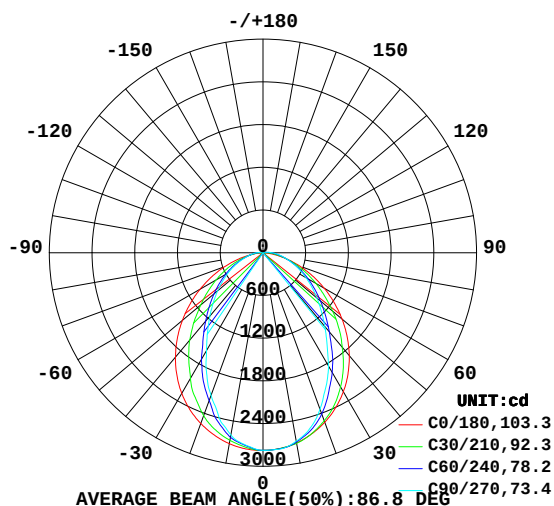


LUMINAIRE PHOTOMETRIC TEST REPORT

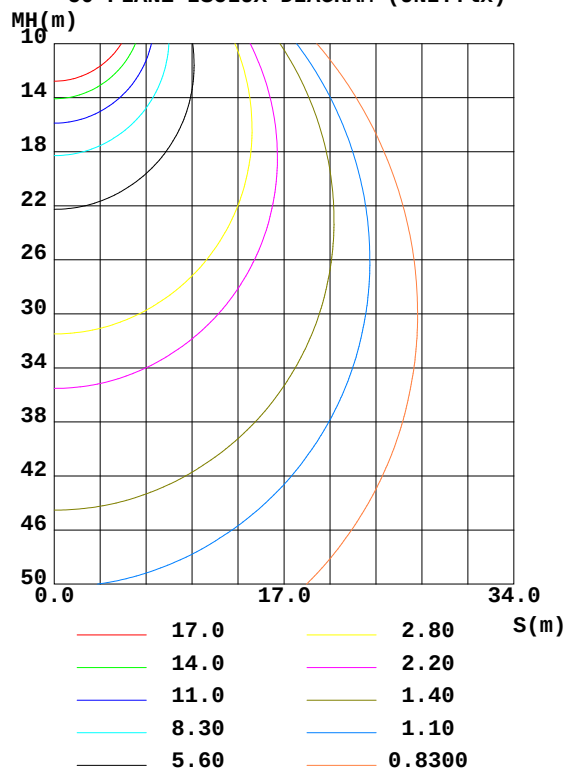
Test:U:120.0V I:0.3536A P:42.23W PF:0.9952 Freq:60.00Hz Lamp Flux:6119.86x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 144.92 lm/W			
MODEL	J-ST04-4FT-45MDNC	I _{max} (cd)	2777	S/MH(C0/180)	1.23
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	0.94
RATED VOLTAGE(V)	120-347	TOTAL FLUX(lm)	6119.9	η UP, DN(C0-180)	0.9, 51.6
NOMINAL FLUX(lm)	6119.86	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.7, 46.8
LAMPS INSIDE	1	η up(%)	1.6	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	98.4	CIBSE SHR MAX	1.15

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 12 January 2025

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 43.3%
Test Distance: 2.500m [K=1.0432]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2713	2714	2686	2716	2723	2654	2599	2649	0- 10	260.3	260.3	4.25, 4.25
20	2534	2467	2340	2471	2553	2331	2134	2332	10- 20	719.1	979.4	16, 16
30	2256	2049	1841	2048	2282	1876	1588	1881	20- 30	1010	1989	32.5, 32.5
40	1886	1584	1351	1579	1913	1384	1161	1392	30- 40	1097	3086	50.4, 50.4
50	1450	1142	989.3	1139	1477	991.9	832.1	995.2	40- 50	1023	4108	67.1, 67.1
60	990.6	779.8	697.3	778.5	1017	663.2	565.4	662.1	50- 60	840.6	4949	80.9, 80.9
70	551.8	475.6	451.8	476.4	574.1	387.3	344.1	383.9	60- 70	596.6	5546	90.6, 90.6
80	179.5	239.0	262.4	237.5	194.3	178.8	187.7	175.3	70- 80	338.9	5884	96.2, 96.2
90	0.4392	91.89	131.3	89.29	0.9165	63.45	88.53	61.49	80- 90	138.2	6023	98.4, 98.4
100	0.4056	23.90	51.44	23.75	0.6620	19.71	36.00	18.74	90-100	43.82	6066	99.1, 99.1
110	0.7062	11.52	20.79	12.06	0.8918	12.23	20.52	11.51	100-110	16.25	6083	99.4, 99.4
120	1.491	8.782	13.86	9.356	1.172	10.03	14.28	9.680	110-120	10.15	6093	99.6, 99.6
130	2.290	8.351	11.36	9.244	1.821	9.434	12.44	9.409	120-130	7.941	6101	99.7, 99.7
140	2.886	10.41	10.39	12.13	2.640	11.96	11.58	12.11	130-140	6.816	6108	99.8, 99.8
150	3.494	10.27	13.05	10.94	3.321	10.59	15.08	11.47	140-150	5.984	6114	99.9, 99.9
160	4.029	7.175	10.56	7.151	3.484	5.900	11.42	7.695	150-160	4.100	6118	100, 100
170	4.060	6.427	6.264	5.235	3.360	3.835	5.439	4.961	160-170	1.748	6119	100, 100
180	0.0000	0.0000	0.0000	0.0000	2.957	2.957	2.957	2.957	170-180	0.4516	6120	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

Conical surface Flux(90deg): 3614 lm

%lum = 59.1%

%lamp = 59.1%

Conical surface Flux(120deg): 4948.9 lm

%lum = 80.9%

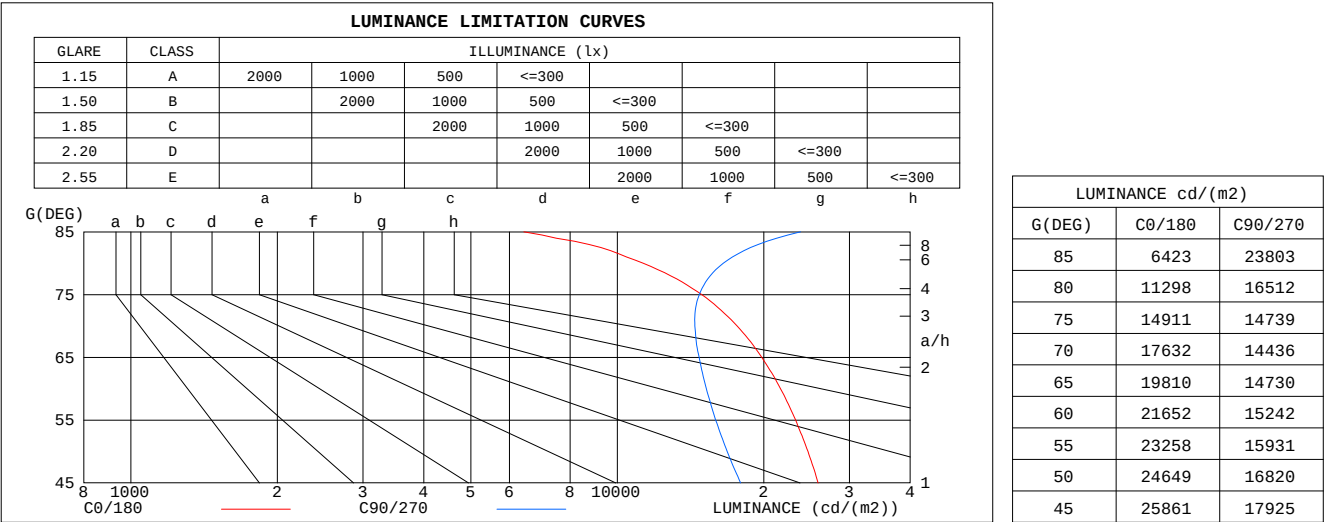
%lamp = 80.9%

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 12 January 2025

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.3%
 Test Distance: 2.500m [K=1.0432]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.3536A P:42.23W PF:0.9952 Freq:60.00Hz Lamp Flux:6119.86x1 lm		
NAME:	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



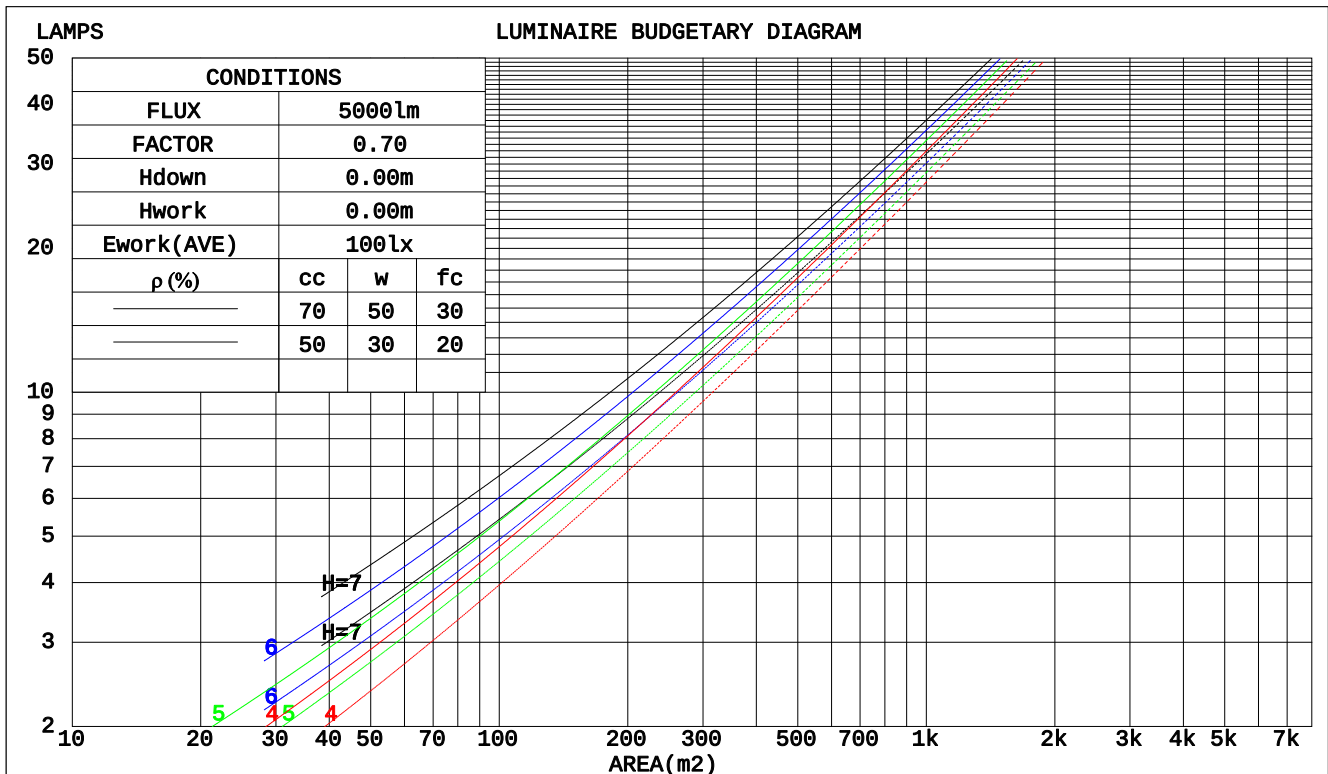
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 12 January 2025

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 43.3%
Test Distance: 2.500m [K=1.0432]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.3536A P:42.23W PF:0.9952 Freq:60.00Hz Lamp Flux:6119.86x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.98
1.0	1.04	1.00	.97	1.02	.98	.95	.97	.94	.92	.93	.91	.88	.89	.87	.86	.83
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.83	.78	.75	.79	.76	.73	.71
3.0	.81	.74	.67	.80	.73	.67	.77	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.73	.64	.58	.71	.64	.58	.69	.62	.57	.66	.60	.56	.64	.59	.55	.53
5.0	.66	.57	.51	.64	.56	.50	.62	.55	.50	.60	.54	.49	.58	.53	.48	.46
6.0	.59	.51	.45	.58	.50	.44	.56	.49	.44	.55	.48	.43	.53	.47	.43	.41
7.0	.54	.46	.40	.53	.45	.40	.52	.44	.39	.50	.44	.39	.49	.43	.39	.37
8.0	.50	.42	.36	.49	.41	.36	.48	.40	.35	.46	.40	.35	.45	.39	.35	.33
9.0	.46	.38	.33	.45	.38	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.30
10.0	.42	.35	.30	.42	.35	.30	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 12 January 2025

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.3%
 Test Distance: 2.50m [K=1.0432]
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.3536A P:42.23W PF:0.9952 Freq:60.00Hz Lamp Flux:6119.86x1 lm									
NAME:				TYPE:LED				WEIGHT:	
SPEC.:				DIM.:				SERIAL No.:	
MFR.:				SUR.:				Shielding Angle:	

ρ _{CC}	80%			70%			50%			30%			10%			0
ρ _W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.294	.167	.053	.287	.164	.052	.273	.156	.050	.260	.150	.048	.248	.144	.046	
2.0	.275	.151	.046	.268	.148	.046	.256	.142	.044	.244	.137	.043	.234	.132	.042	
3.0	.254	.135	.041	.249	.133	.040	.238	.129	.039	.227	.125	.038	.218	.121	.037	
4.0	.235	.122	.036	.230	.120	.036	.220	.117	.035	.211	.114	.034	.203	.110	.034	
5.0	.218	.111	.032	.214	.110	.032	.205	.107	.031	.197	.104	.031	.189	.101	.030	
6.0	.203	.102	.029	.199	.100	.029	.191	.098	.029	.184	.096	.028	.177	.093	.028	
7.0	.189	.094	.027	.186	.093	.026	.179	.090	.026	.172	.088	.026	.166	.086	.025	
8.0	.177	.087	.024	.174	.086	.024	.168	.084	.024	.162	.082	.024	.157	.080	.023	
9.0	.167	.081	.023	.164	.080	.022	.158	.078	.022	.153	.077	.022	.148	.075	.022	
10.0	.157	.075	.021	.155	.075	.021	.149	.073	.021	.145	.072	.020	.140	.070	.020	

ρ _{CC}	80%			70%			50%			30%			10%			0
ρ _W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.203	.203	.203	.173	.173	.173	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.191	.168	.148	.164	.145	.127	.112	.099	.088	.064	.058	.051	.021	.019	.017	
2.0	.182	.144	.112	.156	.124	.097	.107	.086	.068	.062	.050	.040	.020	.016	.013	
3.0	.174	.127	.089	.149	.109	.077	.102	.076	.054	.059	.044	.032	.019	.014	.010	
4.0	.166	.113	.073	.142	.098	.063	.098	.068	.045	.057	.040	.026	.018	.013	.009	
5.0	.158	.103	.061	.136	.089	.053	.094	.062	.038	.054	.036	.022	.017	.012	.007	
6.0	.151	.094	.053	.130	.081	.046	.090	.057	.033	.052	.034	.019	.017	.011	.006	
7.0	.144	.087	.047	.124	.076	.041	.086	.053	.029	.050	.031	.017	.016	.010	.006	
8.0	.138	.081	.042	.119	.071	.037	.082	.050	.026	.048	.029	.016	.015	.010	.005	
9.0	.132	.076	.039	.114	.066	.034	.079	.047	.024	.046	.028	.014	.015	.009	.005	
10.0	.127	.072	.036	.109	.063	.031	.076	.044	.022	.044	.026	.013	.014	.009	.004	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 12 January 2025

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.3%
 Test Distance: 2.500m [K=1.0432]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.3536A P:42.23W PF:0.9952 Freq:60.00Hz Lamp Flux:6119.86x1 lm											
NAME:					TYPE:LED			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					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	2H	23.7	25.1	23.9	25.3	25.5	21.9	23.3	22.2	23.5	23.8
	3H	24.9	26.3	25.3	26.5	26.8	23.3	24.6	23.6	24.9	25.1
	4H	25.4	26.6	25.7	26.9	27.2	24.0	25.2	24.3	25.5	25.8
	6H	25.7	26.8	26.0	27.1	27.4	24.7	25.8	25.0	26.1	26.4
	8H	25.7	26.8	26.1	27.2	27.5	25.0	26.1	25.4	26.4	26.8
	12H	25.7	26.8	26.1	27.1	27.5	25.4	26.5	25.7	26.8	27.1
4H	2H	24.0	25.2	24.3	25.5	25.8	22.6	23.8	22.9	24.1	24.4
	3H	25.5	26.5	25.8	26.9	27.2	24.2	25.3	24.5	25.6	25.9
	4H	26.1	27.0	26.4	27.4	27.8	25.0	26.0	25.4	26.3	26.7
	6H	26.4	27.3	26.9	27.7	28.1	25.8	26.7	26.2	27.1	27.5
	8H	26.6	27.4	27.0	27.8	28.2	26.2	27.1	26.7	27.5	27.9
	12H	26.6	27.3	27.0	27.8	28.2	26.7	27.5	27.2	27.9	28.3
8H	4H	26.2	27.1	26.7	27.5	27.9	25.3	26.1	25.7	26.5	26.9
	6H	26.8	27.5	27.3	27.9	28.4	26.3	27.0	26.8	27.4	27.9
	8H	27.0	27.6	27.5	28.0	28.5	26.9	27.5	27.4	28.0	28.5
	12H	27.1	27.6	27.6	28.1	28.6	27.6	28.1	28.1	28.6	29.1
12H	4H	26.3	27.0	26.7	27.4	27.9	25.3	26.1	25.8	26.5	26.9
	6H	26.9	27.5	27.4	27.9	28.4	26.4	27.0	26.9	27.5	28.0
	8H	27.1	27.7	27.6	28.1	28.6	27.1	27.6	27.6	28.1	28.6
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H		+ 0.2 / - 0.2					+ 0.1 / - 0.3				
2.0H		+ 0.5 / - 0.6					+ 0.1 / - 0.2				

CIE Pub.117, 6120 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.3$)
Area: 0.0915 m²

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 12 January 2025

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 43.3%
Test Distance: 2.500m [K=1.0432]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.3536A P:42.23W PF:0.9952 Freq:60.00Hz Lamp Flux:6119.86x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

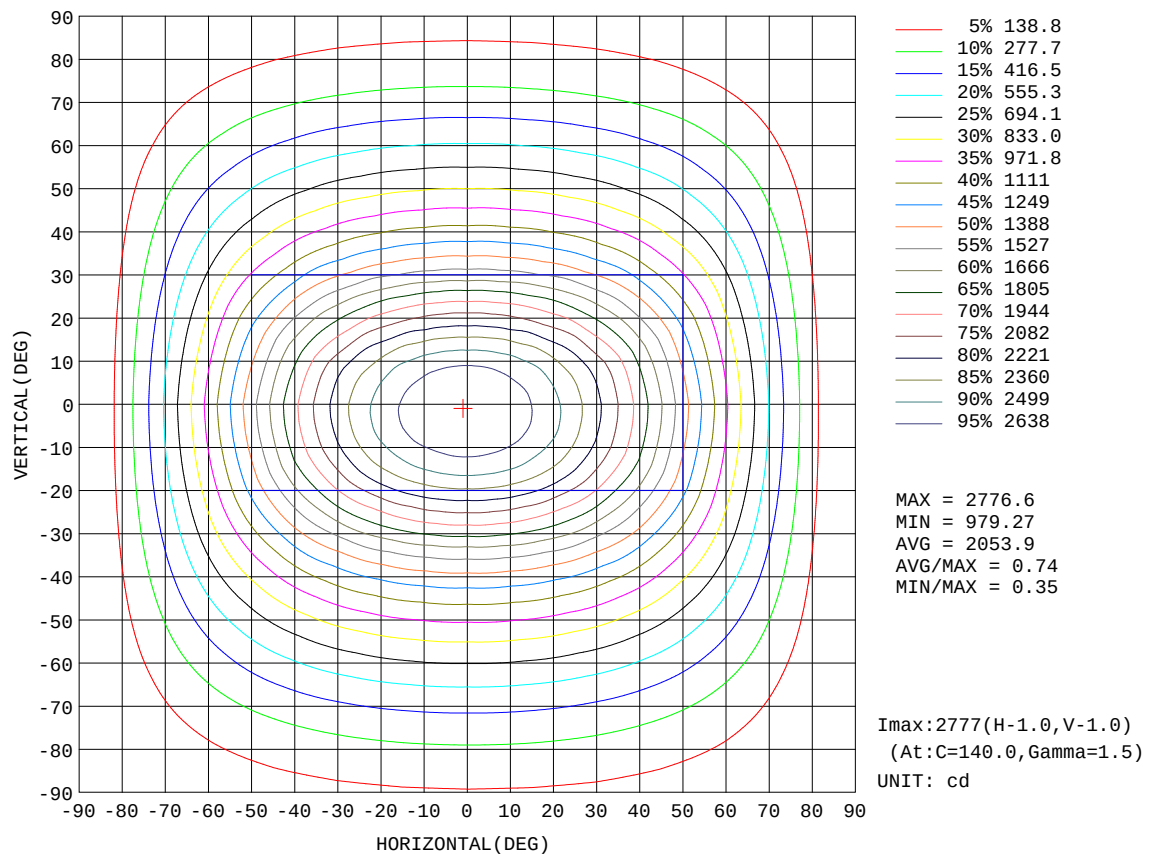
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	61	50	43	60	50	43	59	49	43	37
0.80	71	60	53	70	59	53	68	59	52	46
1.00	79	68	61	77	68	61	75	69	60	54
1.25	85	75	69	84	75	68	81	73	67	60
1.50	90	81	74	88	80	74	85	78	72	65
2.00	96	88	82	94	87	81	91	85	80	72
2.50	100	92	87	98	91	86	94	88	84	76
3.00	103	96	91	101	95	90	97	92	88	79
4.00	107	101	97	104	99	95	100	96	92	83
5.00	109	104	100	106	102	99	102	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 12 January 2025

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.3%
 Test Distance: 2.500m [K=1.0432]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.3536A P:42.23W PF:0.9952 Freq:60.00Hz Lamp Flux:6119.86x1 lm		
NAME:	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

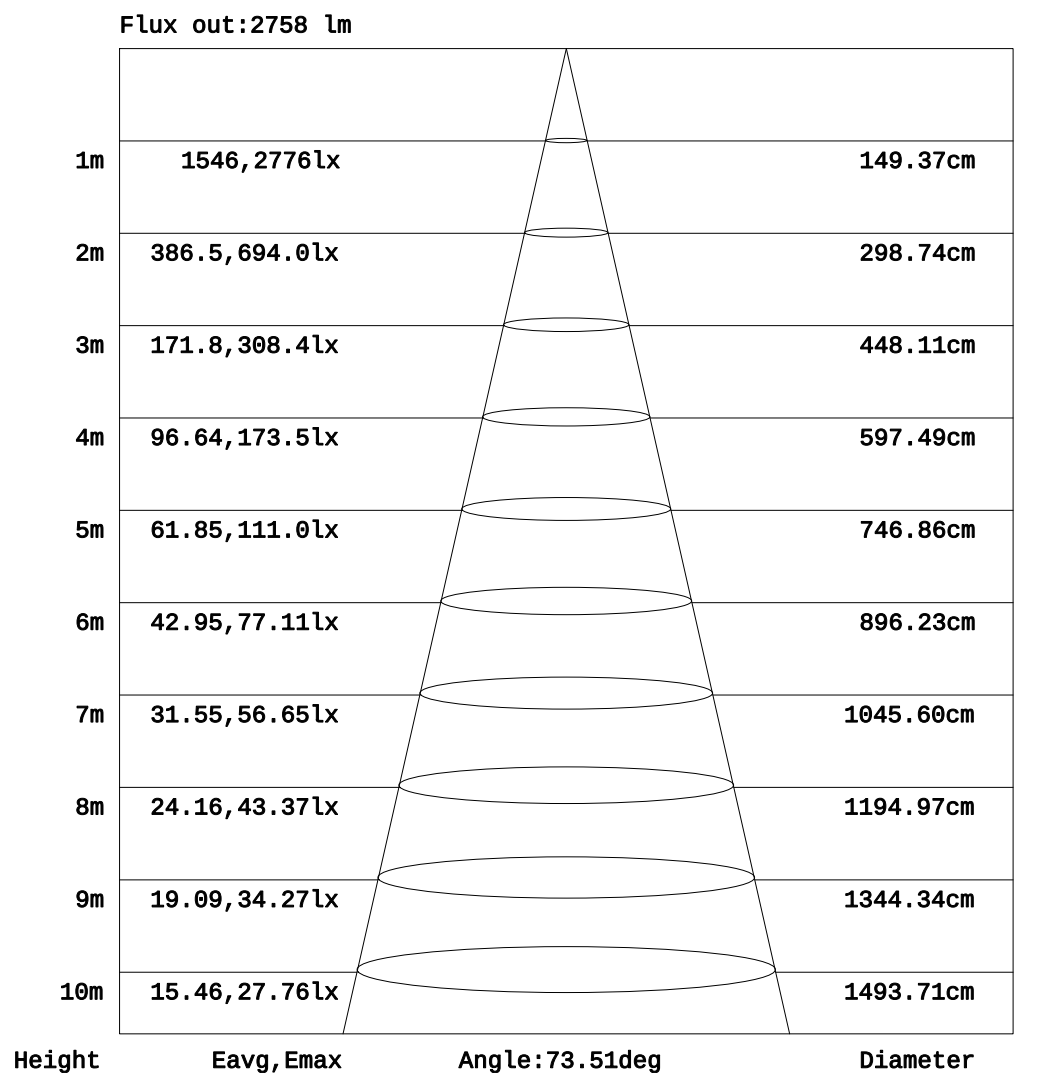


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 12 January 2025

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 43.3%
Test Distance: 2.500m [K=1.0432]
Remarks:

AAI Figure

Test:U:120.0V I:0.3536A P:42.23W PF:0.9952 Freq:60.00Hz Lamp Flux:6119.86x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



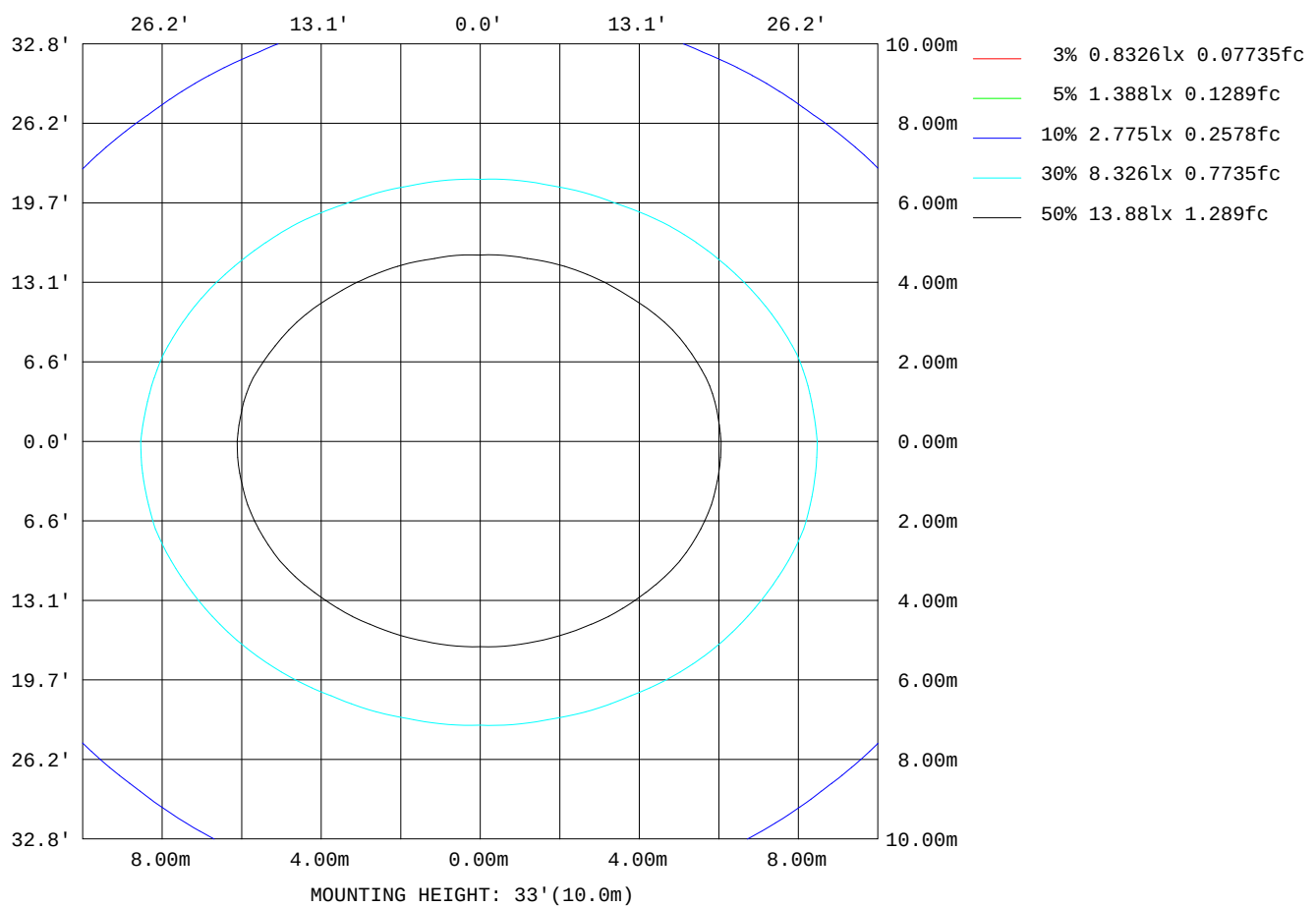
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators:Alan Wang
 Test Date:12 January 2025

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.3%
 Test Distance:2.500m [K=1.0432]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.3536A P:42.23W PF:0.9952 Freq:60.00Hz Lamp Flux:6119.86x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 12 January 2025

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 43.3%
 Test Distance: 2.500m [K=1.0432]
 Remarks:

LED Avg.L Report

Test:U:120.0V I:0.3536A P:42.23W PF:0.9952 Freq:60.00Hz Lamp Flux:6119.86x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

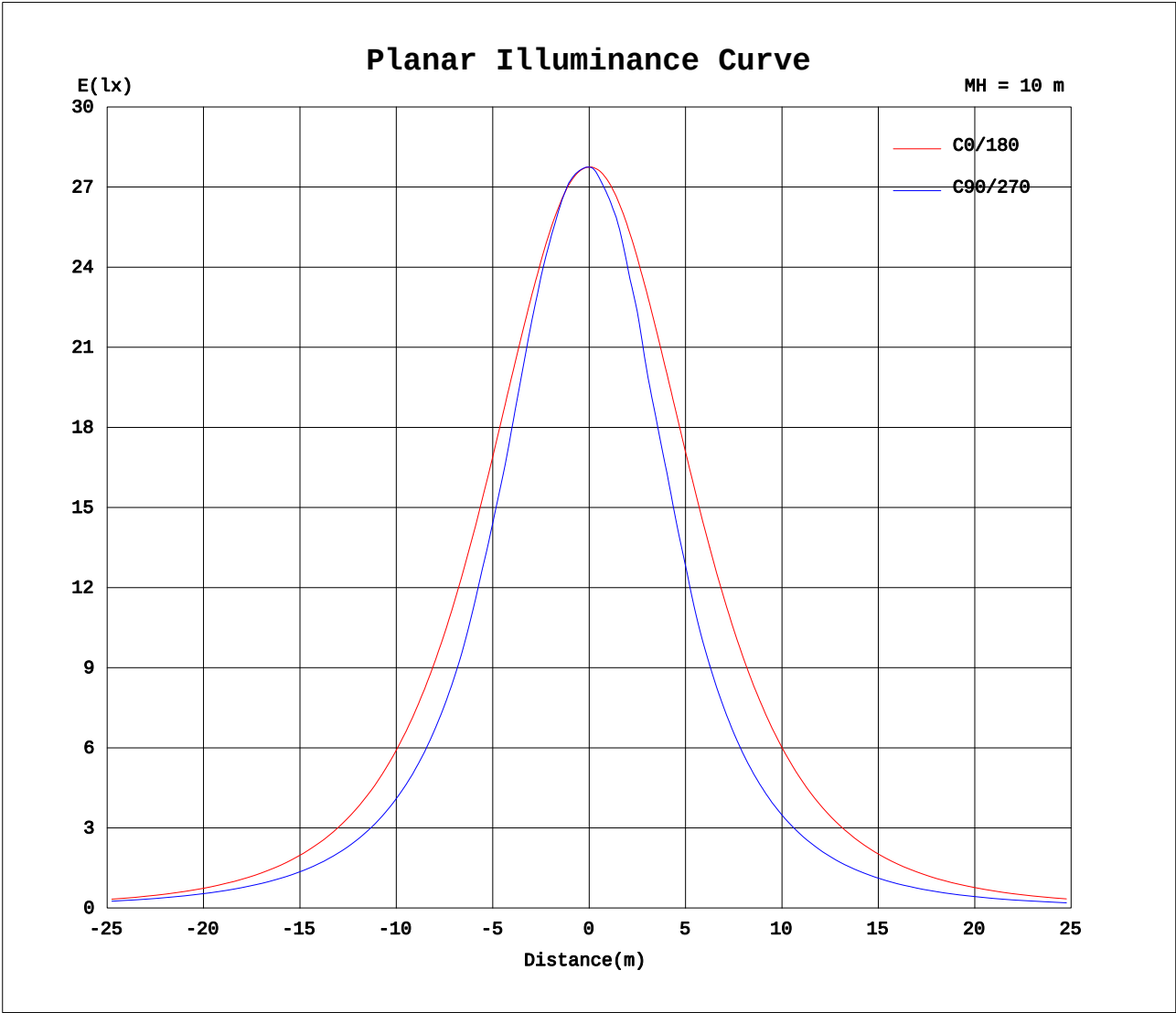
AvgL	cd/m2
L_0~180(65)av	20125
L_0~180(75)av	15304
L_0~180(85)av	7074
L_90~270(65)av	13166
L_90~270(75)av	12788
L_90~270(85)av	20169
L_45(65)av	14714
L_45(75)av	12990
L_45(85)av	16502

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 12 January 2025

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 γ Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 43.3%
Test Distance: 2.500m [K=1.0432]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 12 January 2025

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 43.3%
Test Distance: 2.500m [K=1.0432]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.3536A P:42.23W PF:0.9952 Freq:60.00Hz Lamp Flux:6119.86x1 lm																		
NAME:									TYPE:LED					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.:									SUR.:					Shielding Angle:				

Table--1

UNIT: cd

C (DEG) γ (DEG)	C (DEG)																		
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775
5	2761	2760	2760	2760	2760	2760	2759	2759	2759	2760	2761	2762	2762	2763	2763	2764	2765	2766	2767
10	2713	2714	2714	2715	2715	2717	2719	2719	2717	2714	2711	2705	2700	2695	2692	2690	2688	2687	2686
15	2635	2639	2642	2643	2642	2638	2633	2627	2618	2609	2600	2593	2585	2577	2569	2562	2558	2555	2553
20	2534	2541	2543	2545	2540	2527	2513	2498	2482	2467	2449	2430	2411	2393	2376	2360	2352	2346	2340
25	2406	2412	2411	2410	2400	2384	2366	2340	2310	2279	2246	2212	2178	2153	2131	2110	2101	2095	2089
30	2256	2258	2254	2249	2230	2205	2179	2140	2094	2049	2012	1977	1944	1918	1894	1871	1860	1850	1841
35	2081	2081	2074	2067	2039	2004	1967	1922	1873	1824	1779	1736	1693	1660	1629	1598	1587	1578	1568
40	1886	1885	1878	1869	1830	1781	1732	1683	1633	1584	1539	1494	1449	1422	1399	1376	1367	1359	1351
45	1673	1670	1658	1646	1606	1558	1510	1457	1403	1348	1310	1275	1241	1219	1199	1179	1172	1166	1160
50	1450	1444	1432	1418	1376	1327	1277	1232	1187	1142	1111	1083	1054	1037	1021	1005	1000	995	989
55	1221	1213	1199	1185	1145	1101	1055	1020	987	953	930	907	885	872	860	848	844	840	836
60	991	983	970	956	925	891	856	830	805	780	763	747	731	722	714	706	703	700	697
65	766	760	750	740	718	695	671	654	637	621	610	600	590	585	580	575	573	571	570
70	552	548	542	535	524	512	500	492	484	476	471	466	461	459	457	455	454	453	452
75	353	354	354	354	352	350	348	348	347	346	347	347	347	348	348	349	349	349	349
80	180	186	192	198	205	213	219	226	233	239	244	249	253	256	258	260	261	262	262
85	51.2	61.8	72.6	83.4	97.3	111	125	135	145	155	162	169	176	180	183	187	188	189	190
90	0.44	7.77	15.1	22.5	34.8	47.1	59.6	70.4	81.2	91.9	99.4	107	114	119	123	127	129	130	131
95	0.33	1.84	3.42	5.32	11.2	17.4	23.9	32.1	40.5	48.7	55.6	62.4	69.0	73.1	77.1	81.0	82.4	83.7	84.9
100	0.41	1.26	2.12	3.10	5.54	8.08	10.8	15.0	19.4	23.9	28.7	33.5	38.3	41.5	44.9	48.0	49.3	50.4	51.4
105	0.51	1.29	2.07	2.90	4.47	6.08	7.75	10.00	12.3	14.6	17.1	19.6	22.1	24.1	26.1	28.0	28.9	29.6	30.3
110	0.71	1.60	2.49	3.39	4.42	5.47	6.58	8.20	9.86	11.5	13.1	14.7	16.2	17.3	18.4	19.4	19.9	20.4	20.8
115	1.09	2.23	3.36	4.43	4.95	5.47	6.07	7.19	8.34	9.49	10.7	11.9	13.1	14.0	14.9	15.8	16.2	16.6	17.0
120	1.49	2.65	3.80	4.87	5.31	5.73	6.21	7.05	7.92	8.78	9.59	10.4	11.2	11.8	12.4	13.0	13.3	13.6	13.9
125	1.90	2.89	3.88	4.83	5.59	6.32	6.99	7.40	7.82	8.29	8.98	9.69	10.4	10.9	11.3	11.8	12.0	12.1	12.3
130	2.29	3.09	3.91	4.81	6.06	7.30	8.32	8.33	8.30	8.35	8.78	9.24	9.69	10.1	10.5	10.8	11.0	11.2	11.4
135	2.62	3.31	4.02	4.89	6.38	7.89	9.09	9.13	9.10	9.08	9.18	9.30	9.44	9.70	9.96	10.2	10.4	10.5	10.6
140	2.89	3.45	4.03	4.82	6.18	7.58	8.79	9.42	9.99	10.4	10.3	10.1	10.0	10.1	10.1	10.2	10.2	10.3	10.4
145	3.24	3.79	4.34	5.00	5.93	6.90	7.92	9.06	10.2	11.1	11.3	11.5	11.6	11.6	11.5	11.4	11.4	11.4	11.4
150	3.49	4.12	4.75	5.33	5.84	6.36	7.07	8.15	9.26	10.3	11.0	11.7	12.3	12.5	12.7	12.8	12.9	13.0	13.0
155	3.83	4.62	5.38	5.86	5.96	6.07	6.40	7.08	7.81	8.58	9.45	10.3	11.1	11.7	12.2	12.6	12.8	13.0	13.2
160	4.03	4.96	5.84	6.22	6.15	6.05	6.14	6.43	6.77	7.17	7.69	8.22	8.72	9.18	9.63	10.0	10.2	10.4	10.6
165	4.18	5.03	5.81	6.16	6.24	6.29	6.27	6.23	6.20	6.30	6.52	6.76	6.99	7.21	7.42	7.59	7.69	7.77	7.84
170	4.06	4.49	4.96	5.50	6.06	6.47	6.59	6.55	6.49	6.43	6.37	6.31	6.26	6.22	6.18	6.16	6.19	6.22	6.26
175	4.26	4.43	4.60	4.79	5.03	5.31	5.65	5.97	6.18	6.33	6.41	6.46	6.46	6.45	6.41	6.35	6.28	6.19	6.10
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature: 25.0DEG

Operators: Alan Wang

Test Date: 12 January 2025

γ Range: 0 - 180DEG

γ Interval: 0.5DEG

Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416

Humidity: 43.3%

Test Distance: 2.500m [K=1.0432]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.3536A P:42.23W PF:0.9952 Freq:60.00Hz Lamp Flux:6119.86x1 lm																		
NAME:									TYPE:LED					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.:									SUR.:					Shielding Angle:				

Table--2

UNIT: cd

C(°) γ (°)	C(°)																	
	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
0	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775
5	2767	2766	2766	2765	2764	2764	2763	2762	2762	2762	2762	2762	2763	2764	2765	2765	2766	2766
10	2688	2689	2691	2694	2696	2701	2706	2711	2716	2721	2724	2724	2723	2721	2723	2725	2726	2723
15	2556	2560	2564	2570	2577	2585	2593	2602	2612	2624	2634	2642	2648	2653	2655	2656	2655	2649
20	2346	2352	2360	2376	2392	2410	2431	2452	2471	2488	2505	2521	2536	2550	2558	2559	2559	2553
25	2094	2100	2109	2130	2152	2177	2210	2244	2278	2312	2346	2374	2395	2414	2427	2432	2435	2431
30	1849	1858	1868	1891	1915	1941	1975	2010	2048	2096	2144	2186	2214	2242	2263	2273	2282	2282
35	1577	1586	1596	1625	1655	1687	1731	1775	1821	1872	1923	1970	2011	2050	2082	2095	2106	2108
40	1358	1365	1373	1396	1418	1444	1488	1533	1579	1631	1684	1736	1788	1840	1882	1897	1910	1913
45	1166	1171	1177	1197	1216	1237	1271	1305	1343	1400	1457	1513	1565	1617	1661	1678	1695	1701
50	994	998	1003	1019	1034	1051	1079	1108	1139	1185	1232	1279	1331	1382	1428	1449	1468	1477
55	840	843	847	859	870	883	905	927	951	985	1020	1056	1103	1151	1194	1215	1236	1247
60	700	702	705	713	721	730	746	762	778	804	830	857	893	929	962	983	1003	1017
65	571	572	574	579	584	590	600	610	621	638	655	672	698	723	747	763	779	790
70	453	453	454	456	458	461	466	471	476	485	494	503	516	529	542	554	565	574
75	349	348	348	347	347	346	347	347	347	349	350	351	355	358	361	365	369	372
80	261	260	259	257	254	251	247	242	238	232	227	221	216	210	205	202	198	194
85	189	187	185	181	177	173	166	159	152	143	133	123	111	98.9	86.5	78.2	69.9	61.6
90	130	128	126	122	117	112	104	96.9	89.3	78.8	68.2	57.6	45.8	34.2	22.6	15.4	8.17	0.92
95	83.4	81.9	80.3	76.1	71.9	67.5	60.9	54.2	47.4	39.4	31.3	23.4	17.1	11.1	5.42	3.58	2.06	0.55
100	50.3	49.1	47.7	44.5	41.1	37.8	33.1	28.4	23.8	19.4	15.2	11.0	8.37	5.85	3.42	2.45	1.58	0.66
105	29.7	29.0	28.2	26.3	24.3	22.3	19.9	17.5	15.1	12.8	10.5	8.28	6.59	4.98	3.41	2.54	1.72	0.80
110	20.5	20.2	19.8	18.9	17.8	16.8	15.3	13.7	12.1	10.4	8.67	7.01	5.68	4.45	3.47	2.33	1.89	1.02
115	16.7	16.5	16.2	15.4	14.6	13.8	12.5	11.2	9.94	8.84	7.78	6.76	5.89	5.00	4.16	3.27	2.41	1.56
120	13.7	13.5	13.3	12.8	12.2	11.7	10.9	10.1	9.36	8.60	7.86	7.14	6.40	5.67	4.91	4.24	3.57	2.90
125	12.2	12.1	12.0	11.6	11.2	10.8	10.2	9.64	9.05	8.48	7.91	7.35	6.79	6.23	5.67	5.10	4.53	3.96
130	11.3	11.2	11.1	10.8	10.5	10.2	9.89	9.55	9.24	8.93	8.63	8.33	8.03	7.73	7.43	7.13	6.83	6.53
135	10.6	10.5	10.5	10.4	10.2	10.1	10.2	10.4	10.6	10.6	10.6	10.5	10.3	10.1	9.81	9.51	9.21	8.91
140	10.4	10.5	10.5	10.7	10.9	11.0	11.4	11.8	12.1	11.5	10.6	9.71	8.72	7.73	6.74	5.75	4.76	3.77
145	11.6	11.8	12.0	12.3	12.6	12.9	12.8	12.6	12.3	11.2	9.77	8.34	7.15	6.06	5.02	4.30	3.72	3.27
150	13.2	13.3	13.4	13.4	13.4	13.3	12.6	11.8	10.9	9.75	8.43	7.14	6.33	5.73	5.16	4.62	4.08	3.52
155	13.1	13.0	13.0	12.6	12.2	11.7	10.9	9.86	8.86	7.96	7.10	6.28	5.83	5.61	5.41	5.01	4.43	3.69
160	10.4	10.3	10.2	9.83	9.44	9.02	8.44	7.80	7.15	6.64	6.21	5.82	5.64	5.64	5.62	5.30	4.59	3.54
165	7.79	7.74	7.65	7.47	7.23	6.98	6.66	6.30	5.96	5.76	5.69	5.64	5.56	5.44	5.29	4.99	4.43	3.51
170	6.18	6.11	6.02	5.90	5.77	5.62	5.49	5.36	5.24	5.14	5.09	5.05	4.93	4.68	4.39	4.11	3.84	3.40
175	6.00	5.91	5.80	5.66	5.49	5.25	5.02	4.77	4.54	4.35	4.20	4.10	3.98	3.85	3.71	3.56	3.51	3.81
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.96

C Range: 0 - 360°

C Interval: 5.0°

Test Speed: HIGH

Temperature: 25.0°

Operators: Alan Wang

Test Date: 12 January 2025

γ Range: 0 - 180°

γ Interval: 0.5°

Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416

Humidity: 43.3%

Test Distance: 2.50m [K=1.0432]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.3536A P:42.23W PF:0.9952 Freq:60.00Hz Lamp Flux:6119.86x1 lm																		
NAME:									TYPE:LED					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.:									SUR.:					Shielding Angle:				

Table--3

UNIT: cd

C (DEG) γ (DEG)																			
	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775
5	2761	2757	2753	2748	2743	2739	2734	2730	2727	2724	2721	2719	2718	2716	2716	2715	2714	2715	2715
10	2714	2704	2693	2683	2675	2667	2660	2654	2647	2640	2632	2624	2615	2609	2605	2602	2599	2602	2605
15	2632	2620	2608	2594	2577	2557	2536	2515	2493	2472	2454	2439	2425	2414	2404	2398	2392	2399	2406
20	2526	2509	2487	2465	2437	2403	2368	2331	2288	2245	2210	2190	2171	2155	2148	2141	2134	2141	2148
25	2396	2370	2333	2293	2249	2196	2142	2094	2057	2021	1987	1957	1929	1904	1892	1883	1873	1884	1894
30	2244	2213	2155	2096	2038	1983	1929	1876	1826	1776	1729	1690	1653	1619	1607	1598	1588	1599	1610
35	2058	2019	1953	1886	1819	1756	1694	1632	1575	1518	1466	1437	1410	1385	1376	1367	1359	1368	1378
40	1845	1803	1737	1671	1602	1527	1453	1384	1339	1295	1255	1229	1205	1183	1175	1168	1161	1169	1176
45	1632	1589	1515	1442	1369	1304	1239	1179	1140	1102	1067	1045	1025	1005	999	993	987	993	1000
50	1392	1344	1276	1207	1141	1090	1039	992	959	927	898	880	863	847	842	837	832	837	842
55	1168	1125	1064	1001	943	900	859	821	794	769	745	730	717	704	700	696	692	696	700
60	943	904	855	806	759	726	694	663	643	624	605	595	584	575	572	568	565	568	571
65	724	691	656	621	588	564	541	519	504	491	478	470	463	456	453	451	449	451	453
70	524	500	476	453	431	416	401	387	378	370	362	357	353	349	347	346	344	345	346
75	342	327	314	302	290	283	277	271	267	264	261	260	259	258	258	257	257	257	257
80	183	178	176	175	174	176	177	179	180	182	184	185	186	187	187	187	188	187	187
85	67.7	70.8	77.8	85.2	92.8	98.8	105	111	115	119	123	126	128	130	131	131	132	131	130
90	13.1	18.7	26.9	34.9	42.9	49.8	56.6	63.5	68.3	73.1	78.0	80.6	83.3	86.0	86.8	87.7	88.5	87.5	86.5
95	4.11	5.96	10.2	14.5	18.7	23.9	29.2	34.3	38.5	42.6	46.6	49.1	51.7	54.2	55.1	55.9	56.7	55.8	54.9
100	2.83	3.94	6.36	8.86	11.3	14.2	17.0	19.7	22.6	25.5	28.3	30.3	32.3	34.2	34.9	35.5	36.0	35.4	34.8
105	2.80	3.81	5.42	7.05	8.70	10.8	13.0	15.2	16.8	18.5	20.1	21.2	22.4	23.4	23.9	24.3	24.7	24.3	23.8
110	3.17	4.32	5.48	6.63	7.77	9.25	10.7	12.2	13.7	15.3	16.8	17.7	18.7	19.6	19.9	20.2	20.5	20.2	19.8
115	3.95	5.44	6.12	6.70	7.29	8.42	9.64	10.8	11.8	12.8	13.8	14.6	15.3	16.1	16.4	16.6	16.8	16.5	16.1
120	4.28	5.81	6.37	6.78	7.21	8.11	9.08	10.0	10.9	11.7	12.5	13.0	13.4	13.9	14.0	14.1	14.3	14.1	14.0
125	4.20	5.52	6.31	7.00	7.71	8.34	8.95	9.54	10.2	10.8	11.4	11.9	12.4	12.8	13.0	13.2	13.3	13.2	13.1
130	4.00	5.08	6.34	7.65	8.94	9.26	9.35	9.43	9.85	10.3	10.8	11.2	11.6	12.0	12.1	12.3	12.4	12.3	12.2
135	3.80	4.59	6.12	7.86	9.56	9.96	10.0	10.1	10.3	10.4	10.6	10.9	11.2	11.4	11.6	11.7	11.8	11.7	11.6
140	3.56	4.04	5.46	7.22	8.96	10.1	11.0	12.0	11.9	11.6	11.3	11.3	11.4	11.4	11.5	11.5	11.6	11.5	11.5
145	3.67	4.11	5.17	6.50	7.83	9.37	11.0	12.6	13.1	13.3	13.5	13.4	13.1	12.9	12.9	12.8	12.7	12.8	12.9
150	3.74	3.96	4.54	5.29	6.08	7.42	9.02	10.6	11.8	13.0	14.1	14.5	14.8	15.1	15.1	15.1	15.1	15.1	15.1
155	3.79	3.92	4.25	4.74	5.25	6.02	6.94	7.88	9.06	10.4	11.7	12.5	13.2	13.8	14.1	14.3	14.4	14.2	14.0
160	3.60	3.66	3.84	4.15	4.48	4.89	5.39	5.90	6.52	7.20	7.89	8.65	9.43	10.2	10.7	11.0	11.4	11.4	11.3
165	3.55	3.60	3.66	3.71	3.78	3.91	4.15	4.42	4.79	5.29	5.80	6.22	6.61	6.98	7.27	7.51	7.76	7.79	7.83
170	3.44	3.47	3.50	3.54	3.61	3.68	3.76	3.84	3.91	3.97	4.05	4.18	4.41	4.66	4.92	5.18	5.44	5.50	5.54
175	3.81	3.81	3.81	3.83	3.86	3.91	3.95	3.98	3.99	3.99	4.00	3.99	3.94	3.87	3.82	3.77	3.71	3.92	4.09
180	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96

C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature: 25.0DEG

Operators: Alan Wang

Test Date: 12 January 2025

γ Range: 0 - 180DEG

γ Interval: 0.5DEG

Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416

Humidity: 43.3%

Test Distance: 2.500m [K=1.0432]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.3536A P:42.23W PF:0.9952 Freq:60.00Hz Lamp Flux:6119.86x1 lm																	
NAME:									TYPE:LED						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.:									SUR.:						Shielding Angle:		

Table--4

UNIT: cd

C(°) γ (°)																	
	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355		
0	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775	2775		
5	2716	2718	2719	2721	2723	2726	2729	2733	2737	2742	2747	2751	2755	2757	2759		
10	2610	2616	2624	2632	2638	2644	2649	2655	2662	2669	2677	2687	2698	2707	2711		
15	2417	2428	2441	2454	2472	2494	2516	2536	2554	2571	2586	2599	2611	2622	2629		
20	2156	2172	2191	2212	2248	2289	2332	2368	2403	2436	2462	2480	2498	2512	2523		
25	1906	1932	1962	1992	2025	2059	2094	2141	2194	2246	2288	2324	2357	2380	2394		
30	1623	1657	1696	1736	1783	1832	1881	1936	1992	2050	2102	2151	2199	2225	2241		
35	1388	1414	1442	1473	1524	1581	1639	1699	1760	1821	1885	1951	2015	2047	2064		
40	1185	1209	1234	1260	1301	1346	1392	1459	1532	1605	1672	1737	1801	1836	1861		
45	1007	1027	1048	1070	1106	1145	1184	1245	1310	1376	1444	1513	1581	1617	1645		
50	848	864	881	899	930	962	995	1043	1094	1146	1211	1279	1346	1385	1418		
55	705	717	731	745	769	795	822	861	902	945	1001	1060	1119	1155	1188		
60	574	584	594	604	622	642	662	693	725	759	806	855	905	935	963		
65	455	461	468	476	488	502	516	538	561	585	618	653	688	714	740		
70	348	351	355	359	367	375	384	397	411	426	447	470	492	512	532		
75	257	257	258	259	261	264	267	272	278	284	295	306	318	330	341		
80	186	185	183	182	180	177	175	173	170	168	168	168	169	172	176		
85	129	127	124	122	117	113	108	101	94.7	88.0	79.6	71.4	63.4	59.1	55.2		
90	85.6	82.6	79.7	76.8	71.6	66.5	61.5	54.4	47.3	40.1	31.9	23.6	15.2	10.5	5.59		
95	54.0	51.3	48.5	45.8	41.6	37.4	33.0	27.7	22.2	16.8	12.8	8.79	4.83	3.26	1.78		
100	34.1	32.0	29.8	27.6	24.8	21.7	18.7	16.0	13.2	10.3	8.03	5.71	3.44	2.38	1.36		
105	23.3	22.2	21.0	19.8	18.0	16.3	14.5	12.4	10.2	8.07	6.51	4.97	3.45	2.43	1.42		
110	19.5	18.4	17.4	16.3	14.7	13.1	11.5	10.1	8.68	7.29	6.31	5.33	4.32	3.05	1.80		
115	15.7	15.0	14.2	13.4	12.4	11.4	10.4	9.28	8.15	7.09	6.55	6.04	5.41	3.89	2.37		
120	13.8	13.4	12.9	12.3	11.5	10.6	9.68	8.84	8.00	7.19	6.68	6.18	5.56	4.13	2.66		
125	12.9	12.4	12.0	11.5	10.7	9.99	9.30	8.91	8.52	8.03	7.09	6.15	5.19	4.01	2.81		
130	12.0	11.7	11.3	10.8	10.3	9.81	9.41	9.65	9.89	9.78	8.08	6.34	4.77	3.83	2.92		
135	11.5	11.2	10.9	10.7	10.5	10.4	10.3	10.5	10.7	10.4	8.40	6.30	4.47	3.75	3.05		
140	11.5	11.5	11.5	11.5	11.8	12.0	12.1	11.4	10.7	9.77	7.86	5.89	4.29	3.70	3.17		
145	13.0	13.2	13.5	13.6	13.4	13.1	12.6	11.2	9.74	8.29	6.84	5.37	4.21	3.77	3.37		
150	15.1	15.0	14.7	14.4	13.5	12.6	11.5	9.87	8.24	6.83	5.88	4.96	4.22	3.85	3.51		
155	13.7	13.4	13.0	12.5	11.5	10.6	9.58	8.45	7.32	6.30	5.49	4.70	4.13	3.86	3.64		
160	11.2	10.8	10.3	9.79	9.09	8.37	7.69	7.09	6.49	5.91	5.34	4.78	4.33	3.99	3.70		
165	7.81	7.67	7.49	7.26	6.93	6.59	6.23	5.85	5.48	5.15	4.85	4.55	4.24	3.94	3.70		
170	5.56	5.54	5.49	5.41	5.28	5.13	4.96	4.78	4.61	4.46	4.32	4.17	3.97	3.76	3.63		
175	4.19	4.22	4.23	4.22	4.19	4.14	4.06	3.99	3.95	3.91	3.89	3.90	3.91	3.92	3.98		
180	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96		

C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature: 25.0DEG

Operators: Alan Wang

Test Date: 12 January 2025

γ Range: 0 - 180DEG

γ Interval: 0.5DEG

Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416

Humidity: 43.3%

Test Distance: 2.500m [K=1.0432]

Remarks: