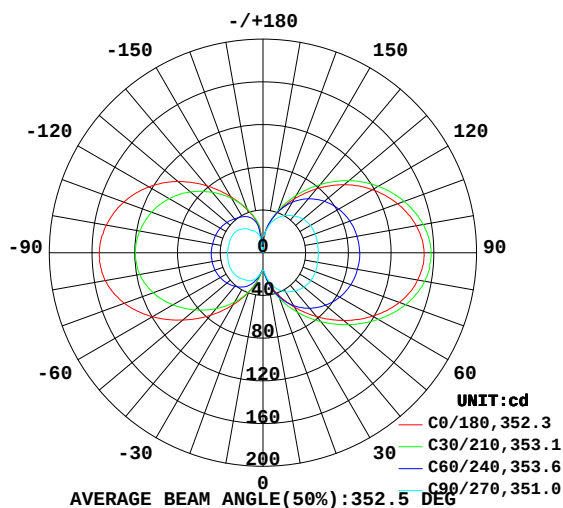


LUMINAIRE PHOTOMETRIC TEST REPORT

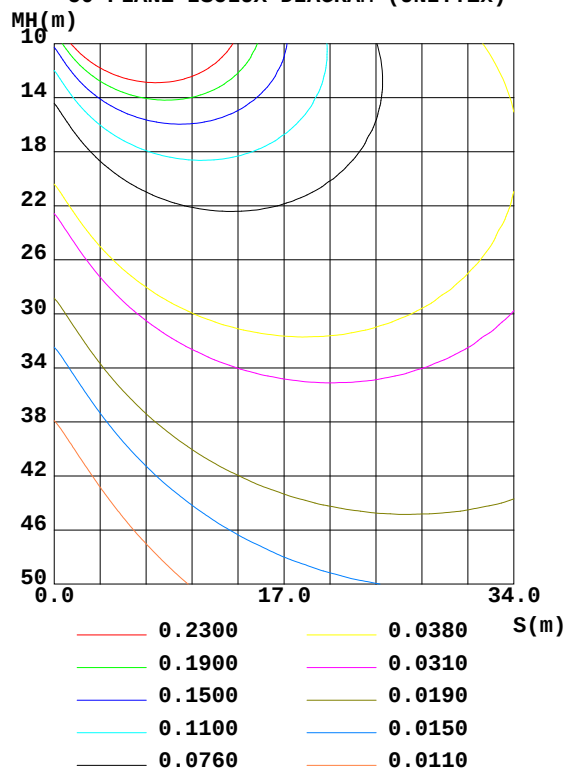
Test:U:120.0V I:0.1417A P:16.73W PF:0.9840 Freq:60.00Hz Lamp Flux:945.544x1 lm		
NAME:ASD-LWS27N-24D24SM-RGB-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 56.52 lm/W			
MODEL	ASD-LWS27N-24D24SM-RGB-BK	I _{max} (cd)	159.3	S/MH(C0/180)	4.46
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	2.53
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	945.54	η UP, DN(C0-180)	28.6, 28.6
NOMINAL FLUX(lm)	945.544	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	21.4, 21.5
LAMPS INSIDE	1	η up(%)	49.9	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	50.1	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: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
Test Distance: 2.500m [K=1.0423]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	27.47	28.79	25.33	26.43	24.52	24.00	21.78	26.04	0- 10	2.056	2.056	0.22,0.22
20	42.02	45.87	35.27	42.18	39.03	35.62	27.37	36.94	10- 20	9.208	11.26	1.19,1.19
30	58.84	62.46	42.32	56.21	56.36	45.83	29.89	45.02	20- 30	20.56	31.82	3.37,3.37
40	78.03	78.35	46.68	68.00	76.49	53.93	31.67	50.08	30- 40	35.02	66.84	7.07,7.07
50	98.72	92.43	50.08	78.01	98.13	60.63	33.11	52.84	40- 50	51.59	118.4	12.5,12.5
60	118.7	104.5	51.87	86.16	119.8	65.64	33.81	55.79	50- 60	68.95	187.4	19.8,19.8
70	135.9	113.5	52.37	92.18	138.2	69.50	33.71	58.12	60- 70	85.03	272.4	28.8,28.8
80	147.2	118.6	51.96	95.60	150.1	71.48	33.30	59.28	70- 80	97.30	369.7	39.1,39.1
90	150.9	120.0	51.96	96.98	153.2	72.12	33.22	59.70	80- 90	103.8	473.5	50.1,50.1
100	145.8	117.9	51.83	96.14	149.0	71.38	32.86	59.04	90-100	103.4	576.8	61,61
110	134.2	112.4	51.95	93.63	138.8	69.77	33.09	57.73	100-110	96.62	673.5	71.2,71.2
120	118.2	103.8	51.18	88.73	123.4	67.15	33.00	55.54	110-120	84.92	758.4	80.2,80.2
130	99.19	92.11	49.11	81.02	103.9	62.96	32.11	52.74	120-130	69.49	827.9	87.6,87.6
140	78.24	77.30	45.19	70.89	81.91	57.32	29.19	48.26	130-140	52.02	879.9	93.1,93.1
150	58.12	60.36	40.23	58.44	60.75	50.43	24.99	42.02	140-150	34.95	914.9	96.8,96.8
160	40.59	42.52	33.29	43.74	42.70	41.16	21.09	32.07	150-160	20.26	935.1	98.9,98.9
170	25.78	25.17	23.55	27.40	28.07	28.46	14.05	19.13	160-170	8.951	944.1	99.8,99.8
180	0	0.5217	15.41	0	0.0562	0.0585	0.0578	0.0790	170-180	1.479	945.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 90.473 lm

%lum = 9.6%

%lamp = 9.6%

Conical surface Flux(120deg): 187.38 lm

%lum = 19.8%

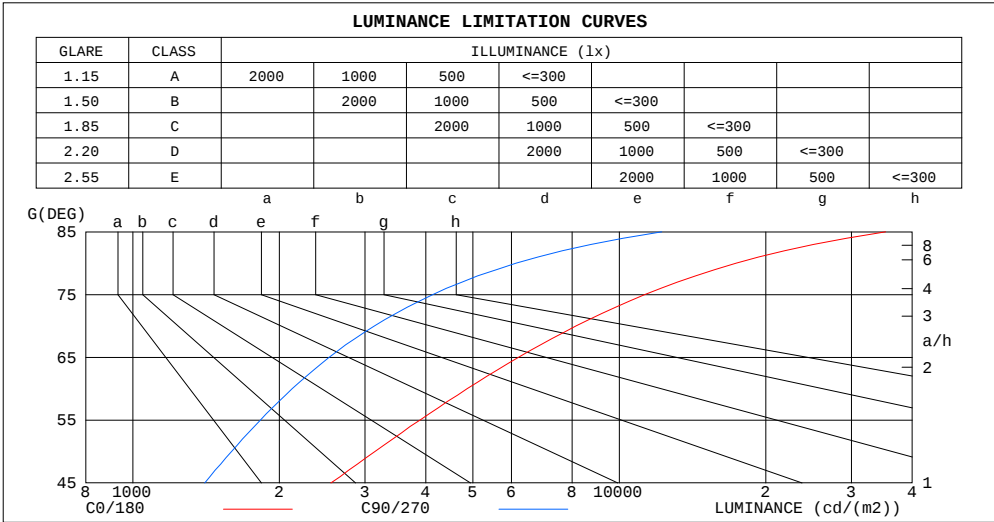
%lamp = 19.8%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.3%
 Test Distance: 2.500m [K=1.0423]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1417A P:16.73W PF:0.9840 Freq:60.00Hz Lamp Flux:945.544x1 lm		
NAME:	TYPE: LED	WEIGHT:
SPEC.: ASD-LWS27N-24D24SM-RGB-BK_5000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	35252	12223
80	17373	6132
75	11283	4136
70	8143	3138
65	6205	2531
60	4865	2126
55	3893	1829
50	3147	1597
45	2554	1405

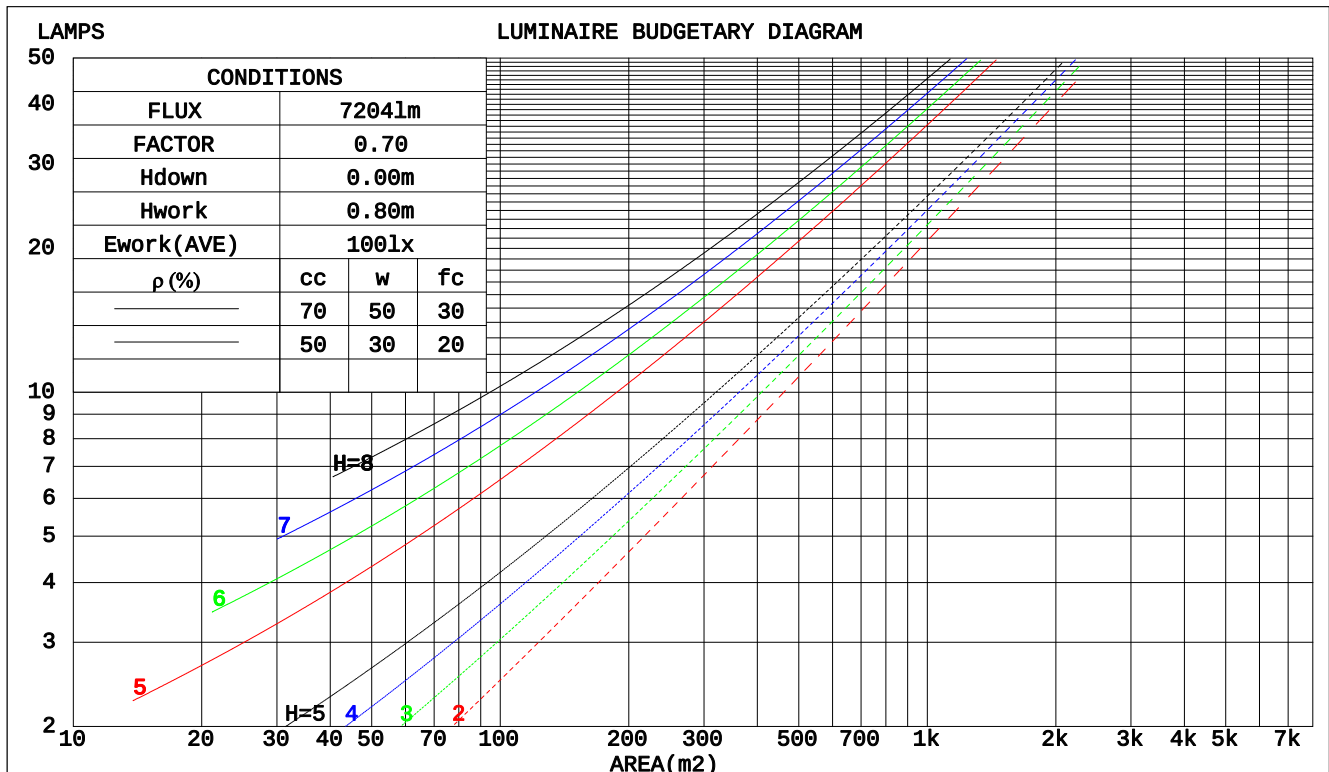
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
Test Distance: 2.500m [K=1.0423]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1417A P:16.73W PF:0.9840 Freq:60.00Hz Lamp Flux:945.544x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-24D24SM-RGB-BK_5000K	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	1.07	1.07	1.07	.99	.99	.99	.83	.83	.83	.69	.69	.69	.56	.56	.56	.50
1.0	.85	.79	.74	.78	.73	.68	.65	.61	.57	.52	.49	.46	.41	.38	.36	.31
2.0	.72	.63	.56	.65	.58	.52	.54	.48	.43	.43	.38	.34	.33	.29	.26	.21
3.0	.61	.52	.44	.56	.47	.41	.46	.39	.34	.36	.31	.27	.27	.24	.20	.16
4.0	.53	.43	.36	.48	.40	.33	.39	.33	.27	.31	.26	.22	.23	.19	.16	.12
5.0	.47	.37	.30	.42	.34	.27	.35	.28	.22	.27	.22	.18	.21	.16	.13	.09
6.0	.41	.32	.25	.38	.29	.23	.31	.24	.19	.24	.19	.15	.18	.14	.11	.08
7.0	.37	.28	.21	.34	.25	.20	.28	.21	.16	.22	.17	.13	.16	.12	.09	.06
8.0	.33	.24	.18	.30	.22	.17	.25	.18	.14	.20	.15	.11	.15	.11	.08	.05
9.0	.30	.22	.16	.27	.20	.15	.23	.16	.12	.18	.13	.09	.14	.10	.07	.05
10.0	.27	.19	.14	.25	.18	.13	.21	.15	.11	.17	.12	.08	.13	.09	.06	.04



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
Test Distance: 2.500m [K=1.0423]
Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1417A P:16.73W PF:0.9840 Freq:60.00Hz Lamp Flux:945.544x1 lm									
NAME:				TYPE:LED				WEIGHT:	
SPEC.:ASD-LWS27N-24D24SM-RGB-BK_5000K				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	.433	.246	.078	.410	.234	.074	.368	.211	.067	.329	.190	.061	.294	.170	.055	
2.0	.357	.196	.060	.336	.185	.057	.298	.166	.051	.262	.147	.046	.229	.130	.041	
3.0	.309	.164	.049	.290	.155	.047	.255	.138	.042	.222	.122	.037	.192	.106	.033	
4.0	.273	.142	.042	.256	.134	.040	.224	.119	.035	.194	.104	.031	.166	.090	.027	
5.0	.246	.125	.036	.230	.118	.034	.200	.104	.031	.173	.091	.027	.147	.078	.024	
6.0	.223	.112	.032	.209	.105	.030	.181	.093	.027	.156	.081	.024	.132	.069	.021	
7.0	.205	.101	.029	.191	.095	.027	.166	.084	.024	.142	.073	.021	.120	.062	.018	
8.0	.189	.092	.026	.176	.087	.025	.153	.076	.022	.131	.066	.019	.110	.056	.016	
9.0	.175	.085	.024	.164	.080	.022	.142	.070	.020	.121	.061	.017	.101	.052	.015	
10.0	.163	.078	.022	.153	.074	.021	.132	.065	.018	.113	.056	.016	.094	.047	.014	

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	.571	.571	.571	.488	.488	.488	.333	.333	.333	.191	.191	.191	.061	.061	.061		
1.0	.572	.539	.508	.490	.462	.437	.335	.318	.302	.193	.184	.176	.062	.059	.057		
2.0	.567	.518	.476	.486	.446	.412	.333	.308	.287	.192	.179	.168	.062	.058	.055		
3.0	.560	.503	.457	.480	.434	.396	.330	.301	.278	.190	.176	.164	.061	.057	.054		
4.0	.553	.491	.445	.474	.425	.386	.326	.296	.272	.189	.173	.161	.061	.056	.053		
5.0	.545	.482	.436	.468	.417	.379	.323	.292	.268	.187	.171	.159	.060	.056	.052		
6.0	.538	.475	.430	.462	.412	.375	.319	.288	.265	.185	.169	.158	.060	.055	.052		
7.0	.531	.469	.426	.457	.407	.371	.316	.285	.263	.183	.168	.157	.059	.055	.052		
8.0	.524	.464	.422	.451	.402	.368	.312	.283	.261	.182	.167	.156	.059	.055	.052		
9.0	.518	.460	.420	.446	.399	.366	.309	.280	.260	.180	.166	.155	.058	.054	.051		
10.0	.512	.456	.418	.442	.396	.365	.306	.278	.259	.179	.165	.155	.058	.054	.051		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators:Alan Wang
 Test Date:12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.3%
 Test Distance:2.500m [K=1.0423]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1417A P:16.73W PF:0.9840 Freq:60.00Hz Lamp Flux:945.544x1 lm											
NAME:					TYPE:LED			WEIGHT:			
SPEC.:ASD-LWS27N-24D24SM-RGB-BK_5000K					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		16.1	17.3	17.0	18.2	19.3	12.5	13.6	13.4	14.5	15.7
	3H	20.0	21.1	20.9	22.0	23.2	15.4	16.4	16.2	17.3	18.5
	4H	22.2	23.1	23.1	24.1	25.3	16.9	17.9	17.8	18.8	20.0
	6H	24.4	25.3	25.4	26.3	27.5	18.7	19.6	19.6	20.5	21.7
	8H	25.7	26.6	26.6	27.5	28.7	19.6	20.5	20.5	21.4	22.7
	12H	27.1	27.9	28.0	28.9	30.1	20.7	21.6	21.7	22.5	23.8
4H	2H	17.0	17.9	17.9	18.9	20.1	14.8	15.7	15.7	16.7	17.9
	3H	21.1	22.0	22.1	22.9	24.2	17.6	18.4	18.5	19.4	20.6
	4H	23.4	24.2	24.4	25.2	26.5	19.2	19.9	20.1	20.9	22.2
	6H	25.9	26.6	26.9	27.6	28.9	20.9	21.6	21.9	22.6	23.9
	8H	27.2	27.9	28.2	28.9	30.2	21.9	22.5	22.8	23.5	24.8
	12H	28.7	29.3	29.7	30.3	31.6	22.9	23.5	23.9	24.6	25.9
8H	4H	23.9	24.6	24.9	25.6	26.9	20.9	21.5	21.9	22.5	23.9
	6H	26.8	27.4	27.8	28.4	29.7	22.8	23.4	23.8	24.4	25.7
	8H	28.4	28.9	29.4	29.9	31.2	23.9	24.4	24.9	25.4	26.8
	12H	30.1	30.6	31.2	31.6	33.0	25.1	25.6	26.1	26.6	28.0
12H	4H	24.0	24.6	25.0	25.6	26.9	21.6	22.2	22.5	23.2	24.5
	6H	27.0	27.5	28.0	28.5	29.8	23.7	24.2	24.7	25.2	26.5
	8H	28.7	29.1	29.7	30.2	31.5	24.9	25.3	25.9	26.4	27.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.3 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4					

CIE Pub.117, 945.5 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -0.2$)
Area: 0.0488 m²

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
Test Distance: 2.500m [K=1.0423]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1417A P:16.73W PF:0.9840 Freq:60.00Hz Lamp Flux:945.544x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-24D24SM-RGB-BK_5000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

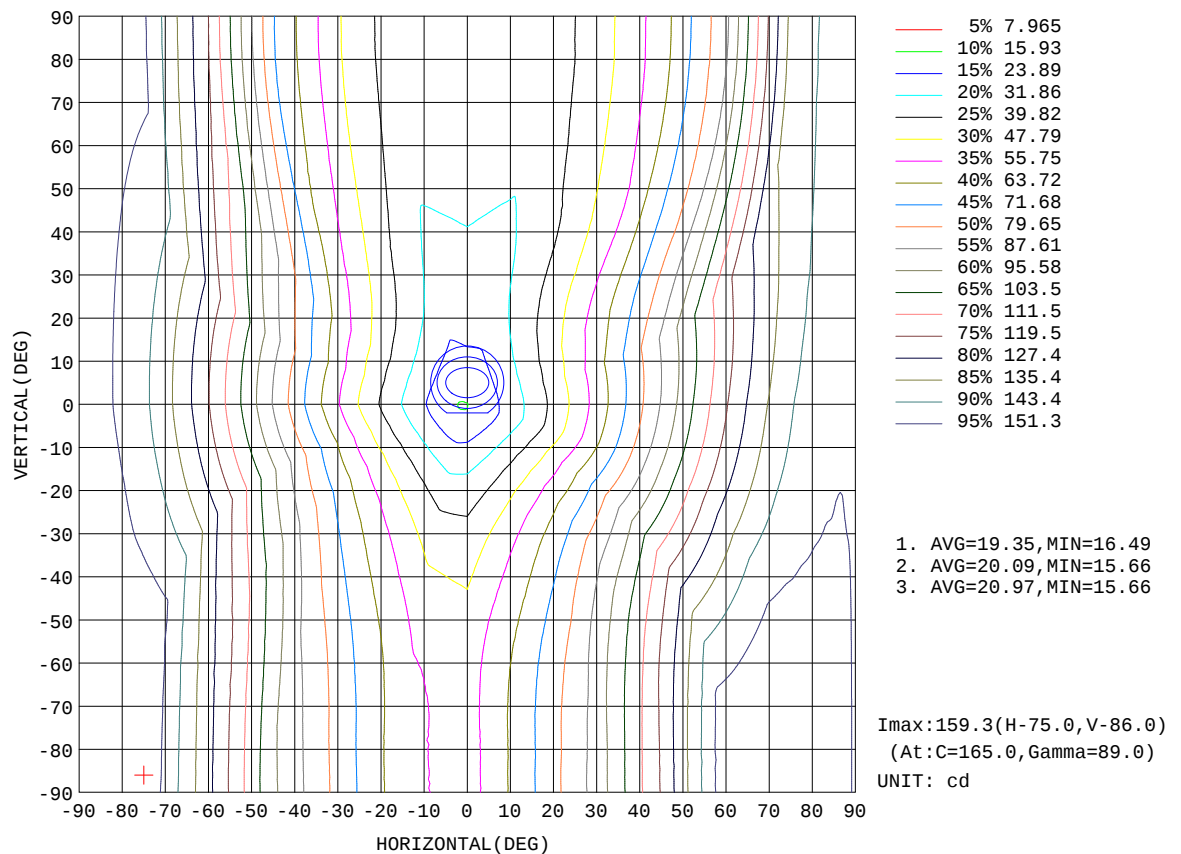
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	34	21	14	32	20	13	29	18	12	5
0.80	43	28	20	40	27	19	35	24	17	7
1.00	50	35	26	46	33	24	40	31	22	10
1.25	57	42	32	53	39	30	45	34	27	13
1.50	62	47	37	57	44	35	49	38	31	15
2.00	70	56	46	64	52	43	55	45	38	19
2.50	75	62	53	69	58	49	58	50	42	22
3.00	79	68	58	73	63	54	61	53	47	25
4.00	85	75	66	78	69	62	66	59	53	29
5.00	88	79	72	81	73	67	68	62	57	31
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: 25.1DEG
 Operators: Alan Wang
 Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.3%
 Test Distance: 2.500m [K=1.0423]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1417A P:16.73W PF:0.9840 Freq:60.00Hz Lamp Flux:945.544x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-24D24SM-RGB-BK_5000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

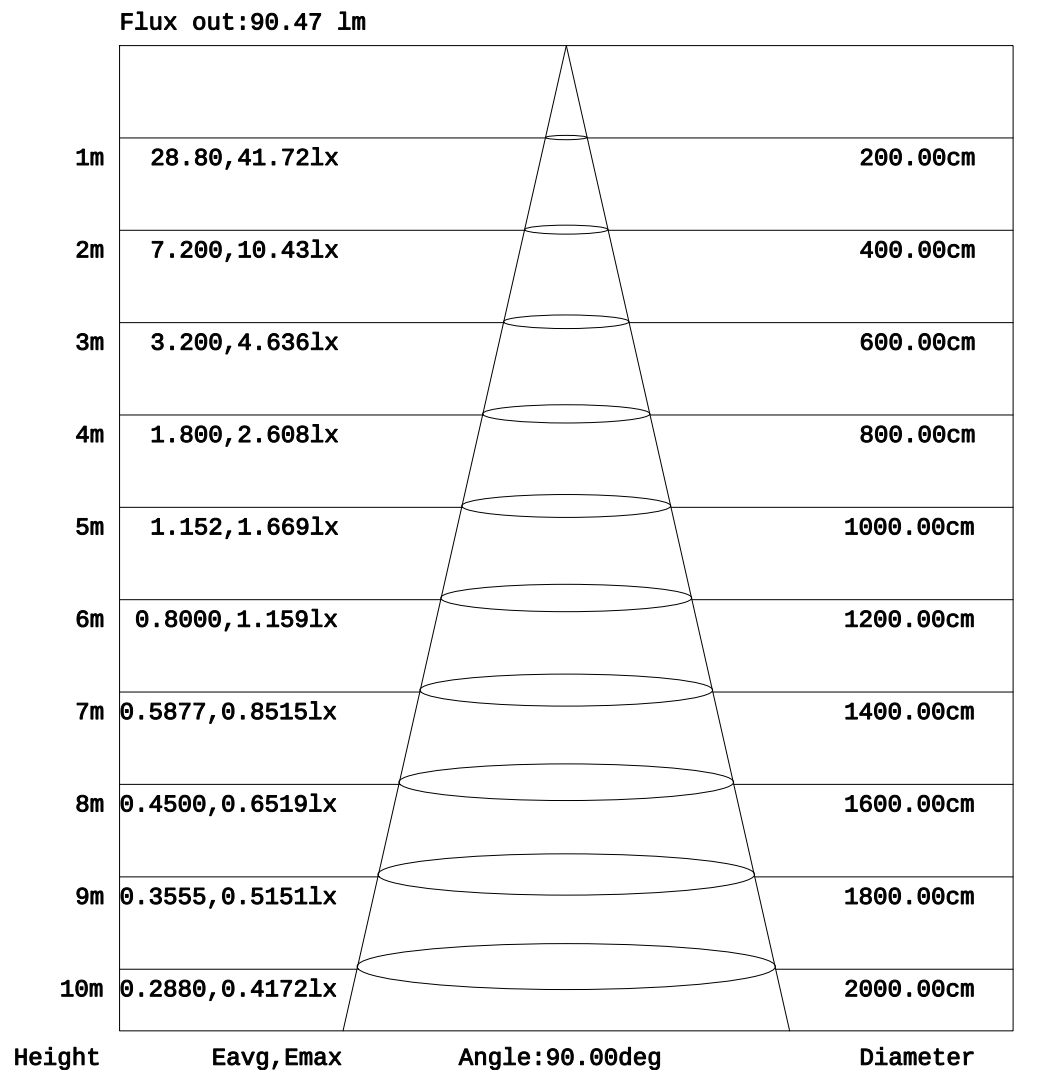


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
Test Distance: 2.500m [K=1.0423]
Remarks:

AAI Figure

Test:U:120.0V I:0.1417A P:16.73W PF:0.9840 Freq:60.00Hz Lamp Flux:945.544x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-24D24SM-RGB-BK_5000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



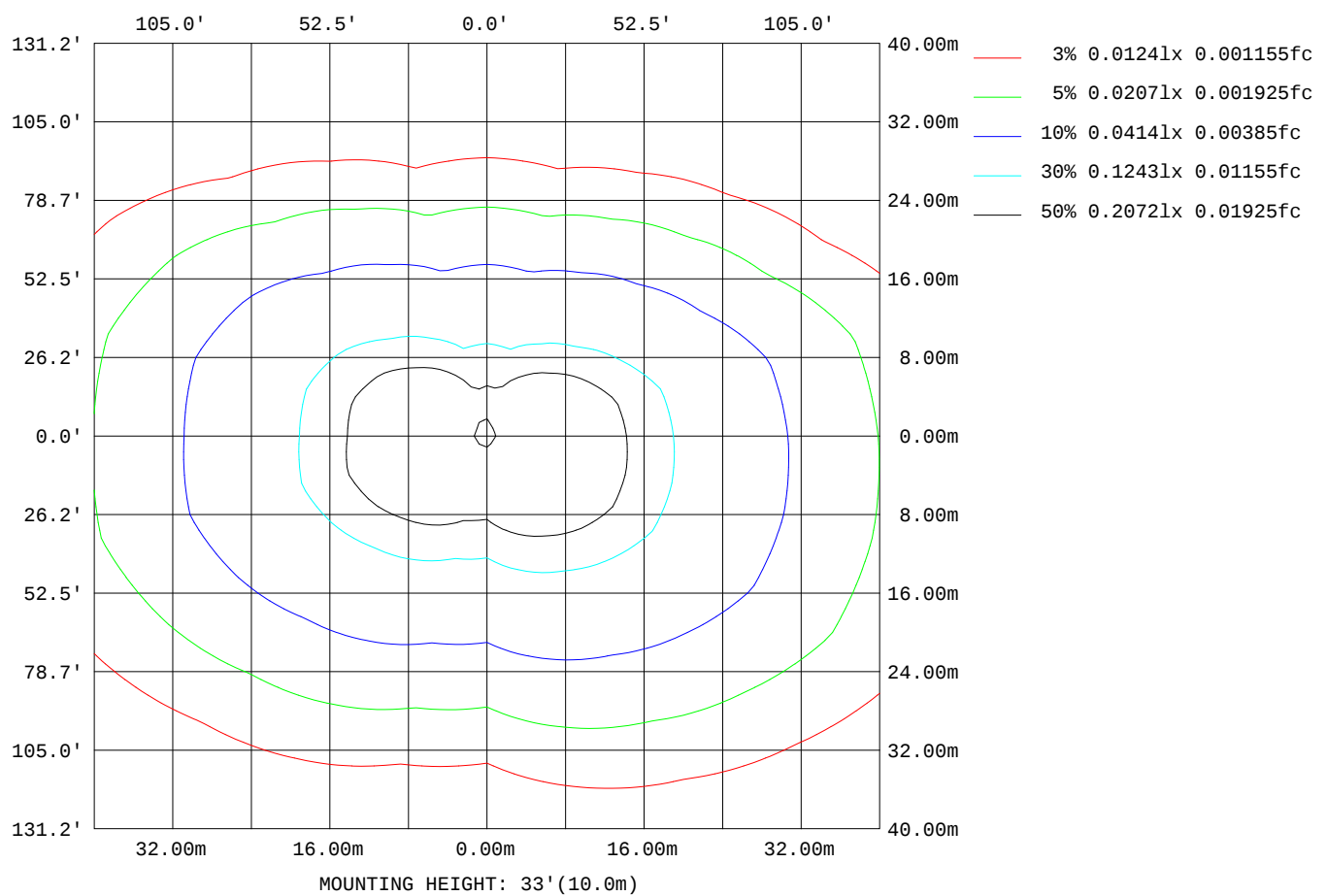
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators:Alan Wang
 Test Date:12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.3%
 Test Distance:2.500m [K=1.0423]
 Remarks:

ISOLUX DIAGRAM

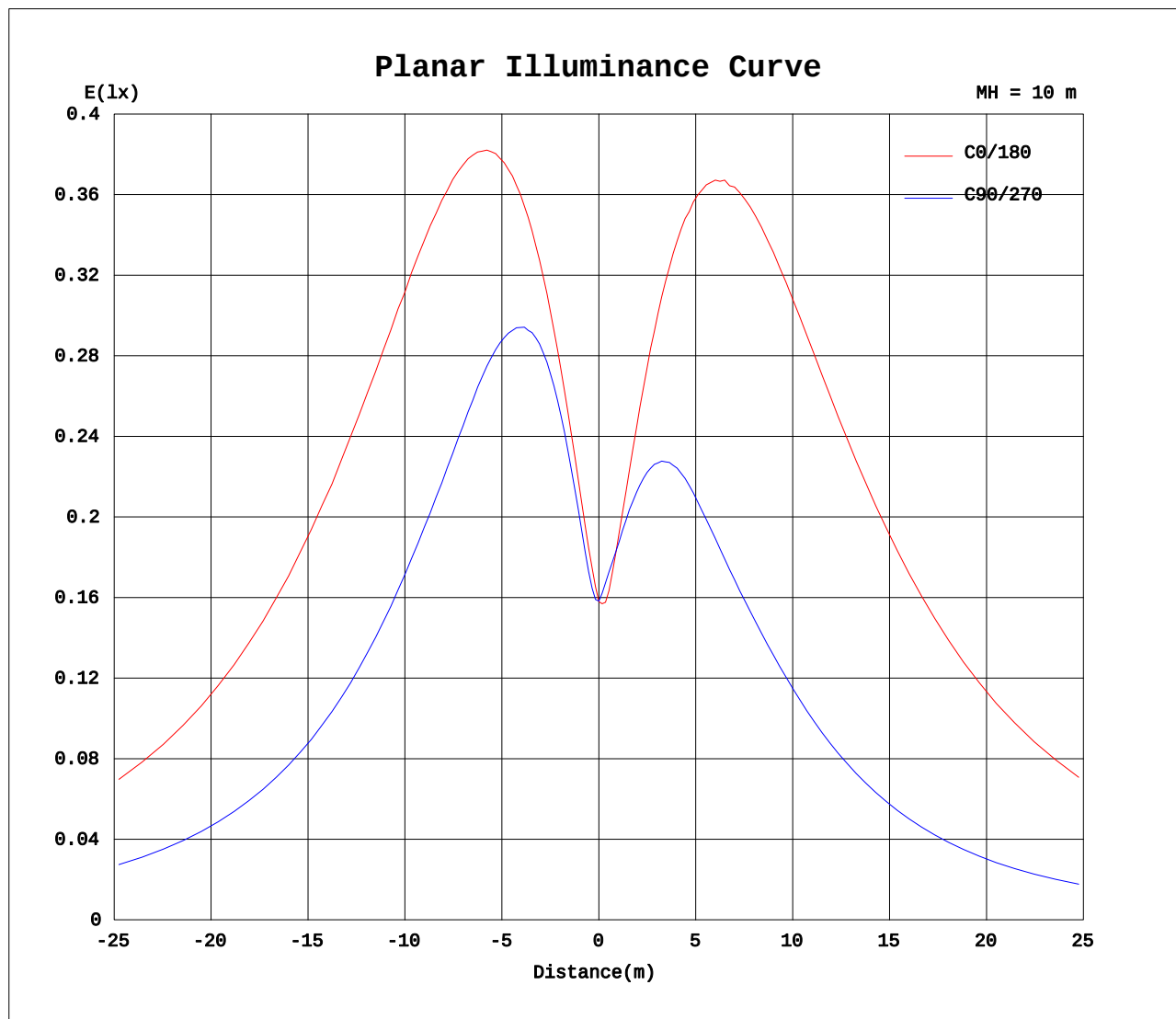
Test:U:120.0V I:0.1417A P:16.73W PF:0.9840 Freq:60.00Hz Lamp Flux:945.544x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-24D24SM-RGB-BK_5000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
Test Distance: 2.500m [K=1.0423]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
Test Distance: 2.500m [K=1.0423]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1417A P:16.73W PF:0.9840 Freq:60.00Hz Lamp Flux:945.544x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-24D24SM-RGB-BK_5000K	DIM.:	SERIAL No.:
MFR.:	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	15.8	15.8	15.8	15.9	15.9	15.9	15.8	15.8	15.8	15.8	15.7	15.7	15.8	15.8	15.8	15.9	15.9	15.9	15.8
5	20.9	20.6	20.6	20.8	20.8	20.3	19.5	19.2	18.9	18.9	18.9	18.6	18.4	18.7	18.7	18.5	18.1	18.3	18.5
10	27.5	27.0	28.2	28.8	28.4	27.1	25.3	24.7	25.7	26.4	26.4	25.5	24.5	25.0	25.0	24.0	22.4	20.9	21.8
15	34.5	34.4	36.6	37.3	36.2	33.8	30.7	30.2	32.6	34.4	34.9	33.5	31.5	32.2	31.8	29.9	26.9	23.6	24.9
20	42.0	42.4	45.4	45.9	43.8	39.8	35.3	35.3	39.1	42.2	43.5	42.1	39.0	40.0	38.9	35.6	30.9	26.0	27.4
25	50.0	51.0	54.6	54.3	50.7	45.2	39.1	39.5	44.9	49.5	52.2	51.4	47.2	48.3	46.1	41.0	34.4	27.8	29.0
30	58.8	60.4	64.2	62.5	57.1	49.8	42.3	43.2	49.9	56.2	60.7	61.1	56.4	57.1	53.5	45.8	37.1	28.9	29.9
35	68.2	70.5	74.1	70.6	62.9	53.6	44.6	46.1	54.4	62.3	69.1	71.2	66.2	66.7	60.9	50.2	39.2	29.8	30.7
40	78.0	80.9	84.1	78.3	67.9	57.0	46.7	48.7	58.3	68.0	77.4	81.9	76.5	76.6	68.4	53.9	40.8	30.6	31.7
45	88.1	92.0	94.4	85.7	72.4	60.0	48.5	51.1	61.9	73.3	85.4	92.6	87.2	87.0	75.8	57.4	42.6	31.5	32.5
50	98.7	103	105	92.4	76.4	62.8	50.1	53.2	65.2	78.0	93.2	103	98.1	97.6	83.3	60.6	44.1	32.2	33.1
55	109	114	115	98.8	80.0	65.0	51.2	54.9	68.2	82.4	101	114	109	108	90.6	63.4	45.3	32.7	33.6
60	119	124	125	104	83.1	67.0	51.9	56.2	70.7	86.2	108	125	120	118	97.5	65.6	46.4	33.1	33.8
65	128	134	134	109	85.6	68.5	52.2	57.0	72.7	89.5	114	135	130	128	104	67.9	47.3	33.3	33.9
70	136	143	142	113	87.6	69.4	52.4	57.7	74.3	92.2	120	144	138	137	109	69.5	47.8	33.3	33.7
75	143	150	149	116	89.0	70.1	52.2	58.0	75.5	94.1	124	151	145	144	114	70.7	48.2	33.3	33.6
80	147	155	154	119	89.9	70.3	52.0	58.1	76.2	95.6	127	156	150	149	117	71.5	48.4	33.2	33.3
85	150	158	157	120	90.5	70.7	52.0	58.4	76.9	96.5	129	159	153	152	119	71.9	48.4	33.1	33.4
90	151	159	157	120	90.6	70.7	52.0	58.6	77.2	97.0	130	159	153	152	119	72.1	48.5	33.2	33.2
95	149	157	156	119	90.2	70.4	51.7	58.6	77.2	96.7	129	158	152	151	119	71.9	48.3	33.1	33.1
100	146	153	153	118	89.4	70.0	51.8	58.6	76.9	96.1	127	154	149	148	117	71.4	48.0	32.9	32.9
105	140	148	147	116	88.3	69.6	52.0	58.7	76.3	95.2	125	150	145	144	114	70.8	47.7	33.0	32.9
110	134	140	141	112	86.7	68.8	51.9	58.6	75.5	93.6	121	144	139	138	111	69.8	47.5	33.1	33.1
115	127	133	133	109	84.4	67.5	51.7	58.2	74.3	91.3	117	137	132	132	107	68.7	46.9	33.0	33.1
120	118	124	125	104	81.9	66.0	51.2	57.4	72.5	88.7	111	128	123	124	101	67.1	46.3	32.9	33.0
125	109	113	115	98.5	78.8	63.9	50.4	56.3	70.2	85.3	105	119	114	114	95.4	65.2	45.4	32.5	32.7
130	99.2	103	105	92.1	75.1	61.3	49.1	54.7	67.4	81.0	97.4	108	104	104	88.7	63.0	44.2	31.8	32.1
135	88.7	91.3	94.4	84.9	70.7	58.4	47.4	52.5	64.0	76.3	89.6	97.0	92.9	93.8	81.4	60.2	43.0	30.8	30.9
140	78.2	79.6	83.4	77.3	66.0	54.9	45.2	50.0	60.3	70.9	80.9	85.6	81.9	83.1	73.9	57.3	41.6	29.9	29.2
145	67.9	68.8	72.6	69.1	60.7	51.2	42.8	47.2	56.2	65.0	72.1	74.3	71.0	72.4	66.4	54.1	40.2	29.4	27.5
150	58.1	58.2	62.0	60.4	54.6	47.1	40.2	44.1	51.7	58.4	62.9	63.6	60.8	62.3	58.9	50.4	38.9	28.5	25.0
155	49.0	48.3	51.7	51.4	47.9	42.3	37.1	40.4	46.4	51.4	54.1	53.5	51.3	52.8	51.4	46.3	37.4	28.6	23.0
160	40.6	39.5	42.0	42.5	40.5	36.8	33.3	35.9	40.3	43.7	45.1	44.0	42.7	43.8	43.9	41.2	35.1	27.9	21.1
165	33.0	31.6	33.0	33.7	32.7	30.6	28.8	30.6	33.6	35.7	36.4	35.4	35.2	35.6	36.3	35.2	31.6	25.5	18.4
170	25.8	24.7	24.6	25.2	25.0	24.0	23.5	24.6	26.3	27.4	27.6	27.2	28.1	28.3	28.9	28.5	24.7	16.4	14.1
175	13.5	16.1	17.7	17.8	17.6	17.6	17.8	18.3	18.9	19.4	19.2	16.9	12.6	13.0	9.37	6.30	3.94	2.19	0.87
180	0.00	0.00	0.00	0.52	8.09	14.7	15.4	14.9	6.47	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.3%
 Test Distance: 2.500m [K=1.0423]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1417A P:16.73W PF:0.9840 Freq:60.00Hz Lamp Flux:945.544x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-24D24SM-RGB-BK_5000K	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	15.8	15.8	15.8	15.7	15.7													
5	19.0	19.8	20.5	20.9	20.9													
10	22.1	24.2	26.0	27.3	27.7													
15	24.7	28.3	31.7	34.0	34.9													
20	26.8	31.9	36.9	40.7	42.5													
25	28.3	34.6	41.5	47.2	50.3													
30	29.0	36.5	45.0	53.4	58.5													
35	29.6	37.5	48.0	59.2	67.1													
40	30.4	38.4	50.1	64.5	75.9													
45	31.2	39.2	51.7	69.4	84.9													
50	32.0	40.1	52.8	73.5	93.8													
55	32.4	41.2	54.3	77.2	103													
60	32.8	41.7	55.8	79.9	111													
65	33.1	42.1	57.1	82.0	119													
70	33.2	42.6	58.1	83.6	126													
75	33.1	42.8	58.8	84.6	131													
80	33.1	42.8	59.3	85.2	135													
85	33.1	43.1	59.6	85.5	137													
90	33.2	43.0	59.7	85.6	137													
95	33.0	42.7	59.5	84.7	135													
100	32.7	42.5	59.0	83.4	131													
105	32.8	42.4	58.5	81.8	126													
110	32.7	42.2	57.7	79.5	119													
115	32.7	42.0	56.7	77.0	112													
120	32.4	41.5	55.5	74.0	105													
125	31.9	40.6	54.3	70.5	97.4													
130	31.3	39.5	52.7	66.7	88.9													
135	30.2	38.1	50.7	62.1	80.4													
140	28.3	36.2	48.3	57.5	71.3													
145	26.8	33.7	45.3	53.0	62.4													
150	24.8	31.1	42.0	47.8	53.8													
155	24.4	28.8	37.4	43.1	45.3													
160	22.9	24.8	32.1	37.1	37.0													
165	18.5	21.1	26.8	31.4	32.2													
170	13.3	13.3	19.1	25.1	26.3													
175	0.50	0.58	1.29	2.69	4.97													
180	0.06	0.07	0.08	0.07	0.07													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.3%
 Test Distance: 2.500m [K=1.0423]
 Remarks: