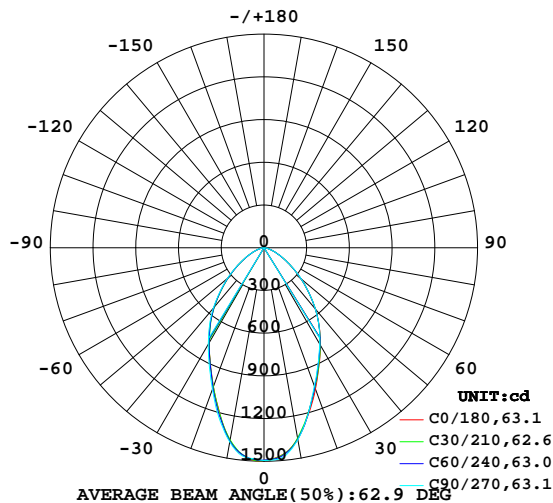


LUMINAIRE PHOTOMETRIC TEST REPORT

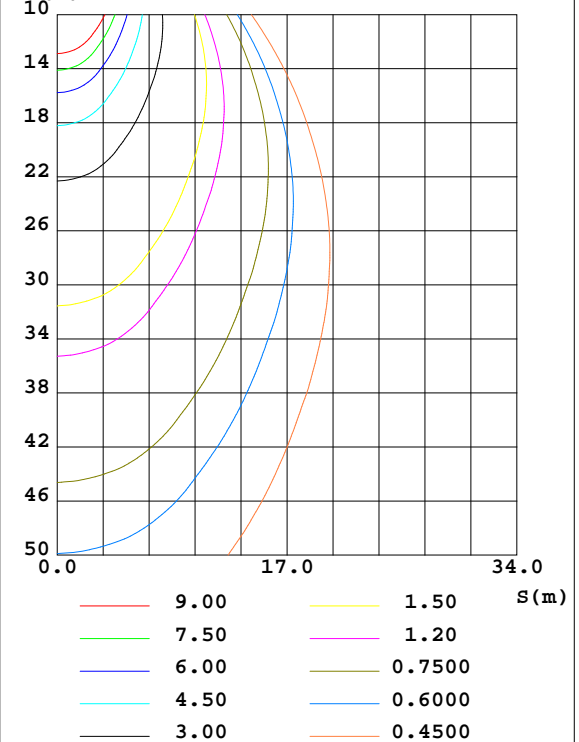
Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2037.01x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.49 lm/W			
MODEL	INDF5020UNHD8SC2R4BZP	I _{max} (cd)	1498	S/MH(C0/180)	0.84
NOMINAL POWER(W)	16	LOR(%)	100.0	S/MH(C90/270)	0.86
RATED VOLTAGE(V)	120-347	TOTAL FLUX(lm)	2037.0	η UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	2037.01	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,49.9
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	99.9	CIBSE SHR MAX	1.00

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

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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1364	1363	1369	1370	1374	1374	1385	1384	0- 10	137.4	137.4	6.74,6.74
20	1057	1046	1035	1038	1039	1043	1059	1064	10- 20	338.2	475.6	23.3,23.3
30	792.6	791.2	783.2	779.0	775.2	772.7	782.8	794.2	20- 30	416.9	892.5	43.8,43.8
40	560.7	561.0	561.9	553.1	546.2	542.2	554.3	560.2	30- 40	417.7	1310	64.3,64.3
50	338.0	339.6	342.6	334.7	330.5	328.0	335.0	339.2	40- 50	339.5	1650	81,81
60	169.4	169.7	171.1	168.0	164.9	164.8	167.5	168.6	50- 60	218.8	1869	91.7,91.7
70	70.51	69.79	70.71	69.82	69.13	68.82	70.45	71.02	60- 70	112.7	1981	97.3,97.3
80	20.50	20.12	19.45	20.01	20.99	21.01	20.74	20.95	70- 80	44.02	2025	99.4,99.4
90	0.0413	0.0342	0.0347	0.0342	0.0585	0.0597	0.0625	0.0635	80- 90	9.383	2035	99.9,99.9
100	0.0508	0.0508	0.0523	0.0523	0.1101	0.1104	0.1113	0.1095	90-100	0.0656	2035	99.9,99.9
110	0.0897	0.0891	0.0915	0.0921	0.1669	0.1682	0.1685	0.1663	100-110	0.1108	2035	99.9,99.9
120	0.1675	0.1690	0.1708	0.1727	0.2527	0.2544	0.2537	0.2496	110-120	0.1633	2035	99.9,99.9
130	0.3053	0.3067	0.3105	0.3123	0.4413	0.4433	0.4409	0.4365	120-130	0.2544	2035	99.9,99.9
140	0.4892	0.4901	0.4971	0.4997	0.7256	0.7260	0.7235	0.7192	130-140	0.3741	2036	99.9,99.9
150	0.6965	0.7008	0.7068	0.7079	1.131	1.130	1.130	1.129	140-150	0.4759	2036	100,100
160	0.9063	0.9120	0.9168	0.9178	1.419	1.419	1.416	1.417	150-160	0.4850	2037	100,100
170	1.011	1.017	1.020	1.016	1.381	1.382	1.379	1.380	160-170	0.3405	2037	100,100
180	1.227	1.222	1.224	1.235	1.221	1.218	1.209	1.213	170-180	0.1141	2037	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1493.7 lm

%lum = 73.3%

%lamp = 73.3%

Conical surface Flux(120deg): 1868.5 lm

%lum = 91.7%

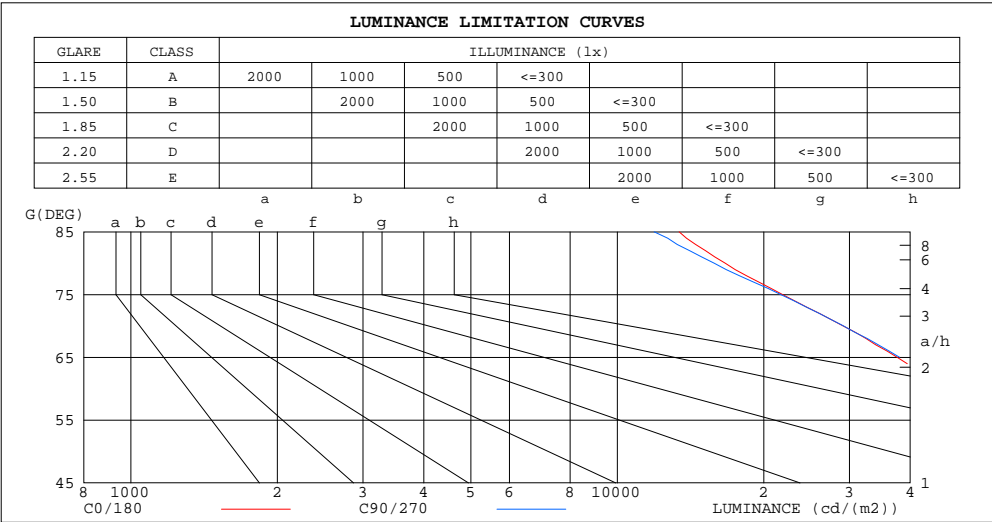
%lamp = 91.7%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2037.01x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	13395	11908
80	16662	15811
75	21865	21682
70	29098	29180
65	37598	38036
60	47827	48289
55	60031	60800
50	74224	75240
45	88606	89098

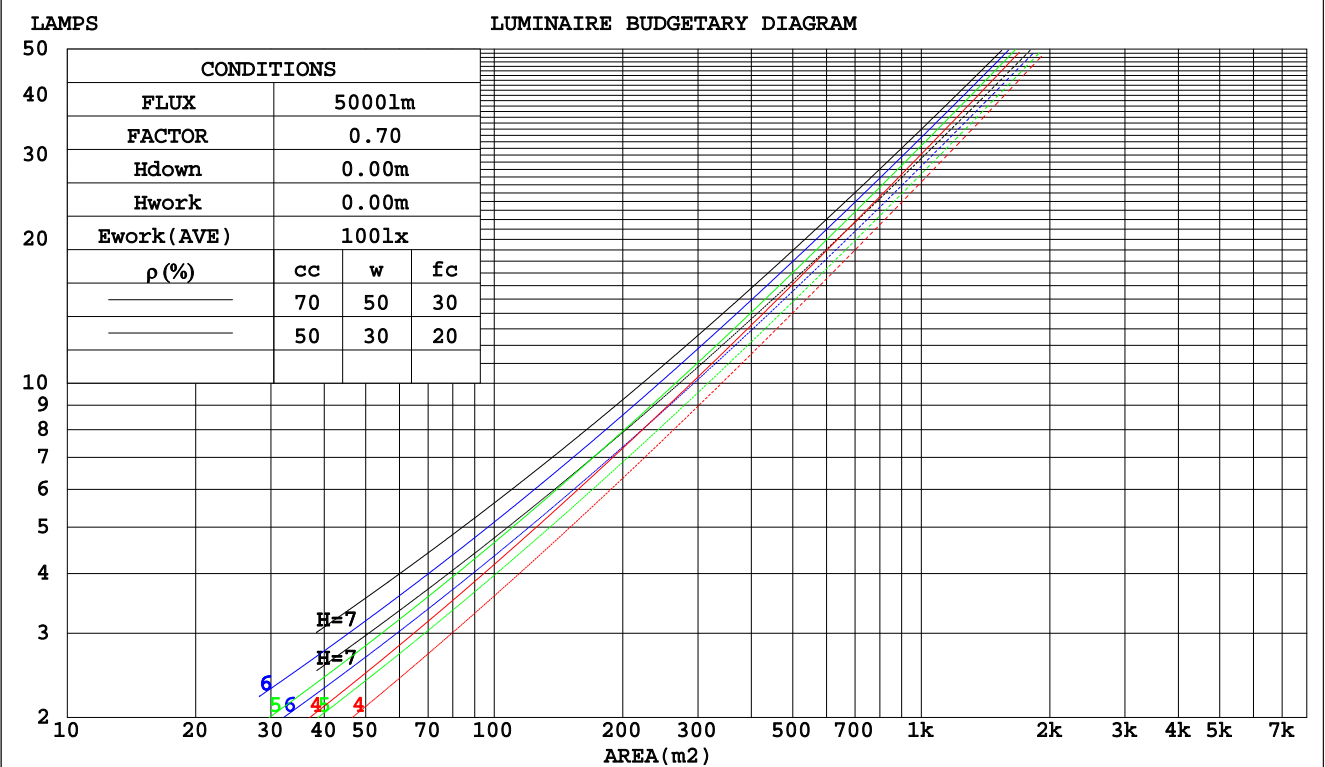
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators:Alan Wang
Test Date:15 October 2024

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:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2037.01x1 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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.08	1.04	1.01	1.05	1.02	.00	1.01	.99	.97	.97	.95	.94	.94	.92	.91	.89
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.89	.85	.82	.86	.83	.80	.78
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.74	.81	.76	.73	.78	.75	.71	.70
4.0	.80	.72	.67	.78	.72	.66	.76	.70	.65	.74	.69	.65	.72	.67	.64	.62
5.0	.73	.65	.59	.72	.64	.59	.70	.63	.59	.68	.62	.58	.66	.61	.57	.56
6.0	.67	.59	.53	.66	.59	.53	.64	.58	.53	.62	.57	.52	.61	.56	.52	.50
7.0	.61	.54	.48	.61	.53	.48	.59	.53	.48	.58	.52	.48	.57	.51	.47	.46
8.0	.57	.49	.44	.56	.49	.44	.55	.48	.44	.54	.48	.44	.53	.47	.43	.42
9.0	.53	.46	.41	.52	.45	.41	.51	.45	.40	.50	.44	.40	.49	.44	.40	.38
10.0	.49	.42	.38	.49	.42	.37	.48	.42	.37	.47	.41	.37	.46	.41	.37	.36



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:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2037.01x1 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	.237	.135	.043	.230	.131	.042	.217	.125	.040	.205	.118	.038	.194	.113	.036		
2.0	.229	.125	.038	.223	.123	.038	.212	.118	.037	.201	.113	.035	.192	.109	.034		
3.0	.217	.115	.035	.212	.113	.034	.202	.109	.033	.193	.106	.032	.184	.102	.032		
4.0	.204	.106	.031	.200	.105	.031	.191	.101	.030	.183	.098	.030	.176	.095	.029		
5.0	.192	.098	.028	.188	.097	.028	.181	.094	.028	.174	.092	.027	.167	.089	.027		
6.0	.181	.091	.026	.177	.090	.026	.171	.087	.025	.164	.085	.025	.158	.083	.025		
7.0	.171	.084	.024	.167	.083	.024	.161	.082	.024	.156	.080	.023	.151	.078	.023		
8.0	.161	.079	.022	.158	.078	.022	.153	.076	.022	.148	.075	.022	.143	.073	.021		
9.0	.153	.074	.021	.150	.073	.021	.145	.072	.020	.141	.070	.020	.136	.069	.020		
10.0	.145	.069	.019	.142	.069	.019	.138	.068	.019	.134	.066	.019	.130	.065	.019		

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	.191	.191	.191	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.176	.158	.141	.151	.135	.121	.103	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.165	.133	.107	.141	.115	.092	.097	.079	.064	.056	.046	.038	.018	.015	.012	
3.0	.155	.115	.083	.133	.099	.072	.091	.069	.050	.053	.040	.030	.017	.013	.010	
4.0	.147	.101	.066	.126	.087	.057	.087	.061	.040	.050	.036	.024	.016	.012	.008	
5.0	.139	.090	.054	.119	.078	.047	.082	.054	.033	.048	.032	.020	.015	.010	.006	
6.0	.132	.081	.045	.114	.070	.039	.078	.049	.028	.045	.029	.016	.015	.009	.005	
7.0	.126	.074	.038	.108	.064	.033	.075	.045	.023	.043	.027	.014	.014	.009	.005	
8.0	.120	.068	.033	.103	.059	.029	.071	.042	.020	.042	.024	.012	.013	.008	.004	
9.0	.114	.063	.029	.098	.055	.025	.068	.039	.018	.040	.023	.011	.013	.007	.004	
10.0	.109	.059	.025	.094	.051	.022	.065	.036	.016	.038	.021	.009	.012	.007	.003	

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:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2037.01x1 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	26.2	27.4	26.4	27.6	27.8	26.2	27.4	26.4	27.6	27.8	
	3H	26.6	27.7	26.9	28.0	28.2	26.6	27.8	26.9	28.0	28.2
	4H	26.7	27.8	27.0	28.0	28.3	26.7	27.8	27.0	28.0	28.3
	6H	26.7	27.7	27.0	28.0	28.3	26.7	27.8	27.1	28.0	28.3
	8H	26.7	27.7	27.0	28.0	28.2	26.7	27.7	27.0	28.0	28.3
	12H	26.7	27.6	27.0	27.9	28.2	26.7	27.6	27.0	27.9	28.2
4H	2H	26.3	27.4	26.6	27.7	27.9	26.4	27.5	26.7	27.7	27.9
	3H	26.9	27.8	27.2	28.1	28.4	26.9	27.9	27.3	28.2	28.4
	4H	27.1	27.9	27.4	28.2	28.6	27.1	27.9	27.4	28.3	28.6
	6H	27.1	27.9	27.5	28.2	28.6	27.2	27.9	27.5	28.3	28.6
	8H	27.2	27.9	27.6	28.2	28.6	27.2	27.9	27.6	28.2	28.6
	12H	27.1	27.8	27.6	28.2	28.6	27.2	27.8	27.6	28.2	28.6
8H	4H	27.1	27.8	27.5	28.1	28.5	27.1	27.8	27.5	28.1	28.5
	6H	27.2	27.8	27.6	28.2	28.6	27.2	27.8	27.6	28.2	28.6
	8H	27.2	27.7	27.7	28.2	28.6	27.2	27.7	27.7	28.2	28.6
	12H	27.3	27.7	27.7	28.1	28.6	27.3	27.7	27.7	28.1	28.6
12H	4H	27.0	27.7	27.4	28.0	28.4	27.1	27.7	27.5	28.1	28.5
	6H	27.2	27.7	27.6	28.1	28.6	27.2	27.7	27.6	28.1	28.6
	8H	27.2	27.7	27.7	28.1	28.6	27.2	27.7	27.7	28.1	28.6
Variations with the observer position at spacings:											
S = 1.0H	+ 0.7 / - 0.9					+ 0.7 / - 0.9					
1.5H	+ 0.3 / - 0.4					+ 0.3 / - 0.4					
2.0H	+ 1.4 / - 1.4					+ 1.4 / - 1.4					

CIE Pub.117, 2037 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.5$)
Area: 0.00708462 m²

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:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2037.01x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:

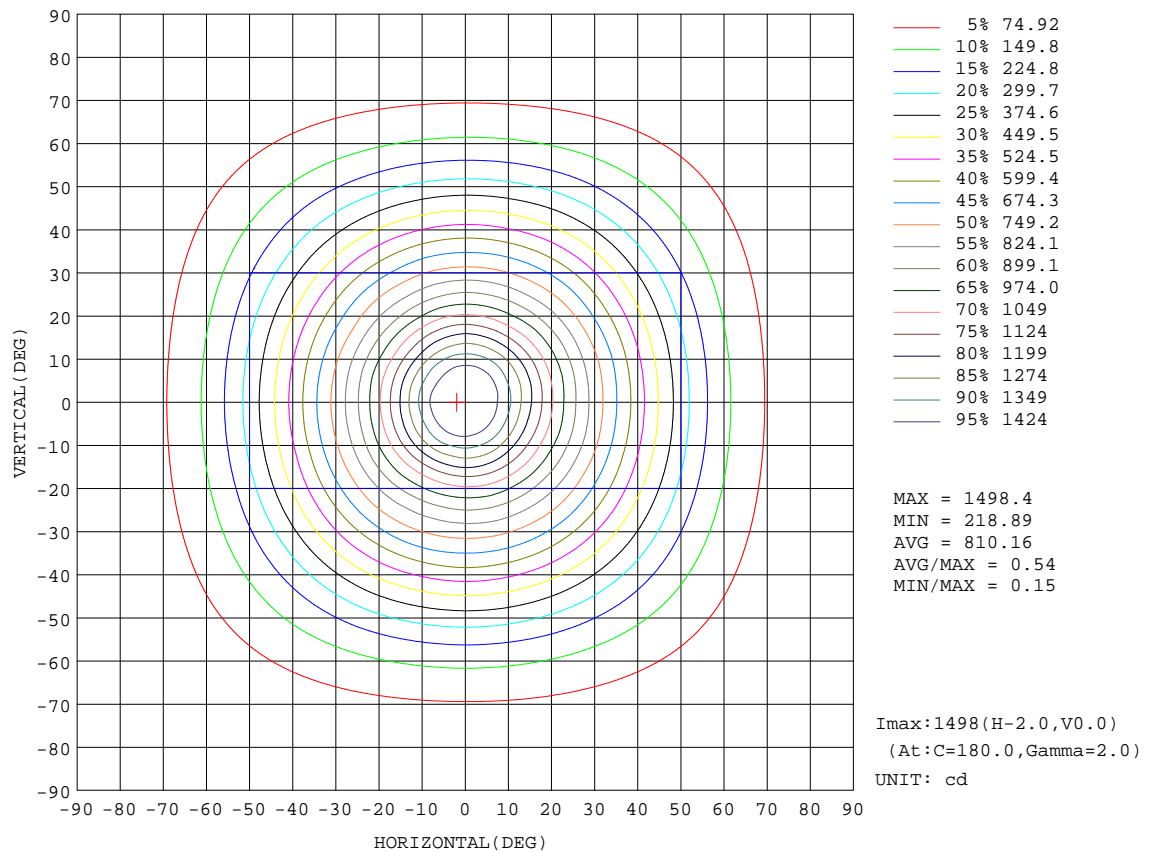
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	54	68	59	54	67	59	53	48
0.80	79	69	64	78	69	63	76	68	63	57
1.00	86	78	72	85	77	72	83	78	71	65
1.25	92	84	79	91	84	78	89	82	78	72
1.50	96	89	84	95	88	83	92	87	82	76
2.00	102	95	90	100	94	90	97	92	88	82
2.50	104	99	94	103	97	93	99	95	91	84
3.00	107	102	98	105	100	97	101	98	94	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	103	105	103	100	92
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

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:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2037.01x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:



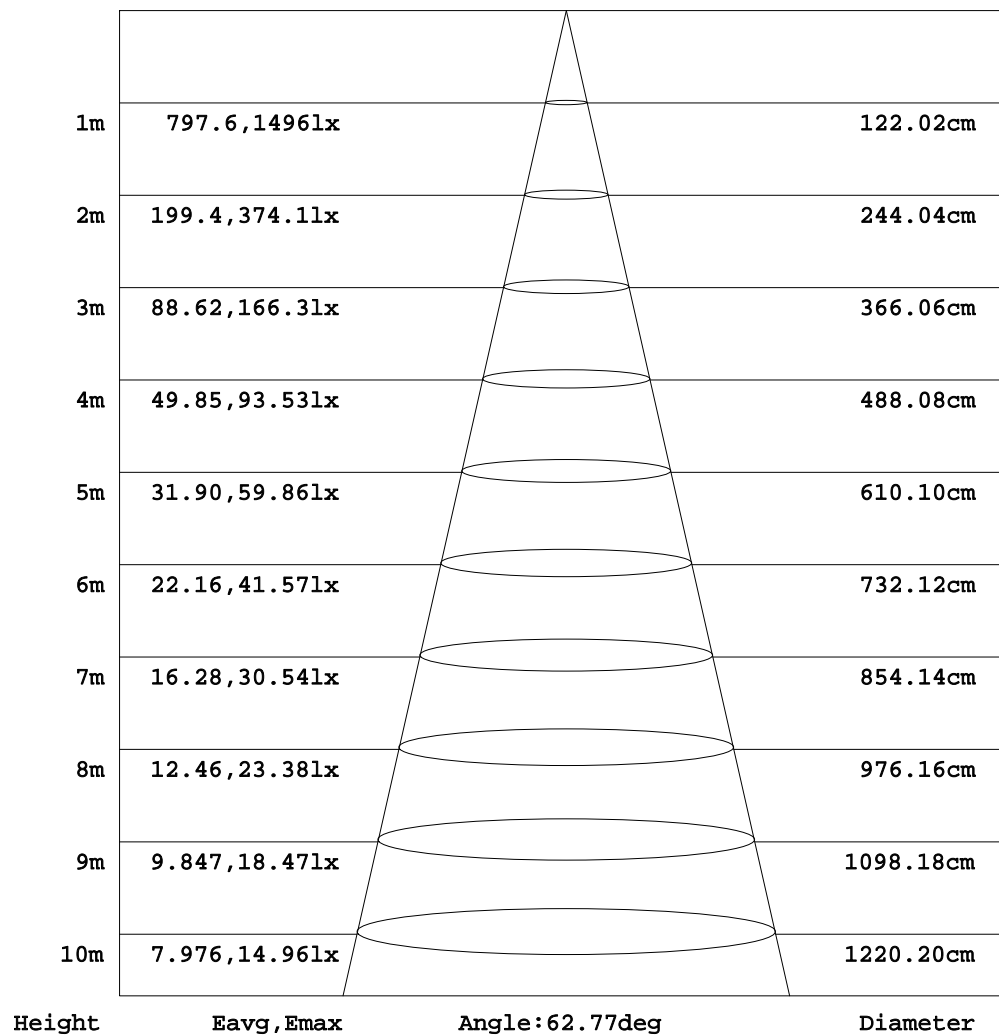
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 15 October 2024

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:

AAI Figure

Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2037.01x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:

Flux out:978.4 lm



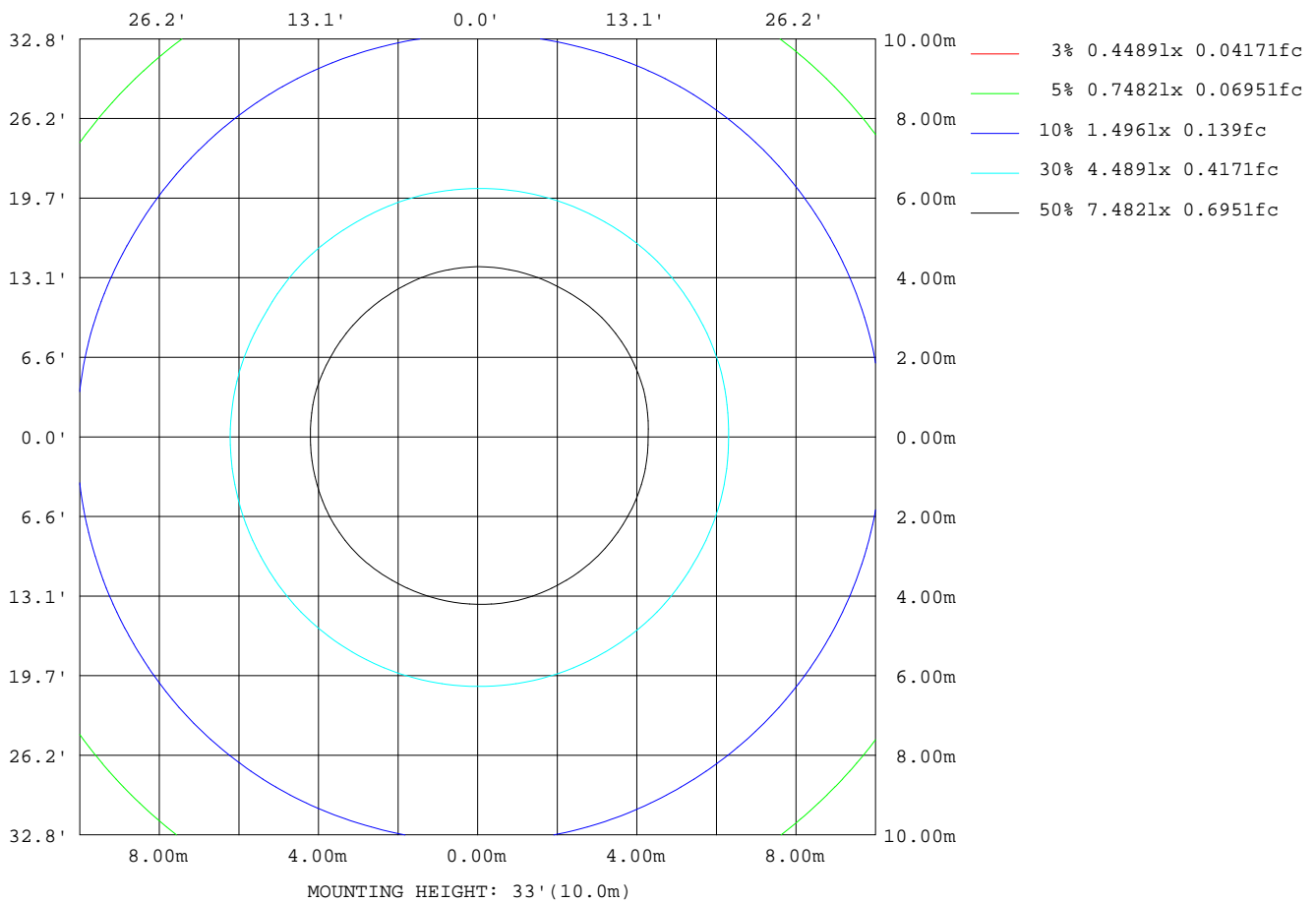
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 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:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2037.01x1 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:

LED Avg.L Report

Test:U:120.0V I:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2037.01x1 lm		
NAME: Optic/CCT/Wattage/Up & Down Light	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LEDVANCE LLC	SUR.:	Shielding Angle:

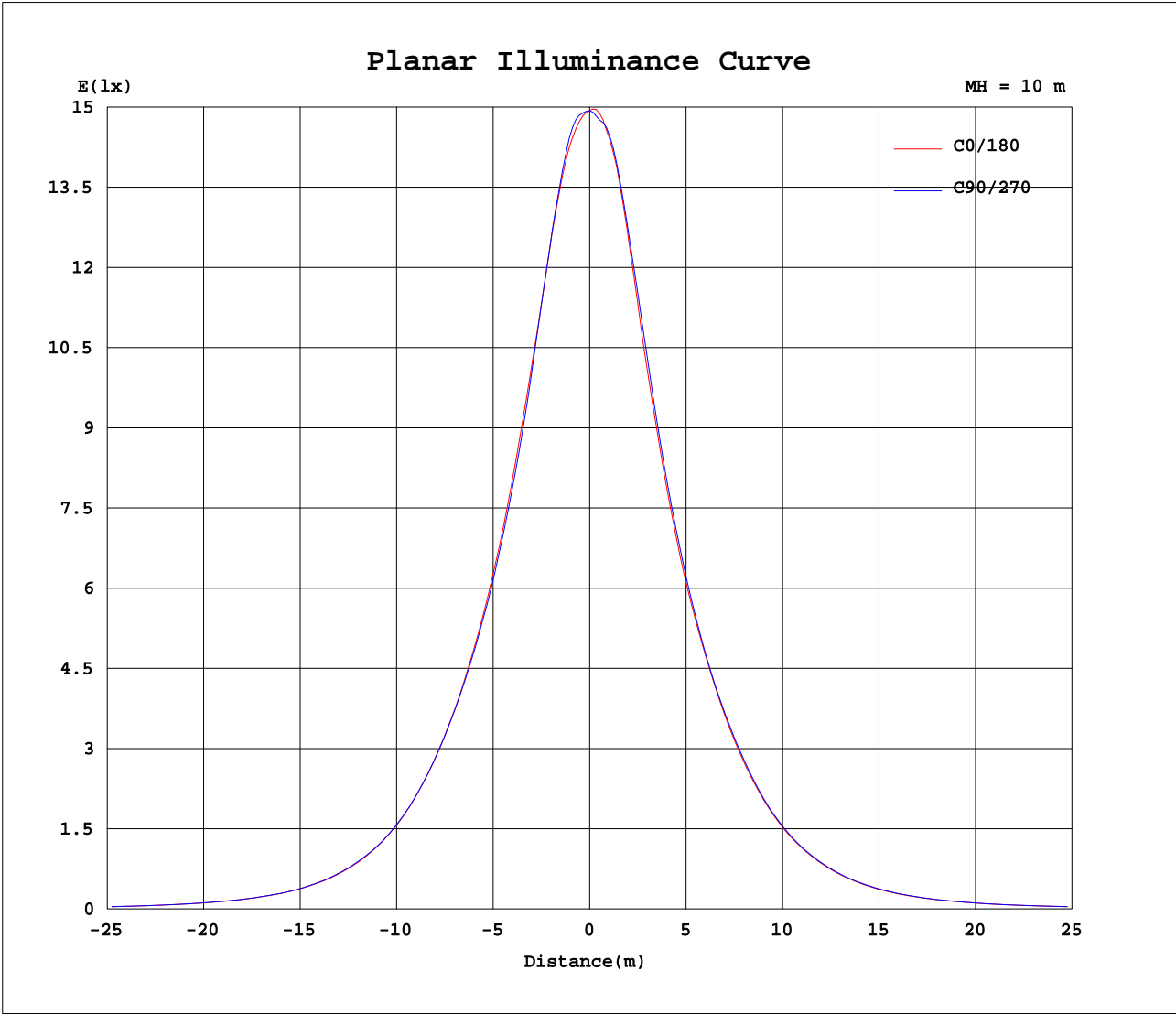
AvgL	cd/m2
L_0~180(65)av	37142
L_0~180(75)av	21779
L_0~180(85)av	13471
L_90~270(65)av	37749
L_90~270(75)av	21894
L_90~270(85)av	12495
L_45(65)av	37346
L_45(75)av	21835
L_45(85)av	12915

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

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:

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

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:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2037.01x1 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	1494	1494	1494	1492	1492	1493	1493	1493	1492	1491	1491	1491	1494	1494	1494	1492	1492	1493	1493
5	1460	1462	1462	1466	1468	1475	1479	1481	1482	1481	1478	1476	1473	1473	1473	1472	1473	1477	1478
10	1364	1358	1358	1363	1366	1366	1369	1367	1373	1370	1367	1369	1374	1375	1370	1374	1379	1385	1385
15	1209	1201	1199	1200	1204	1206	1204	1200	1202	1208	1208	1204	1203	1206	1205	1205	1216	1222	1229
20	1057	1053	1045	1046	1043	1042	1035	1033	1032	1038	1043	1039	1039	1042	1039	1043	1048	1056	1059
25	914	916	912	905	904	902	900	893	894	899	901	894	893	896	894	892	897	904	912
30	793	795	791	791	788	788	783	781	779	779	776	774	775	773	767	773	773	780	783
35	677	677	675	676	675	676	674	674	672	669	664	661	660	658	655	657	659	666	668
40	561	559	561	561	561	560	562	559	557	553	548	542	546	544	541	542	545	549	554
45	444	444	445	445	446	446	446	443	443	440	434	431	432	431	427	429	432	435	438
50	338	338	339	340	341	341	343	340	339	335	329	328	330	328	326	328	330	332	335
55	244	244	245	245	246	247	247	245	244	241	238	236	238	237	236	238	239	241	243
60	169	170	171	170	169	170	171	170	169	168	165	164	165	164	164	165	164	166	167
65	113	112	112	112	113	114	114	113	113	113	111	109	110	109	109	109	110	111	112
70	70.5	69.8	69.7	69.8	70.3	70.6	70.7	70.3	70.5	69.8	69.1	68.4	69.1	68.7	68.6	68.8	69.5	70.0	70.5
75	40.1	39.7	39.4	39.7	39.9	40.0	39.8	39.9	40.2	40.0	39.7	39.4	39.8	39.7	39.7	39.8	40.2	40.4	40.5
80	20.5	20.4	20.1	20.1	19.9	19.6	19.5	19.7	20.0	20.0	20.1	20.3	21.0	21.0	21.0	21.0	20.9	20.8	20.7
85	8.27	7.92	7.63	7.73	7.70	7.58	7.35	7.65	7.74	7.72	7.82	8.19	8.36	8.16	8.02	8.21	8.31	8.19	8.08
90	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.06	0.06	0.06	0.06	0.06	0.06	0.06
95	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.08	0.08	0.08	0.08	0.08	0.08	0.08
100	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.11	0.11	0.11	0.11	0.11	0.11	0.11
105	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.14	0.14	0.14	0.14	0.14	0.14	0.14
110	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.17	0.17	0.17	0.17	0.17	0.17	0.17
115	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.20	0.20	0.20	0.20	0.20	0.20	0.20
120	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.25	0.25	0.25	0.25	0.25	0.25	0.25
125	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.33	0.33	0.33	0.33	0.33	0.33	0.33
130	0.31	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.44	0.44	0.44	0.44	0.44	0.44	0.44
135	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.57	0.57	0.57	0.57	0.57	0.57	0.57
140	0.49	0.49	0.49	0.49	0.49	0.49	0.50	0.50	0.50	0.50	0.50	0.50	0.73	0.72	0.72	0.73	0.72	0.72	0.72
145	0.60	0.60	0.60	0.60	0.60	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.93	0.93	0.93	0.93	0.93	0.93	0.93
150	0.70	0.70	0.70	0.70	0.70	0.70	0.71	0.71	0.71	0.71	0.71	0.71	1.13	1.13	1.13	1.13	1.13	1.13	1.13
155	0.83	0.83	0.83	0.83	0.83	0.84	0.84	0.84	0.84	0.84	0.84	0.84	1.29	1.29	1.29	1.29	1.29	1.29	1.29
160	0.91	0.91	0.91	0.91	0.91	0.91	0.92	0.92	0.92	0.92	0.92	0.92	1.42	1.42	1.42	1.42	1.42	1.41	1.42
165	0.97	0.97	0.97	0.97	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	1.45	1.45	1.45	1.45	1.45	1.45	1.45
170	1.01	1.01	1.01	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.01	1.02	1.38	1.38	1.38	1.38	1.38	1.38	1.38
175	1.10	1.10	1.10	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.10	1.31	1.31	1.31	1.31	1.31	1.30	1.30
180	1.23	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.24	1.23	1.25	1.22	1.22	1.22	1.22	1.22	1.21	1.21

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:0.1322A P:15.61W PF:0.9839 Freq:60.00Hz Lamp Flux:2037.01x1 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	1493	1492	1491	1491	1491													
5	1476	1470	1467	1465	1463													
10	1389	1389	1384	1372	1369													
15	1228	1227	1231	1229	1223													
20	1058	1057	1064	1068	1064													
25	911	913	921	927	925													
30	786	786	794	797	798													
35	671	675	679	679	683													
40	554	558	560	560	562													
45	439	444	446	445	445													
50	335	338	339	338	340													
55	243	245	244	244	245													
60	169	169	169	169	169													
65	113	113	113	113	113													
70	70.8	71.2	71.0	70.9	71.1													
75	40.8	40.9	40.6	40.6	40.9													
80	20.9	21.1	21.0	20.9	21.0													
85	8.30	8.41	8.24	8.26	8.48													
90	0.06	0.07	0.06	0.06	0.06													
95	0.08	0.08	0.08	0.08	0.08													
100	0.11	0.11	0.11	0.11	0.11													
105	0.14	0.14	0.14	0.14	0.14													
110	0.17	0.17	0.17	0.17	0.16													
115	0.20	0.20	0.20	0.20	0.20													
120	0.25	0.25	0.25	0.25	0.25													
125	0.33	0.33	0.33	0.33	0.33													
130	0.44	0.44	0.44	0.43	0.43													
135	0.57	0.57	0.56	0.56	0.56													
140	0.72	0.72	0.72	0.72	0.72													
145	0.93	0.93	0.93	0.93	0.93													
150	1.13	1.13	1.13	1.13	1.13													
155	1.29	1.29	1.29	1.29	1.29													
160	1.42	1.42	1.42	1.42	1.42													
165	1.45	1.45	1.45	1.45	1.46													
170	1.38	1.38	1.38	1.38	1.38													
175	1.30	1.31	1.31	1.31	1.31													
180	1.21	1.21	1.21	1.22	1.22													

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: