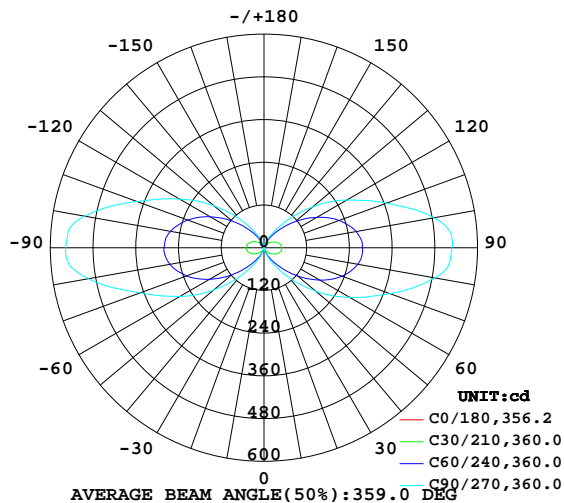


## LUMINAIRE PHOTOMETRIC TEST REPORT

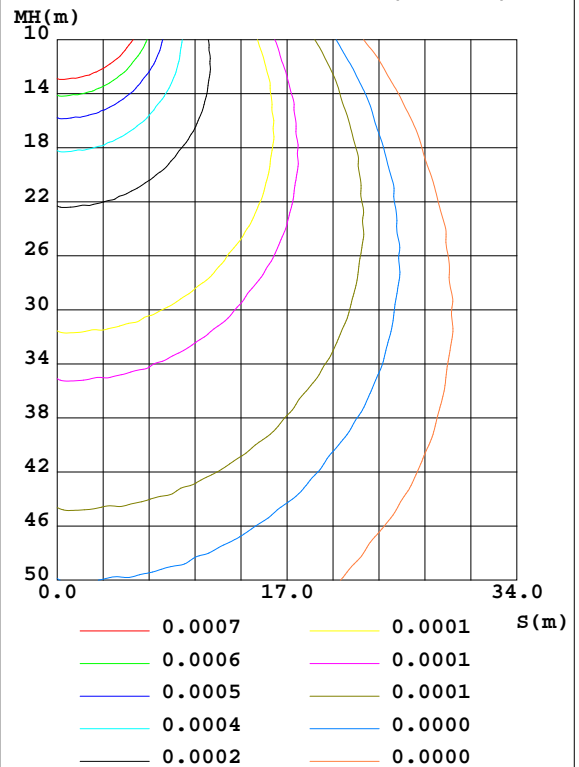
Test:U:120.0V I:0.0823A P:9.70W PF:0.9816 Freq:60.00Hz Lamp Flux:1354.63x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 139.65 lm/W			
MODEL	INDFPS020UNHD8SC2R4BZP	Imax(cd)	557.4	S/MH(C0/180)	1.20
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.09
RATED VOLTAGE(V)	120-347	TOTAL FLUX(lm)	1354.6	$\eta$ UP,DN(C0-180)	24.5,25.3
NOMINAL FLUX(lm)	1354.63	CIE CLASS	DIFFUSE	$\eta$ UP,DN(C180-360)	25.2,25.0
LAMPS INSIDE	1	$\eta$ up(%)	49.7	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	$\eta$ down(%)	50.3	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 15 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance: 2.500m [K=1.0461]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	0.1204	2.068	4.298	2.137	0.1135	1.772	3.635	1.512	0- 10	0.0777	0.0777	0.01,0.01
20	0.1160	8.557	19.23	8.466	0.1052	7.863	17.03	7.119	10- 20	1.440	1.517	0.11,0.11
30	0.1078	21.14	51.20	20.47	0.0963	19.72	47.37	17.88	20- 30	7.015	8.533	0.63,0.63
40	0.0945	40.40	109.6	37.81	0.0846	38.39	103.8	34.16	30- 40	20.93	29.46	2.17,2.17
50	0.0789	65.88	190.1	60.55	0.0703	63.03	184.2	56.19	40- 50	47.73	77.18	5.7,5.7
60	0.0631	94.70	278.6	86.79	0.0564	92.41	273.3	82.91	50- 60	86.90	164.1	12.1,12.1
70	0.0514	122.5	376.8	111.3	0.0472	119.9	370.9	108.1	60- 70	131.7	295.8	21.8,21.8
80	0.0485	140.8	486.8	127.4	0.0453	139.6	500.8	126.7	70- 80	176.6	472.4	34.9,34.9
90	0.0504	146.9	528.0	132.4	0.0450	146.9	556.5	133.5	80- 90	208.9	681.4	50.3,50.3
100	0.0491	138.0	484.4	125.8	0.0447	139.3	511.9	126.6	90-100	209.0	890.3	65.7,65.7
110	0.0476	117.3	366.4	108.1	0.0453	119.4	380.7	108.2	100-110	175.9	1066	78.7,78.7
120	0.0485	89.35	268.2	82.11	0.0453	91.96	273.8	82.98	110-120	129.5	1196	88.3,88.3
130	0.0510	60.62	179.2	56.73	0.0501	62.93	183.6	57.20	120-130	84.45	1280	94.5,94.5
140	0.0567	36.87	100.4	35.03	0.0580	38.38	103.5	35.41	130-140	45.98	1326	97.9,97.9
150	0.0668	19.20	46.22	18.59	0.0707	19.55	48.14	19.95	140-150	20.15	1346	99.4,99.4
160	0.0834	7.688	17.14	7.675	0.0900	6.734	18.12	9.922	150-160	6.829	1353	99.9,99.9
170	0.0948	1.730	3.815	1.858	0.0957	1.373	4.166	3.019	160-170	1.447	1355	100,100
180	0.0518	0.0323	0.0231	0.0333	0.0564	0.0430	0.0257	0.0279	170-180	0.0844	1355	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 49.122 lm

%lum = 3.6%

%lamp = 3.6%

Conical surface Flux(120deg): 164.08 lm

%lum = 12.1%

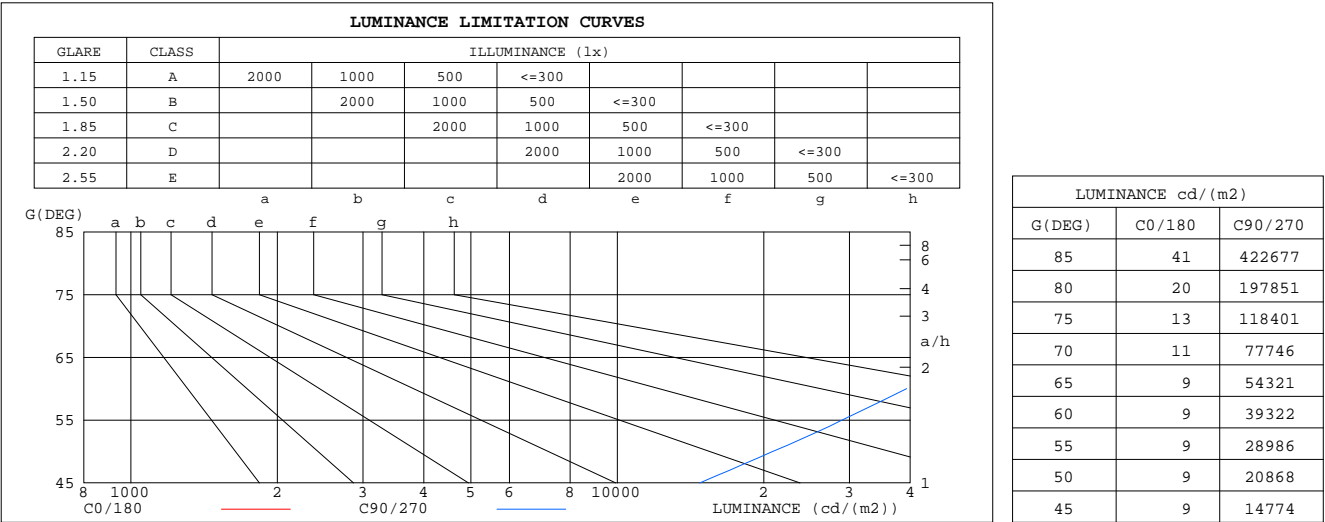
%lamp = 12.1%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 15 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance: 2.500m [K=1.0461]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.0823A P:9.70W PF:0.9816 Freq:60.00Hz Lamp Flux:1354.63x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:



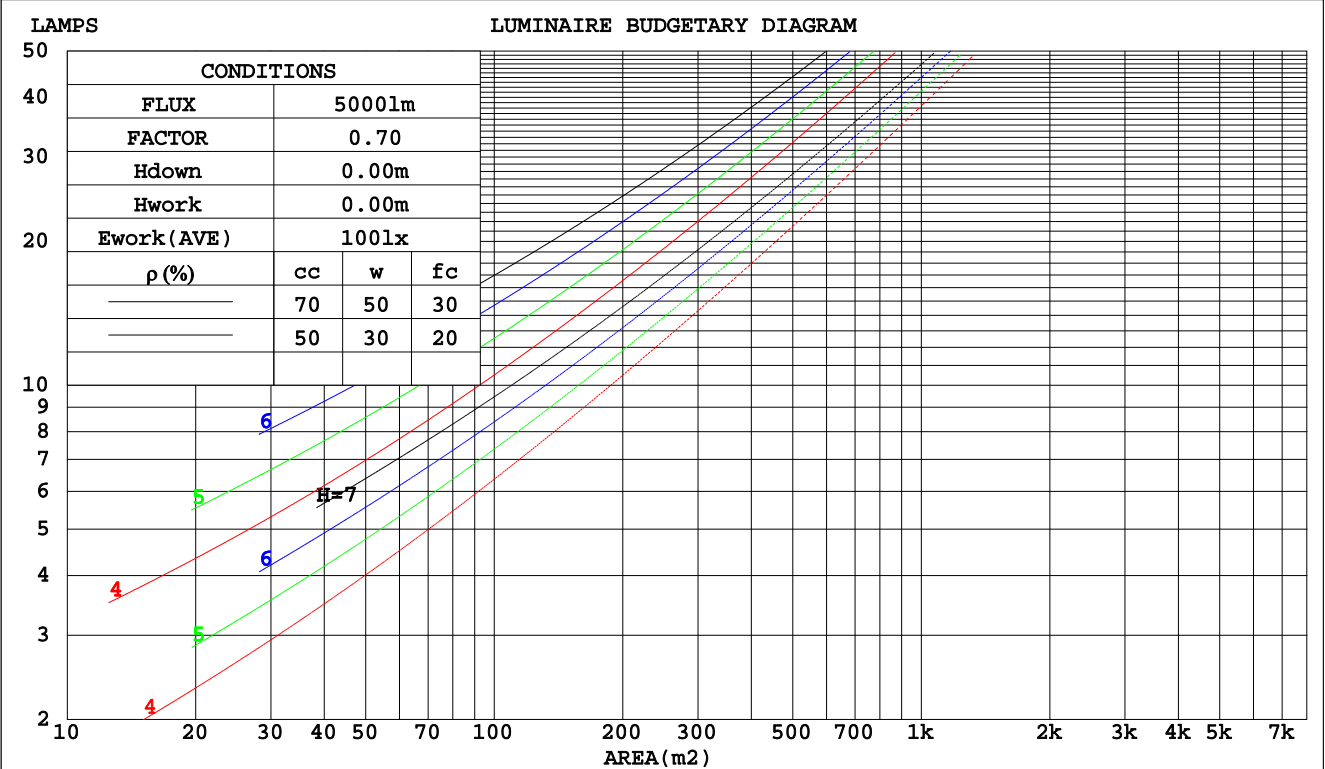
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators:Alan Wang  
Test Date:15 October 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance:2.500m [K=1.0461]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.0823A P:9.70W PF:0.9816 Freq:60.00Hz Lamp Flux:1354.63x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:

pcc	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                      Coefficients of Utilization(CU)															
0.0	1.07	1.07	1.07	.99	.99	.99	.83	.83	.83	.69	.69	.69	.56	.56	.56	.50
1.0	.82	.75	.69	.75	.69	.63	.61	.57	.52	.49	.45	.42	.37	.35	.32	.26
2.0	.68	.59	.51	.62	.53	.46	.50	.43	.38	.39	.34	.29	.29	.25	.22	.16
3.0	.57	.47	.39	.52	.43	.36	.42	.35	.29	.32	.27	.22	.23	.19	.15	.11
4.0	.49	.39	.31	.45	.35	.28	.36	.28	.23	.27	.22	.17	.20	.15	.12	.07
5.0	.43	.33	.26	.39	.30	.23	.31	.24	.18	.24	.18	.14	.17	.13	.09	.05
6.0	.38	.28	.21	.35	.26	.19	.28	.20	.15	.21	.16	.11	.15	.11	.07	.04
7.0	.34	.25	.18	.31	.22	.16	.25	.18	.13	.19	.13	.09	.14	.09	.06	.03
8.0	.31	.22	.15	.28	.20	.14	.22	.16	.11	.17	.12	.08	.12	.08	.05	.02
9.0	.28	.19	.13	.25	.17	.12	.20	.14	.09	.16	.11	.07	.11	.07	.04	.02
10.0	.25	.17	.12	.23	.16	.11	.19	.12	.08	.14	.09	.06	.11	.07	.04	.01



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 15 October 2024

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance: 2.500m [K=1.0461]  
Remarks:

## WEC AND CCEC

Test:U:120.0V I:0.0823A P:9.70W PF:0.9816 Freq:60.00Hz Lamp Flux:1354.63x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	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	.494	.281	.089	.472	.269	.085	.429	.246	.079	.390	.225	.072	.355	.206	.066		
2.0	.393	.216	.066	.373	.205	.063	.334	.186	.058	.298	.167	.052	.265	.150	.047		
3.0	.333	.177	.053	.315	.168	.051	.279	.151	.046	.246	.135	.041	.216	.120	.037		
4.0	.291	.151	.044	.274	.143	.042	.241	.128	.038	.211	.113	.034	.183	.099	.030		
5.0	.259	.132	.038	.243	.125	.036	.213	.111	.033	.185	.098	.029	.159	.085	.026		
6.0	.233	.117	.033	.219	.110	.032	.191	.098	.029	.165	.086	.025	.141	.074	.022		
7.0	.212	.105	.030	.199	.099	.028	.174	.088	.025	.150	.077	.022	.127	.066	.019		
8.0	.195	.095	.027	.183	.090	.025	.159	.079	.023	.137	.069	.020	.116	.060	.017		
9.0	.180	.087	.024	.169	.082	.023	.147	.073	.021	.126	.063	.018	.106	.054	.016		
10.0	.168	.080	.022	.157	.076	.021	.136	.067	.019	.117	.058	.016	.099	.050	.014		

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	.569	.569	.569	.486	.486	.486	.332	.332	.332	.191	.191	.191	.061	.061	.061	
1.0	.575	.536	.502	.492	.460	.432	.336	.317	.299	.194	.183	.174	.062	.059	.056	
2.0	.570	.516	.470	.488	.444	.406	.335	.307	.283	.193	.179	.166	.062	.058	.054	
3.0	.563	.501	.452	.483	.432	.392	.331	.300	.275	.191	.175	.162	.062	.057	.053	
4.0	.555	.490	.440	.476	.423	.382	.328	.295	.269	.190	.173	.159	.061	.056	.052	
5.0	.547	.481	.432	.470	.416	.376	.324	.291	.266	.188	.171	.158	.060	.056	.052	
6.0	.540	.474	.427	.464	.411	.372	.320	.287	.263	.186	.169	.156	.060	.055	.052	
7.0	.532	.468	.423	.458	.406	.369	.316	.284	.261	.184	.168	.155	.059	.055	.051	
8.0	.525	.463	.420	.452	.401	.366	.313	.282	.260	.182	.166	.155	.059	.055	.051	
9.0	.519	.458	.418	.447	.398	.364	.310	.280	.259	.180	.165	.154	.058	.054	.051	
10.0	.513	.454	.416	.442	.395	.363	.307	.278	.258	.179	.164	.154	.058	.054	.051	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 15 October 2024

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 41.6%  
 Test Distance: 2.500m [K=1.0461]  
 Remarks:

## UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.0823A P:9.70W PF:0.9816 Freq:60.00Hz Lamp Flux:1354.63x1 lm											
NAME: Optic/CCT/Wattage/Up & Down Light						TYPE:LED			WEIGHT:		
SPEC.:						DIM.:			SERIAL No.:		
MFR.: LEDVANCE LLC						SUR.:			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	8.0	9.1	8.8	10.0	11.2	23.5	24.7	24.4	25.6	26.8	
	3H	8.6	9.7	9.5	10.6	11.9	28.7	29.7	29.6	30.7	31.9
	4H	8.8	9.8	9.7	10.7	12.0	31.5	32.5	32.4	33.4	34.7
	6H	8.9	9.9	9.8	10.8	12.1	34.4	35.4	35.4	36.4	37.6
	8H	9.0	9.9	9.9	10.9	12.1	36.1	37.0	37.0	38.0	39.2
	12H	9.0	9.9	9.9	10.9	12.1	37.8	38.7	38.7	39.7	40.9
4H	2H	16.5	17.5	17.4	18.5	19.7	23.6	24.6	24.5	25.6	26.8
	3H	17.5	18.4	18.4	19.3	20.6	29.1	30.0	30.0	30.9	32.2
	4H	17.7	18.6	18.7	19.5	20.8	32.1	32.9	33.0	33.9	35.2
	6H	17.8	18.6	18.8	19.6	20.9	35.4	36.1	36.3	37.1	38.4
	8H	17.8	18.5	18.8	19.5	20.8	37.1	37.8	38.1	38.8	40.2
	12H	17.8	18.4	18.7	19.4	20.8	39.1	39.7	40.0	40.7	42.1
8H	4H	23.5	24.2	24.5	25.2	26.5	32.1	32.8	33.1	33.8	35.1
	6H	24.0	24.7	25.0	25.7	27.0	35.7	36.3	36.6	37.3	38.6
	8H	24.2	24.7	25.2	25.7	27.1	37.7	38.2	38.7	39.3	40.6
	12H	24.2	24.7	25.2	25.7	27.1	39.9	40.4	40.9	41.5	42.8
12H	4H	25.5	26.2	26.5	27.2	28.5	32.0	32.7	33.0	33.7	35.0
	6H	26.6	27.1	27.6	28.1	29.5	35.6	36.2	36.6	37.2	38.6
	8H	26.9	27.4	27.9	28.4	29.8	37.7	38.2	38.7	39.3	40.6
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.1					+ 0.3 / - 0.3					
2.0H	+ 0.4 / - 0.3					+ 0.3 / - 0.3					

CIE Pub.117, 1355 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 1.1$ )  
Area: 0.0141692 m<sup>2</sup>

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 15 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance: 2.500m [K=1.0461]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.0823A P:9.70W PF:0.9816 Freq:60.00Hz Lamp Flux:1354.63x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:

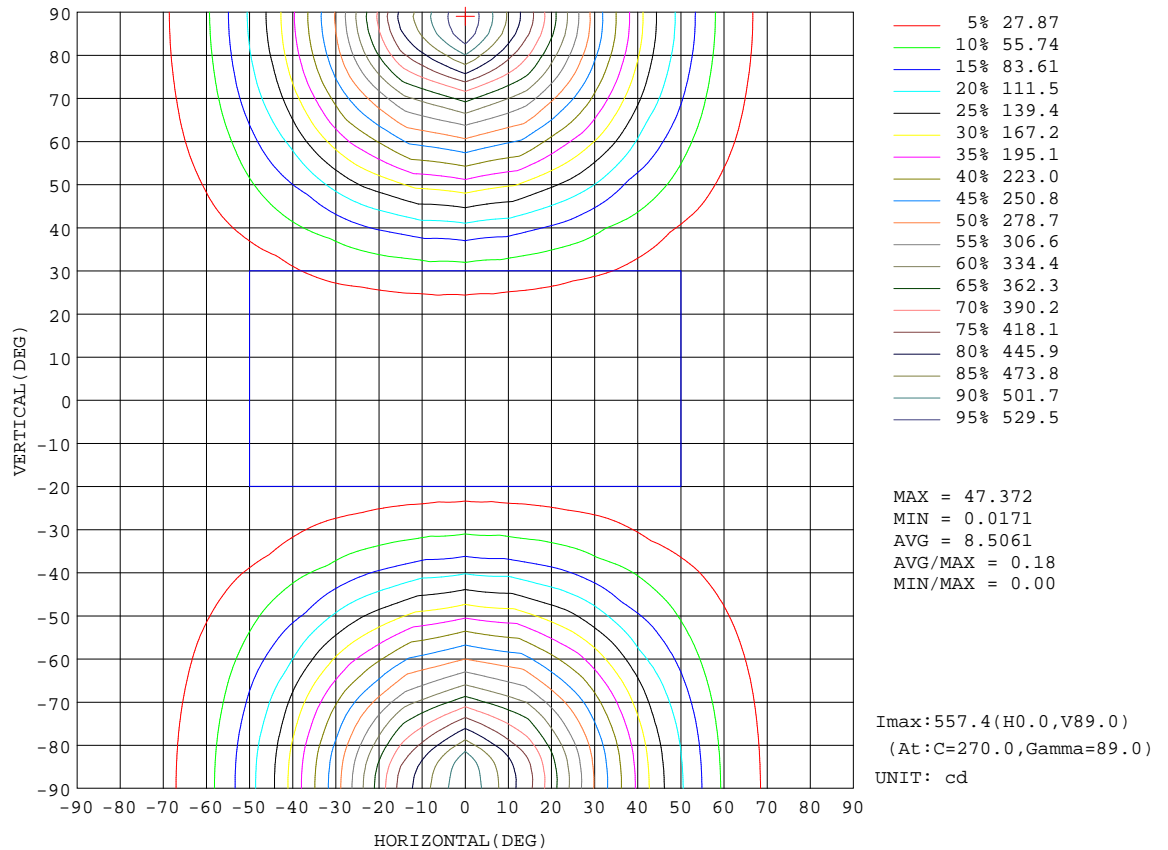
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	31	18	10	30	17	9	26	15	9	1
0.80	39	24	15	37	23	14	32	20	12	3
1.00	46	30	20	43	28	19	37	27	16	5
1.25	52	36	25	49	34	24	42	29	21	7
1.50	58	42	30	53	39	29	45	33	25	10
2.00	66	51	39	61	47	37	51	40	32	14
2.50	71	57	46	66	53	43	55	45	37	17
3.00	76	62	52	69	58	48	58	49	41	19
4.00	81	70	60	75	65	56	63	55	47	24
5.00	85	75	66	78	69	61	66	58	52	27
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: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 15 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 41.6%  
 Test Distance: 2.500m [K=1.0461]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:120.0V I:0.0823A P:9.70W PF:0.9816 Freq:60.00Hz Lamp Flux:1354.63x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:



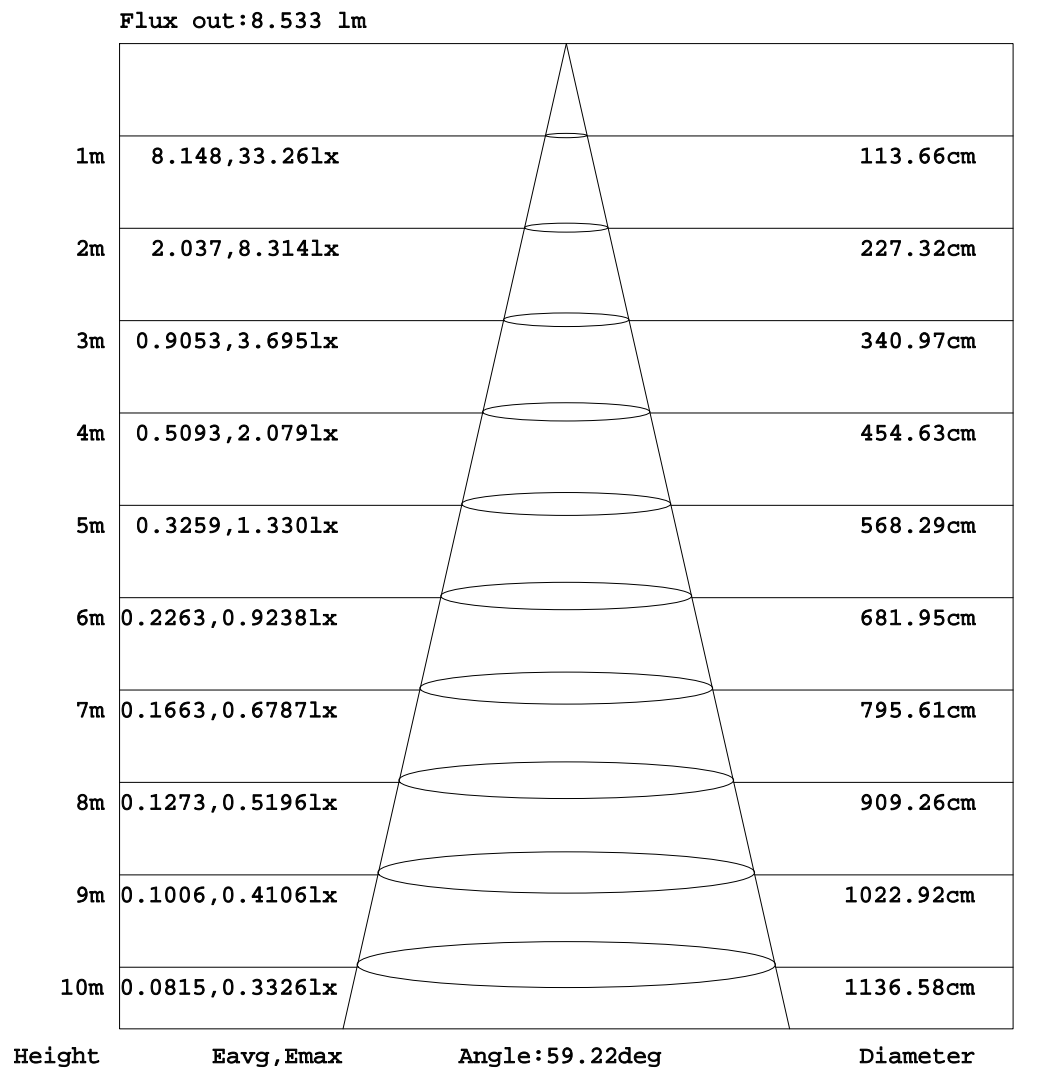
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 15 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance: 2.500m [K=1.0461]  
Remarks:



## AAI Figure

Test:U:120.0V I:0.0823A P:9.70W PF:0.9816 Freq:60.00Hz Lamp Flux:1354.63x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:



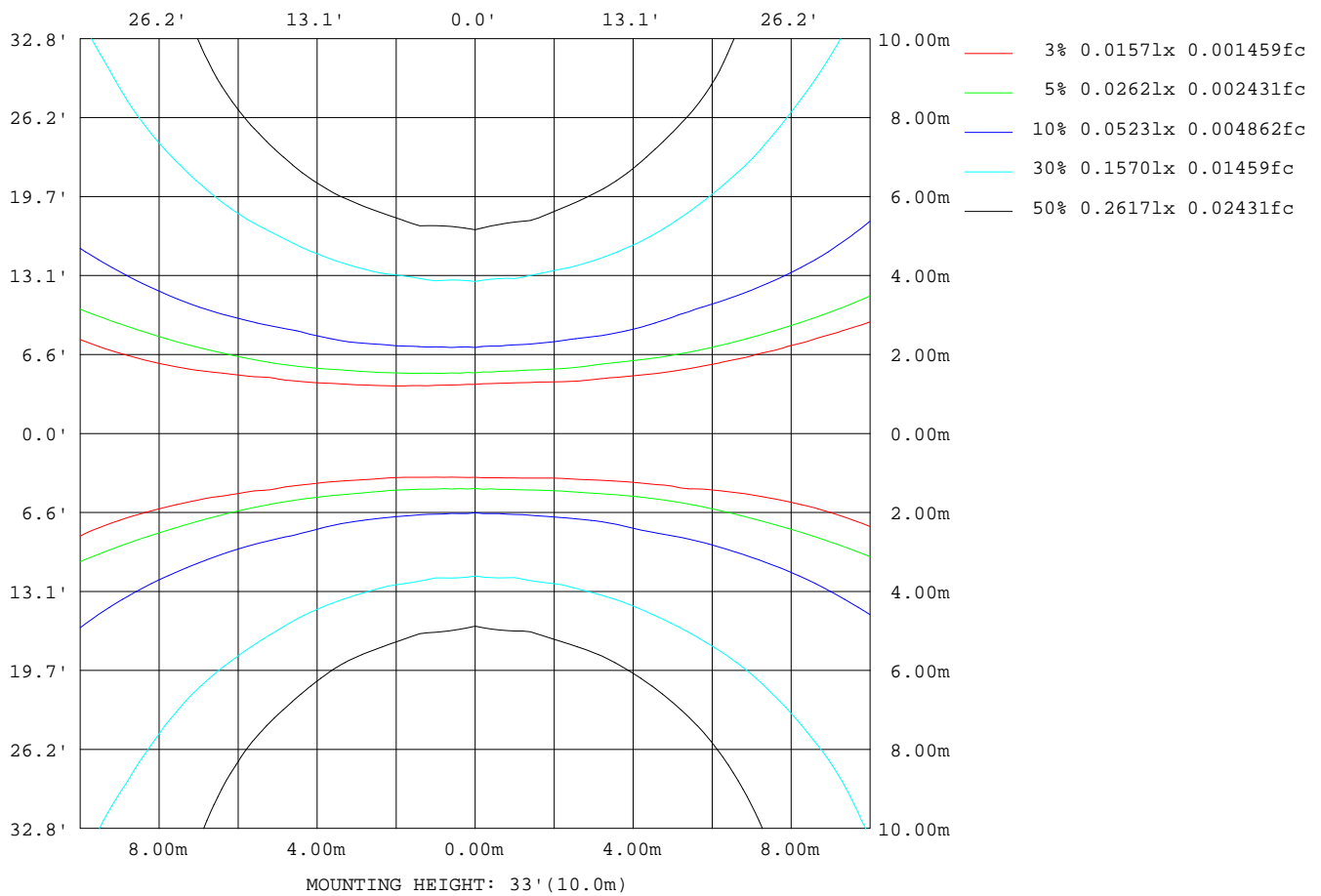
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators:Alan Wang  
 Test Date:15 October 2024

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 41.6%  
 Test Distance:2.500m [K=1.0461]  
 Remarks:

## ISOLUX DIAGRAM

Test:U:120.0V I:0.0823A P:9.70W PF:0.9816 Freq:60.00Hz Lamp Flux:1354.63x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 15 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance: 2.500m [K=1.0461]  
Remarks:

## LED Avg.L Report

Test:U:120.0V I:0.0823A P:9.70W PF:0.9816 Freq:60.00Hz Lamp Flux:1354.63x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:

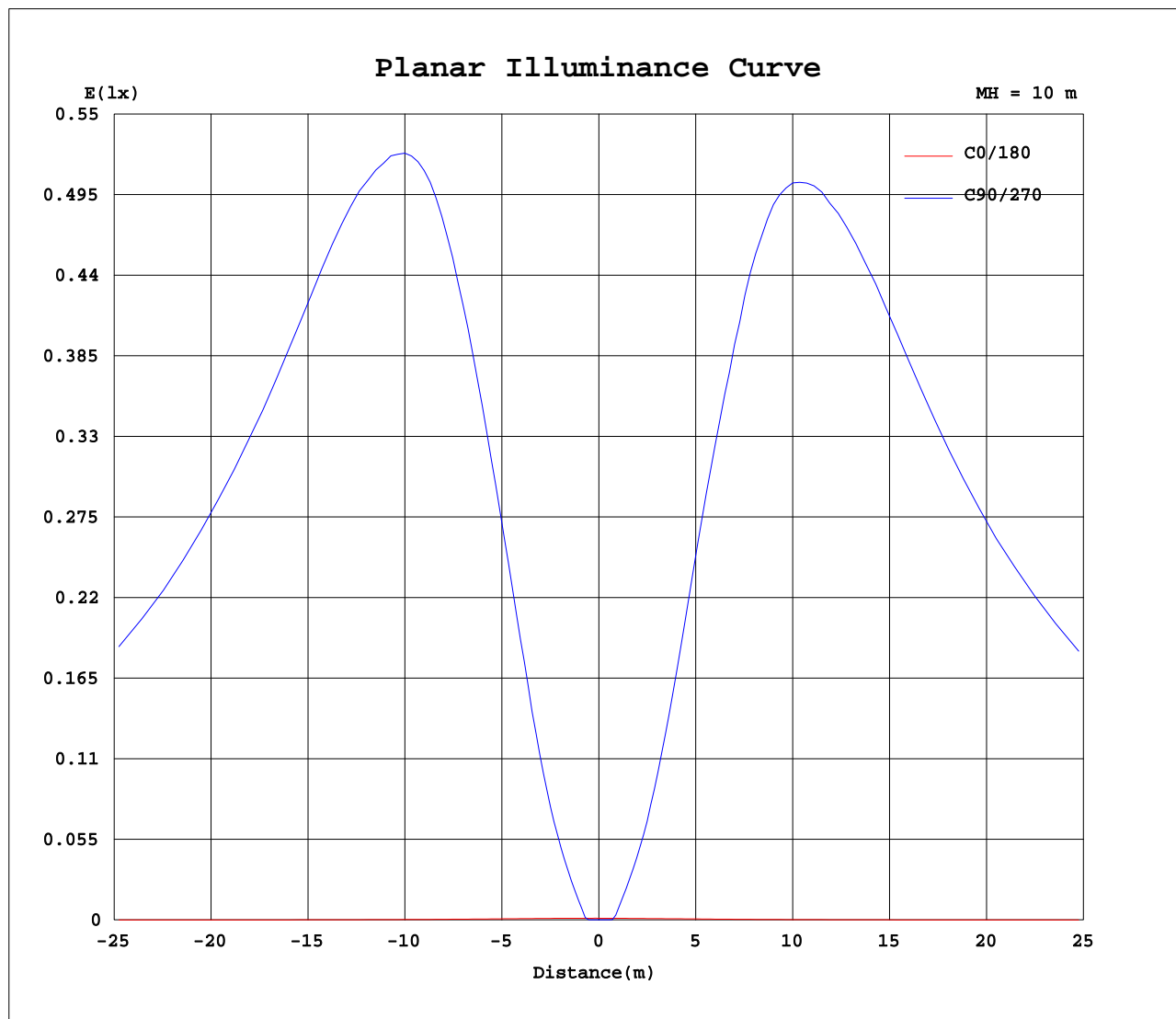
AvgL	cd/m2
L_0~180(65)av	9
L_0~180(75)av	13
L_0~180(85)av	38
L_90~270(65)av	53833
L_90~270(75)av	118644
L_90~270(85)av	434004
L_45(65)av	17207
L_45(75)av	34386
L_45(85)av	112229

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 15 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance: 2.500m [K=1.0461]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
Operators: Alan Wang  
Test Date: 15 October 2024

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 41.6%  
Test Distance: 2.500m [K=1.0461]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.0823A P:9.70W PF:0.9816 Freq:60.00Hz Lamp Flux:1354.63x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:

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	0.12	0.11	0.07	0.04	0.03	0.02	0.02	0.02	0.03	0.04	0.07	0.10	0.12	0.11	0.07	0.04	0.03	0.02	0.02
5	0.12	0.11	0.08	0.05	0.34	0.65	0.78	0.69	0.40	0.07	0.07	0.10	0.12	0.10	0.07	0.05	0.10	0.27	0.34
10	0.12	0.11	0.80	2.07	3.19	4.00	4.30	4.03	3.25	2.14	0.88	0.10	0.11	0.10	0.59	1.77	2.76	3.43	3.64
15	0.12	0.18	2.41	4.78	7.17	9.09	9.83	9.10	7.22	4.84	2.45	0.18	0.11	0.10	2.16	4.33	6.44	8.24	8.71
20	0.12	0.96	4.28	8.56	13.5	17.7	19.2	17.7	13.5	8.47	4.23	0.92	0.11	0.78	3.99	7.86	12.3	15.9	17.0
25	0.11	1.77	6.55	13.9	22.7	30.0	32.8	29.8	22.4	13.6	6.41	1.67	0.10	1.65	6.15	13.0	21.0	27.6	29.8
30	0.11	2.57	9.45	21.1	35.0	46.8	51.2	46.0	34.2	20.5	9.05	2.40	0.10	2.46	8.90	19.7	32.6	43.6	47.4
35	0.10	3.38	12.8	29.9	50.8	68.9	76.4	67.8	49.2	28.5	12.2	3.14	0.09	3.29	12.3	28.1	47.8	64.9	71.5
40	0.09	4.24	16.9	40.4	70.7	98.7	110	96.5	67.1	37.8	15.7	3.89	0.08	4.17	16.2	38.4	66.6	93.5	104
45	0.09	5.10	21.2	52.2	95.6	134	148	131	90.4	48.8	19.5	4.68	0.08	5.05	20.4	49.7	90.9	129	142
50	0.08	5.92	25.9	65.9	123	172	190	167	116	60.6	23.4	5.37	0.07	5.92	25.0	63.0	118	166	184
55	0.07	6.77	30.6	80.1	152	214	236	207	143	73.7	27.7	6.09	0.06	6.83	29.8	77.3	148	208	230
60	0.06	7.56	35.2	94.7	182	254	279	246	170	86.8	31.6	6.74	0.06	7.67	34.4	92.4	177	249	273
65	0.06	8.29	39.7	109	209	292	325	284	197	99.7	35.5	7.38	0.05	8.45	39.0	107	206	287	319
70	0.05	8.94	43.6	122	233	329	377	320	221	111	38.7	7.89	0.05	9.22	42.8	120	232	324	371
75	0.05	9.43	46.8	133	252	367	434	358	241	121	41.8	8.32	0.04	9.74	46.1	131	252	368	436
80	0.05	9.87	49.3	141	268	398	487	391	254	127	43.4	8.62	0.05	10.2	48.8	140	268	409	501
85	0.05	10.1	50.2	145	275	420	522	418	264	132	44.5	8.77	0.04	10.5	50.1	145	278	441	550
90	0.05	10.1	50.9	147	277	423	528	428	266	132	44.8	8.73	0.05	10.6	51.2	147	281	451	557
95	0.05	10.0	49.7	144	273	412	525	423	264	131	43.9	8.63	0.04	10.6	50.2	144	278	442	551
100	0.05	9.77	47.9	138	263	386	484	396	253	126	42.5	8.33	0.04	10.4	48.8	139	266	410	512
105	0.05	9.27	45.3	129	245	355	427	359	237	119	40.5	7.98	0.04	9.95	46.1	131	249	371	448
110	0.05	8.73	41.7	117	225	317	366	315	216	108	37.5	7.52	0.05	9.47	42.9	119	228	327	381
115	0.05	8.03	37.6	103	200	280	315	277	191	96.0	34.3	6.96	0.04	8.80	38.9	105	203	287	324
120	0.05	7.24	33.0	89.3	172	243	268	238	163	82.1	30.3	6.32	0.05	8.06	34.7	92.0	174	246	274
125	0.05	6.42	28.4	74.8	143	203	225	198	136	69.4	26.4	5.66	0.05	7.24	30.0	77.1	145	206	230
130	0.05	5.59	23.9	60.6	114	162	179	157	109	56.7	22.1	4.93	0.05	6.38	25.3	62.9	117	164	184
135	0.05	4.73	19.5	47.8	88.0	124	138	121	83.8	45.3	18.3	4.26	0.05	5.52	20.9	50.1	90.4	127	141
140	0.06	3.89	15.5	36.9	64.3	90.6	100	88.7	62.0	35.0	14.6	3.52	0.06	4.59	16.7	38.4	66.9	93.3	104
145	0.06	3.02	11.7	27.2	46.2	62.5	69.2	61.7	44.9	26.1	11.2	2.81	0.06	3.58	12.4	28.1	47.7	64.8	72.0
150	0.07	2.24	8.59	19.2	31.7	42.0	46.2	41.9	31.1	18.6	8.26	2.11	0.07	2.50	8.82	19.6	32.4	43.4	48.1
155	0.07	1.46	5.92	12.6	20.5	27.1	29.5	27.0	20.3	12.5	5.81	1.42	0.08	1.29	5.55	12.0	20.3	27.5	30.7
160	0.08	0.69	3.82	7.69	12.2	15.9	17.1	15.8	12.1	7.68	3.83	0.72	0.09	0.10	3.08	6.73	11.3	15.6	18.1
165	0.09	0.08	2.06	4.27	6.46	8.30	8.93	8.34	6.52	4.36	2.15	0.09	0.10	0.10	1.29	3.45	5.76	7.90	9.28
170	0.09	0.08	0.52	1.73	2.76	3.52	3.81	3.59	2.87	1.86	0.67	0.08	0.10	0.10	0.11	1.37	2.56	3.56	4.17
175	0.08	0.07	0.05	0.04	0.11	0.38	0.51	0.45	0.20	0.05	0.06	0.08	0.08	0.08	0.08	0.07	0.29	0.68	0.91
180	0.05	0.05	0.04	0.03	0.03	0.02	0.02	0.03	0.03	0.03	0.04	0.05	0.06	0.06	0.05	0.04	0.03	0.03	0.03

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.0DEG

Operators: Alan Wang

Test Date: 15 October 2024

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416

Humidity: 41.6%

Test Distance: 2.500m [K=1.0461]

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.0823A P:9.70W PF:0.9816 Freq:60.00Hz Lamp Flux:1354.63x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	0.02	0.03	0.04	0.07	0.10														
5	0.22	0.05	0.05	0.07	0.10														
10	3.32	2.55	1.51	0.29	0.10														
15	7.83	6.11	3.94	1.78	0.10														
20	15.4	11.6	7.12	3.38	0.31														
25	26.7	19.7	11.7	5.30	1.02														
30	42.1	30.7	17.9	7.63	1.73														
35	62.6	44.9	25.3	10.4	2.42														
40	90.7	62.1	34.2	13.6	3.09														
45	125	84.8	44.7	17.3	3.81														
50	161	110	56.2	21.0	4.49														
55	202	138	69.6	25.3	5.17														
60	242	166	82.9	29.2	5.80														
65	280	194	96.4	33.3	6.41														
70	316	218	108	36.5	6.97														
75	355	238	119	39.4	7.45														
80	388	254	127	41.7	7.79														
85	416	266	132	43.1	8.02														
90	427	267	134	43.8	8.04														
95	423	266	132	43.4	8.04														
100	397	255	127	41.8	7.81														
105	363	239	119	39.7	7.50														
110	319	219	108	36.7	7.12														
115	282	194	96.6	33.5	6.61														
120	242	166	83.0	29.7	6.02														
125	201	139	69.9	26.0	5.45														
130	160	111	57.2	21.8	4.77														
135	124	85.7	45.6	17.9	4.15														
140	90.7	63.6	35.4	14.4	3.52														
145	64.2	46.5	26.9	11.4	2.99														
150	44.1	32.8	19.9	9.00	2.57														
155	29.0	22.6	14.4	7.19	2.37														
160	17.7	14.4	9.92	5.58	2.15														
165	9.43	8.20	6.15	3.86	1.63														
170	4.29	3.87	3.02	1.90	0.63														
175	0.95	0.80	0.47	0.07	0.06														
180	0.02	0.03	0.03	0.03	0.04														

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.0DEG

Operators: Alan Wang

Test Date: 15 October 2024

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416

Humidity: 41.6%

Test Distance: 2.500m [K=1.0461]

Remarks: