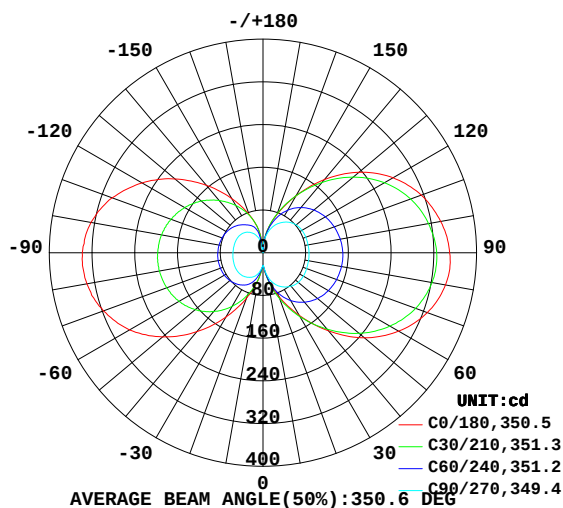


LUMINAIRE PHOTOMETRIC TEST REPORT

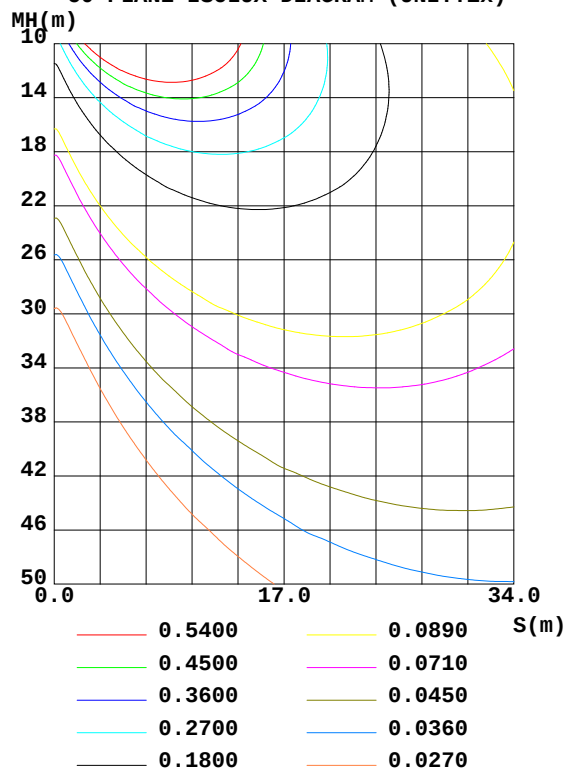
Test:U:120.0V I:0.2847A P:33.89W PF:0.9919 Freq:60.00Hz Lamp Flux:1974.06x1 lm		
NAME: ASD-LWS27N-48D36SM-RGB-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 58.25 lm/W			
MODEL ASD-LWS27N-48D36SM-RGB-BK		I _{max} (cd)	373.1	S/MH(C0/180)	5.20
NOMINAL POWER(W)	36	LOR(%)	100.0	S/MH(C90/270)	2.69
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1974.1	η UP, DN(C0-180)	27.8, 29.6
NOMINAL FLUX(lm)	1974.06	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	20.7, 22.0
LAMPS INSIDE	1	η up(%)	48.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	51.6	CIBSE SHR MAX	1.35

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	48.67	49.64	42.21	51.82	50.88	46.07	36.01	45.31	0- 10	3.508	3.508	0.18,0.18
20	86.77	87.65	61.73	93.75	90.42	72.51	47.16	71.28	10- 20	17.87	21.38	1.08,1.08
30	135.1	122.7	73.83	132.4	139.4	91.35	53.24	92.24	20- 30	42.78	64.16	3.25,3.25
40	191.2	152.0	81.90	165.4	193.1	103.2	57.28	105.6	30- 40	75.99	140.1	7.1,7.1
50	247.9	172.6	86.34	191.1	245.3	111.3	59.02	113.1	40- 50	114.3	254.5	12.9,12.9
60	293.6	185.2	87.53	207.7	288.9	116.5	59.01	117.9	50- 60	152.3	406.8	20.6,20.6
70	327.6	191.9	87.12	215.8	318.2	119.6	58.10	121.3	60- 70	184.7	591.5	30,30
80	346.9	195.1	86.57	219.2	334.8	121.0	57.22	123.4	70- 80	207.6	799.1	40.5,40.5
90	349.6	195.1	86.27	218.6	338.4	120.8	56.46	123.5	80- 90	218.9	1018	51.6,51.6
100	337.8	191.6	85.75	213.7	327.2	119.1	56.00	121.9	90-100	216.1	1234	62.5,62.5
110	315.5	185.4	85.41	204.0	300.8	115.4	55.82	118.3	100-110	200.8	1435	72.7,72.7
120	281.2	176.3	84.29	189.4	261.8	110.1	55.43	113.2	110-120	174.8	1610	81.5,81.5
130	234.7	162.5	81.19	168.8	215.3	102.8	53.84	106.8	120-130	141.1	1751	88.7,88.7
140	179.0	140.4	74.79	142.2	165.0	92.84	50.23	97.42	130-140	103.6	1854	93.9,93.9
150	122.7	100.5	64.80	110.9	117.6	80.62	43.46	81.17	140-150	67.08	1922	97.3,97.3
160	76.07	74.48	51.15	75.67	76.09	65.25	33.46	56.37	150-160	36.47	1958	99.2,99.2
170	39.28	38.54	32.07	39.26	39.96	33.38	10.46	20.93	160-170	14.23	1972	99.9,99.9
180	0	0	14.32	0	0.1074	0.1187	0.1266	0.0678	170-180	1.849	1974	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 192.37 lm

%lum = 9.7%

%lamp = 9.7%

Conical surface Flux(120deg): 406.8 lm

%lum = 20.6%

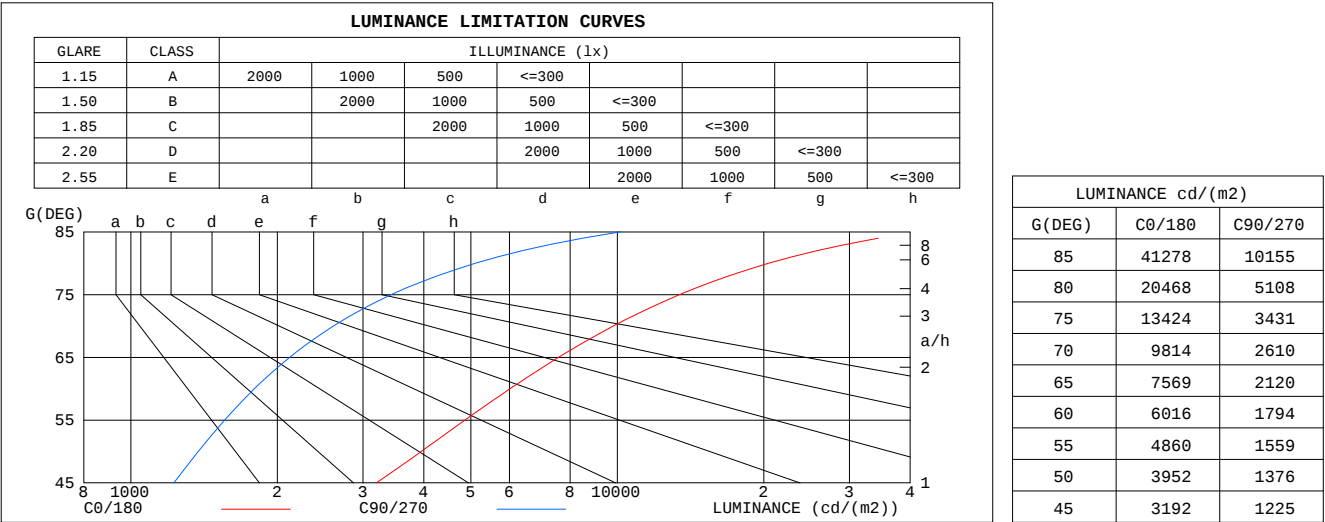
%lamp = 20.6%

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:0.2847A P:33.89W PF:0.9919 Freq:60.00Hz Lamp Flux:1974.06x1 lm		
NAME:	TYPE: LED	WEIGHT:
SPEC.: ASD-LWS27N-48D36SM-RGB-BK_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



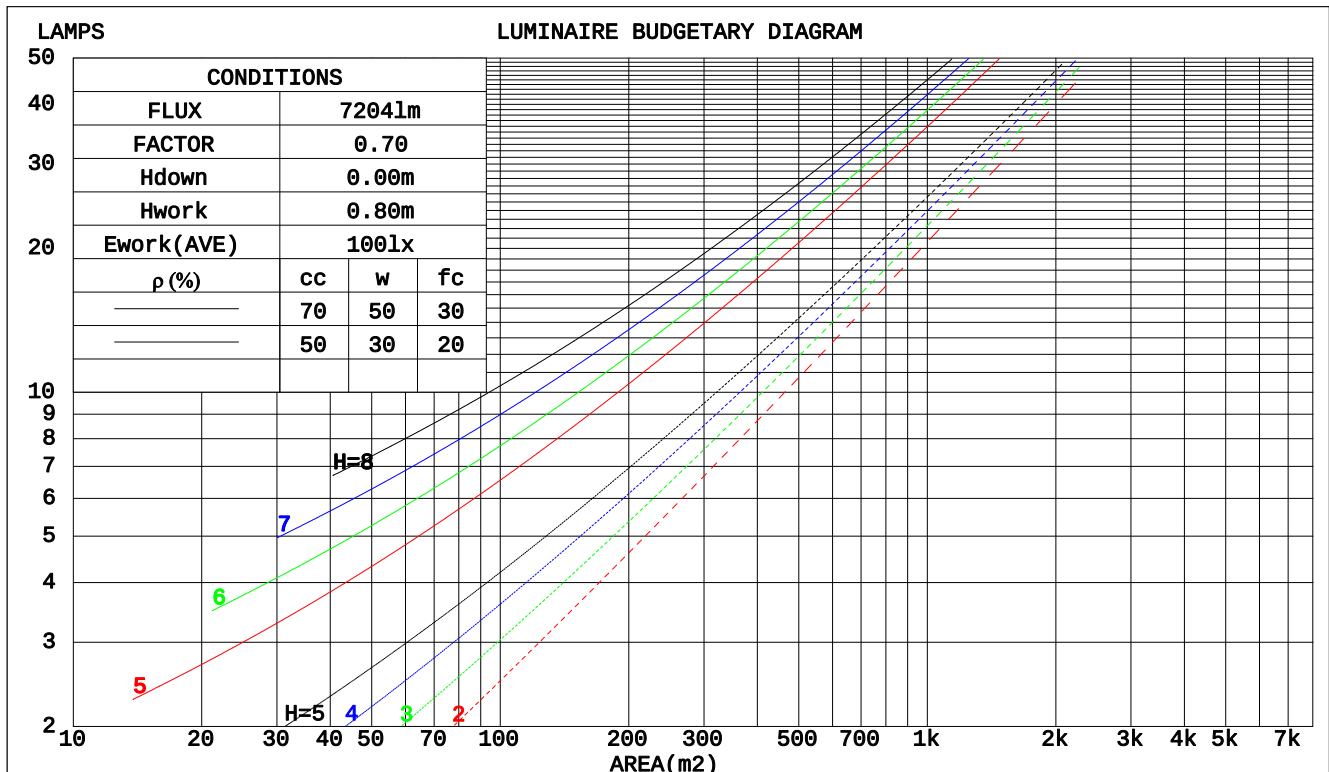
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.2847A P:33.89W PF:0.9919 Freq:60.00Hz Lamp Flux:1974.06x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-48D36SM-RGB-BK_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	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	1.08	1.08	1.08	.99	.99	.99	.84	.84	.84	.70	.70	.70	.58	.58	.58	.52
1.0	.86	.80	.74	.79	.73	.68	.65	.61	.57	.53	.50	.47	.42	.40	.37	.32
2.0	.72	.63	.56	.66	.58	.52	.54	.48	.43	.43	.39	.35	.34	.30	.27	.22
3.0	.61	.52	.44	.56	.47	.41	.46	.39	.34	.37	.31	.27	.28	.24	.21	.16
4.0	.53	.43	.36	.48	.40	.33	.40	.33	.27	.32	.26	.22	.24	.20	.16	.12
5.0	.46	.37	.30	.42	.34	.27	.35	.28	.22	.28	.22	.18	.21	.17	.13	.10
6.0	.41	.32	.25	.38	.29	.23	.31	.24	.19	.25	.19	.15	.19	.14	.11	.08
7.0	.37	.28	.21	.34	.25	.19	.28	.21	.16	.22	.17	.13	.17	.13	.09	.06
8.0	.33	.24	.18	.30	.22	.17	.25	.18	.14	.20	.15	.11	.15	.11	.08	.05
9.0	.30	.21	.16	.27	.20	.15	.23	.16	.12	.18	.13	.09	.14	.10	.07	.05
10.0	.27	.19	.14	.25	.18	.13	.21	.15	.10	.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:0.2847A P:33.89W PF:0.9919 Freq:60.00Hz Lamp Flux:1974.06x1 lm					
NAME:			TYPE:LED		WEIGHT:
SPEC.:ASD-LWS27N-48D36SM-RGB-BK_5000K			DIM.:		SERIAL No.:
MFR.: ASD Lighting Corp			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	.436	.248	.079	.414	.236	.075	.373	.214	.068	.335	.193	.062	.300	.174	.056	
2.0	.360	.197	.060	.340	.187	.058	.302	.168	.052	.267	.150	.047	.235	.133	.042	
3.0	.311	.166	.050	.293	.157	.047	.258	.140	.043	.226	.124	.038	.197	.109	.034	
4.0	.276	.143	.042	.259	.135	.040	.227	.120	.036	.198	.106	.032	.170	.093	.028	
5.0	.248	.126	.037	.232	.119	.035	.203	.106	.031	.176	.093	.028	.151	.080	.024	
6.0	.225	.113	.032	.211	.106	.031	.184	.094	.027	.159	.082	.024	.135	.071	.021	
7.0	.206	.102	.029	.193	.096	.027	.168	.085	.024	.145	.074	.022	.123	.064	.019	
8.0	.190	.093	.026	.178	.088	.025	.155	.077	.022	.133	.067	.019	.113	.058	.017	
9.0	.176	.085	.024	.165	.080	.023	.144	.071	.020	.123	.062	.018	.104	.053	.015	
10.0	.164	.079	.022	.154	.074	.021	.134	.066	.018	.115	.057	.016	.097	.049	.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	.559	.559	.559	.478	.478	.478	.326	.326	.326	.187	.187	.187	.060	.060	.060	
1.0	.561	.527	.496	.480	.452	.427	.328	.311	.295	.189	.180	.172	.061	.058	.056	
2.0	.556	.506	.464	.476	.436	.401	.326	.301	.280	.188	.175	.164	.060	.057	.053	
3.0	.549	.491	.445	.471	.424	.386	.323	.294	.271	.187	.172	.160	.060	.056	.052	
4.0	.542	.480	.433	.465	.415	.376	.320	.289	.265	.185	.169	.157	.059	.055	.051	
5.0	.534	.471	.424	.459	.407	.369	.316	.285	.261	.183	.167	.155	.059	.055	.051	
6.0	.527	.464	.418	.453	.401	.364	.312	.281	.258	.181	.165	.153	.058	.054	.051	
7.0	.520	.457	.414	.447	.397	.361	.309	.278	.256	.179	.164	.152	.058	.054	.050	
8.0	.513	.452	.411	.442	.392	.358	.306	.275	.254	.178	.162	.151	.058	.053	.050	
9.0	.507	.448	.408	.437	.389	.356	.303	.273	.253	.176	.161	.151	.057	.053	.050	
10.0	.501	.444	.406	.432	.385	.354	.300	.271	.252	.175	.160	.150	.057	.053	.050	

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:0.2847A P:33.89W PF:0.9919 Freq:60.00Hz Lamp Flux:1974.06x1 lm											
NAME:					TYPE:LED			WEIGHT:			
SPEC.:ASD-LWS27N-48D36SM-RGB-BK_5000K					DIM.:			SERIAL No.:			
MFR.: ASD Lighting Corp					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		17.2	18.4	18.1	19.2	20.4	11.3	12.4	12.1	13.3	14.4
	3H	21.2	22.2	22.0	23.1	24.3	13.9	15.0	14.8	15.9	17.0
	4H	23.3	24.3	24.2	25.2	26.4	15.4	16.4	16.3	17.3	18.5
	6H	25.5	26.5	26.4	27.4	28.6	17.2	18.1	18.1	19.0	20.2
	8H	26.7	27.6	27.7	28.6	29.8	18.1	19.0	19.0	19.9	21.2
	12H	28.1	29.0	29.0	29.9	31.1	19.2	20.1	20.2	21.0	22.3
4H	2H	17.6	18.6	18.5	19.5	20.7	13.9	14.8	14.7	15.8	16.9
	3H	21.9	22.8	22.9	23.7	25.0	16.3	17.2	17.3	18.1	19.4
	4H	24.3	25.1	25.3	26.1	27.3	17.8	18.6	18.7	19.6	20.8
	6H	26.9	27.6	27.8	28.5	29.8	19.5	20.2	20.4	21.1	22.4
	8H	28.2	28.9	29.2	29.9	31.1	20.4	21.0	21.3	22.0	23.3
	12H	29.7	30.3	30.7	31.3	32.6	21.5	22.1	22.4	23.1	24.4
8H	4H	24.6	25.2	25.5	26.2	27.5	19.8	20.5	20.8	21.5	22.8
	6H	27.5	28.1	28.5	29.1	30.4	21.6	22.1	22.6	23.1	24.5
	8H	29.1	29.7	30.1	30.7	32.0	22.6	23.1	23.6	24.1	25.4
	12H	31.0	31.4	32.0	32.5	33.8	23.7	24.2	24.7	25.2	26.5
12H	4H	24.5	25.2	25.5	26.2	27.5	20.7	21.3	21.7	22.3	23.6
	6H	27.6	28.1	28.6	29.1	30.4	22.6	23.1	23.6	24.1	25.4
	8H	29.3	29.8	30.4	30.8	32.2	23.7	24.1	24.7	25.1	26.5
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 / - 0.2				
2.0H		+ 0.4 / - 0.5					+ 0.3 / - 0.4				

CIE Pub.117, 1974 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.4$)
Area: 0.0976 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:0.2847A P:33.89W PF:0.9919 Freq:60.00Hz Lamp Flux:1974.06x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-48D36SM-RGB-BK_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

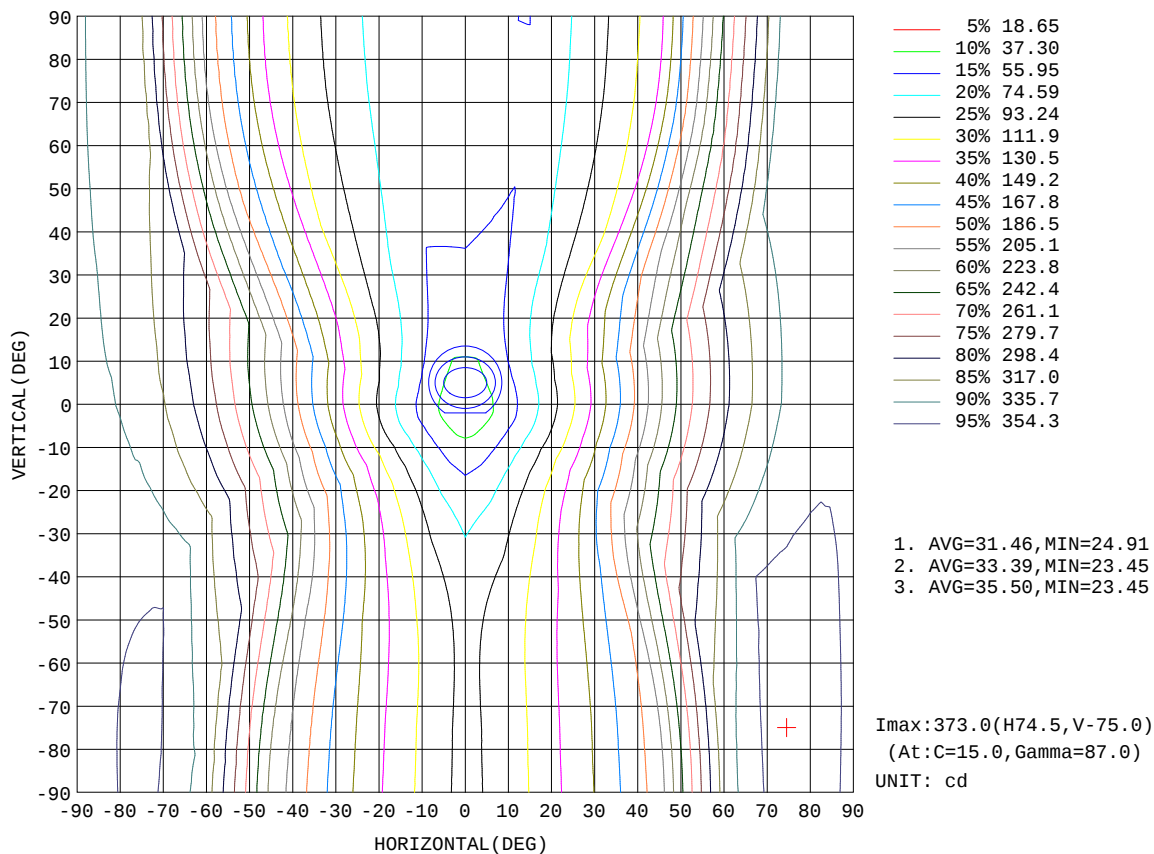
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	34	21	14	32	20	13	29	18	12	5
0.80	43	28	20	40	27	19	35	24	17	7
1.00	50	35	26	47	33	24	40	31	22	10
1.25	57	42	32	53	39	30	45	35	27	13
1.50	62	48	37	58	45	35	49	39	31	16
2.00	70	56	46	65	53	44	55	45	38	20
2.50	75	63	53	70	58	49	59	50	43	23
3.00	79	68	58	73	63	55	62	54	47	26
4.00	85	75	66	78	69	62	66	59	53	30
5.00	89	80	72	82	74	67	69	63	57	32
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:0.2847A P:33.89W PF:0.9919 Freq:60.00Hz Lamp Flux:1974.06x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-48D36SM-RGB-BK_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

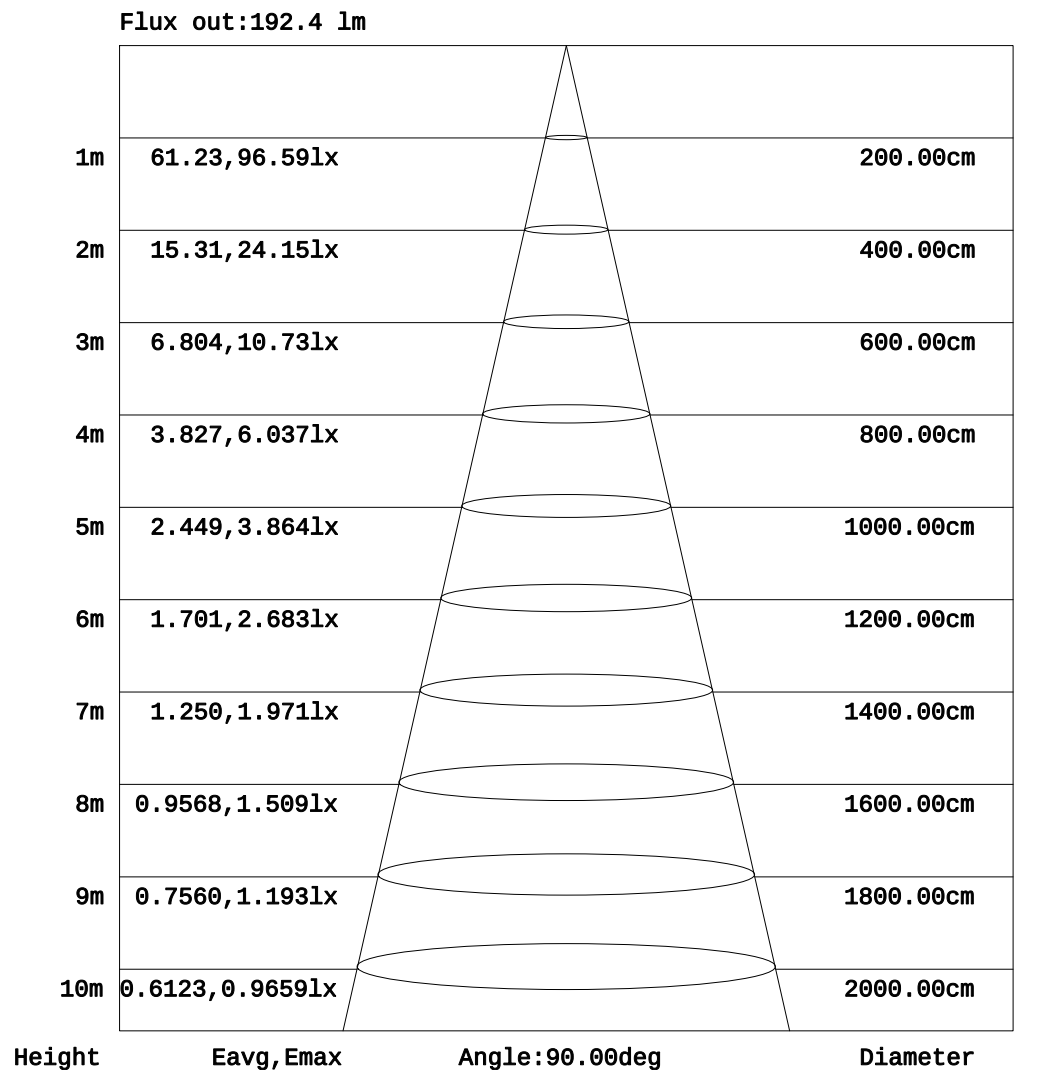


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

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:0.2847A P:33.89W PF:0.9919 Freq:60.00Hz Lamp Flux:1974.06x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-48D36SM-RGB-BK_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



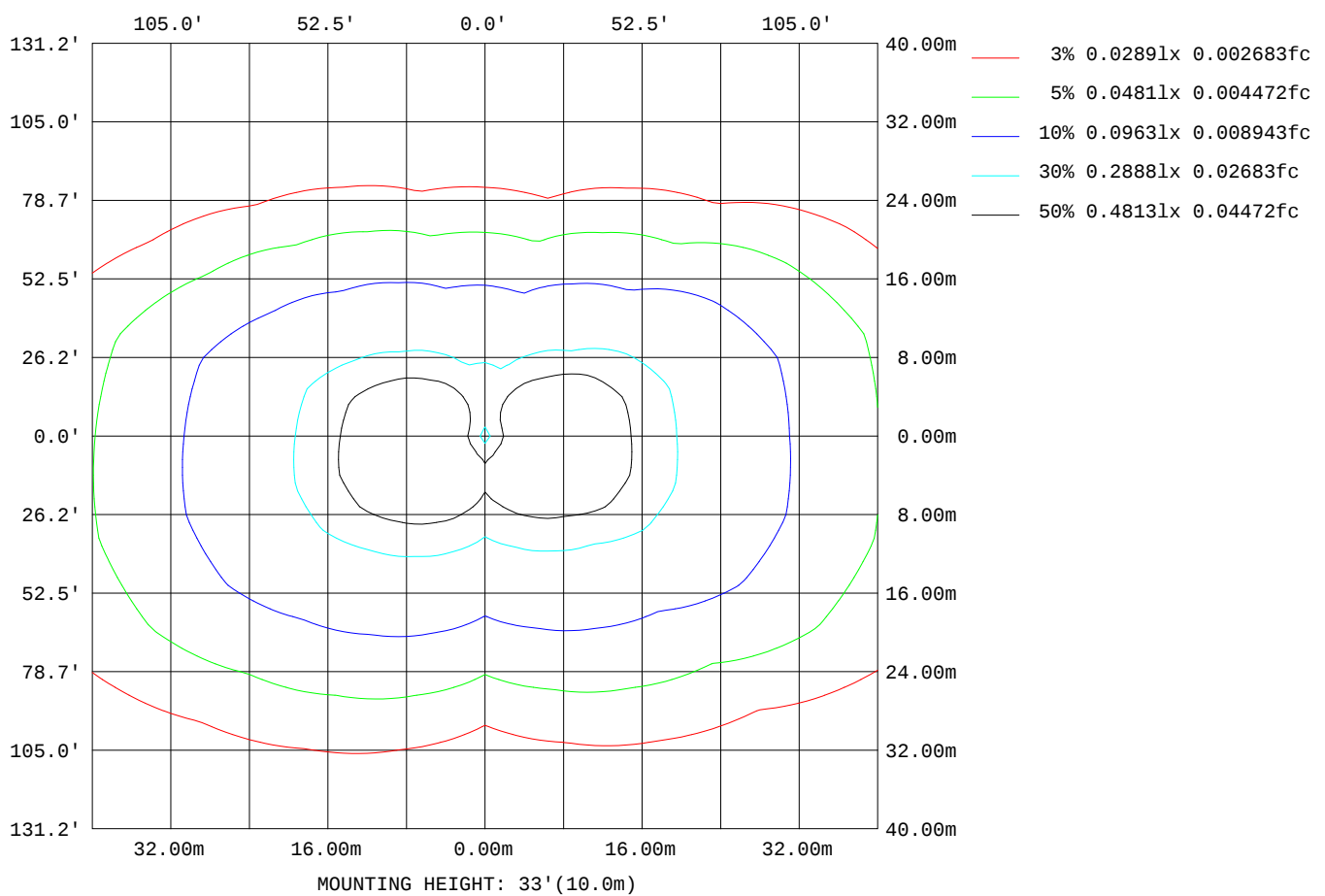
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

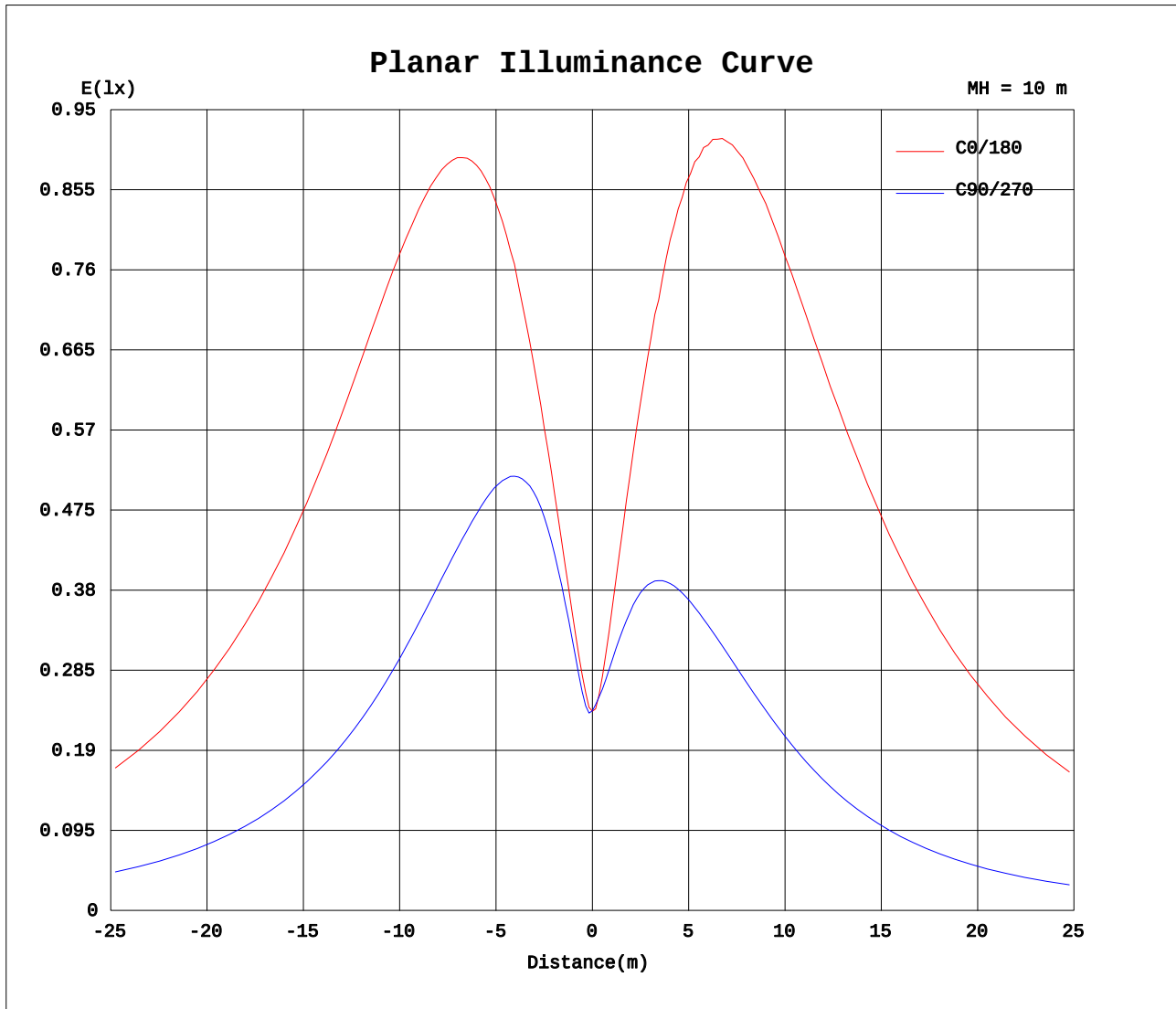
Test:U:120.0V I:0.2847A P:33.89W PF:0.9919 Freq:60.00Hz Lamp Flux:1974.06x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-48D36SM-RGB-BK_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
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Operators: Alan Wang
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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:0.2847A P:33.89W PF:0.9919 Freq:60.00Hz Lamp Flux:1974.06x1 lm																			
NAME:										TYPE:LED					WEIGHT:				
SPEC.:ASD-LWS27N-48D36SM-RGB-BK_5000K										DIM.:					SERIAL No.:				
MFR.: ASD Lighting Corp										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	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.6	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.7	23.7
5	33.2	32.4	32.2	32.3	31.7	30.6	30.5	30.6	32.0	32.8	33.0	33.1	33.6	34.0	33.6	32.4	30.7	29.1	29.0
10	48.7	48.2	49.9	49.6	47.5	44.1	42.2	44.7	48.9	51.8	52.2	50.5	50.9	51.5	49.9	46.1	40.9	35.9	36.0
15	66.6	67.7	70.2	68.6	63.7	57.2	53.1	58.7	67.0	72.8	74.3	71.0	69.7	70.5	67.0	59.9	50.8	41.8	42.4
20	86.8	89.6	91.7	87.7	78.8	68.2	61.7	71.1	83.9	93.8	97.6	93.8	90.4	90.8	83.9	72.5	59.2	46.5	47.2
25	110	114	115	106	92.0	77.3	68.5	81.4	98.7	114	122	119	114	112	100	82.9	65.4	49.9	50.6
30	135	140	138	123	103	85.1	73.8	89.9	112	132	147	147	139	136	116	91.4	70.0	52.5	53.2
35	162	169	162	138	113	91.5	78.2	97.0	122	150	173	175	166	160	130	97.8	73.6	54.9	55.5
40	191	198	187	152	121	97.1	81.9	103	131	165	198	204	193	184	144	103	76.5	57.0	57.3
45	220	229	211	164	128	102	84.6	108	139	179	222	234	220	208	155	107	79.1	58.6	58.5
50	248	258	235	173	133	105	86.3	112	145	191	245	261	245	231	166	111	81.2	59.8	59.0
55	272	284	256	180	138	108	87.3	115	150	201	265	287	268	252	174	114	82.6	60.5	59.1
60	294	308	274	185	142	110	87.5	117	154	208	283	309	289	271	182	117	83.8	60.8	59.0
65	312	329	291	189	145	111	87.4	118	157	212	298	326	304	286	187	118	84.5	60.9	58.6
70	328	347	304	192	147	112	87.1	119	158	216	310	341	318	299	192	120	84.9	60.8	58.1
75	339	359	314	194	148	112	86.7	119	160	219	318	352	328	309	195	121	85.1	60.7	57.6
80	347	368	321	195	149	112	86.6	119	160	219	325	360	335	315	197	121	85.2	60.5	57.2
85	351	373	325	196	150	112	86.4	119	161	220	327	364	338	319	198	121	85.2	60.2	56.8
90	350	372	325	195	150	112	86.3	119	160	219	326	364	338	318	197	121	84.7	59.9	56.5
95	346	367	322	194	149	112	86.0	118	159	216	321	358	334	315	196	120	84.3	59.5	56.0
100	338	358	315	192	147	111	85.8	117	157	214	314	349	327	307	193	119	83.7	59.4	56.0
105	328	346	306	189	145	110	85.6	116	154	208	302	336	315	296	188	117	82.7	59.0	55.9
110	316	332	294	185	142	109	85.4	115	151	204	288	319	301	282	184	115	81.7	58.6	55.8
115	300	314	280	181	139	107	85.0	113	147	197	271	298	282	265	177	113	80.3	58.0	55.8
120	281	293	262	176	135	105	84.3	110	143	189	253	276	262	247	169	110	78.7	57.3	55.4
125	259	269	243	170	130	102	83.1	107	138	180	232	250	240	226	161	107	76.7	56.2	54.9
130	235	242	221	163	125	98.6	81.2	103	132	169	211	225	215	204	151	103	74.2	54.8	53.8
135	207	213	197	153	118	94.2	78.5	98.4	124	157	189	198	190	181	140	98.3	71.4	52.8	52.3
140	179	184	172	140	111	88.7	74.8	92.5	116	142	166	171	165	159	128	92.8	68.0	50.3	50.2
145	150	154	147	126	102	82.3	70.2	85.6	106	127	144	145	141	137	115	87.0	64.3	46.9	47.1
150	123	125	123	109	91.9	75.1	64.8	77.6	94.8	111	121	120	118	116	102	80.6	60.3	43.3	43.5
155	97.7	99.7	100.0	92.3	80.2	66.8	58.6	68.7	82.2	93.7	99.8	97.1	96.1	96.6	88.9	73.9	56.8	40.5	39.1
160	76.1	76.6	78.2	74.5	66.7	57.1	51.1	58.4	68.1	75.7	78.6	75.7	76.1	77.4	74.4	65.3	52.2	38.5	33.5
165	56.9	56.0	57.9	56.4	51.9	46.0	42.2	46.4	52.9	57.4	58.6	56.4	58.0	58.7	58.4	53.5	44.1	31.1	25.8
170	39.3	38.3	38.8	38.5	36.6	33.8	32.1	33.7	37.0	39.3	39.4	38.4	40.0	40.0	38.7	33.4	25.6	16.2	10.5
175	13.1	17.8	20.7	22.2	21.8	20.6	20.9	20.7	19.7	21.4	19.6	14.9	12.8	13.0	10.8	8.07	5.62	3.60	1.87
180	0.00	0.00	0.00	0.00	5.62	13.5	14.3	11.9	5.40	0.00	0.00	0.00	0.11	0.11	0.11	0.12	0.12	0.12	0.13

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:0.2847A P:33.89W PF:0.9919 Freq:60.00Hz Lamp Flux:1974.06x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-48D36SM-RGB-BK_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	23.7	23.7	23.6	23.6	23.6													
5	29.4	31.0	32.3	33.2	33.2													
10	36.0	41.0	45.3	47.9	48.5													
15	41.7	50.3	58.4	64.3	66.6													
20	45.8	58.4	71.3	81.8	86.7													
25	48.6	64.7	82.8	99.9	109													
30	50.6	69.1	92.2	118	134													
35	52.3	72.4	100.0	137	160													
40	53.8	75.0	106	156	188													
45	54.9	77.3	110	173	215													
50	55.7	79.3	113	189	242													
55	56.3	80.9	116	204	266													
60	56.5	82.3	118	215	288													
65	56.6	83.3	120	226	308													
70	56.5	84.2	121	234	323													
75	56.4	84.6	122	240	336													
80	56.2	85.1	123	243	345													
85	56.1	85.3	124	246	351													
90	55.8	84.9	123	244	349													
95	55.5	84.6	123	241	344													
100	55.3	84.0	122	238	336													
105	55.1	83.2	120	233	327													
110	54.8	82.1	118	225	314													
115	54.4	80.6	116	217	296													
120	53.7	79.0	113	207	276													
125	52.8	77.0	110	194	256													
130	51.7	74.6	107	179	232													
135	50.1	71.9	103	163	203													
140	47.9	68.3	97.4	145	176													
145	44.6	63.8	90.5	125	148													
150	40.7	58.5	81.2	106	121													
155	37.6	51.3	69.5	86.3	97.2													
160	33.6	42.2	56.4	68.2	75.5													
165	25.5	29.3	42.0	51.8	56.6													
170	9.98	12.6	20.9	27.6	35.2													
175	1.48	2.20	3.73	5.79	8.20													
180	0.13	0.12	0.07	0.13	0.12													

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
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 Remarks: