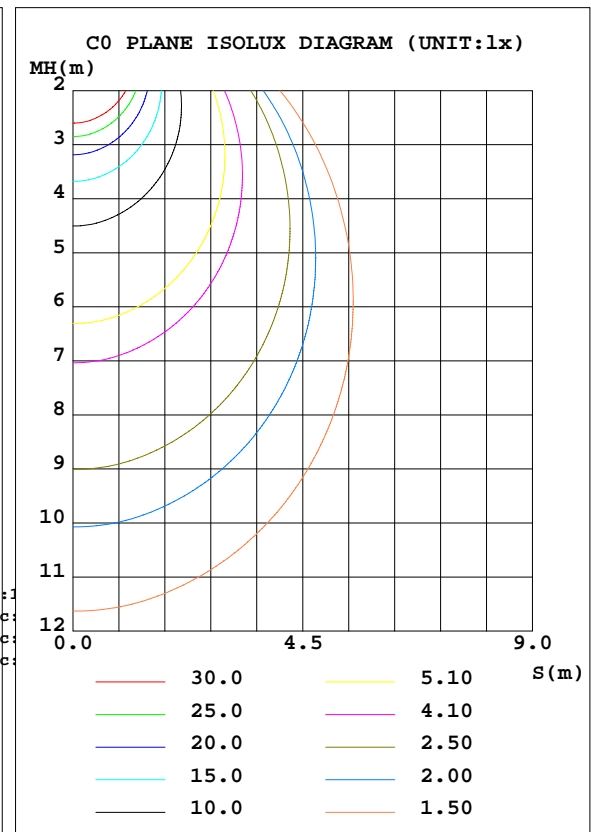
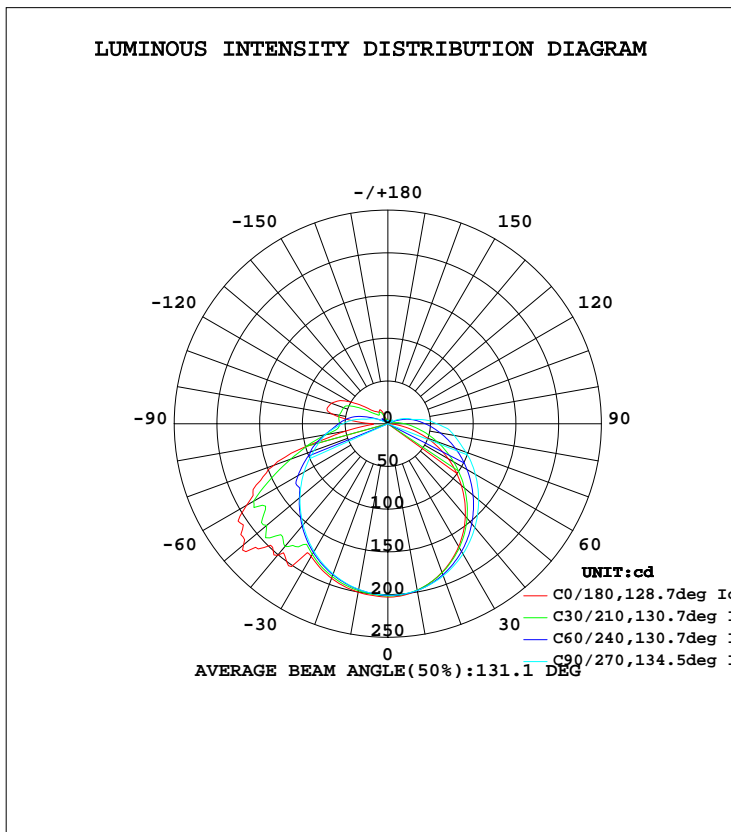


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1315A P:15.05W PF:0.9541 Lamp Flux:1080x1 lm		
NAME: ASD-LWS-11-D15CC-NK/BZ 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72 lm/W			
MODEL	ASD-LWS-11-D15CC-NK/BZ	I <sub>max</sub> (cd)	225.4	S/MH(C0/180)	1.51
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1080	η UP, DN(C0-180)	6.1,42.4
NOMINAL FLUX(lm)	1080	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	7.4,44.1
LAMPS INSIDE	1	η up(%)	13.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	86.6	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum,lamp
10	198.0	198.1	198.1	197.5	200.1	197.6	196.8	196.6	0- 10	19.03	19.03	2.22,2.22
20	185.1	187.0	189.4	189.6	192.6	189.1	187.1	185.2	10- 20	54.63	73.66	8.6,8.6
30	165.8	170.2	175.9	176.5	179.5	175.3	172.7	168.3	20- 30	83.47	157.1	18.3,18.3
40	141.2	148.7	158.6	158.6	201.0	157.8	154.3	147.0	30- 40	104.4	261.5	30.5,30.5
50	112.3	123.8	138.8	149.4	220.6	158.4	134.3	122.9	40- 50	117.9	379.4	44.3,44.3
60	81.32	97.83	118.2	140.9	191.0	147.2	113.4	98.24	50- 60	120.6	500.0	58.3,58.3
70	48.72	72.85	97.21	112.5	141.8	112.9	92.09	74.27	60- 70	107.4	607.4	70.9,70.9
80	18.41	50.98	78.81	77.31	50.98	76.36	74.57	52.58	70- 80	80.50	687.9	80.3,80.3
90	2.750	33.02	57.47	60.14	18.64	57.84	52.95	34.97	80- 90	54.17	742.0	86.6,86.6
100	2.815	18.99	29.54	52.39	66.25	49.05	31.51	21.38	90-100	41.79	783.8	91.5,91.5
110	3.196	4.455	17.33	34.62	70.30	37.09	17.62	8.716	100-110	31.48	815.3	95.1,95.1
120	3.754	4.428	2.706	17.01	51.46	18.20	6.207	3.071	110-120	18.44	833.7	97.3,97.3
130	3.536	3.258	6.856	11.38	24.58	13.35	3.185	3.430	120-130	9.402	843.1	98.4,98.4
140	4.141	2.973	3.820	11.82	17.96	14.66	3.585	3.100	130-140	6.033	849.2	99.1,99.1
150	3.830	3.242	2.988	3.614	19.01	4.944	3.300	3.181	140-150	4.229	853.4	99.6,99.6
160	4.090	3.860	3.377	5.447	3.950	4.629	3.367	3.519	150-160	2.199	855.6	99.8,99.8
170	3.793	3.837	3.185	3.728	3.352	3.301	3.051	3.398	160-170	1.024	856.6	100,100
180	4.156	4.040	3.948	3.651	4.156	4.036	3.975	3.659	170-180	0.3428	857.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

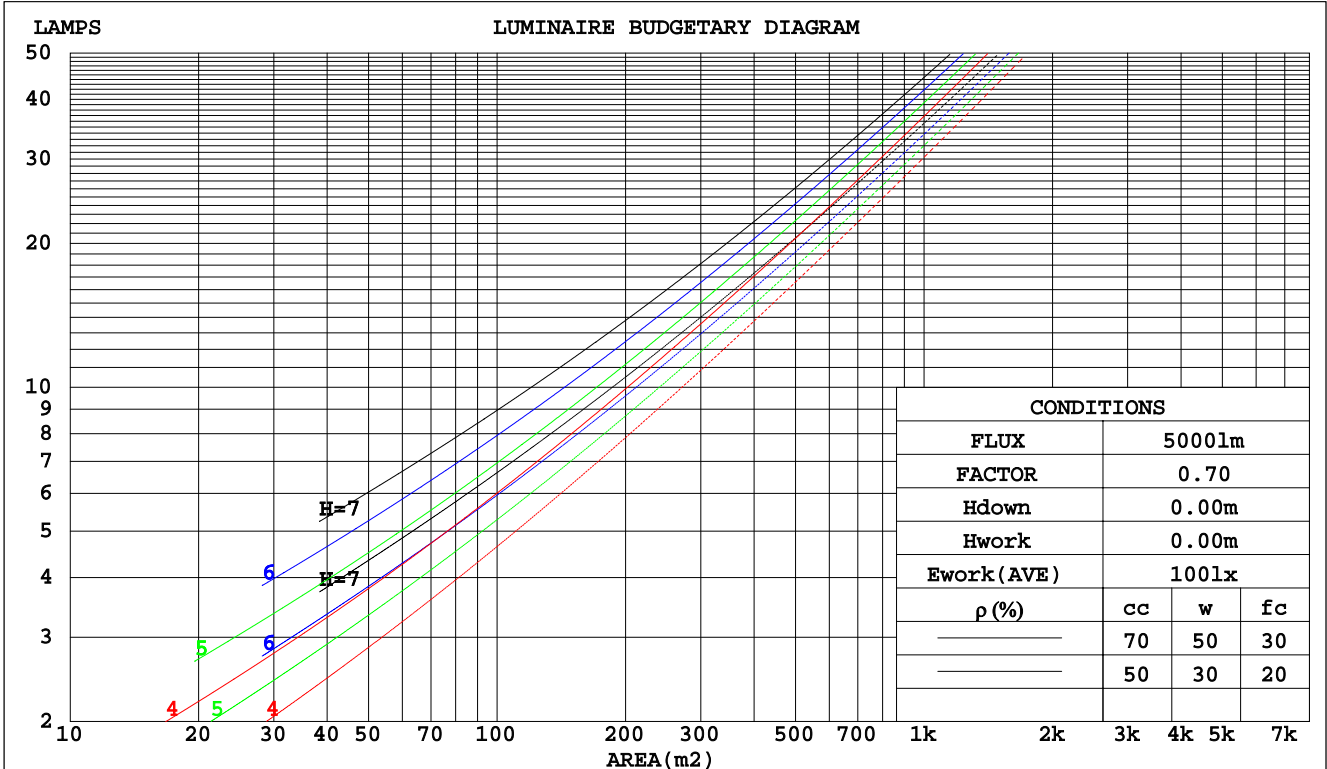
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1315A P:15.05W PF:0.9541 Lamp Flux:1080x1 lm		
NAME: ASD-LWS-11-D15CC-NK/BZ 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.16	1.16	1.16	1.12	1.12	1.12	1.04	1.04	1.04	.96	.96	.96	.90	.90	.90	.87
1.0	.97	.92	.87	.94	.89	.85	.87	.83	.79	.81	.77	.75	.75	.72	.70	.67
2.0	.83	.75	.69	.80	.73	.67	.74	.68	.63	.69	.64	.60	.64	.60	.57	.54
3.0	.72	.63	.56	.69	.61	.55	.64	.58	.52	.60	.54	.49	.56	.51	.47	.44
4.0	.63	.54	.47	.61	.52	.45	.57	.49	.43	.53	.46	.41	.49	.44	.39	.37
5.0	.56	.47	.39	.54	.45	.39	.50	.43	.37	.47	.40	.35	.44	.38	.34	.31
6.0	.50	.41	.34	.48	.40	.33	.45	.38	.32	.42	.36	.31	.39	.34	.29	.27
7.0	.45	.36	.30	.44	.35	.29	.41	.33	.28	.38	.32	.27	.36	.30	.26	.23
8.0	.41	.32	.26	.40	.32	.26	.37	.30	.25	.35	.29	.24	.33	.27	.23	.21
9.0	.38	.29	.23	.36	.28	.23	.34	.27	.22	.32	.26	.21	.30	.25	.21	.19
10.0	.35	.26	.21	.34	.26	.21	.32	.25	.20	.30	.24	.19	.28	.23	.19	.17



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 7.500m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1315A P:15.05W PF:0.9541 Lamp Flux:1080x1 lm		
NAME: ASD-LWS-11-D15CC-NK/BZ 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

ρcc	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.375	.213	.068	.364	.208	.066	.343	.197	.063	.323	.186	.060	.305	.177	.057	
2.0	.330	.181	.056	.320	.176	.054	.301	.167	.052	.283	.159	.050	.267	.151	.048	
3.0	.296	.157	.047	.286	.153	.046	.269	.146	.044	.253	.139	.043	.238	.132	.041	
4.0	.267	.139	.041	.259	.135	.040	.243	.129	.039	.229	.123	.037	.215	.117	.036	
5.0	.243	.124	.036	.236	.121	.035	.222	.115	.034	.209	.110	.033	.196	.105	.032	
6.0	.223	.112	.032	.217	.109	.031	.204	.104	.030	.192	.100	.029	.181	.095	.028	
7.0	.206	.102	.029	.200	.100	.028	.188	.095	.027	.177	.091	.026	.167	.087	.026	
8.0	.191	.093	.026	.186	.091	.026	.175	.087	.025	.165	.084	.024	.156	.080	.023	
9.0	.178	.086	.024	.173	.084	.024	.163	.081	.023	.154	.077	.022	.145	.074	.021	
10.0	.167	.080	.022	.162	.078	.022	.153	.075	.021	.145	.072	.020	.137	.069	.020	

ρcc	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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.293	.293	.293	.250	.250	.250	.171	.171	.171	.098	.098	.098	.031	.031	.031	
1.0	.288	.259	.232	.246	.222	.200	.168	.153	.138	.097	.088	.080	.031	.028	.026	
2.0	.281	.235	.197	.241	.203	.170	.165	.140	.119	.095	.082	.070	.031	.026	.023	
3.0	.274	.219	.175	.235	.189	.152	.161	.131	.106	.093	.077	.063	.030	.025	.021	
4.0	.266	.206	.160	.228	.178	.139	.157	.124	.098	.091	.073	.058	.029	.024	.019	
5.0	.258	.196	.150	.222	.170	.131	.153	.119	.092	.089	.070	.055	.029	.023	.018	
6.0	.251	.188	.143	.216	.163	.125	.149	.114	.088	.086	.067	.052	.028	.022	.017	
7.0	.244	.182	.138	.210	.157	.120	.145	.110	.085	.084	.065	.051	.027	.021	.017	
8.0	.237	.176	.134	.204	.153	.117	.141	.107	.083	.082	.063	.049	.027	.021	.016	
9.0	.231	.171	.131	.199	.148	.114	.138	.104	.081	.080	.062	.048	.026	.020	.016	
10.0	.225	.167	.128	.194	.145	.112	.135	.102	.080	.078	.060	.047	.025	.020	.016	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1315A P:15.05W PF:0.9541 Lamp Flux:1080x1 lm										
NAME: ASD-LWS-11-D15CC-NK/BZ 5000K					TYPE:LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: ASD Lighting corp					SUR.:			PROTECTION 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	13.1	14.5	13.5	15.0	15.4	14.6	16.1	15.1	16.5	17.0
3H	14.5	15.8	15.0	16.3	16.8	17.0	18.4	17.5	18.8	19.4
4H	15.0	16.3	15.5	16.7	17.3	18.4	19.6	18.9	20.1	20.6
6H	15.3	16.5	15.9	17.0	17.6	19.8	21.0	20.3	21.5	22.1
8H	15.4	16.6	16.0	17.1	17.7	20.6	21.8	21.1	22.3	22.9
12H	15.5	16.6	16.0	17.1	17.7	21.6	22.7	22.1	23.2	23.8
4H 2H	14.0	15.2	14.5	15.7	16.2	15.1	16.4	15.6	16.9	17.4
3H	15.6	16.7	16.1	17.2	17.8	17.8	18.9	18.3	19.4	20.0
4H	16.3	17.3	16.8	17.8	18.4	19.3	20.3	19.8	20.8	21.4
6H	16.7	17.6	17.3	18.2	18.9	20.9	21.8	21.5	22.4	23.1
8H	16.9	17.7	17.5	18.3	19.0	21.9	22.7	22.5	23.3	24.0
12H	17.0	17.8	17.6	18.4	19.1	23.0	23.8	23.6	24.4	25.1
8H 4H	17.0	17.9	17.6	18.5	19.2	19.5	20.4	20.1	21.0	21.6
6H	17.8	18.5	18.5	19.2	19.9	21.5	22.2	22.1	22.8	23.5
8H	18.1	18.8	18.8	19.4	20.2	22.6	23.3	23.3	23.9	24.6
12H	18.4	18.9	19.0	19.6	20.3	24.0	24.5	24.6	25.2	25.9
12H 4H	17.3	18.1	17.9	18.7	19.4	19.5	20.3	20.1	20.9	21.6
6H	18.3	18.9	18.9	19.6	20.3	21.6	22.2	22.2	22.8	23.6
8H	18.7	19.3	19.4	19.9	20.7	22.8	23.3	23.5	24.0	24.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 857.0 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.5)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1315A P:15.05W PF:0.9541 Lamp Flux:1080x1 lm		
NAME: ASD-LWS-11-D15CC-NK/BZ 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

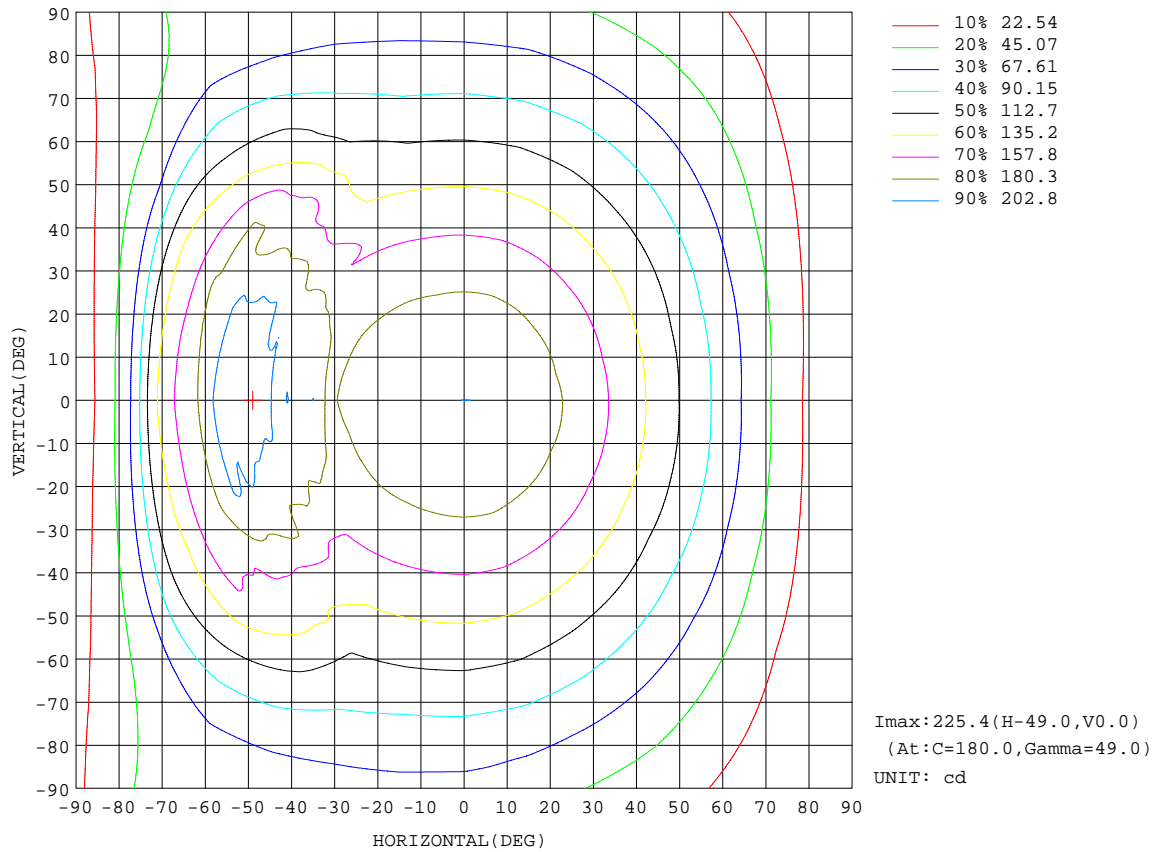
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	49	36	29	48	36	29	46	35	29	22
0.80	58	45	37	57	45	37	54	43	36	29
1.00	66	53	45	65	53	45	61	53	44	35
1.25	73	61	52	71	60	52	67	57	50	41
1.50	78	66	58	76	65	57	72	62	55	46
2.00	86	75	67	83	73	66	78	70	63	53
2.50	90	80	73	87	78	71	82	74	68	57
3.00	94	85	78	91	83	76	85	78	73	61
4.00	99	91	85	95	88	83	89	83	79	66
5.00	102	95	89	98	92	87	91	87	82	69
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:25.3DEG  
 Operators:  
 Test Date:2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1315A P:15.05W PF:0.9541 Lamp Flux:1080x1 lm		
NAME: ASD-LWS-11-D15CC-NK/BZ 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

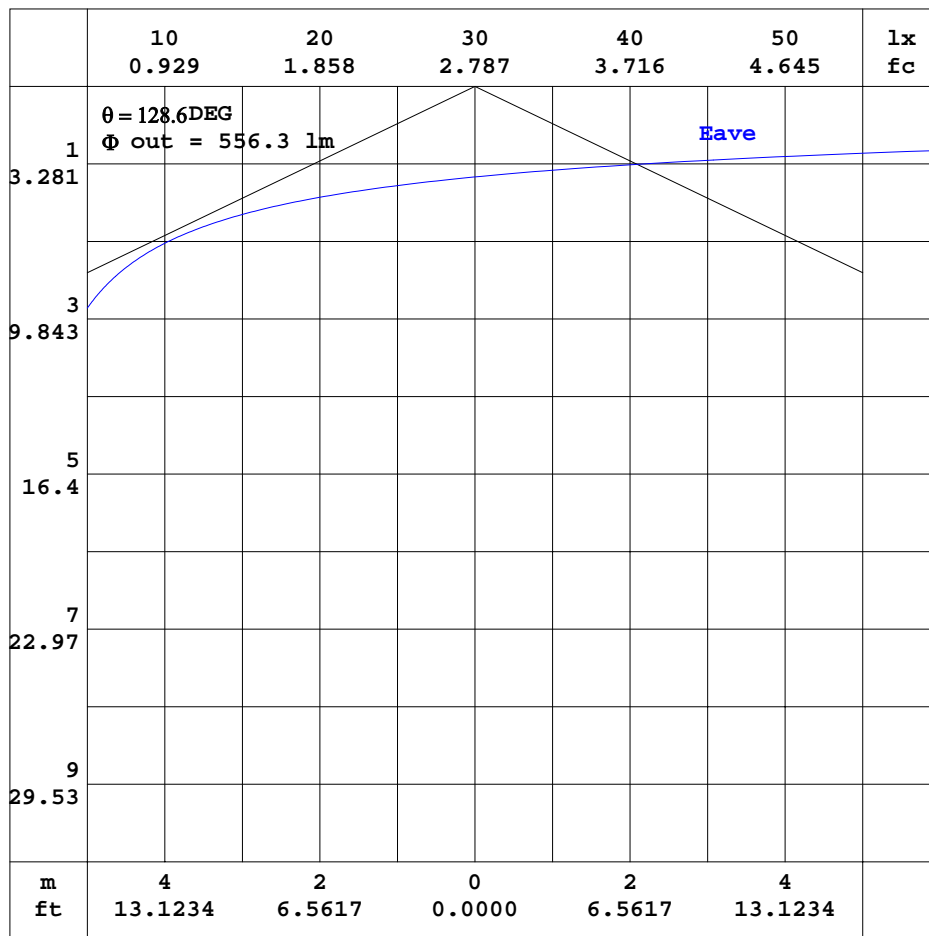


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 7.500m [K=1.0000]  
 Remarks:

AAI CURVES

Test:U:120.0V I:0.1315A P:15.05W PF:0.9541 Lamp Flux:1080x1 lm		
NAME: ASD-LWS-11-D15CC-NK/BZ 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



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

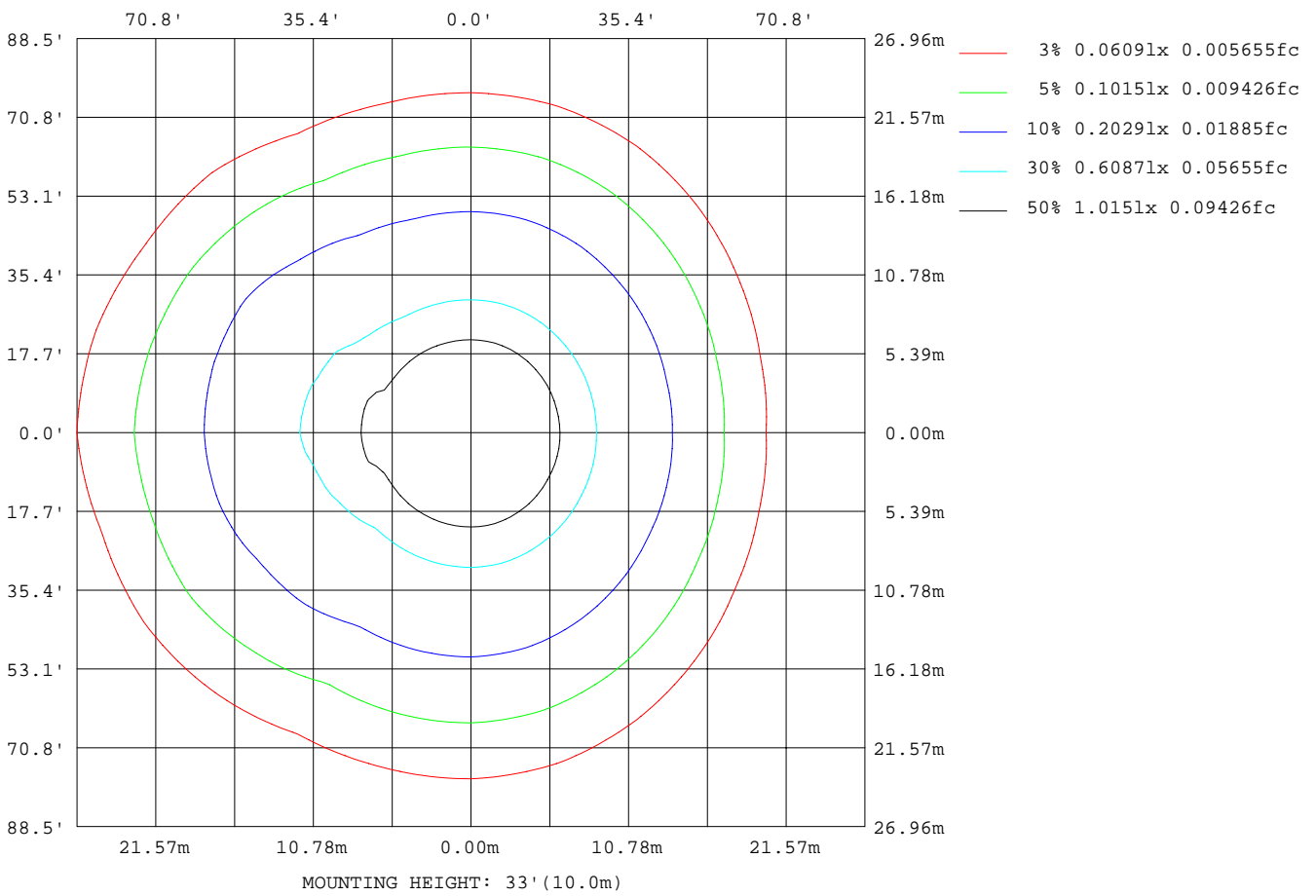
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:



ISOLUX DIAGRAM

Test:U:120.0V I:0.1315A P:15.05W PF:0.9541 Lamp Flux:1080x1 lm		
NAME: ASD-LWS-11-D15CC-NK/BZ 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:120.0V I:0.1315A P:15.05W PF:0.9541 Lamp Flux:1080x1 lm		
NAME: ASD-LWS-11-D15CC-NK/BZ 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

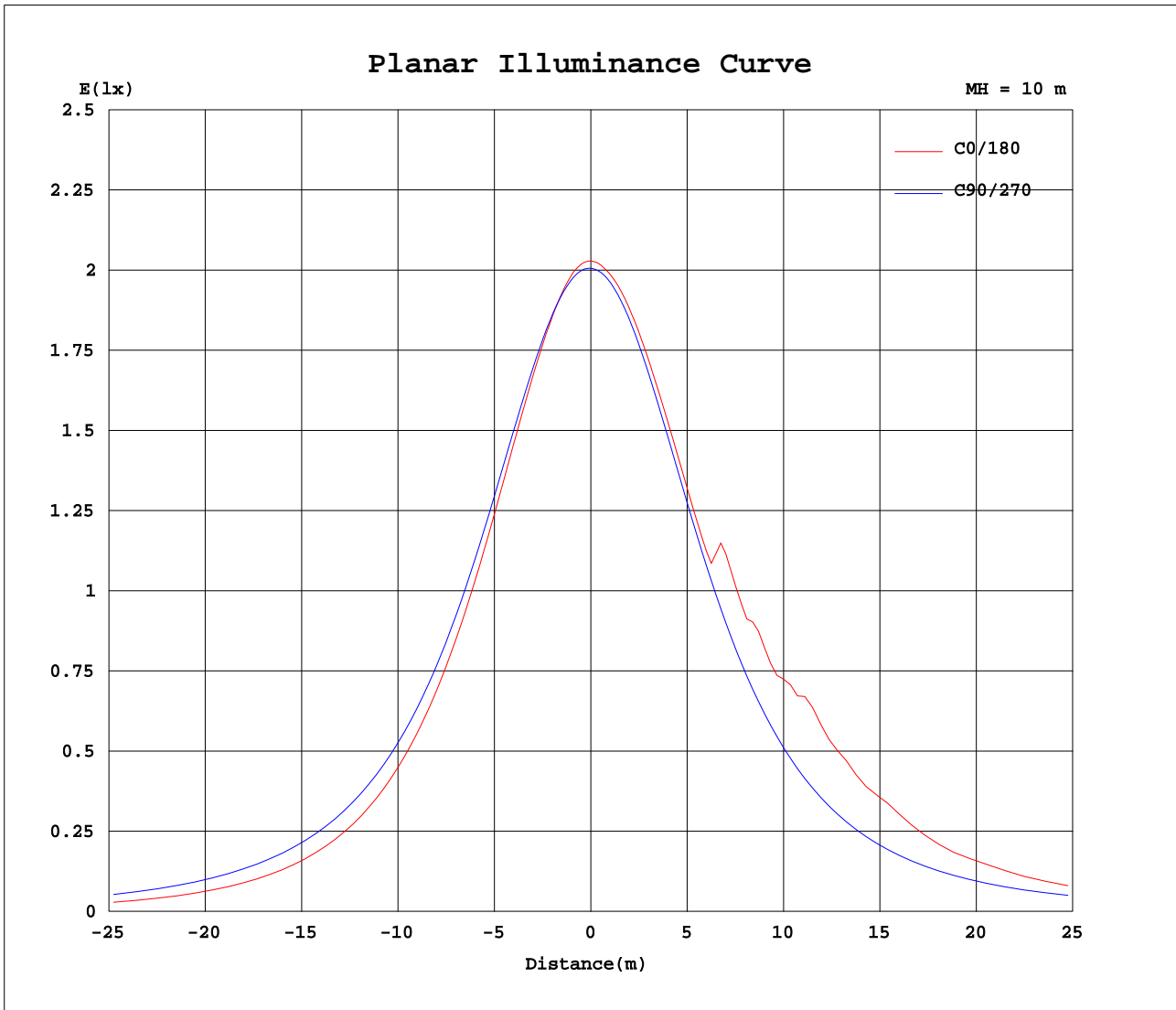
AvgL	cd/m2
L_0~180(65)av	2784
L_0~180(75)av	2430
L_0~180(85)av	1853
L_90~270(65)av	2489
L_90~270(75)av	3290
L_90~270(85)av	7685
L_45(65)av	2538
L_45(75)av	3009
L_45(85)av	6132

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 7.500m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1315A P:15.05W PF:0.9541 Lamp Flux:1080x1 lm		
NAME: ASD-LWS-11-D15CC-NK/BZ 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION 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	203	202	202	201	201	201	201	201	200	200	201	201	203	202	202	201	201	201	201	
5	202	201	201	201	201	200	200	200	200	199	199	199	202	201	200	200	200	200	199	
10	198	198	198	198	198	198	198	198	197	198	198	198	200	199	198	198	197	197	197	
15	192	192	192	193	194	195	194	194	194	194	194	195	197	196	195	194	193	192	193	
20	185	185	186	187	188	190	189	189	189	190	190	190	193	191	190	189	188	187	187	
25	176	177	177	179	181	183	183	183	183	184	184	184	187	185	184	183	182	181	180	
30	166	166	167	170	173	175	176	176	176	176	176	177	179	178	177	175	174	173	173	
35	154	155	156	160	163	167	168	167	168	168	168	190	203	199	173	167	166	164	164	
40	141	142	144	149	153	157	159	158	158	159	174	188	201	194	188	158	156	155	154	
45	127	129	131	137	142	147	149	149	149	154	174	201	205	203	186	160	146	145	144	
50	112	114	117	124	130	136	139	139	138	149	184	199	221	215	185	158	135	135	134	
55	97.1	99.1	103	111	119	126	128	128	128	141	173	207	207	212	175	162	128	124	124	
60	81.3	83.8	88.6	97.8	107	115	118	118	117	141	157	180	191	185	181	147	121	114	113	
65	65.2	68.0	74.9	85.1	95.5	104	108	108	107	128	152	160	170	161	150	130	108	103	102	
70	48.7	52.4	61.3	72.9	84.1	93.2	97.2	97.3	99.6	112	124	128	142	136	121	113	96.4	92.2	92.1	
75	32.8	37.5	48.6	61.5	72.9	82.5	87.1	87.1	87.9	94.5	98.2	101	93.0	92.0	97.0	92.6	87.0	83.1	83.2	
80	18.4	24.3	37.2	51.0	62.4	73.0	78.8	78.8	77.6	77.3	76.0	60.8	51.0	53.9	73.1	76.4	75.0	74.9	74.6	
85	7.63	14.0	27.5	41.4	52.7	62.8	70.9	71.0	67.9	66.0	62.1	48.2	24.7	38.2	58.5	63.1	64.9	64.6	63.1	
90	2.75	7.45	19.7	33.0	43.9	53.1	57.5	58.9	59.7	60.1	59.2	48.0	18.6	37.4	56.8	57.8	57.8	55.4	52.9	
95	2.71	4.55	13.7	25.9	36.1	44.4	46.8	48.4	52.7	56.4	59.2	55.5	41.8	50.2	57.6	53.6	51.0	46.4	43.8	
100	2.82	3.25	8.08	19.0	28.5	34.6	29.5	31.5	44.3	52.4	58.1	65.2	66.2	65.8	57.7	49.0	43.5	32.6	31.5	
105	3.02	2.98	4.13	11.5	20.9	24.6	24.2	26.0	32.1	46.4	55.3	68.5	73.2	71.6	56.3	44.3	33.5	25.8	22.6	
110	3.20	3.01	3.50	4.45	11.7	15.4	17.3	18.1	19.6	34.6	52.0	64.4	70.3	68.3	55.0	37.1	21.7	19.3	17.6	
115	3.46	3.20	3.40	3.26	3.29	7.90	10.0	9.96	9.32	23.3	42.5	56.3	63.6	61.7	49.8	26.6	12.5	12.3	11.9	
120	3.75	3.59	3.16	4.43	3.67	2.72	2.71	4.40	6.68	17.0	28.7	41.8	51.5	47.5	35.9	18.2	6.79	5.89	6.21	
125	3.99	3.93	3.05	3.58	5.83	4.94	4.54	6.84	11.5	12.5	18.7	27.7	37.1	32.5	22.8	15.3	6.85	5.82	2.90	
130	3.54	3.65	2.90	3.26	4.45	6.03	6.86	7.67	10.6	11.4	13.9	20.2	24.6	22.0	17.2	13.4	9.07	6.26	3.18	
135	3.63	3.73	3.45	3.06	3.38	4.64	4.92	5.56	7.04	12.4	13.1	17.4	20.4	17.9	14.5	14.5	7.59	5.95	4.67	
140	4.14	4.16	3.39	2.97	3.46	3.67	3.82	3.93	3.05	11.8	15.0	16.2	18.0	16.6	15.9	14.7	4.73	4.62	3.59	
145	3.55	3.57	3.40	3.12	2.94	3.39	3.34	3.16	2.87	9.14	15.3	18.0	17.7	17.5	16.7	12.5	3.03	4.02	3.43	
150	3.83	3.80	3.55	3.24	3.10	3.04	2.99	2.95	3.98	3.61	12.1	17.3	19.0	17.8	14.8	4.94	3.02	3.27	3.30	
155	3.67	3.60	3.49	3.35	3.14	3.34	3.45	3.36	3.59	2.98	3.75	9.40	15.4	11.9	5.86	3.10	4.51	3.11	3.07	
160	4.09	4.09	3.50	3.86	3.66	3.03	3.38	3.12	3.02	5.45	3.68	3.68	3.95	3.39	3.15	4.63	3.08	3.20	3.37	
165	4.00	4.10	3.57	3.50	3.62	3.05	3.06	3.10	3.47	3.75	5.12	5.49	3.34	3.74	5.72	3.04	3.00	3.10	3.38	
170	3.79	3.83	3.94	3.84	3.29	3.12	3.18	3.35	3.46	3.73	3.69	3.31	3.35	3.19	3.22	3.30	3.22	3.13	3.05	
175	3.99	3.97	3.87	3.86	3.86	3.89	4.13	4.23	3.99	3.81	3.62	3.62	3.89	3.60	3.38	3.47	3.27	3.21	3.17	
180	4.16	4.13	4.07	4.04	4.02	4.01	3.95	3.65	3.65	3.65	3.65	3.65	3.69	4.16	4.12	4.07	4.04	4.02	4.01	3.97

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

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SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	201	200	200	201	201														
5	199	200	200	200	200														
10	197	197	197	196	196														
15	193	192	192	191	191														
20	187	186	185	185	184														
25	180	179	177	176	175														
30	172	171	168	167	165														
35	163	161	158	156	154														
40	154	151	147	144	141														
45	143	140	135	131	128														
50	133	129	123	118	113														
55	122	118	111	104	98.6														
60	112	106	98.2	90.2	83.8														
65	101	94.9	86.2	76.8	68.9														
70	90.0	83.5	74.3	63.9	54.2														
75	80.6	73.2	62.9	52.0	40.2														
80	71.1	63.0	52.6	41.1	27.9														
85	60.5	53.4	43.3	31.5	18.0														
90	51.1	44.7	35.0	23.6	11.1														
95	42.5	36.7	27.8	17.4	6.98														
100	32.7	29.2	21.4	12.1	4.54														
105	23.1	22.4	15.5	6.80	3.33														
110	16.8	15.5	8.72	3.39	3.09														
115	10.8	8.75	3.39	3.33	3.05														
120	5.11	2.93	3.07	3.29	3.12														
125	2.92	3.04	4.13	2.99	3.05														
130	3.75	4.53	3.43	2.92	2.94														
135	4.09	3.65	3.08	3.22	3.10														
140	3.66	3.55	3.10	3.21	3.80														
145	3.45	3.45	3.14	3.12	3.45														
150	3.38	3.08	3.18	3.19	3.55														
155	3.15	3.10	3.17	3.33	3.55														
160	3.26	3.20	3.52	3.42	3.48														
165	3.11	3.61	3.82	4.08	3.42														
170	3.05	3.14	3.40	3.34	3.73														
175	3.15	3.23	3.32	3.39	3.83														
180	3.65	3.65	3.66	3.65	3.70														

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 γ Interval: 1.0DEG  
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