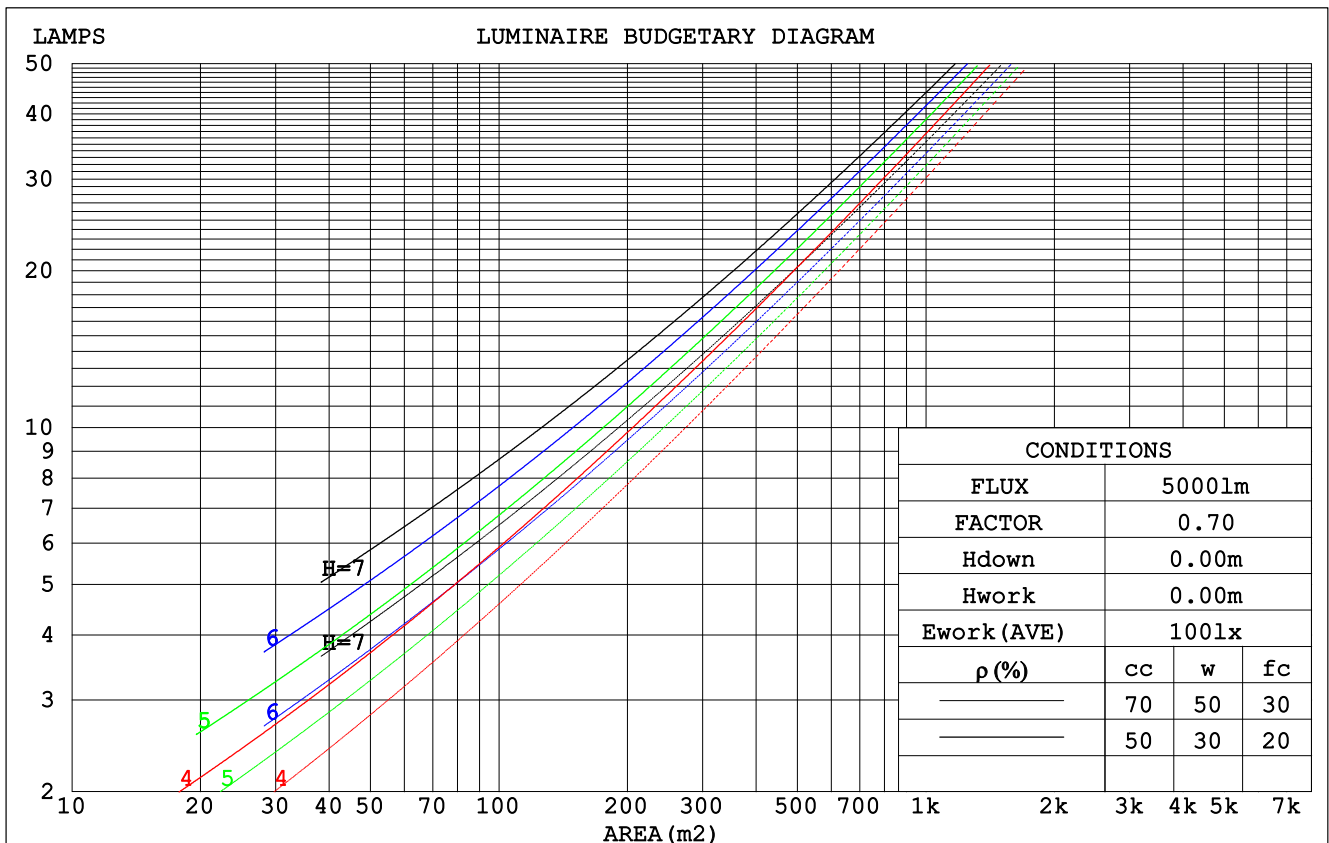


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QC  
Test Date: 2022-03-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 53.0%  
Test Distance: 10.700m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

pcc	80%			70%			50%			30%			10%			0
p <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.16	1.16	1.16	1.12	1.12	1.12	1.04	1.04	1.04	.97	.97	.97	.90	.90	.90	.87
1.0	.97	.92	.88	.94	.89	.85	.87	.83	.80	.81	.78	.75	.75	.73	.71	.67
2.0	.84	.76	.69	.81	.74	.68	.75	.69	.64	.70	.65	.61	.65	.61	.57	.54
3.0	.73	.64	.57	.70	.62	.55	.65	.58	.53	.61	.55	.50	.56	.52	.48	.45
4.0	.64	.55	.47	.62	.53	.46	.58	.50	.44	.54	.47	.42	.50	.45	.40	.38
5.0	.57	.47	.40	.55	.46	.40	.51	.44	.38	.48	.41	.36	.45	.39	.35	.32
6.0	.51	.42	.35	.49	.41	.34	.46	.39	.33	.43	.37	.32	.41	.35	.30	.28
7.0	.46	.37	.31	.45	.36	.30	.42	.34	.29	.39	.33	.28	.37	.31	.27	.25
8.0	.42	.33	.27	.41	.32	.27	.38	.31	.26	.36	.30	.25	.34	.28	.24	.22
9.0	.38	.30	.24	.37	.29	.24	.35	.28	.23	.33	.27	.22	.31	.26	.22	.20
10.0	.35	.27	.22	.34	.27	.22	.32	.26	.21	.31	.25	.20	.29	.23	.20	.18



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2022-03-23

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.700m [K=1.0000]  
 Remarks:

# WEC AND CCEC

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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.374	.213	.067	.363	.207	.066	.342	.196	.063	.323	.186	.060	.305	.177	.057	
2.0	.327	.179	.055	.317	.175	.054	.298	.166	.052	.281	.158	.049	.265	.150	.047	
3.0	.292	.156	.047	.283	.152	.046	.266	.144	.044	.251	.137	.042	.236	.131	.040	
4.0	.264	.137	.040	.256	.134	.040	.241	.128	.038	.227	.122	.037	.213	.116	.035	
5.0	.241	.123	.036	.233	.120	.035	.220	.114	.034	.207	.109	.032	.195	.104	.031	
6.0	.221	.111	.032	.214	.108	.031	.202	.103	.030	.190	.099	.029	.179	.094	.028	
7.0	.204	.101	.029	.198	.099	.028	.187	.094	.027	.176	.090	.026	.166	.086	.025	
8.0	.190	.093	.026	.184	.091	.026	.174	.087	.025	.164	.083	.024	.154	.079	.023	
9.0	.177	.086	.024	.172	.084	.023	.162	.080	.023	.153	.077	.022	.145	.073	.021	
10.0	.166	.079	.022	.161	.078	.022	.152	.075	.021	.144	.071	.020	.136	.068	.020	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.289	.289	.289	.247	.247	.247	.169	.169	.169	.097	.097	.097	.031	.031	.031	
1.0	.284	.255	.229	.243	.219	.197	.166	.151	.136	.096	.087	.079	.031	.028	.026	
2.0	.277	.232	.194	.237	.200	.167	.163	.138	.117	.094	.080	.068	.030	.026	.022	
3.0	.269	.215	.172	.231	.185	.149	.159	.129	.104	.092	.075	.062	.029	.024	.020	
4.0	.262	.202	.157	.224	.175	.136	.154	.122	.096	.089	.071	.057	.029	.023	.019	
5.0	.254	.192	.147	.218	.166	.128	.150	.116	.090	.087	.068	.054	.028	.022	.018	
6.0	.246	.184	.140	.212	.160	.122	.146	.112	.086	.085	.066	.051	.027	.021	.017	
7.0	.239	.178	.134	.206	.154	.117	.142	.108	.083	.083	.064	.049	.027	.021	.016	
8.0	.233	.172	.130	.200	.149	.114	.139	.105	.081	.081	.062	.048	.026	.020	.016	
9.0	.226	.167	.127	.195	.145	.111	.135	.102	.079	.079	.060	.047	.025	.020	.016	
10.0	.221	.163	.125	.190	.142	.109	.132	.100	.077	.077	.059	.046	.025	.019	.015	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2022-03-23

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:53.0%  
Test Distance:10.700m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

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	16.1	17.6	16.6	18.0	18.5	14.1	15.6	14.6	16.0	16.4
3H	18.7	20.0	19.2	20.5	21.0	15.5	16.9	16.0	17.3	17.8
4H	20.2	21.4	20.6	21.9	22.4	16.1	17.3	16.6	17.8	18.3
6H	21.7	22.9	22.3	23.4	24.0	16.4	17.6	17.0	18.1	18.7
8H	22.6	23.8	23.1	24.3	24.8	16.5	17.7	17.1	18.2	18.7
12H	23.6	24.7	24.2	25.2	25.8	16.6	17.7	17.1	18.2	18.8
4H 2H	16.6	17.9	17.1	18.4	18.9	15.1	16.4	15.6	16.9	17.4
3H	19.4	20.5	20.0	21.1	21.6	16.8	17.9	17.4	18.4	19.0
4H	21.0	22.0	21.6	22.6	23.2	17.6	18.6	18.1	19.1	19.7
6H	22.8	23.7	23.4	24.3	24.9	18.1	19.0	18.7	19.6	20.2
8H	23.8	24.7	24.4	25.3	25.9	18.2	19.1	18.8	19.7	20.3
12H	25.0	25.8	25.6	26.4	27.1	18.3	19.1	18.9	19.7	20.4
8H 4H	21.3	22.2	21.9	22.8	23.4	18.5	19.3	19.1	19.9	20.6
6H	23.4	24.1	24.0	24.7	25.4	19.4	20.1	20.0	20.7	21.4
8H	24.6	25.2	25.2	25.9	26.6	19.8	20.4	20.4	21.0	21.8
12H	26.0	26.5	26.7	27.2	28.0	20.0	20.6	20.7	21.2	22.0
12H 4H	21.3	22.1	21.9	22.7	23.4	18.8	19.6	19.4	20.2	20.9
6H	23.5	24.1	24.1	24.8	25.5	19.9	20.6	20.6	21.2	21.9
8H	24.8	25.3	25.4	26.0	26.7	20.5	21.0	21.1	21.7	22.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 2255 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.8)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2022-03-23

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:53.0%  
Test Distance:10.700m [K=1.0000]  
Remarks:

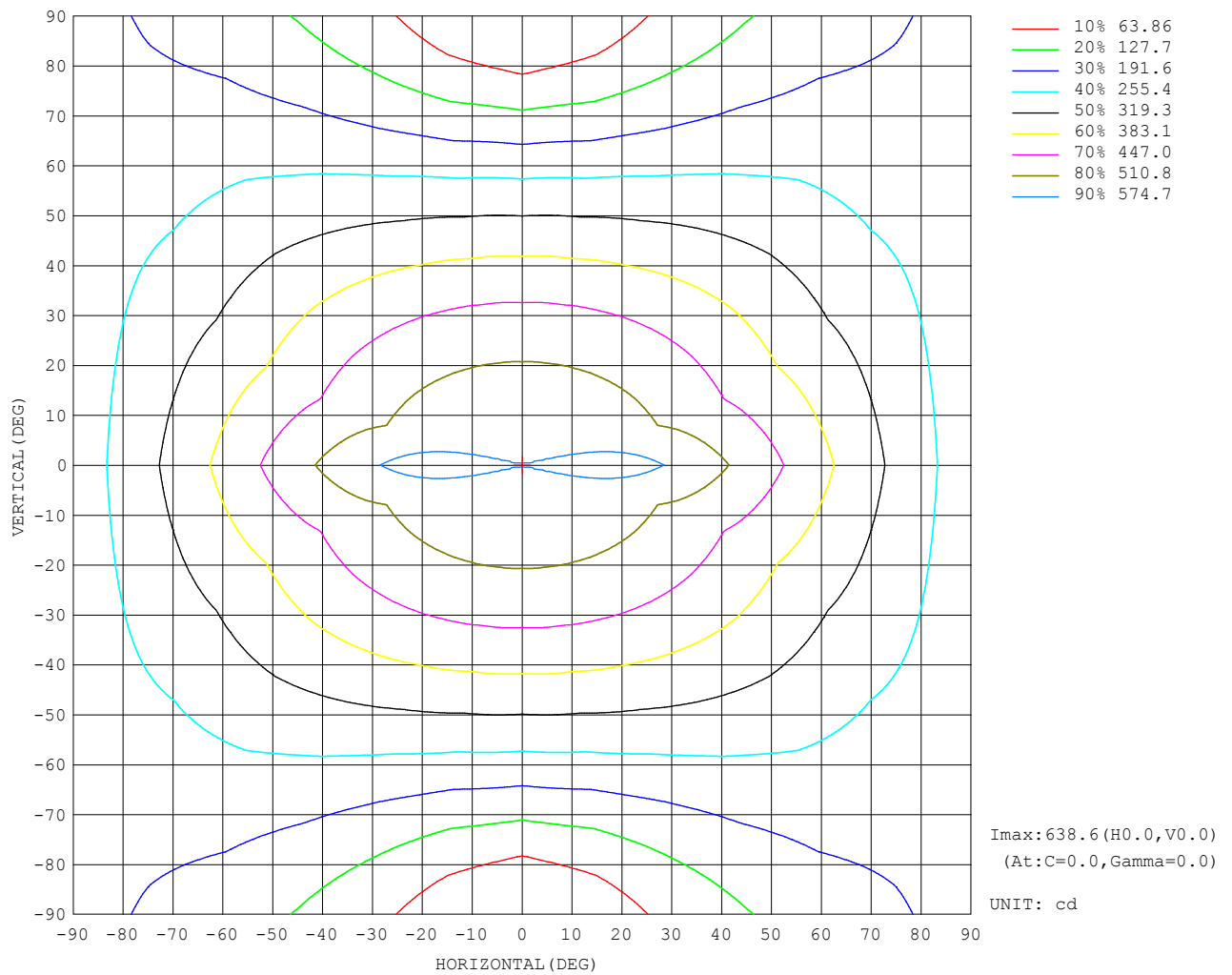
# UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	50	38	31	49	38	30	47	37	30	23
0.80	59	47	39	58	46	39	56	45	38	30
1.00	67	55	47	66	54	46	62	55	45	37
1.25	74	62	54	72	61	53	68	59	52	43
1.50	79	68	59	77	66	58	73	63	57	47
2.00	86	76	68	84	74	67	79	71	64	54
2.50	91	81	73	88	79	72	82	75	69	58
3.00	94	86	78	91	83	77	85	79	73	61
4.00	99	91	85	96	89	83	89	84	79	66
5.00	102	95	90	98	92	87	92	87	83	69
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2022-03-23

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.700m [K=1.0000]  
 Remarks:

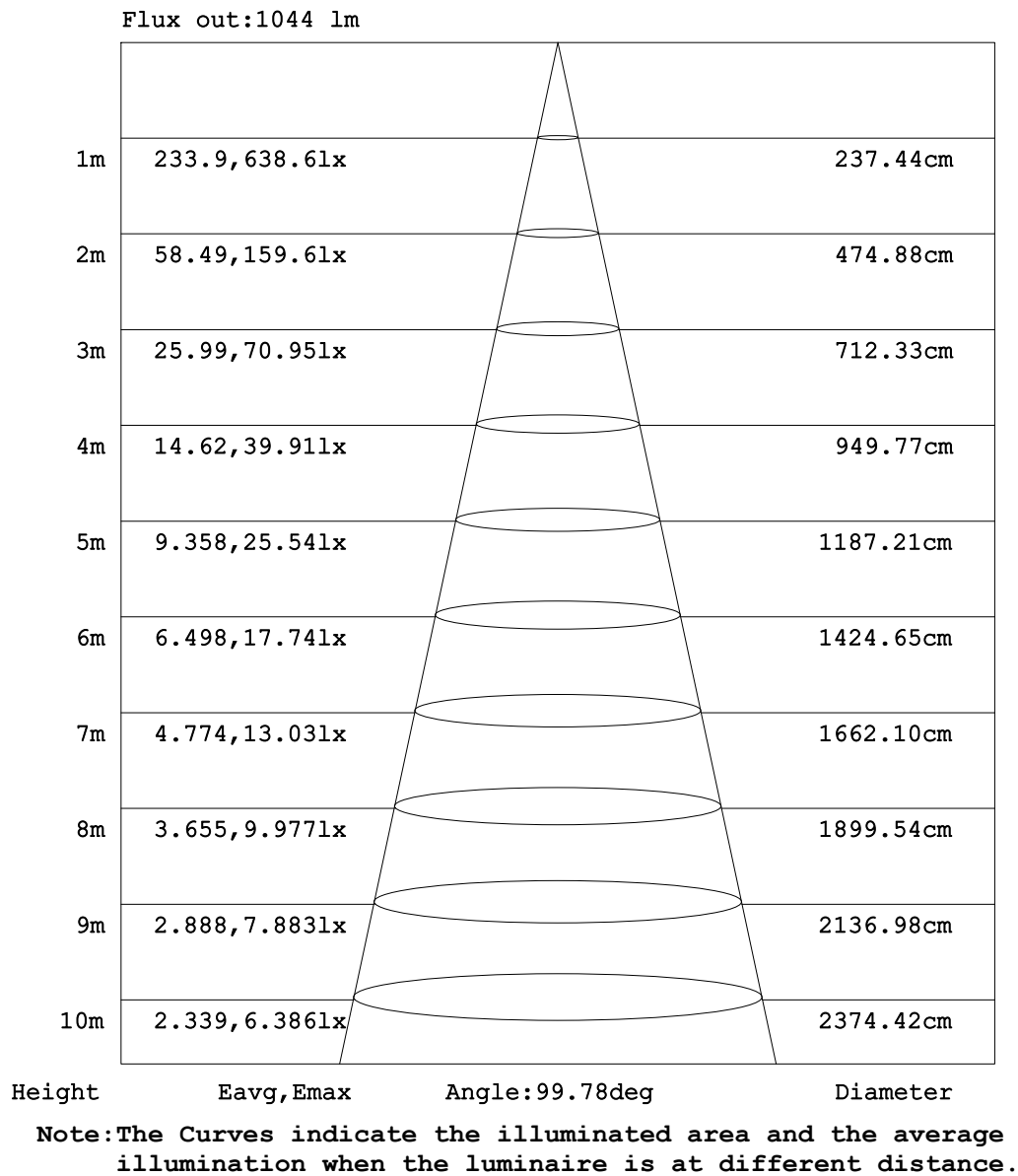
## ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QC  
Test Date: 2022-03-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 53.0%  
Test Distance: 10.700m [K=1.0000]  
Remarks:

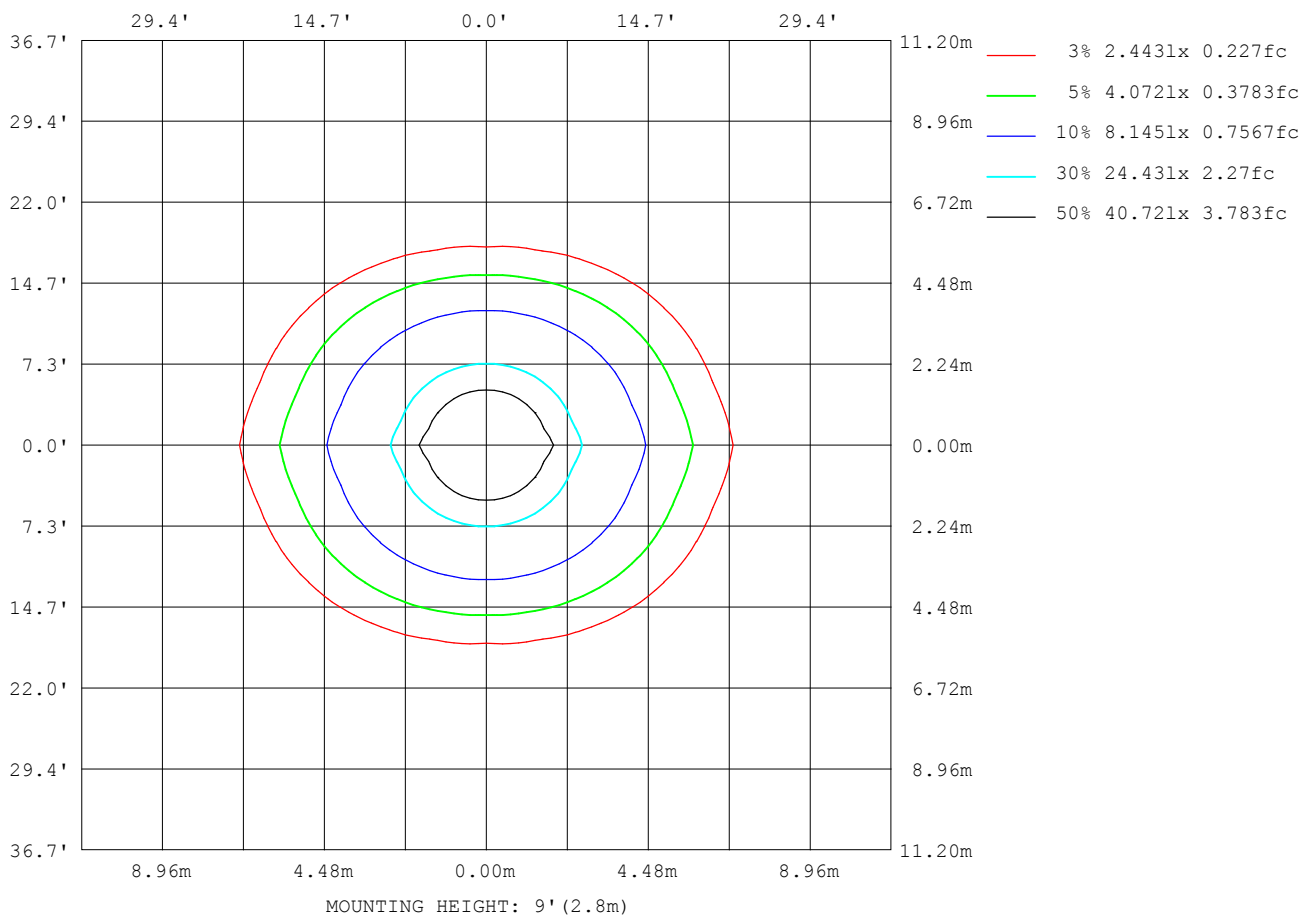
AAI Figure



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2022-03-23

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.700m [K=1.0000]  
 Remarks:

# ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QC  
Test Date: 2022-03-23

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 53.0%  
Test Distance: 10.700m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:230.6V I:0.2083A P:46.63W PF:0.9712 Freq:49.99Hz Lamp Flux:2254.89x1 lm		
NAME: TI60LP-LC-48-1500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: TUBI	SUR.:	Shielding Angle:

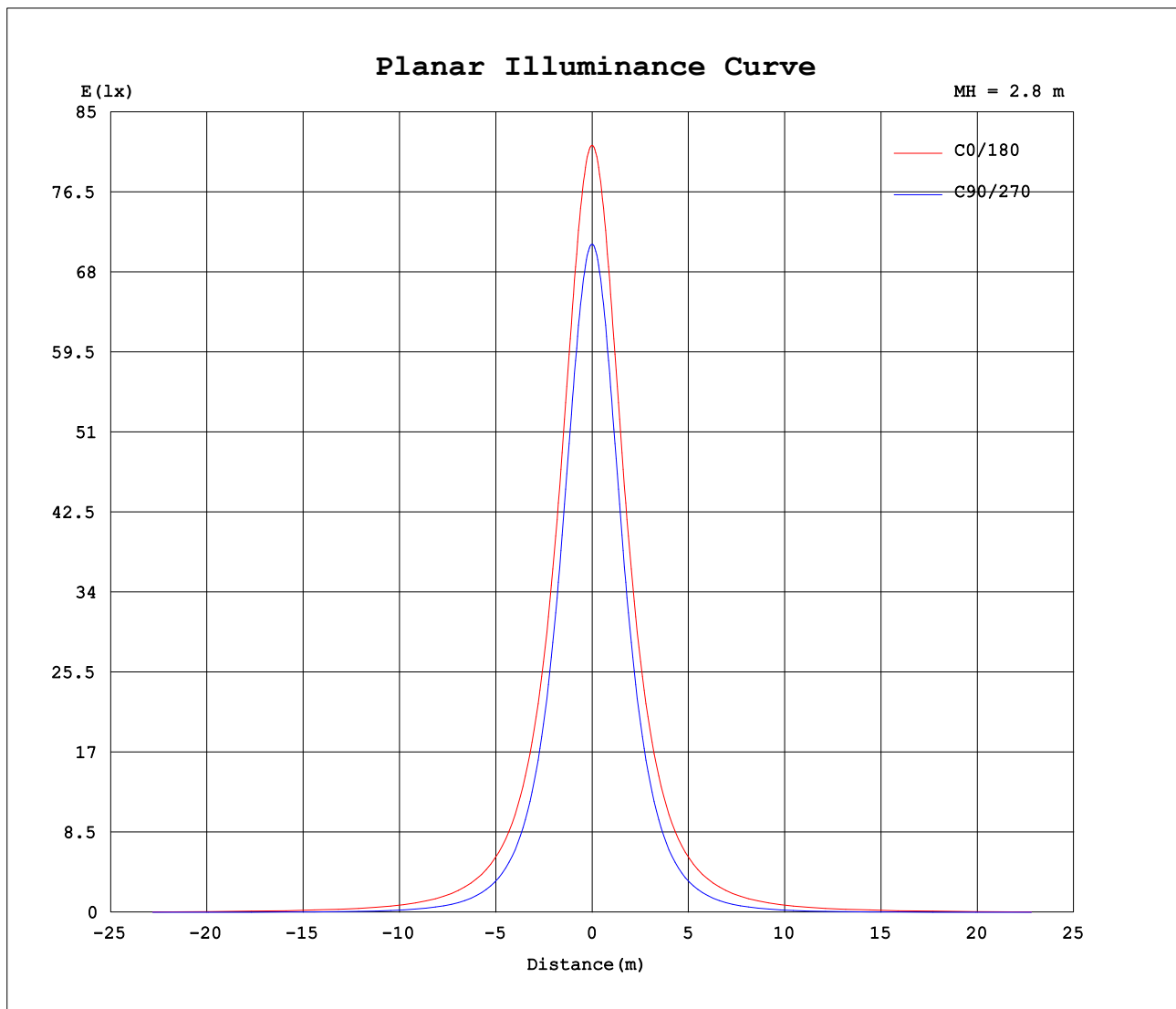
AvgL	cd/m2
L_0~180 (65) av	7366
L_0~180 (75) av	9986
L_0~180 (85) av	23779
L_90~270 (65) av	4241
L_90~270 (75) av	3461
L_90~270 (85) av	1873
L_45 (65) av	6048
L_45 (75) av	7529
L_45 (85) av	16336

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2022-03-23

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:53.0%  
Test Distance:10.700m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QC  
Test Date: 2022-03-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 53.0%  
Test Distance: 10.700m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568
5	566	566	565	565	565	565	565	565	565	565	565	566	566	566	565	565	565	565	565
10	560	560	559	558	557	557	556	557	557	558	559	560	560	560	559	558	557	557	556
15	551	550	549	547	545	543	543	543	545	547	549	550	551	550	549	547	545	543	543
20	538	537	535	531	528	525	524	525	528	531	535	537	538	537	535	531	528	525	524
25	523	522	518	512	506	502	501	502	506	512	518	522	523	522	518	512	506	502	501
30	505	503	497	489	480	475	473	475	480	489	497	503	505	503	497	489	480	475	473
35	484	481	473	462	451	442	440	442	451	462	473	481	484	481	473	462	451	442	440
40	461	457	447	432	418	408	405	408	418	432	447	457	461	457	447	432	418	408	405
45	437	431	419	401	384	371	366	371	384	401	419	431	437	431	419	401	384	371	366
50	411	404	389	369	347	331	325	331	347	369	389	404	411	404	389	369	347	331	325
55	383	376	359	335	309	289	281	289	309	335	359	376	383	376	359	335	309	289	281
60	355	348	329	302	271	246	235	246	271	302	329	348	355	348	329	302	271	246	235
65	327	319	299	268	233	202	188	202	233	268	299	319	327	319	299	268	233	202	188
70	299	291	269	236	196	158	141	158	196	236	269	291	299	291	269	236	196	158	141
75	271	263	240	205	161	117	94.1	117	161	205	240	263	271	263	240	205	161	117	94.1
80	244	236	212	176	130	80.6	51.0	80.6	130	176	212	236	244	236	212	176	130	80.6	51.0
85	218	209	186	149	103	51.3	17.1	51.3	103	149	186	209	218	209	186	149	103	51.3	17.1
90	192	184	161	126	80.2	31.7	3.17	31.7	80.2	126	161	184	192	184	161	126	80.2	31.7	3.17
95	168	160	139	105	62.1	20.3	3.68	20.3	62.1	105	139	160	168	160	139	105	62.1	20.3	3.68
100	146	139	118	86.4	48.0	14.2	4.26	14.2	48.0	86.4	118	139	146	139	118	86.4	48.0	14.2	4.26
105	125	118	99.5	70.6	37.4	11.1	4.86	11.1	37.4	70.6	99.5	118	125	118	99.5	70.6	37.4	11.1	4.86
110	106	100	83.0	57.4	28.8	9.33	5.48	9.33	28.8	57.4	83.0	100	106	100	83.0	57.4	28.8	9.33	5.48
115	89.2	83.7	68.5	45.2	22.7	8.57	6.10	8.57	22.7	45.2	68.5	83.7	89.2	83.7	68.5	45.2	22.7	8.57	6.10
120	73.9	69.1	56.2	35.8	18.6	8.33	6.71	8.33	18.6	35.8	56.2	69.1	73.9	69.1	56.2	35.8	18.6	8.33	6.71
125	60.6	56.5	44.8	28.8	15.7	8.42	7.33	8.42	15.7	28.8	44.8	56.5	60.6	56.5	44.8	28.8	15.7	8.42	7.33
130	49.0	45.6	34.8	23.6	13.9	8.68	7.94	8.68	13.9	23.6	34.8	45.6	49.0	45.6	34.8	23.6	13.9	8.68	7.94
135	39.3	36.6	27.9	19.6	12.6	9.05	8.56	9.05	12.6	19.6	27.9	36.6	39.3	36.6	27.9	19.6	12.6	9.05	8.56
140	31.2	28.9	22.6	16.7	11.8	9.49	9.15	9.49	11.8	16.7	22.6	28.9	31.2	28.9	22.6	16.7	11.8	9.49	9.15
145	24.6	22.7	18.8	14.6	11.4	9.94	9.72	9.94	11.4	14.6	18.8	22.7	24.6	22.7	18.8	14.6	11.4	9.94	9.72
150	19.6	17.9	15.8	13.2	11.2	10.4	10.3	10.4	11.2	13.2	15.8	17.9	19.6	17.9	15.8	13.2	11.2	10.4	10.3
155	15.8	14.9	13.7	12.3	11.3	10.8	10.7	10.8	11.3	12.3	13.7	14.9	15.8	14.9	13.7	12.3	11.3	10.8	10.7
160	13.5	13.1	12.6	11.9	11.4	11.2	11.2	11.2	11.4	11.9	12.6	13.1	13.5	13.1	12.6	11.9	11.4	11.2	11.2
165	12.4	12.2	12.1	11.8	11.7	11.6	11.6	11.6	11.7	11.8	12.1	12.2	12.4	12.2	12.1	11.8	11.7	11.6	11.6
170	12.0	12.0	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	12.0	12.0	12.0	11.9	11.9	11.9	11.9	11.9
175	12.1	12.0	12.0	12.0	12.1	12.2	12.2	12.2	12.1	12.0	12.0	12.0	12.1	12.0	12.0	12.1	12.2	12.2	12.2
180	12.2	12.1	12.1	12.1	12.2	12.3	12.2	12.3	12.2	12.1	12.1	12.1	12.2	12.1	12.1	12.1	12.2	12.3	12.2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2022-03-23

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:53.0%  
Test Distance:10.700m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	568	568	568	568	568														
5	565	565	565	565	566														
10	557	557	558	559	560														
15	543	545	547	549	550														
20	525	528	531	535	537														
25	502	506	512	518	522														
30	475	480	489	497	503														
35	442	451	462	473	481														
40	408	418	432	447	457														
45	371	384	401	419	431														
50	331	347	369	389	404														
55	289	309	335	359	376														
60	246	271	302	329	348														
65	202	233	268	299	319														
70	158	196	236	269	291														
75	117	161	205	240	263														
80	80.6	130	176	212	236														
85	51.3	103	149	186	209														
90	31.7	80.2	126	161	184														
95	20.3	62.1	105	139	160														
100	14.2	48.0	86.4	118	139														
105	11.1	37.4	70.6	99.5	118														
110	9.33	28.8	57.4	83.0	100														
115	8.57	22.7	45.2	68.5	83.7														
120	8.33	18.6	35.8	56.2	69.1														
125	8.42	15.7	28.8	44.8	56.5														
130	8.68	13.9	23.6	34.8	45.6														
135	9.05	12.6	19.6	27.9	36.6														
140	9.49	11.8	16.7	22.6	28.9														
145	9.94	11.4	14.6	18.8	22.7														
150	10.4	11.2	13.2	15.8	17.9														
155	10.8	11.3	12.3	13.7	14.9														
160	11.2	11.4	11.9	12.6	13.1														
165	11.6	11.7	11.8	12.1	12.2														
170	11.9	11.9	11.9	11.9	12.0														
175	12.2	12.1	12.0	12.0	12.0														
180	12.3	12.2	12.1	12.1	12.1														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2022-03-23

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.700m [K=1.0000]  
 Remarks:

Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	567.6	567.6	567.6	567.6	567.6	567.6	567.6	567.6	567.6	567.6
3.0	567.0	566.9	566.8	566.7	566.6	566.6	566.6	566.6	566.6	566.7
6.0	564.8	564.8	564.6	564.2	563.9	563.6	563.6	563.6	563.9	564.2
9.0	561.3	561.3	560.9	560.0	559.3	558.8	558.6	558.8	559.3	560.0
12.0	556.6	556.4	555.7	554.2	553.0	552.1	551.7	552.1	553.0	554.2
15.0	550.7	550.3	549.0	546.8	544.9	543.4	542.9	543.4	544.9	546.8
18.0	543.8	543.1	541.1	538.1	535.0	533.0	532.3	533.0	535.0	538.1
21.0	535.5	534.5	531.8	527.7	523.7	520.9	519.9	520.9	523.7	527.7
24.0	526.3	525.0	521.2	516.0	510.8	507.1	505.7	507.1	510.8	516.0
27.0	516.1	514.3	509.6	502.9	496.3	491.6	490.0	491.6	496.3	502.9
30.0	504.8	502.7	496.7	488.7	480.4	475.0	472.9	475.0	480.4	488.7
33.0	492.7	490.2	482.5	473.1	462.9	456.0	453.0	456.0	462.9	473.1
36.0	479.7	476.0	467.8	456.2	444.6	435.8	433.0	435.8	444.6	456.2
39.0	466.1	461.8	452.2	438.4	424.9	415.2	411.8	415.2	424.9	438.4
42.0	451.6	446.9	436.0	420.1	404.7	393.5	389.5	393.5	404.7	420.1
45.0	436.6	431.5	419.0	401.3	383.7	370.7	366.1	370.7	383.7	401.3
48.0	421.1	414.6	401.1	381.9	362.0	347.1	341.7	347.1	362.0	381.9
51.0	405.4	398.5	383.5	362.1	339.8	322.8	316.5	322.8	339.8	362.1
54.0	388.5	381.8	365.5	342.1	317.2	297.7	290.3	297.7	317.2	342.1
57.0	371.5	365.0	347.3	321.9	294.2	272.1	263.4	272.1	294.2	321.9
60.0	354.8	347.9	329.1	301.7	271.2	245.8	235.4	245.8	271.2	301.7
63.0	338.1	330.8	311.0	281.6	248.2	219.0	207.1	219.0	248.2	281.6
66.0	321.3	313.7	292.9	261.7	224.9	192.8	178.8	192.8	224.9	261.7
69.0	304.6	296.7	275.1	242.0	202.9	166.8	150.2	166.8	202.9	242.0
72.0	287.9	279.8	257.5	223.0	181.6	141.4	121.9	141.4	181.6	223.0
75.0	271.4	262.8	240.1	204.6	161.2	117.2	94.05	117.2	161.2	204.6
78.0	255.1	246.4	222.9	187.1	141.9	94.56	67.53	94.56	141.9	187.1
81.0	239.0	230.3	206.6	170.3	124.1	74.09	43.24	74.09	124.1	170.3
84.0	223.0	214.6	191.0	154.5	107.7	56.47	22.75	56.47	107.7	154.5
87.0	207.1	198.9	175.9	139.7	93.17	42.27	8.273	42.27	93.17	139.7
90.0	192.2	184.0	161.4	125.8	80.25	31.75	3.168	31.75	80.25	125.8
93.0	177.4	169.7	147.5	112.8	68.88	24.12	3.454	24.12	68.88	112.8
96.0	163.7	156.0	134.4	100.8	59.01	18.73	3.810	18.73	59.01	100.8
99.0	150.3	142.8	122.0	89.87	50.58	15.09	4.150	15.09	50.58	89.87
102.0	137.4	130.2	110.4	79.82	43.42	12.66	4.496	12.66	43.42	79.82
105.0	125.2	118.4	99.48	70.63	37.38	11.05	4.858	11.05	37.38	70.63
108.0	113.6	107.1	89.38	62.53	32.08	9.911	5.229	9.911	32.08	62.53
111.0	102.7	96.63	80.02	54.86	27.37	9.111	5.605	9.111	27.37	54.86
114.0	92.44	86.78	71.21	47.22	23.70	8.669	5.974	8.669	23.70	47.22
117.0	82.87	77.62	63.32	41.02	20.89	8.419	6.333	8.419	20.89	41.02
120.0	73.94	69.14	56.17	35.80	18.63	8.335	6.708	8.335	18.63	35.80
123.0	65.69	61.31	49.24	31.44	16.77	8.346	7.080	8.346	16.77	31.44
126.0	58.10	54.20	42.48	27.59	15.32	8.459	7.450	8.459	15.32	27.59
129.0	51.20	47.64	36.67	24.52	14.18	8.611	7.818	8.611	14.18	24.52
132.0	44.93	41.83	31.77	21.89	13.28	8.815	8.185	8.815	13.28	21.89
135.0	39.30	36.60	27.92	19.61	12.57	9.052	8.556	9.052	12.57	19.61
138.0	34.24	31.98	24.45	17.78	12.06	9.305	8.913	9.305	12.06	17.78
141.0	29.76	27.82	21.76	16.20	11.71	9.576	9.270	9.576	11.71	16.20
144.0	25.84	23.92	19.47	14.93	11.46	9.853	9.605	9.853	11.46	14.93
147.0	22.45	20.52	17.49	13.94	11.29	10.17	9.942	10.17	11.29	13.94
150.0	19.55	17.87	15.79	13.18	11.21	10.40	10.26	10.40	11.21	13.18
153.0	17.11	15.88	14.45	12.60	11.21	10.66	10.55	10.66	11.21	12.60
156.0	15.25	14.42	13.44	12.19	11.28	10.92	10.84	10.92	11.28	12.19
159.0	13.83	13.36	12.74	11.93	11.37	11.17	11.12	11.17	11.37	11.93
162.0	12.91	12.65	12.30	11.80	11.51	11.41	11.37	11.41	11.51	11.80
165.0	12.37	12.23	12.05	11.76	11.65	11.63	11.59	11.63	11.65	11.76
168.0	12.07	12.02	11.94	11.83	11.80	11.83	11.80	11.83	11.80	11.83
171.0	11.99	11.94	11.94	11.91	11.95	12.00	11.97	12.00	11.95	11.91
174.0	12.03	11.96	11.99	12.00	12.08	12.13	12.11	12.13	12.08	12.00
177.0	12.10	12.01	12.05	12.08	12.16	12.22	12.21	12.22	12.16	12.08
180.0	12.15	12.06	12.09	12.12	12.21	12.27	12.25	12.27	12.21	12.12
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	567.6	567.6	567.6	567.6	567.6	567.6	567.6	567.6	567.6	567.6
3.0	566.8	566.9	567.0	566.9	566.8	566.7	566.6	566.6	566.6	566.6
6.0	564.6	564.8	564.8	564.8	564.6	564.2	563.9	563.6	563.6	563.6
9.0	560.9	561.3	561.3	561.3	560.9	560.0	559.3	558.8	558.6	558.8
12.0	555.7	556.4	556.6	556.4	555.7	554.2	553.0	552.1	551.7	552.1
15.0	549.0	550.3	550.7	550.3	549.0	546.8	544.9	543.4	542.9	543.4
18.0	541.1	543.1	543.8	543.1	541.1	538.1	535.0	533.0	532.3	533.0
21.0	531.8	534.5	535.5	534.5	531.8	527.7	523.7	520.9	519.9	520.9
24.0	521.2	525.0	526.3	525.0	521.2	516.0	510.8	507.1	505.7	507.1
27.0	509.6	514.3	516.1	514.3	509.6	502.9	496.3	491.6	490.0	491.6
30.0	496.7	502.7	504.8	502.7	496.7	488.7	480.4	475.0	472.9	475.0

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2022-03-23

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.700m [K=1.0000]  
 Remarks:

## Photometric Data Table [cd]

33.0	482.5	490.2	492.7	490.2	482.5	473.1	462.9	456.0	453.0	456.0
36.0	467.8	476.0	479.7	476.0	467.8	456.2	444.6	435.8	433.0	435.8
39.0	452.2	461.8	466.1	461.8	452.2	438.4	424.9	415.2	411.8	415.2
42.0	436.0	446.9	451.6	446.9	436.0	420.1	404.7	393.5	389.5	393.5
45.0	419.0	431.5	436.6	431.5	419.0	401.3	383.7	370.7	366.1	370.7
48.0	401.1	414.6	421.1	414.6	401.1	381.9	362.0	347.1	341.7	347.1
51.0	383.5	398.5	405.4	398.5	383.5	362.1	339.8	322.8	316.5	322.8
54.0	365.5	381.8	388.5	381.8	365.5	342.1	317.2	297.7	290.3	297.7
57.0	347.3	365.0	371.5	365.0	347.3	321.9	294.2	272.1	263.4	272.1
60.0	329.1	347.9	354.8	347.9	329.1	301.7	271.2	245.8	235.4	245.8
63.0	311.0	330.8	338.1	330.8	311.0	281.6	248.2	219.0	207.1	219.0
66.0	292.9	313.7	321.3	313.7	292.9	261.7	224.9	192.8	178.8	192.8
69.0	275.1	296.7	304.6	296.7	275.1	242.0	202.9	166.8	150.2	166.8
72.0	257.5	279.8	287.9	279.8	257.5	223.0	181.6	141.4	121.9	141.4
75.0	240.1	262.8	271.4	262.8	240.1	204.6	161.2	117.2	94.05	117.2
78.0	222.9	246.4	255.1	246.4	222.9	187.1	141.9	94.56	67.53	94.56
81.0	206.6	230.3	239.0	230.3	206.6	170.3	124.1	74.09	43.24	74.09
84.0	191.0	214.6	223.0	214.6	191.0	154.5	107.7	56.47	22.75	56.47
87.0	175.9	198.9	207.1	198.9	175.9	139.7	93.17	42.27	8.273	42.27
90.0	161.4	184.0	192.2	184.0	161.4	125.8	80.25	31.75	3.168	31.75
93.0	147.5	169.7	177.4	169.7	147.5	112.8	68.88	24.12	3.454	24.12
96.0	134.4	156.0	163.7	156.0	134.4	100.8	59.01	18.73	3.810	18.73
99.0	122.0	142.8	150.3	142.8	122.0	89.87	50.58	15.09	4.150	15.09
102.0	110.4	130.2	137.4	130.2	110.4	79.82	43.42	12.66	4.496	12.66
105.0	99.48	118.4	125.2	118.4	99.48	70.63	37.38	11.05	4.858	11.05
108.0	89.38	107.1	113.6	107.1	89.38	62.53	32.08	9.911	5.229	9.911
111.0	80.02	96.63	102.7	96.63	80.02	54.86	27.37	9.111	5.605	9.111
114.0	71.21	86.78	92.44	86.78	71.21	47.22	23.70	8.669	5.974	8.669
117.0	63.32	77.62	82.87	77.62	63.32	41.02	20.89	8.419	6.333	8.419
120.0	56.17	69.14	73.94	69.14	56.17	35.80	18.63	8.335	6.708	8.335
123.0	49.24	61.31	65.69	61.31	49.24	31.44	16.77	8.346	7.080	8.346
126.0	42.48	54.20	58.10	54.20	42.48	27.59	15.32	8.459	7.450	8.459
129.0	36.67	47.64	51.20	47.64	36.67	24.52	14.18	8.611	7.818	8.611
132.0	31.77	41.83	44.93	41.83	31.77	21.89	13.28	8.815	8.185	8.815
135.0	27.92	36.60	39.30	36.60	27.92	19.61	12.57	9.052	8.556	9.052
138.0	24.45	31.98	34.24	31.98	24.45	17.78	12.06	9.305	8.913	9.305
141.0	21.76	27.82	29.76	27.82	21.76	16.20	11.71	9.576	9.270	9.576
144.0	19.47	23.92	25.84	23.92	19.47	14.93	11.46	9.853	9.605	9.853
147.0	17.49	20.52	22.45	20.52	17.49	13.94	11.29	10.17	9.942	10.17
150.0	15.79	17.87	19.55	17.87	15.79	13.18	11.21	10.40	10.26	10.40
153.0	14.45	15.88	17.11	15.88	14.45	12.60	11.21	10.66	10.55	10.66
156.0	13.44	14.42	15.25	14.42	13.44	12.19	11.28	10.92	10.84	10.92
159.0	12.74	13.36	13.83	13.36	12.74	11.93	11.37	11.17	11.12	11.17
162.0	12.30	12.65	12.91	12.65	12.30	11.80	11.51	11.41	11.37	11.41
165.0	12.05	12.23	12.37	12.23	12.05	11.76	11.65	11.63	11.59	11.63
168.0	11.94	12.02	12.07	12.02	11.94	11.83	11.80	11.83	11.80	11.83
171.0	11.94	11.94	11.99	11.94	11.94	11.91	11.95	12.00	11.97	12.00
174.0	11.99	11.96	12.03	11.96	11.99	12.00	12.08	12.13	12.11	12.13
177.0	12.05	12.01	12.10	12.01	12.05	12.08	12.16	12.22	12.21	12.22
180.0	12.09	12.06	12.15	12.06	12.09	12.12	12.21	12.27	12.25	12.27
G/C	300.0	315.0	330.0	345.0						
0.0	567.6	567.6	567.6	567.6						
3.0	566.6	566.7	566.8	566.9						
6.0	563.9	564.2	564.6	564.8						
9.0	559.3	560.0	560.9	561.3						
12.0	553.0	554.2	555.7	556.4						
15.0	544.9	546.8	549.0	550.3						
18.0	535.0	538.1	541.1	543.1						
21.0	523.7	527.7	531.8	534.5						
24.0	510.8	516.0	521.2	525.0						
27.0	496.3	502.9	509.6	514.3						
30.0	480.4	488.7	496.7	502.7						
33.0	462.9	473.1	482.5	490.2						
36.0	444.6	456.2	467.8	476.0						
39.0	424.9	438.4	452.2	461.8						
42.0	404.7	420.1	436.0	446.9						
45.0	383.7	401.3	419.0	431.5						
48.0	362.0	381.9	401.1	414.6						
51.0	339.8	362.1	383.5	398.5						
54.0	317.2	342.1	365.5	381.8						
57.0	294.2	321.9	347.3	365.0						
60.0	271.2	301.7	329.1	347.9						
63.0	248.2	281.6	311.0	330.8						
66.0	224.9	261.7	292.9	313.7						

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2022-03-23

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.700m [K=1.0000]  
 Remarks:

## Photometric Data Table [cd]

69.0	202.9	242.0	275.1	296.7
72.0	181.6	223.0	257.5	279.8
75.0	161.2	204.6	240.1	262.8
78.0	141.9	187.1	222.9	246.4
81.0	124.1	170.3	206.6	230.3
84.0	107.7	154.5	191.0	214.6
87.0	93.17	139.7	175.9	198.9
90.0	80.25	125.8	161.4	184.0
93.0	68.88	112.8	147.5	169.7
96.0	59.01	100.8	134.4	156.0
99.0	50.58	89.87	122.0	142.8
102.0	43.42	79.82	110.4	130.2
105.0	37.38	70.63	99.48	118.4
108.0	32.08	62.53	89.38	107.1
111.0	27.37	54.86	80.02	96.63
114.0	23.70	47.22	71.21	86.78
117.0	20.89	41.02	63.32	77.62
120.0	18.63	35.80	56.17	69.14
123.0	16.77	31.44	49.24	61.31
126.0	15.32	27.59	42.48	54.20
129.0	14.18	24.52	36.67	47.64
132.0	13.28	21.89	31.77	41.83
135.0	12.57	19.61	27.92	36.60
138.0	12.06	17.78	24.45	31.98
141.0	11.71	16.20	21.76	27.82
144.0	11.46	14.93	19.47	23.92
147.0	11.29	13.94	17.49	20.52
150.0	11.21	13.18	15.79	17.87
153.0	11.21	12.60	14.45	15.88
156.0	11.28	12.19	13.44	14.42
159.0	11.37	11.93	12.74	13.36
162.0	11.51	11.80	12.30	12.65
165.0	11.65	11.76	12.05	12.23
168.0	11.80	11.83	11.94	12.02
171.0	11.95	11.91	11.94	11.94
174.0	12.08	12.00	11.99	11.96
177.0	12.16	12.08	12.05	12.01
180.0	12.21	12.12	12.09	12.06

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QC  
 Test Date:2022-03-23

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:53.0%  
 Test Distance:10.700m [K=1.0000]  
 Remarks: