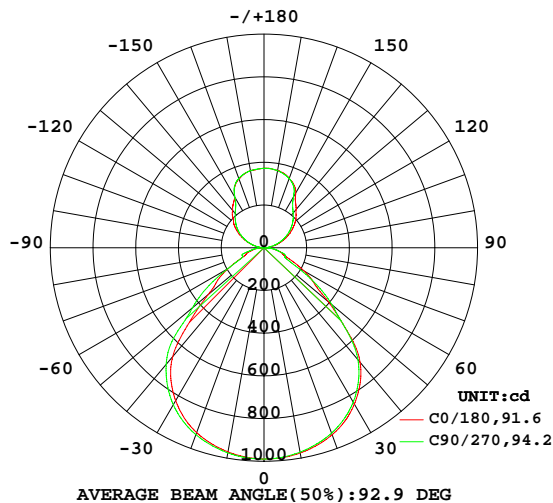


## LUMINAIRE PHOTOMETRIC TEST REPORT

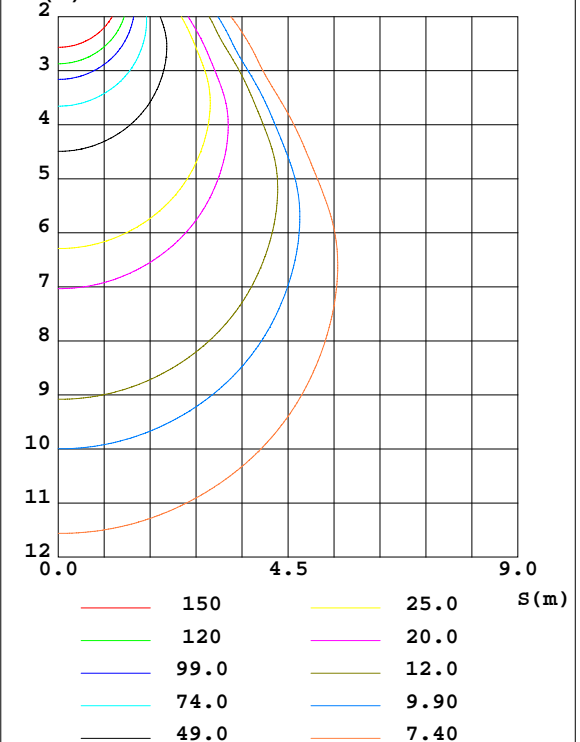
Test:U:229.74V I:0.1308A P:28.431W PF:0.9458 Freq:49.99Hz Lamp Flux:3064.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*450*82	SERIAL No.:
MFR.: A4762092-26	SUR.:0.427*0.427	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 107.80 lm/W			
MODEL		Imax(cd)	990.1	S/MH(C0/180)	1.26
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	3065.0	$\eta$ UP,DN(C0-180)	14.4,35.2
NOMINAL FLUX(lm)	3064.96	CIE CLASS	SEMI-D.	$\eta$ UP,DN(C180-360)	14.4,36.0
LAMPS INSIDE	1	$\eta$ up(%)	28.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.0	$\eta$ down(%)	71.2	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2022-05-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

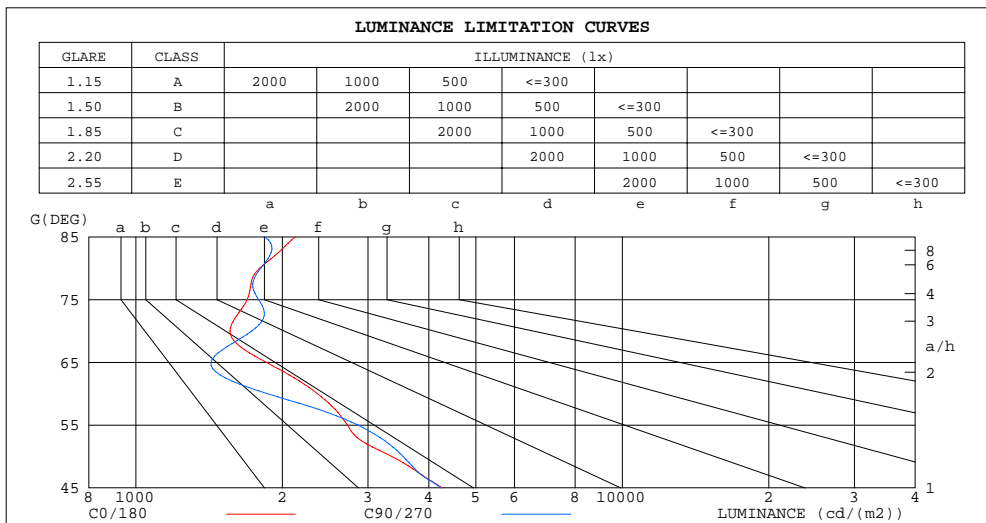
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
10	975.7	973.8	971.6	970.7	970.4	972.6	975.2	976.9	0- 10	93.67	93.67	3.06,3.06
20	932.0	927.8	923.9	921.1	921.4	925.8	931.3	934.2	10- 20	269.4	363.1	11.8,11.8
30	845.9	838.9	835.0	827.7	826.9	836.3	848.9	852.2	20- 30	409.4	772.5	25.2,25.2
40	700.0	690.1	684.5	670.2	665.2	690.1	712.2	714.2	30- 40	482.8	1255	41,41
50	393.4	395.4	415.2	366.4	340.4	383.8	437.3	416.9	40- 50	420.4	1676	54.7,54.7
60	215.2	202.2	170.0	182.7	191.8	188.1	195.5	214.8	50- 60	258.6	1934	63.1,63.1
70	97.31	101.7	108.0	99.15	90.17	100.6	108.6	103.6	60- 70	131.6	2066	67.4,67.4
80	56.87	59.01	57.18	50.66	49.43	50.62	55.36	57.79	70- 80	85.30	2151	70.2,70.2
90	3.333	1.287	0.7388	0.7485	1.125	1.069	1.418	3.197	80- 90	30.83	2182	71.2,71.2
100	39.01	28.88	32.53	26.45	34.88	27.12	34.52	28.45	90-100	15.53	2198	71.7,71.7
110	90.00	67.18	79.39	64.04	85.31	63.78	80.68	66.29	100-110	53.76	2251	73.5,73.5
120	143.2	106.5	128.4	103.1	138.9	102.1	128.5	104.2	110-120	93.22	2345	76.5,76.5
130	191.8	157.5	173.4	150.3	186.4	148.3	171.6	157.8	120-130	123.6	2468	80.5,80.5
140	234.4	225.3	213.1	219.6	229.2	219.1	210.3	224.8	130-140	150.1	2618	85.4,85.4
150	297.2	309.0	277.7	303.4	276.5	305.6	272.7	310.7	140-150	159.5	2778	90.6,90.6
160	346.1	348.4	345.1	347.1	342.7	347.5	346.0	349.3	150-160	150.5	2928	95.5,95.5
170	367.7	367.9	366.7	367.5	366.6	369.0	366.3	367.9	160-170	101.4	3030	98.8,98.8
180	372.4	372.4	372.4	372.4	372.4	372.4	372.4	372.4	170-180	35.32	3065	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-05-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity:65.0%  
 Test Distance:11.700m [K=0.8547]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:229.74V I:0.1308A P:28.431W PF:0.9458 Freq:49.99Hz Lamp Flux:3064.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*450*82	SERIAL No.:
MFR.: A4762092-26	SUR.:0.427*0.427	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2126	1841
80	1796	1806
75	1694	1788
70	1561	1731
65	1854	1427
60	2361	1865
55	2724	2862
50	3357	3543
45	4271	4241

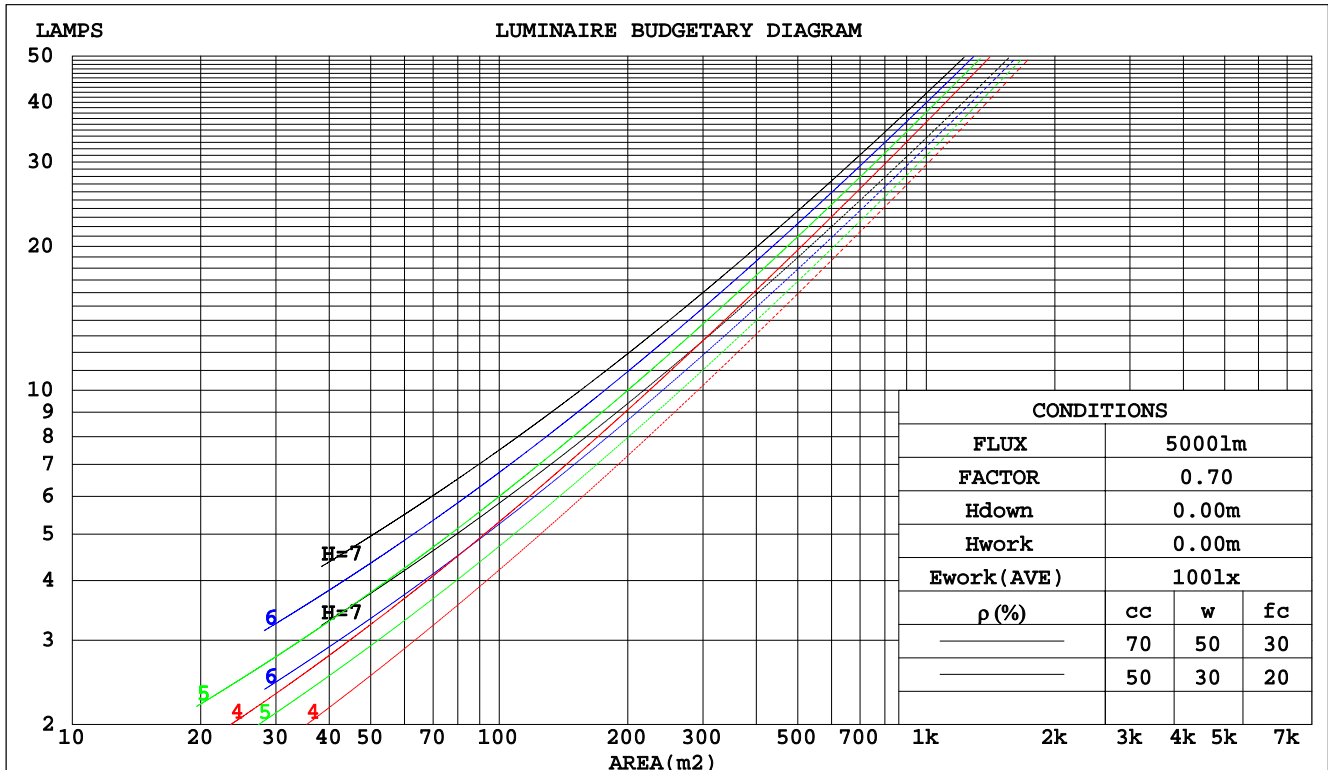
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2022-05-03

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.74V I:0.1308A P:28.431W PF:0.9458 Freq:49.99Hz Lamp Flux:3064.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*450*82	SERIAL No.:
MFR.: A4762092-26	SUR.:0.427*0.427	Shielding 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	1.12	1.12	1.12	1.06	1.06	1.06	.95	.95	.95	.85	.85	.85	.76	.76	.76	.71
1.0	.99	.96	.92	.94	.91	.88	.85	.82	.80	.76	.74	.73	.68	.67	.66	.62
2.0	.88	.82	.77	.84	.79	.74	.76	.72	.68	.68	.65	.62	.61	.59	.57	.54
3.0	.78	.71	.66	.75	.68	.63	.68	.63	.59	.61	.57	.54	.55	.52	.50	.47
4.0	.70	.63	.57	.67	.60	.55	.61	.55	.51	.55	.51	.47	.50	.47	.44	.41
5.0	.63	.55	.49	.60	.53	.48	.55	.49	.45	.50	.45	.42	.46	.42	.39	.36
6.0	.57	.49	.44	.55	.47	.42	.50	.44	.40	.46	.41	.37	.42	.38	.35	.32
7.0	.52	.44	.39	.50	.43	.38	.46	.40	.35	.42	.37	.33	.38	.34	.31	.29
8.0	.47	.40	.35	.46	.39	.34	.42	.36	.32	.39	.34	.30	.35	.31	.28	.26
9.0	.44	.36	.31	.42	.35	.30	.39	.33	.29	.36	.31	.27	.33	.29	.26	.24
10.0	.40	.33	.28	.39	.32	.28	.36	.30	.26	.33	.28	.25	.31	.26	.23	.22



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-05-03

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity: 65.0%  
 Test Distance: 11.700m [K=0.8547]  
 Remarks:

## WEC AND CCEC

Test:U:229.74V I:0.1308A P:28.431W PF:0.9458 Freq:49.99Hz Lamp Flux:3064.96x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 450*450*82			SERIAL No.:		
MFR.: A4762092-26			SUR.:0.427*0.427			Shielding 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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.263	.150	.047	.248	.141	.045	.218	.125	.040	.191	.110	.035	.167	.097	.031	
2.0	.248	.136	.042	.234	.129	.040	.207	.115	.036	.183	.103	.032	.160	.091	.029	
3.0	.231	.123	.037	.218	.117	.035	.195	.105	.032	.172	.094	.029	.152	.084	.026	
4.0	.216	.112	.033	.204	.107	.032	.182	.097	.029	.162	.087	.026	.143	.078	.024	
5.0	.201	.103	.030	.191	.098	.029	.171	.089	.026	.152	.080	.024	.135	.072	.022	
6.0	.189	.095	.027	.179	.090	.026	.161	.082	.024	.143	.075	.022	.127	.067	.020	
7.0	.177	.088	.025	.168	.084	.024	.151	.076	.022	.135	.069	.020	.120	.063	.018	
8.0	.167	.081	.023	.158	.078	.022	.143	.071	.020	.128	.065	.019	.114	.059	.017	
9.0	.157	.076	.021	.149	.073	.020	.135	.067	.019	.121	.061	.017	.108	.055	.016	
10.0	.148	.071	.020	.141	.068	.019	.128	.063	.018	.115	.057	.016	.103	.052	.015	

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	.410	.410	.410	.350	.350	.350	.239	.239	.239	.137	.137	.137	.044	.044	.044	
1.0	.398	.378	.359	.341	.324	.309	.233	.223	.214	.134	.129	.124	.043	.042	.040	
2.0	.389	.355	.326	.333	.305	.282	.228	.211	.197	.132	.123	.115	.042	.040	.038	
3.0	.381	.338	.304	.327	.292	.263	.224	.203	.185	.130	.118	.109	.042	.038	.036	
4.0	.374	.325	.288	.321	.281	.250	.220	.196	.176	.128	.115	.104	.041	.037	.034	
5.0	.367	.315	.277	.315	.273	.241	.217	.191	.170	.126	.112	.101	.040	.037	.033	
6.0	.360	.307	.269	.310	.266	.234	.214	.186	.166	.124	.110	.099	.040	.036	.033	
7.0	.354	.301	.263	.305	.261	.229	.210	.183	.162	.122	.108	.097	.040	.035	.032	
8.0	.348	.295	.259	.300	.256	.225	.208	.180	.160	.121	.106	.095	.039	.035	.032	
9.0	.343	.291	.255	.296	.252	.222	.205	.177	.158	.119	.105	.094	.039	.034	.031	
10.0	.338	.287	.252	.292	.249	.220	.202	.175	.156	.118	.104	.093	.038	.034	.031	

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2022-05-03

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:229.74V I:0.1308A P:28.431W PF:0.9458 Freq:49.99Hz Lamp Flux:3064.96x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 450*450*82			SERIAL No.:			
MFR.: A4762092-26					SUR.:0.427*0.427			Shielding 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	14.3	15.3	14.9	15.9	16.6	14.0	15.0	14.6	15.6	16.4	
	3H	14.7	15.7	15.4	16.3	17.1	14.4	15.4	15.1	16.0	16.8
	4H	15.1	15.9	15.7	16.6	17.4	14.8	15.7	15.5	16.4	17.2
	6H	15.4	16.2	16.1	16.9	17.7	15.1	16.0	15.8	16.7	17.5
	8H	15.6	16.4	16.3	17.1	17.9	15.3	16.1	16.0	16.8	17.6
	12H	15.7	16.5	16.4	17.2	18.0	15.4	16.2	16.1	16.9	17.7
4H	2H	14.3	15.2	14.9	15.8	16.6	14.1	14.9	14.7	15.6	16.4
	3H	15.0	15.7	15.7	16.5	17.3	14.7	15.5	15.4	16.2	17.0
	4H	15.5	16.2	16.2	16.9	17.8	15.2	15.9	16.0	16.6	17.5
	6H	16.0	16.6	16.8	17.4	18.3	15.7	16.3	16.5	17.0	18.0
	8H	16.3	16.8	17.1	17.6	18.5	15.9	16.5	16.7	17.2	18.2
	12H	16.5	17.0	17.3	17.8	18.8	16.1	16.6	16.9	17.4	18.3
8H	4H	15.6	16.1	16.4	16.9	17.8	15.3	15.9	16.1	16.7	17.6
	6H	16.3	16.8	17.2	17.6	18.6	16.0	16.4	16.8	17.2	18.2
	8H	16.7	17.1	17.6	18.0	19.0	16.3	16.7	17.1	17.5	18.5
	12H	17.1	17.4	18.0	18.3	19.3	16.6	16.9	17.4	17.7	18.8
12H	4H	15.6	16.1	16.4	16.9	17.8	15.3	15.9	16.1	16.6	17.6
	6H	16.4	16.8	17.2	17.6	18.6	16.0	16.4	16.9	17.2	18.2
	8H	16.8	17.2	17.7	18.0	19.0	16.4	16.7	17.2	17.6	18.6
Variations with the observer position at spacings:											
S = 1.0H	+ 0.5 / - 0.5					+ 0.5 / - 0.5					
1.5H	+ 0.3 / - 0.4					+ 0.2 / - 0.2					
2.0H	+ 1.0 / - 1.1					+ 1.0 / - 1.1					

CIE Pub.117, 3065 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 3.9$ )

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2022-05-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:229.74V I:0.1308A P:28.431W PF:0.9458 Freq:49.99Hz Lamp Flux:3064.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*450*82	SERIAL No.:
MFR.: A4762092-26	SUR.:0.427*0.427	Shielding Angle:

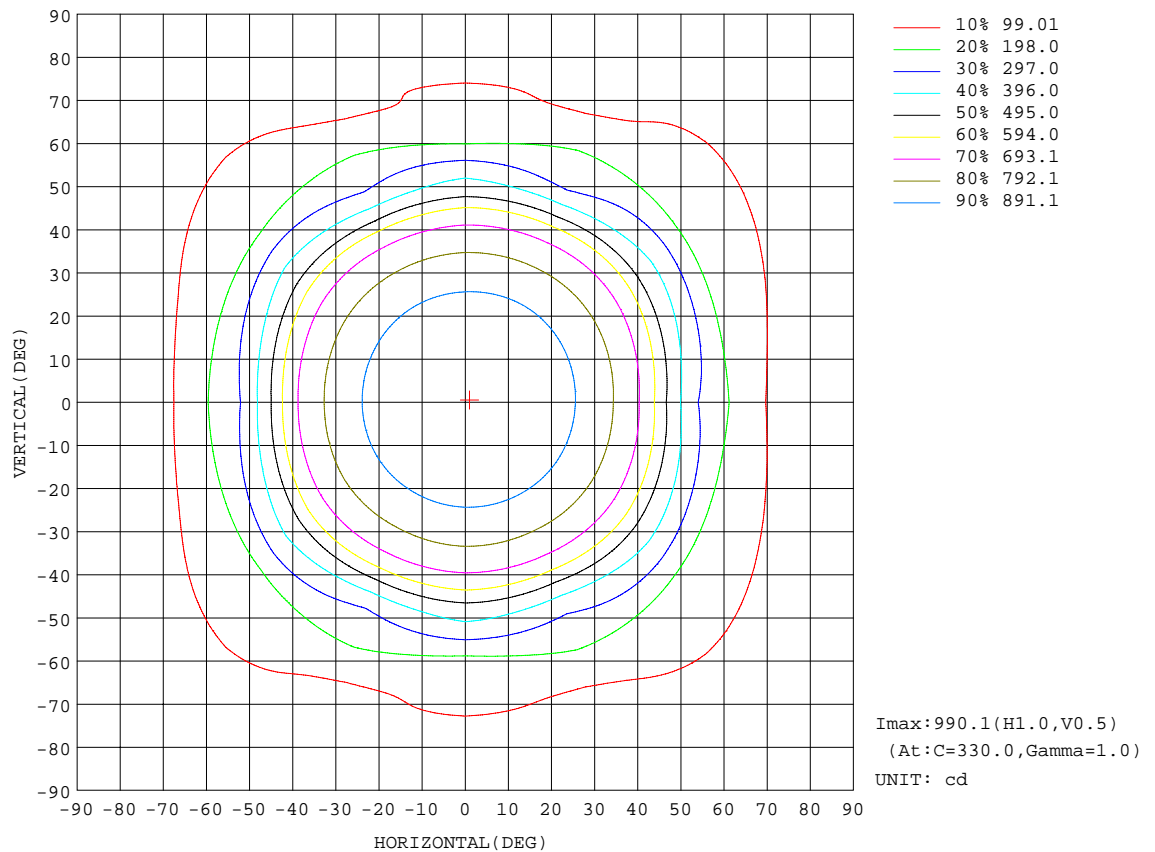
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	55	45	39	53	44	38	50	42	37	30
0.80	65	54	48	62	53	47	58	50	45	37
1.00	72	62	56	70	61	55	65	59	52	43
1.25	79	69	63	76	67	61	70	63	58	48
1.50	84	75	68	80	72	66	74	67	63	51
2.00	90	82	76	86	79	74	78	73	69	55
2.50	93	86	81	89	83	78	81	76	72	58
3.00	96	90	85	92	86	82	83	79	76	60
4.00	100	95	90	95	90	87	86	83	80	62
5.00	102	98	94	97	93	90	88	85	82	64
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: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2022-05-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:229.74V I:0.1308A P:28.431W PF:0.9458 Freq:49.99Hz Lamp Flux:3064.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*450*82	SERIAL No.:
MFR.: A4762092-26	SUR.:0.427*0.427	Shielding Angle:



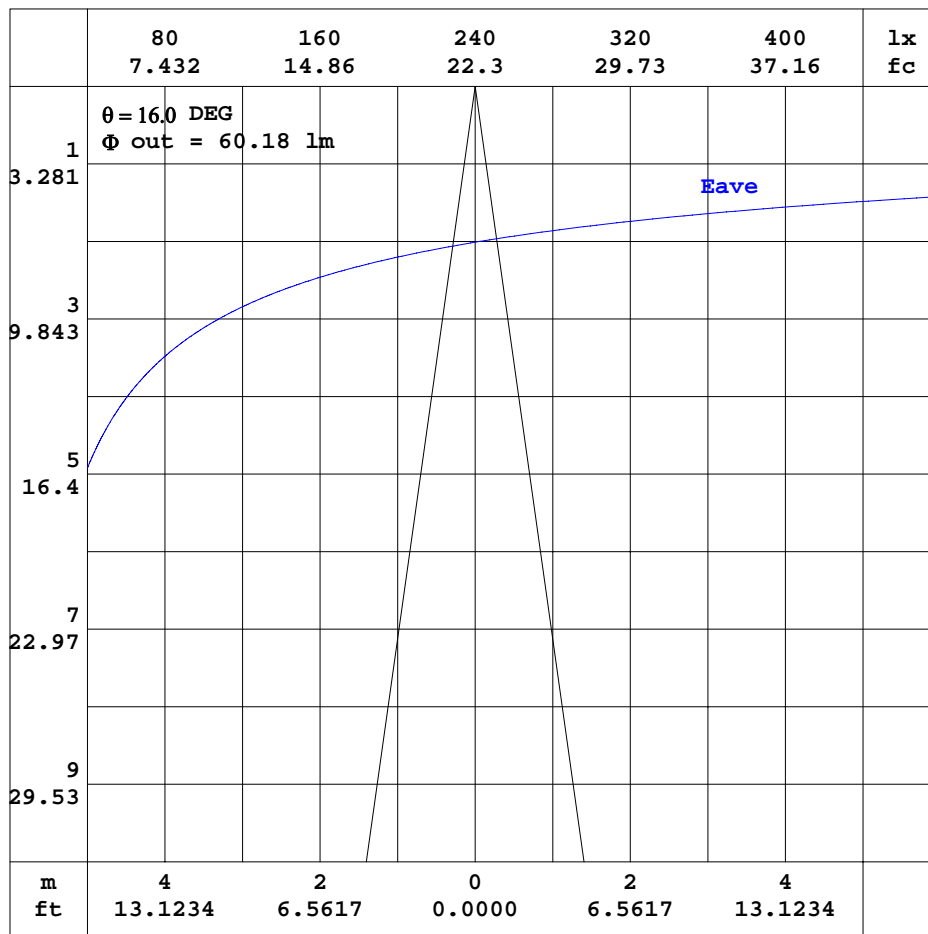
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2022-05-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:



### AAI CURVES

Test:U:229.74V I:0.1308A P:28.431W PF:0.9458 Freq:49.99Hz Lamp Flux:3064.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*450*82	SERIAL No.:
MFR.: A4762092-26	SUR.:0.427*0.427	Shielding Angle:



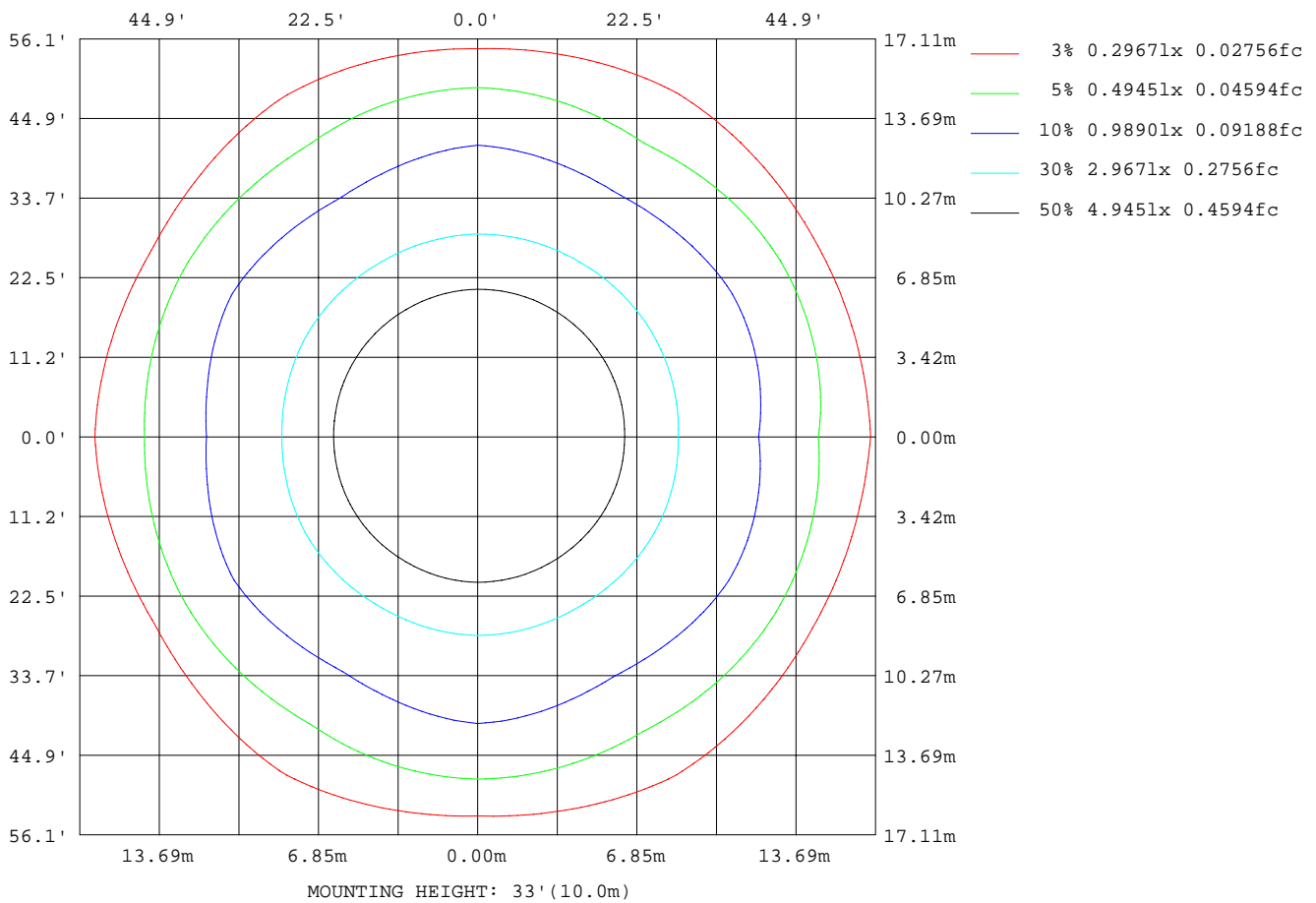
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-05-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity: 65.0%  
Test Distance: 11.700m [K=0.8547]  
Remarks:

### ISOLUX DIAGRAM

Test:U:229.74V I:0.1308A P:28.431W PF:0.9458 Freq:49.99Hz Lamp Flux:3064.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*450*82	SERIAL No.:
MFR.: A4762092-26	SUR.:0.427*0.427	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2022-05-03

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:

## LED Avg.L Report

Test:U:229.74V I:0.1308A P:28.431W PF:0.9458 Freq:49.99Hz Lamp Flux:3064.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*450*82	SERIAL No.:
MFR.: A4762092-26	SUR.:0.427*0.427	Shielding Angle:

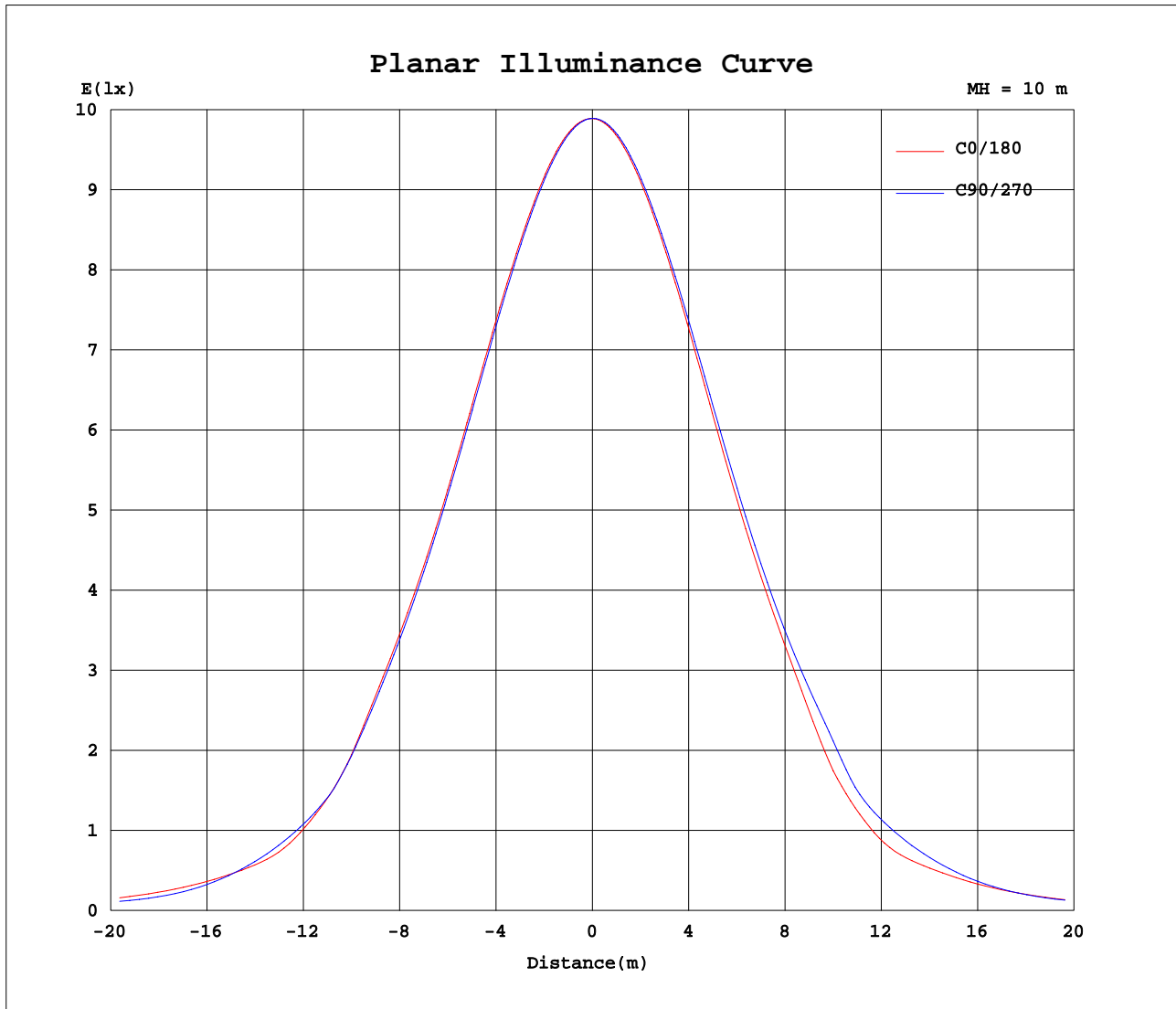
AvgL	cd/m2
L_0~180(65)av	1706
L_0~180(75)av	1602
L_0~180(85)av	1844
L_90~270(65)av	1477
L_90~270(75)av	1863
L_90~270(85)av	1935
L_45(65)av	1661
L_45(75)av	1757
L_45(85)av	1812

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2022-05-03

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-05-03

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity: 65.0%  
Test Distance: 11.700m [K=0.8547]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.74V I:0.1308A P:28.431W PF:0.9458 Freq:49.99Hz Lamp Flux:3064.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*450*82	SERIAL No.:
MFR.: A4762092-26	SUR.:0.427*0.427	Shielding 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	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989
5	986	986	986	986	986	986	986	986	985	985	985	985	985	985	985	985	984	984	984
10	976	976	975	975	975	975	975	974	974	974	974	973	973	973	972	972	972	972	972
15	958	957	957	957	957	956	956	956	955	955	955	954	954	953	953	953	952	952	952
20	932	932	931	931	930	930	929	929	928	928	927	927	926	926	926	925	925	924	924
25	896	895	894	894	893	893	892	891	890	890	889	888	888	887	887	887	886	886	886
30	846	846	845	845	844	843	843	841	840	839	838	836	835	835	835	835	835	835	835
35	783	783	783	782	782	781	780	778	777	775	773	771	770	770	770	770	770	770	770
40	700	702	703	703	703	702	701	698	694	690	686	683	680	680	681	682	683	684	685
45	551	559	566	571	573	574	573	565	556	547	538	529	522	525	529	534	539	544	547
50	393	407	417	424	429	431	430	420	408	395	383	372	363	370	380	390	400	409	415
55	285	294	301	306	310	311	311	307	301	294	287	281	276	279	283	288	292	296	299
60	215	207	201	196	192	190	189	192	197	202	207	211	214	207	199	191	183	176	170
65	143	136	131	126	123	121	120	122	125	129	132	135	137	133	129	123	118	114	110
70	97.3	101	104	107	108	109	109	107	105	102	98.9	96.3	94.3	96.2	98.6	101	104	106	108
75	79.9	82.6	84.8	86.5	87.6	88.3	88.4	87.1	85.4	83.6	81.7	79.9	78.4	79.1	80.1	81.2	82.4	83.5	84.4
80	56.9	59.9	62.2	64.0	65.1	65.6	65.5	63.7	61.5	59.0	56.5	54.1	52.1	52.6	53.4	54.5	55.6	56.5	57.2
85	33.8	34.9	35.8	36.3	36.6	36.6	36.2	35.1	33.8	32.3	30.8	29.4	28.2	28.2	28.4	28.7	29.0	29.2	29.3
90	3.33	3.10	2.87	2.64	2.42	2.20	1.98	1.74	1.51	1.29	1.08	0.91	0.76	0.70	0.67	0.67	0.68	0.71	0.74
95	17.7	16.8	15.9	15.2	14.6	14.0	13.6	13.3	13.1	12.9	12.9	12.9	12.9	13.1	13.2	13.4	13.6	13.7	13.7
100	39.0	36.9	35.1	33.4	32.0	30.9	30.0	29.4	29.0	28.9	28.9	29.0	29.3	29.9	30.6	31.2	31.8	32.2	32.5
105	64.1	60.5	57.4	54.6	52.3	50.4	48.9	48.0	47.6	47.4	47.5	47.9	48.6	49.8	51.1	52.4	53.5	54.4	55.1
110	90.0	85.1	80.7	76.9	73.7	71.1	69.1	67.9	67.3	67.2	67.5	68.1	69.2	71.1	73.1	75.1	76.9	78.4	79.4
115	115	109	104	99.1	95.1	91.9	89.4	87.9	87.2	87.1	87.5	88.5	89.9	92.5	95.4	98.2	101	103	104
120	143	135	128	122	117	113	109	108	107	107	107	108	110	114	117	121	124	127	128
125	167	158	150	144	138	133	130	128	127	127	128	130	132	136	140	144	147	150	152
130	192	184	176	170	165	161	158	157	157	158	159	160	163	165	168	170	172	173	173
135	213	210	207	205	203	200	199	197	195	194	193	192	191	192	192	193	194	194	194
140	234	236	236	237	236	236	234	232	229	225	222	219	216	215	214	214	213	213	213
145	258	263	267	270	271	272	272	270	266	262	258	254	249	246	243	240	237	236	235
150	297	301	304	307	309	310	311	311	310	309	307	305	302	298	293	288	284	280	278
155	329	330	332	333	334	334	335	335	334	334	333	332	331	330	328	327	326	325	324
160	346	347	347	348	348	349	349	349	349	348	348	348	347	347	347	346	346	345	345
165	361	361	361	362	362	362	362	361	361	360	360	359	359	359	358	358	358	358	358
170	368	368	369	369	369	369	369	369	368	368	367	367	366	366	366	366	366	367	367
175	372	372	372	372	371	371	371	371	371	371	372	372	372	372	372	372	372	372	372
180	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2022-05-03

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.74V I:0.1308A P:28.431W PF:0.9458 Freq:49.99Hz Lamp Flux:3064.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*450*82	SERIAL No.:
MFR.: A4762092-26	SUR.:0.427*0.427	Shielding Angle:

Table--2

UNIT: cd

C(°) \ γ (°)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	989	989	989	989	989	989	990	990	990	990	990	990	990	990	990	989	989	989	989
5	984	984	984	984	984	984	984	984	984	984	984	984	984	984	984	984	984	984	984
10	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971	970	970	971
15	951	951	951	950	950	950	950	950	950	950	950	950	950	950	950	950	950	950	950
20	923	923	923	922	922	921	921	921	921	921	921	921	921	921	921	921	921	921	922
25	885	884	883	883	882	881	881	881	881	881	881	881	881	881	881	881	881	881	881
30	834	833	831	830	829	828	827	827	828	828	828	829	828	828	827	827	827	827	828
35	768	766	764	763	761	760	760	760	760	761	761	762	761	761	760	759	759	759	760
40	682	678	675	671	668	666	667	668	670	672	674	676	674	672	670	668	666	665	668
45	540	532	524	515	507	501	505	509	515	521	526	530	525	518	511	504	498	494	501
50	404	390	375	360	347	336	344	355	366	379	390	399	391	381	369	358	348	340	349
55	294	288	281	275	268	263	264	266	269	272	275	278	276	273	271	268	266	265	267
60	175	181	188	195	201	205	199	191	183	174	166	159	163	168	174	181	187	192	188
65	112	115	119	123	126	129	127	124	121	118	114	112	112	114	115	117	119	120	119
70	105	102	99.1	95.9	93.0	90.7	93.0	95.9	99.1	102	105	108	105	102	98.8	95.4	92.5	90.2	92.7
75	83.5	82.4	81.2	79.8	78.6	77.5	77.7	78.1	78.6	79.1	79.4	79.6	78.2	76.7	75.2	73.6	72.3	71.2	71.7
80	55.4	53.3	51.0	48.9	47.0	45.6	46.9	48.7	50.7	52.7	54.7	56.3	55.5	54.4	53.1	51.8	50.5	49.4	50.4
85	28.1	26.9	25.6	24.3	23.2	22.2	22.4	22.7	23.3	23.9	24.6	25.2	25.2	25.2	25.1	25.0	24.9	24.8	25.2
90	0.74	0.75	0.75	0.75	0.76	0.76	0.76	0.75	0.75	0.75	0.76	0.77	0.83	0.89	0.95	1.01	1.07	1.13	1.14
95	13.4	13.1	12.7	12.3	11.9	11.5	11.3	11.2	11.1	11.1	11.2	11.4	11.9	12.5	13.1	13.6	14.1	14.5	14.3
100	31.9	31.1	30.1	29.1	28.2	27.3	26.9	26.6	26.5	26.8	27.2	28.6	30.0	31.5	32.9	34.0	34.9	34.9	34.1
105	54.0	52.6	50.9	49.2	47.5	46.0	45.2	44.8	44.6	44.7	45.1	45.8	48.1	50.5	53.0	55.3	57.2	58.6	57.2
110	77.8	75.8	73.4	70.9	68.5	66.2	65.1	64.3	64.0	64.2	64.8	66.0	69.4	73.2	76.9	80.3	83.2	85.3	83.1
115	102	99.4	96.3	92.9	89.6	86.5	85.1	84.1	83.8	84.0	84.9	86.5	91.0	96.0	101	105	109	112	109
120	126	122	118	114	110	106	105	104	103	103	105	107	112	119	125	131	136	139	135
125	148	144	140	135	130	126	124	123	123	124	126	128	135	142	149	155	160	164	160
130	170	165	160	155	151	147	147	148	150	153	156	160	165	171	176	181	184	186	183
135	191	188	185	183	180	179	181	184	188	192	196	200	203	205	206	207	208	208	208
140	212	211	210	210	209	210	213	216	220	223	227	230	230	231	231	230	230	229	230
145	236	237	240	242	245	247	250	251	253	255	256	257	256	255	254	253	252	252	253
150	281	285	289	294	299	303	304	304	303	302	300	298	293	289	285	281	279	277	279
155	325	326	327	329	330	331	331	331	331	330	329	329	327	326	325	323	323	322	322
160	345	345	346	346	346	347	347	347	347	347	347	347	346	345	345	344	343	343	343
165	358	358	359	359	359	359	359	359	359	358	358	358	358	358	358	358	358	358	358
170	367	367	367	367	367	367	367	367	368	368	367	367	367	367	367	367	367	367	367
175	371	371	371	371	371	370	370	370	370	369	369	369	369	369	369	369	369	369	370
180	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-05-03

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
 Humidity: 65.0%  
 Test Distance: 11.700m [K=0.8547]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.74V I:0.1308A P:28.431W PF:0.9458 Freq:49.99Hz Lamp Flux:3064.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 450*450*82	SERIAL No.:
MFR.: A4762092-26	SUR.:0.427*0.427	Shielding Angle:

Table--3

UNIT: cd

C(DEC) γ (DEC)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989
5	984	984	984	984	984	984	985	985	985	985	985	985	985	986	986	986	986	986	986
10	971	971	971	971	972	972	972	973	973	973	974	974	974	974	975	975	975	975	976
15	950	951	951	951	952	952	953	953	953	954	954	955	955	956	956	956	957	957	957
20	922	922	923	923	924	924	925	926	927	927	928	929	929	930	930	931	931	932	932
25	882	882	883	883	884	885	886	887	889	890	891	892	893	894	895	895	896	897	898
30	828	829	830	832	833	834	835	836	838	839	840	842	843	845	846	848	849	850	850
35	761	763	764	766	768	769	770	771	773	774	776	778	780	782	784	786	788	789	789
40	671	675	679	683	687	688	689	690	691	692	693	696	700	703	706	710	712	713	713
45	509	518	528	537	546	546	544	542	541	539	540	549	559	570	581	590	599	598	596
50	360	372	385	396	406	400	392	384	375	368	363	374	386	400	414	427	437	432	425
55	271	274	278	282	284	282	280	277	275	274	274	283	292	302	311	319	324	318	309
60	183	178	173	169	166	172	180	188	197	205	211	210	208	204	201	198	196	200	206
65	117	116	115	114	114	117	121	126	130	133	136	133	130	126	123	120	118	123	129
70	95.9	99.4	103	106	109	107	104	101	97.4	94.5	92.2	94.2	97.0	100	103	106	109	107	105
75	72.5	73.6	74.8	76.1	77.5	78.1	78.8	79.4	80.1	80.9	81.8	83.5	85.3	87.1	88.8	90.2	91.4	91.1	90.6
80	51.7	53.0	54.3	55.4	56.1	54.5	52.6	50.6	48.6	46.9	45.5	46.6	48.1	49.9	51.8	53.7	55.4	55.2	54.8
85	25.6	26.0	26.4	26.9	27.2	27.1	27.0	26.8	26.7	26.7	26.8	27.7	28.7	29.7	30.7	31.6	32.2	31.7	31.0
90	1.14	1.14	1.13	1.12	1.11	1.09	1.08	1.07	1.06	1.06	1.07	1.10	1.13	1.18	1.24	1.32	1.42	1.56	1.72
95	13.9	13.5	13.0	12.6	12.2	12.1	12.1	12.1	12.3	12.5	12.8	13.3	13.8	14.3	14.9	15.3	15.7	15.5	15.3
100	32.9	31.6	30.2	28.8	27.5	27.2	27.0	27.1	27.4	27.8	28.4	29.5	30.7	31.8	32.9	33.8	34.5	34.1	33.4
105	55.3	53.1	50.7	48.3	46.0	45.3	44.9	44.8	45.0	45.6	46.4	48.3	50.2	52.2	54.1	55.7	56.9	56.1	54.9
110	80.0	76.5	72.7	68.9	65.4	64.3	63.8	63.8	64.2	65.2	66.5	69.0	71.7	74.4	76.9	79.1	80.7	79.4	77.5
115	105	99.6	94.4	89.2	84.5	83.2	82.7	82.9	83.7	85.1	87.0	90.2	93.6	97.0	100	103	105	103	101
120	130	124	117	110	104	103	102	102	103	104	107	111	115	119	123	126	129	126	123
125	154	147	139	132	125	123	122	122	123	124	126	131	136	140	145	148	151	148	145
130	178	172	166	159	154	151	149	148	148	149	150	153	157	161	165	169	172	170	168
135	206	205	203	200	198	195	192	189	186	184	182	183	184	186	187	189	191	190	190
140	230	230	230	230	229	226	223	219	216	212	209	208	208	208	209	209	210	210	211
145	254	256	257	258	259	258	256	254	252	249	247	243	240	237	235	233	232	234	236
150	283	287	292	297	301	303	305	306	306	305	303	298	292	286	281	276	273	276	281
155	323	324	325	326	327	328	329	330	331	331	331	330	329	327	326	325	324	325	326
160	343	344	344	345	346	346	347	348	348	348	349	348	348	347	347	346	346	346	347
165	359	359	359	360	360	360	360	360	361	361	361	360	360	360	359	359	359	359	359
170	367	368	368	368	369	369	369	369	369	369	369	368	368	367	367	367	366	366	367
175	370	371	372	372	373	373	373	373	373	373	373	373	372	371	371	370	370	370	370
180	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2022-05-03

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.74V I:0.1308A P:28.431W PF:0.9458 Freq:49.99Hz Lamp Flux:3064.96x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.: 450*450*82						SERIAL No.:		
MFR.: A4762092-26									SUR.:0.427*0.427						Shielding 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	989	989	989	989	990	990	990	990	990	990	990	990	990	990	989				
5	986	987	987	987	987	987	987	987	987	987	987	987	987	987	987				
10	976	976	976	976	977	977	977	977	977	977	977	977	977	977	976				
15	958	958	958	958	959	959	959	959	959	959	959	959	959	959	958				
20	933	933	934	934	934	934	934	934	934	934	934	934	933	933	933				
25	898	899	899	899	899	899	899	899	899	899	898	898	897	897	896				
30	851	851	852	852	852	852	852	852	852	851	851	850	849	848	847				
35	789	789	789	789	790	790	791	791	791	791	790	789	788	787	785				
40	713	712	712	711	712	713	714	715	715	715	714	713	710	707	704				
45	593	589	585	582	585	589	594	597	600	601	598	592	585	575	564				
50	416	407	399	392	399	408	417	426	435	441	440	436	429	420	408				
55	299	290	281	274	281	290	300	310	319	327	326	323	318	309	298				
60	211	217	222	226	223	219	215	210	205	201	201	202	203	206	210				
65	135	141	147	151	147	142	137	131	125	121	121	122	125	130	136				
70	103	101	99.1	97.5	99.2	101	104	106	108	110	109	108	106	104	101				
75	89.8	89.0	88.2	87.5	88.3	89.2	90.1	90.8	91.4	91.6	90.8	89.5	87.7	85.6	83.0				
80	54.3	53.8	53.4	53.2	54.6	56.1	57.8	59.4	60.8	62.0	62.1	61.9	61.2	60.1	58.7				
85	30.2	29.5	28.9	28.6	29.8	31.2	32.7	34.2	35.7	36.9	37.1	37.1	36.7	36.1	35.1				
90	1.90	2.09	2.29	2.49	2.73	2.97	3.20	3.40	3.58	3.72	3.77	3.77	3.73	3.64	3.51				
95	15.0	14.6	14.3	14.0	13.9	13.8	13.9	14.0	14.1	14.4	14.7	15.2	15.7	16.3	17.0				
100	32.6	31.7	30.7	29.8	29.2	28.8	28.5	28.4	28.5	28.9	29.8	31.1	32.6	34.4	36.6				
105	53.3	51.7	50.0	48.5	47.8	47.3	47.2	47.4	47.9	48.8	50.3	52.3	54.6	57.3	60.5				
110	75.3	72.9	70.5	68.2	67.2	66.5	66.3	66.5	67.3	68.6	70.7	73.4	76.7	80.5	85.0				
115	98.0	95.0	91.9	89.0	87.6	86.7	86.3	86.6	87.4	88.9	91.5	94.8	98.9	104	109				
120	120	116	112	108	106	105	104	104	105	107	111	115	121	127	135				
125	140	136	131	127	125	124	124	125	127	129	133	138	144	151	158				
130	165	162	160	157	157	157	158	159	161	164	167	171	175	180	186				
135	189	189	188	189	191	194	197	200	203	206	208	209	211	212	212				
140	211	212	213	214	217	221	225	228	232	235	236	237	237	237	236				
145	239	243	247	251	255	259	263	266	269	271	271	270	268	266	262				
150	287	293	299	305	308	309	311	311	311	311	310	308	306	304	301				
155	327	329	331	332	333	334	334	334	334	334	333	333	332	331	330				
160	347	348	348	349	349	349	349	349	349	349	349	348	348	347	347				
165	358	358	359	359	359	360	360	361	361	362	362	362	362	361	361				
170	367	367	368	368	368	368	368	368	368	367	367	367	367	368	368				
175	371	371	372	372	372	372	372	373	373	373	373	373	372	372	372				
180	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372				

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:2022-05-03

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=0.8547]  
Remarks: