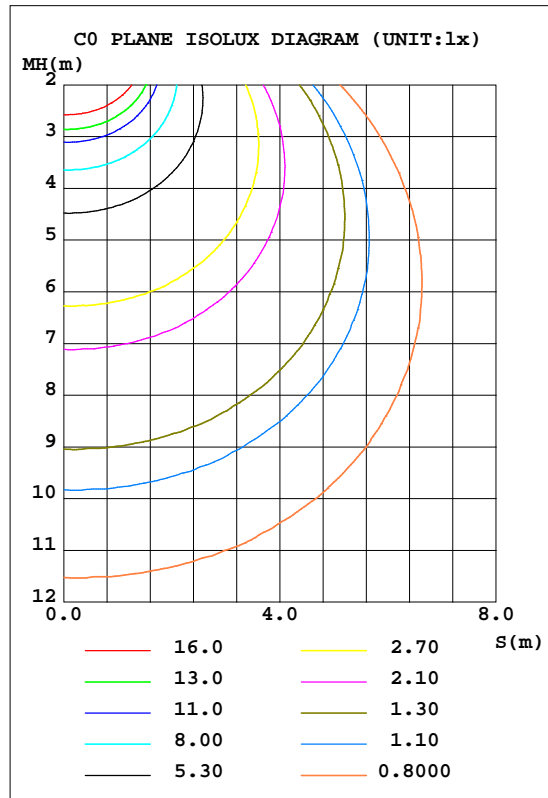
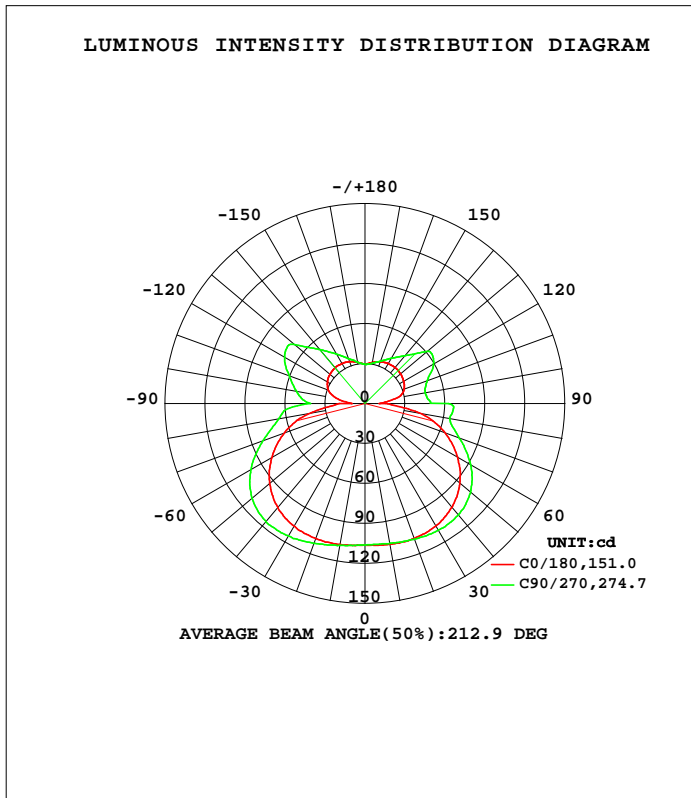


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.0960A P:11.350W PF:0.9800 Freq:60.00Hz Lamp Flux:800x1 lm		
NAME: LED WALL SCONCES	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.38 lm/W			
MODEL	WLS12-D12AC-XX(2700K)	I _{max} (cd)	116.1	S/MH(C0/180)	1.50
NOMINAL POWER(W)	12	LOR(%)	99.9	S/MH(C90/270)	1.65
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	798.82	h UP, DN(C0-180)	16.1, 32.6
NOMINAL FLUX(lm)	800	CIE CLASS	SEMI-D.	h UP, DN(C180-360)	17.7, 33.5
LAMPS INSIDE	1	h up(%)	33.7	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	120	h down(%)	66.1	CIBSE SHR MAX	1.75



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date:

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-2000_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.700m [K=1.1494]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

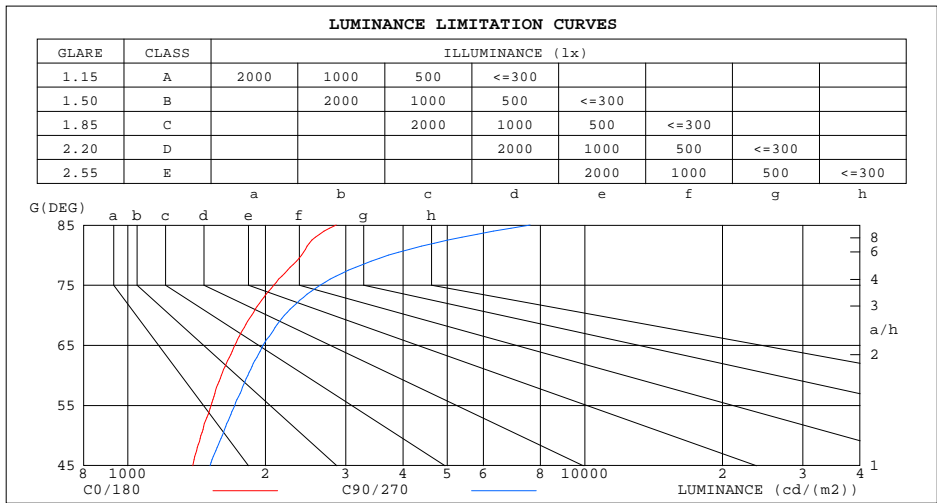
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	107.4	107.0	106.7	107.1	107.4	108.5	108.1	108.0	0- 10	10.21	10.21	1.28,1.28
20	107.9	108.4	108.4	108.4	107.9	110.7	111.6	110.7	10- 20	30.77	40.98	5.13,5.12
30	106.3	108.8	109.9	108.8	106.3	112.2	114.9	112.2	20- 30	50.85	91.84	11.5,11.5
40	101.6	106.4	109.1	106.4	101.7	110.6	115.6	110.8	30- 40	68.65	160.5	20.1,20.1
50	92.91	99.72	103.4	99.80	93.47	104.7	110.6	104.8	40- 50	81.33	241.8	30.3,30.2
60	80.12	88.19	91.49	88.43	80.58	93.35	98.90	93.27	50- 60	85.95	327.8	41,41
70	63.84	73.32	75.28	73.91	64.35	77.74	81.32	77.71	60- 70	81.28	409.0	51.2,51.1
80	41.68	58.07	64.53	58.11	41.65	59.02	65.63	59.17	70- 80	69.05	478.1	59.8,59.8
90	15.52	37.73	62.66	38.78	19.02	30.76	40.81	27.51	80- 90	50.73	528.8	66.2,66.1
100	24.08	40.15	46.04	37.73	20.97	46.28	51.99	43.86	90-100	37.83	566.7	70.9,70.8
110	31.25	47.94	49.76	45.59	29.28	55.00	60.48	53.49	100-110	46.30	613.0	76.7,76.6
120	33.61	51.00	59.50	48.48	32.63	57.78	69.80	55.47	110-120	49.49	662.5	82.9,82.8
130	34.95	47.34	60.98	45.05	34.40	52.21	68.75	49.95	120-130	46.01	708.5	88.7,88.6
140	35.28	42.00	46.94	41.11	35.10	45.46	53.02	44.24	130-140	35.55	744.0	93.1,93
150	34.79	37.95	39.27	37.73	34.74	40.08	42.91	39.39	140-150	25.59	769.6	96.3,96.2
160	33.33	34.21	33.85	34.33	33.56	35.56	35.82	35.26	150-160	16.93	786.5	98.5,98.3
170	31.32	31.03	30.66	31.26	31.39	31.68	31.47	31.68	160-170	9.379	795.9	99.6,99.5
180	29.66	29.66	29.66	29.66	29.66	29.66	29.66	29.66	170-180	2.915	798.8	100,99.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.700m [K=1.1494]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.0960A P:11.350W PF:0.9800 Freq:60.00Hz Lamp Flux:800x1 lm		
NAME: LED WALL SCONCES	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2859	7593
80	2400	3716
75	2087	2635
70	1867	2201
65	1714	1977
60	1602	1830
55	1521	1714
50	1445	1609
45	1387	1514

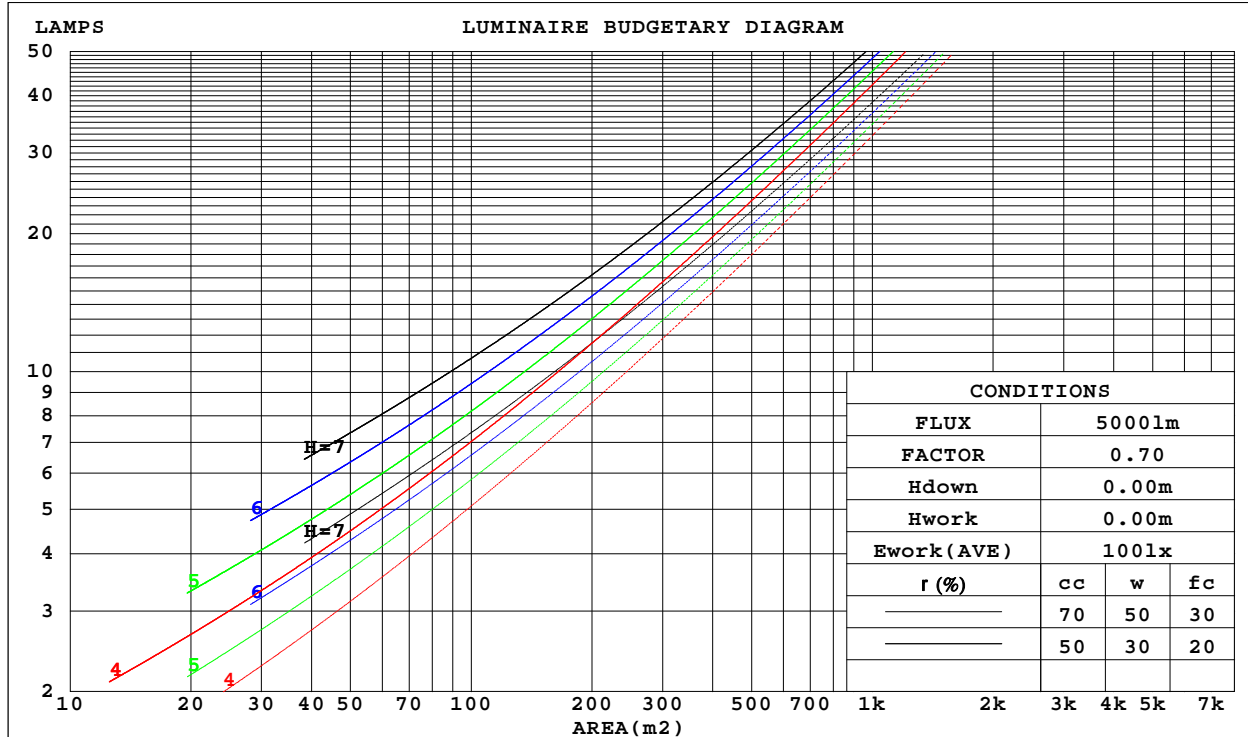
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.700m [K=1.1494]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.0960A P:11.350W PF:0.9800 Freq:60.00Hz Lamp Flux:800x1 lm		
NAME: LED WALL SCONCES	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.11	1.11	1.11	1.04	1.04	1.04	.92	.92	.92	.81	.81	.81	.71	.71	.71	.66
1.0	.92	.87	.82	.87	.82	.78	.76	.73	.69	.67	.64	.61	.58	.56	.54	.49
2.0	.79	.71	.65	.74	.67	.61	.65	.59	.55	.56	.52	.48	.49	.45	.42	.38
3.0	.68	.59	.52	.64	.56	.49	.56	.50	.44	.49	.44	.39	.42	.38	.35	.31
4.0	.59	.50	.43	.56	.47	.41	.49	.42	.37	.43	.37	.33	.37	.32	.29	.25
5.0	.52	.43	.36	.49	.41	.35	.43	.36	.31	.38	.32	.28	.33	.28	.24	.21
6.0	.47	.38	.31	.44	.36	.30	.39	.32	.27	.34	.28	.24	.29	.25	.21	.18
7.0	.42	.33	.27	.40	.31	.26	.35	.28	.23	.31	.25	.21	.27	.22	.18	.16
8.0	.38	.29	.23	.36	.28	.22	.32	.25	.20	.28	.22	.18	.24	.20	.16	.14
9.0	.35	.26	.21	.33	.25	.20	.29	.23	.18	.26	.20	.16	.22	.18	.14	.12
10.0	.32	.24	.18	.30	.23	.18	.27	.20	.16	.24	.18	.14	.21	.16	.13	.11



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.700m [K=1.1494]
 Remarks:

WEC AND CCEC

Test:U:120.00V I:0.0960A P:11.350W PF:0.9800 Freq:60.00Hz Lamp Flux:800x1 lm		
NAME: LED WALL SCONCES	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.373	.212	.067	.355	.203	.064	.323	.185	.059	.293	.169	.054	.265	.154	.050	
2.0	.325	.178	.055	.309	.170	.052	.279	.155	.048	.252	.141	.044	.227	.128	.040	
3.0	.289	.154	.046	.275	.147	.044	.248	.134	.041	.223	.122	.037	.200	.110	.034	
4.0	.261	.136	.040	.248	.130	.038	.223	.118	.035	.200	.107	.032	.179	.097	.030	
5.0	.237	.121	.035	.225	.116	.034	.203	.106	.031	.182	.096	.029	.162	.087	.026	
6.0	.218	.109	.031	.207	.104	.030	.186	.095	.028	.166	.086	.025	.148	.078	.023	
7.0	.201	.099	.028	.191	.095	.027	.171	.087	.025	.153	.079	.023	.137	.071	.021	
8.0	.186	.091	.026	.177	.087	.025	.159	.079	.023	.142	.072	.021	.127	.065	.019	
9.0	.174	.084	.023	.165	.080	.023	.148	.073	.021	.133	.067	.019	.118	.060	.017	
10.0	.162	.078	.022	.154	.075	.021	.139	.068	.019	.124	.062	.018	.111	.056	.016	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.447	.447	.447	.382	.382	.382	.261	.261	.261	.150	.150	.150	.048	.048	.048	
1.0	.444	.415	.388	.380	.356	.334	.260	.245	.231	.149	.142	.134	.048	.046	.043	
2.0	.437	.393	.355	.375	.338	.307	.257	.234	.214	.148	.136	.125	.048	.044	.041	
3.0	.430	.377	.334	.369	.325	.289	.253	.226	.203	.146	.132	.120	.047	.043	.039	
4.0	.423	.365	.320	.363	.315	.278	.250	.220	.196	.144	.129	.116	.046	.042	.038	
5.0	.416	.355	.310	.357	.307	.270	.246	.215	.191	.143	.126	.113	.046	.041	.037	
6.0	.409	.348	.304	.351	.301	.265	.242	.211	.187	.141	.124	.111	.045	.041	.037	
7.0	.402	.341	.299	.346	.296	.260	.239	.207	.184	.139	.122	.110	.045	.040	.036	
8.0	.396	.336	.295	.341	.291	.257	.236	.205	.182	.137	.121	.109	.044	.040	.036	
9.0	.389	.331	.292	.336	.288	.255	.232	.202	.181	.135	.119	.108	.044	.039	.036	
10.0	.384	.327	.290	.331	.284	.253	.230	.200	.180	.134	.118	.107	.043	.039	.036	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.700m [K=1.1494]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.0960A P:11.350W PF:0.9800 Freq:60.00Hz Lamp Flux:800x1 lm										
NAME: LED WALL SCONCES					TYPE:			WEIGHT:		
SPEC.:					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	11.2	12.3	12.0	13.1	14.2	11.9	13.1	12.7	13.9	14.9
3H	13.8	14.8	14.5	15.6	16.7	14.7	15.7	15.5	16.6	17.6
4H	15.0	16.0	15.8	16.8	17.8	16.1	17.1	16.9	17.9	19.0
6H	16.1	17.0	16.9	17.9	18.9	17.6	18.6	18.5	19.4	20.5
8H	16.6	17.4	17.4	18.3	19.4	18.6	19.5	19.4	20.4	21.4
12H	17.0	17.8	17.8	18.7	19.8	19.8	20.6	20.6	21.5	22.6
4H 2H	12.2	13.2	13.0	14.0	15.0	12.7	13.7	13.5	14.6	15.6
3H	15.0	15.8	15.8	16.7	17.8	15.8	16.6	16.6	17.5	18.6
4H	16.3	17.1	17.2	18.0	19.1	17.4	18.2	18.2	19.0	20.1
6H	17.6	18.3	18.5	19.2	20.3	19.2	19.9	20.0	20.8	21.9
8H	18.2	18.8	19.0	19.7	20.8	20.2	20.9	21.1	21.8	22.9
12H	18.7	19.3	19.5	20.2	21.3	21.5	22.1	22.4	23.0	24.2
8H 4H	17.1	17.8	17.9	18.6	19.7	17.9	18.6	18.8	19.5	20.6
6H	18.6	19.2	19.5	20.1	21.2	20.1	20.6	20.9	21.5	22.7
8H	19.3	19.8	20.2	20.8	21.9	21.3	21.8	22.2	22.8	23.9
12H	20.0	20.4	20.9	21.4	22.5	22.9	23.3	23.8	24.2	25.4
12H 4H	17.3	17.9	18.2	18.8	20.0	18.0	18.6	18.9	19.5	20.7
6H	19.0	19.5	19.9	20.4	21.6	20.3	20.8	21.2	21.7	22.8
8H	19.8	20.3	20.7	21.2	22.4	21.7	22.1	22.6	23.0	24.2
CIE190: 2010										

CIE190: 2010
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.700m [K=1.1494]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.0960A P:11.350W PF:0.9800 Freq:60.00Hz Lamp Flux:800x1 lm		
NAME: LED WALL SCONCES	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

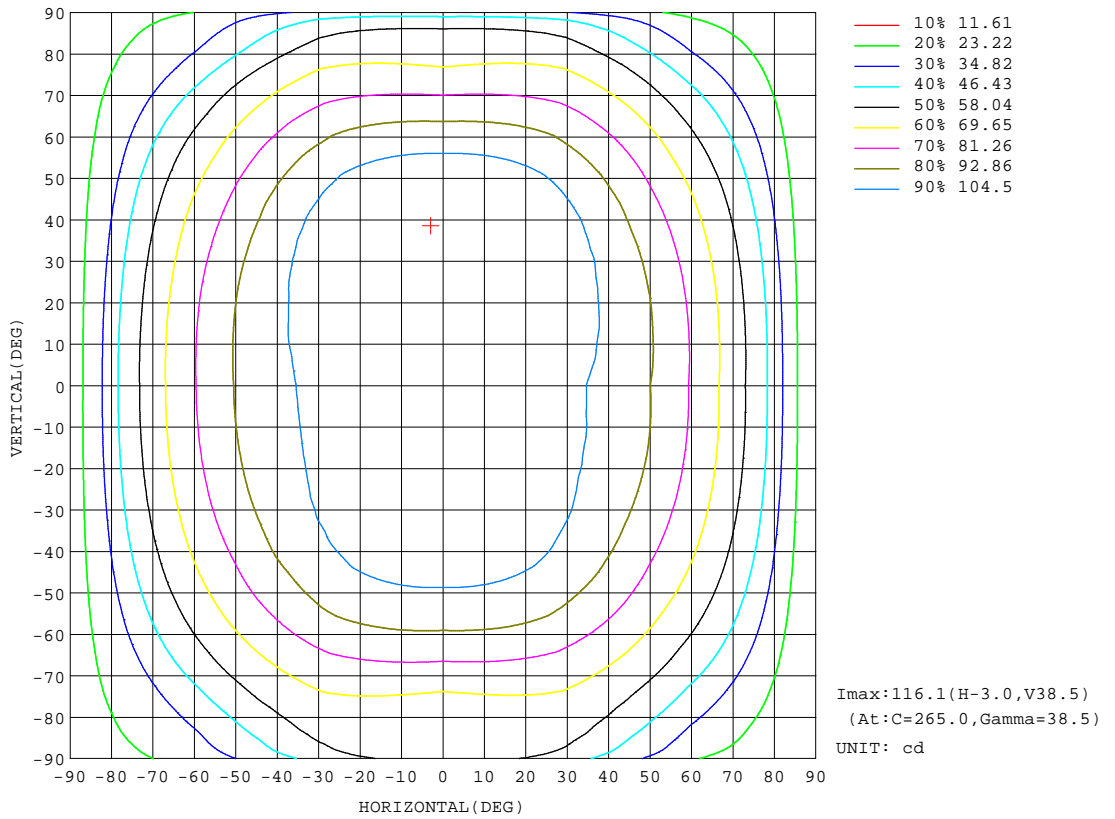
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	42	30	23	41	29	22	38	28	21	14
0.80	52	38	30	49	37	30	45	35	28	19
1.00	59	46	38	56	44	37	51	43	34	24
1.25	66	53	45	63	51	43	57	47	40	28
1.50	72	59	50	68	57	49	61	52	45	32
2.00	79	68	59	75	65	57	67	59	52	37
2.50	84	74	65	79	70	63	70	63	57	41
3.00	88	78	71	83	74	68	73	67	61	44
4.00	93	85	78	87	80	74	77	72	67	48
5.00	96	89	83	90	84	79	80	75	71	50
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: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date:

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-2000_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.700m [K=1.1494]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.0960A P:11.350W PF:0.9800 Freq:60.00Hz Lamp Flux:800x1 lm		
NAME: LED WALL SCONCES	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

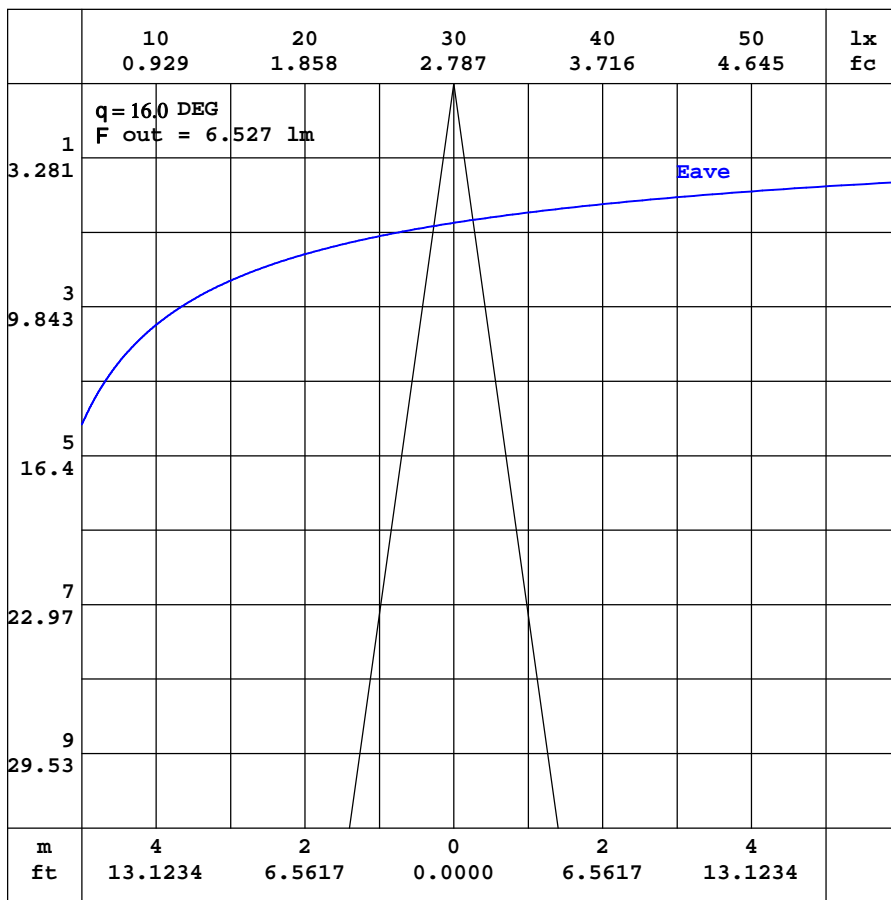


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.700m [K=1.1494]
 Remarks:

AAI CURVES

Test:U:120.00V I:0.0960A P:11.350W PF:0.9800 Freq:60.00Hz Lamp Flux:800x1 lm		
NAME: LED WALL SCONCES	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:



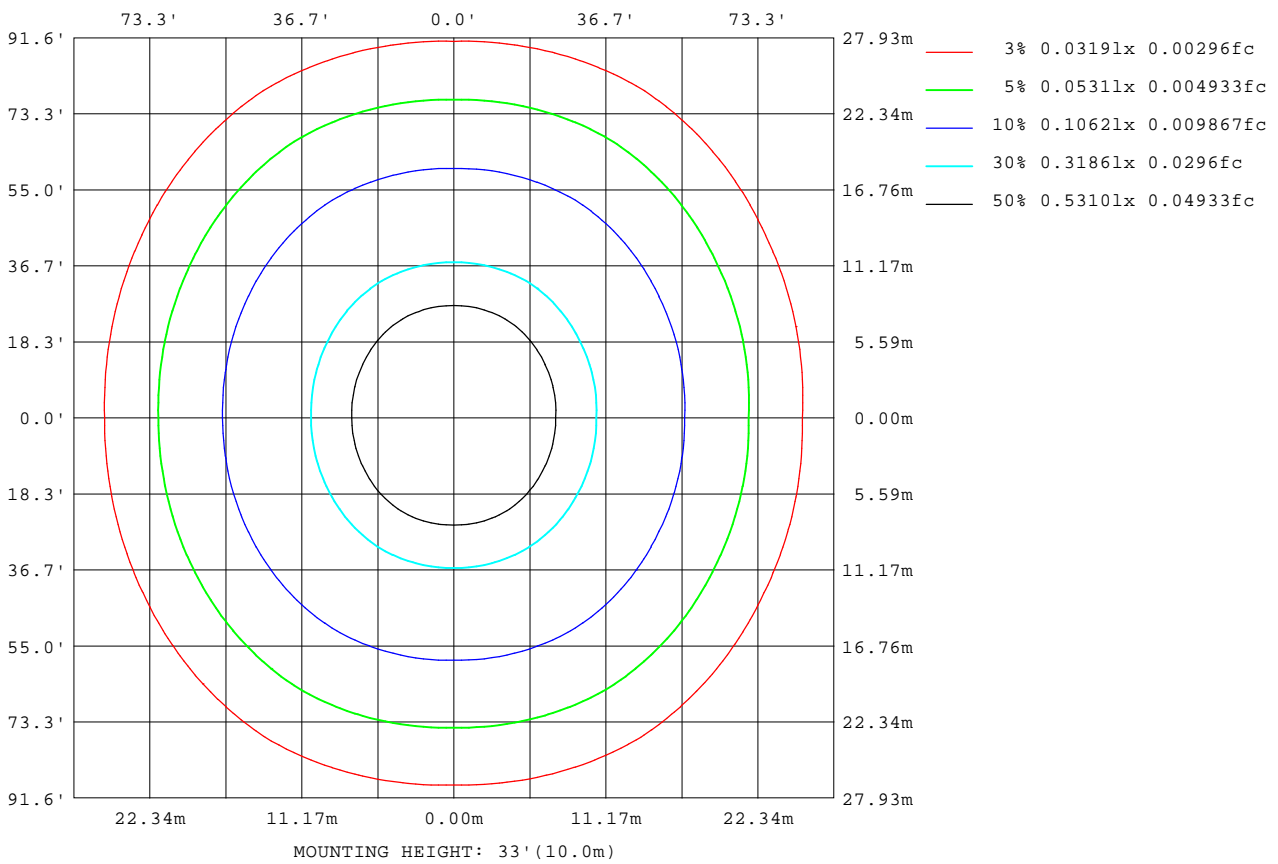
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.700m [K=1.1494]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.0960A P:11.350W PF:0.9800 Freq:60.00Hz Lamp Flux:800x1 lm		
NAME: LED WALL SCONCES	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date:

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-2000_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.700m [K=1.1494]
 Remarks:

LED Avg.L Report

Test:U:120.00V I:0.0960A P:11.350W PF:0.9800 Freq:60.00Hz Lamp Flux:800x1 lm		
NAME: LED WALL SCONCES	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

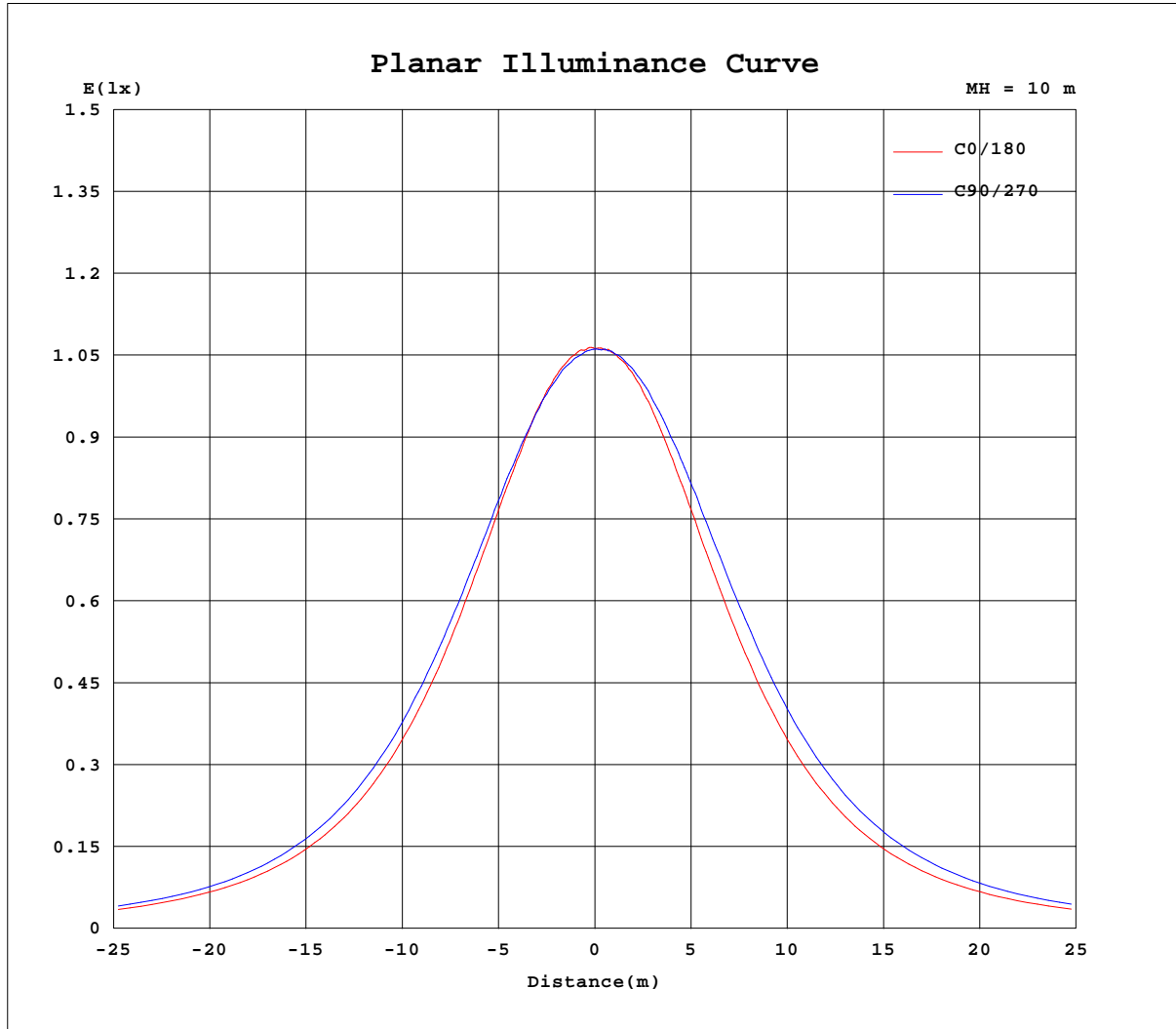
AvgL	cd/m2
L_0~180(65)av	1719
L_0~180(75)av	2095
L_0~180(85)av	2959
L_90~270(65)av	2058
L_90~270(75)av	2717
L_90~270(85)av	7283
L_45(65)av	1977
L_45(75)av	2604
L_45(85)av	5532

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:

g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.700m [K=1.1494]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date:

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-2000_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.700m [K=1.1494]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.0960A P:11.350W PF:0.9800 Freq:60.00Hz Lamp Flux:800x1 lm		
NAME: LED WALL SCNCES	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
5	107	107	107	107	107	106	106	106	106	106	106	106	106	106	106	106	106	106	106
10	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
15	108	108	108	107	107	107	107	108	108	108	108	108	108	108	108	108	108	108	108
20	108	108	108	108	108	108	108	108	108	108	109	109	109	109	109	109	109	108	108
25	107	107	108	108	108	108	108	108	108	109	109	109	109	109	109	110	110	109	109
30	106	106	107	107	107	107	108	108	108	109	109	110	110	110	110	110	110	110	110
35	104	104	105	105	105	105	106	107	107	108	109	109	110	110	110	110	110	110	110
40	102	102	102	102	103	103	104	105	106	106	107	108	109	109	109	109	109	109	109
45	98.0	98.2	98.5	98.9	99.4	99.9	101	102	103	104	105	105	106	107	107	107	107	107	107
50	92.9	93.3	93.7	94.3	94.9	95.6	96.4	97.5	98.6	99.7	101	102	103	103	103	104	104	104	103
55	87.3	87.6	88.0	88.5	89.1	89.8	90.6	91.8	93.1	94.3	95.5	96.7	97.7	98.1	98.3	98.4	98.5	98.4	98.3
60	80.1	80.5	81.0	81.6	82.3	83.1	84.0	85.4	86.8	88.2	89.5	90.8	91.8	92.1	92.2	92.1	92.0	91.7	91.5
65	72.5	72.9	73.4	74.1	74.8	75.7	76.7	78.1	79.6	81.1	82.5	83.8	84.9	85.0	84.9	84.6	84.3	83.9	83.5
70	63.8	64.3	65.0	65.7	66.5	67.5	68.6	70.1	71.7	73.3	74.8	76.2	77.3	77.3	77.0	76.7	76.2	75.7	75.3
75	54.0	54.6	55.4	56.2	57.3	58.4	59.8	61.7	63.7	65.7	67.6	69.2	70.6	70.6	70.4	69.9	69.3	68.7	68.2
80	41.7	42.4	43.4	44.6	46.0	47.7	49.5	52.3	55.2	58.1	60.8	63.3	65.5	66.0	66.1	66.0	65.6	65.1	64.5
85	24.9	26.1	27.7	29.6	31.8	34.3	37.2	41.2	45.5	49.7	53.9	57.8	61.3	63.3	64.7	65.6	66.2	66.4	66.2
90	15.5	15.7	16.4	17.6	19.3	21.5	24.3	28.5	33.0	37.7	42.5	47.1	51.5	54.6	57.3	59.5	61.2	62.2	62.7
95	16.2	16.8	18.0	19.6	21.6	24.1	26.7	29.8	32.9	36.0	39.0	41.9	44.4	45.7	46.6	47.2	47.4	47.4	47.1
100	24.1	24.7	25.8	27.3	29.2	31.4	33.7	35.9	38.0	40.1	42.1	43.9	45.5	46.1	46.5	46.6	46.6	46.4	46.0
105	29.0	29.7	31.0	32.6	34.6	36.8	39.0	40.8	42.6	44.2	45.6	46.9	47.9	48.2	48.2	48.1	47.8	47.4	47.0
110	31.3	32.2	33.7	35.7	38.0	40.5	43.0	44.8	46.4	47.9	49.3	50.4	51.2	51.3	51.3	51.0	50.6	50.2	49.8
115	32.6	33.5	35.0	36.8	39.0	41.4	43.9	46.2	48.4	50.5	52.5	54.2	55.6	55.9	56.0	55.8	55.4	55.0	54.5
120	33.6	34.1	35.0	36.3	38.0	40.0	42.3	45.1	48.1	51.0	53.8	56.4	58.7	59.6	60.1	60.3	60.2	59.9	59.5
125	34.4	34.6	35.2	36.2	37.5	39.3	41.3	44.4	47.7	51.0	54.3	57.4	60.1	61.3	62.1	62.5	62.7	62.5	62.2
130	35.0	35.1	35.6	36.4	37.5	38.8	40.5	42.6	44.9	47.3	49.8	52.1	54.4	56.2	57.8	59.1	60.1	60.7	61.0
135	35.3	35.4	35.8	36.4	37.3	38.3	39.5	41.0	42.6	44.2	45.8	47.4	48.9	50.0	51.0	51.8	52.3	52.7	52.8
140	35.3	35.4	35.7	36.2	36.8	37.6	38.4	39.6	40.8	42.0	43.2	44.3	45.4	46.0	46.4	46.7	46.9	47.0	46.9
145	35.1	35.2	35.4	35.8	36.3	36.8	37.5	38.3	39.1	40.0	40.8	41.5	42.2	42.5	42.7	42.8	42.8	42.8	42.7
150	34.8	34.9	35.0	35.3	35.6	36.0	36.4	36.9	37.4	38.0	38.4	38.9	39.3	39.4	39.5	39.5	39.4	39.4	39.3
155	34.2	34.2	34.3	34.5	34.7	34.9	35.1	35.4	35.7	35.9	36.2	36.4	36.6	36.6	36.6	36.5	36.4	36.3	36.3
160	33.3	33.4	33.4	33.5	33.6	33.7	33.9	34.0	34.1	34.2	34.3	34.4	34.4	34.3	34.2	34.1	34.0	33.9	33.9
165	32.3	32.3	32.3	32.4	32.4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.4	32.3	32.3	32.2	32.2	32.1
170	31.3	31.3	31.2	31.2	31.2	31.2	31.1	31.1	31.1	31.0	31.0	31.0	30.9	30.9	30.8	30.8	30.7	30.7	30.7
175	30.3	30.2	30.2	30.1	30.1	30.0	30.0	29.9	29.9	29.9	29.8	29.8	29.8	29.8	29.8	29.7	29.7	29.7	29.7
180	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.700m [K=1.1494]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.0960A P:11.350W PF:0.9800 Freq:60.00Hz Lamp Flux:800x1 lm		
NAME: LED WALL SCONCES	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) g (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
5	106	106	106	106	106	106	106	106	107	107	107	107	107	107	107	107	107	107	107
10	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	108
15	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
20	108	109	109	109	109	109	109	109	108	108	108	108	108	108	108	108	108	108	108
25	110	110	110	110	110	110	109	109	109	109	108	108	108	108	108	108	108	108	108
30	110	110	110	110	110	110	110	109	109	108	108	107	107	107	107	106	106	106	107
35	110	110	110	110	110	110	109	109	108	107	107	106	106	105	105	105	105	105	105
40	109	109	109	109	109	109	108	107	106	106	105	104	103	103	102	102	102	102	102
45	107	107	107	107	107	107	106	105	104	103	102	101	99.8	99.1	98.6	98.2	98.0	98.1	98.6
50	104	104	104	104	103	103	102	101	99.8	98.6	97.5	96.4	95.5	94.7	94.1	93.7	93.5	93.5	94.0
55	98.5	98.6	98.7	98.6	98.4	98.1	97.1	96.0	94.8	93.5	92.2	91.0	90.1	89.3	88.6	88.1	87.9	87.8	88.3
60	91.7	92.0	92.2	92.2	92.2	91.9	90.9	89.7	88.4	87.1	85.7	84.4	83.3	82.4	81.6	81.0	80.7	80.6	81.2
65	83.9	84.4	84.7	85.0	85.1	85.1	84.0	82.8	81.4	79.9	78.4	76.9	75.8	74.8	74.0	73.4	73.0	72.9	73.5
70	75.8	76.4	77.0	77.4	77.7	77.8	76.7	75.4	73.9	72.3	70.7	69.1	67.8	66.7	65.7	65.0	64.5	64.3	64.9
75	68.8	69.4	70.1	70.6	70.9	70.9	69.5	67.9	66.0	64.1	62.1	60.1	58.6	57.2	56.1	55.2	54.7	54.4	55.0
80	65.0	65.5	65.9	66.0	65.9	65.4	63.3	60.8	58.1	55.3	52.4	49.7	47.6	45.7	44.2	42.9	42.1	41.7	42.2
85	66.1	65.6	64.8	63.7	62.1	60.1	56.8	53.1	49.3	45.3	41.5	37.8	34.9	32.4	30.3	28.6	27.4	26.7	26.9
90	61.9	60.6	58.7	56.4	53.6	50.5	46.7	42.8	38.8	34.8	31.0	27.5	25.1	23.2	21.6	20.3	19.5	19.0	18.9
95	46.9	46.5	45.8	44.9	43.6	42.0	39.5	36.7	33.7	30.7	27.7	24.8	22.6	20.6	18.8	17.1	15.7	14.4	16.9
100	46.1	46.0	45.8	45.4	44.8	43.9	42.0	40.0	37.7	35.4	33.0	30.6	28.8	27.0	25.4	23.8	22.3	21.0	23.8
105	47.1	47.3	47.3	47.2	46.9	46.4	45.1	43.5	41.8	39.9	37.9	35.9	34.2	32.5	30.8	29.1	27.5	25.8	28.9
110	50.0	50.2	50.4	50.5	50.4	50.0	48.8	47.3	45.6	43.8	41.8	39.8	38.1	36.3	34.6	32.8	31.1	29.3	32.6
115	54.8	55.0	55.2	55.1	54.8	54.2	52.3	50.0	47.6	45.0	42.4	39.9	38.1	36.4	34.8	33.4	32.2	31.1	33.9
120	59.7	59.7	59.5	59.1	58.4	57.2	54.6	51.6	48.5	45.3	42.1	39.2	37.3	35.7	34.5	33.5	32.9	32.6	34.4
125	62.2	62.0	61.6	60.8	59.8	58.3	55.4	52.1	48.7	45.3	42.0	38.9	37.1	35.6	34.5	33.9	33.6	33.7	34.7
130	60.3	59.3	57.9	56.2	54.4	52.3	49.9	47.5	45.1	42.7	40.4	38.4	37.1	36.0	35.2	34.6	34.4	34.4	35.3
135	52.5	52.0	51.3	50.3	49.2	48.0	46.3	44.6	42.9	41.2	39.5	38.0	37.0	36.2	35.6	35.2	34.9	34.8	35.7
140	46.9	46.7	46.4	45.9	45.4	44.7	43.6	42.4	41.1	39.9	38.6	37.5	36.8	36.2	35.7	35.4	35.2	35.1	35.8
145	42.7	42.7	42.6	42.4	42.1	41.8	41.1	40.3	39.4	38.6	37.7	37.0	36.4	36.0	35.6	35.4	35.2	35.1	35.6
150	39.3	39.3	39.3	39.3	39.2	39.0	38.6	38.2	37.7	37.2	36.8	36.3	36.0	35.6	35.4	35.1	34.9	34.7	35.2
155	36.3	36.4	36.5	36.5	36.5	36.5	36.4	36.2	35.9	35.7	35.5	35.2	35.0	34.8	34.7	34.5	34.4	34.2	34.6
160	33.9	34.0	34.1	34.3	34.4	34.5	34.4	34.4	34.3	34.2	34.2	34.1	34.0	33.9	33.8	33.7	33.6	33.6	33.8
165	32.2	32.3	32.4	32.5	32.7	32.8	32.8	32.7	32.7	32.7	32.6	32.6	32.6	32.6	32.6	32.5	32.5	32.5	32.6
170	30.7	30.8	30.9	31.0	31.1	31.2	31.2	31.2	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.4	31.4	31.4	31.4
175	29.8	29.8	29.9	29.9	30.0	30.0	30.0	30.1	30.1	30.1	30.2	30.2	30.2	30.2	30.3	30.3	30.3	30.4	30.3
180	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.700m [K=1.1494]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.0960A P:11.350W PF:0.9800 Freq:60.00Hz Lamp Flux:800x1 lm		
NAME: LED WALL SCONCES	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

Table--3

UNIT: cd

C(DEG) g (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
5	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
10	108	108	108	108	108	108	108	109	109	109	109	109	108	108	108	108	108	108	108
15	108	108	108	109	109	109	109	110	110	110	110	110	110	110	110	110	110	110	110
20	108	109	109	109	110	110	110	111	111	111	111	112	112	112	112	112	112	112	112
25	108	109	109	109	110	110	111	112	112	112	113	113	113	113	113	113	113	113	113
30	107	108	108	109	110	111	111	112	113	114	114	115	115	115	115	115	115	115	115
35	106	106	107	108	109	110	111	112	113	114	115	115	115	116	116	116	116	116	116
40	103	104	105	106	107	108	109	111	112	113	114	115	115	115	116	116	116	116	116
45	99.3	100	101	102	104	105	107	108	110	111	112	113	114	114	114	114	114	114	114
50	94.7	95.6	96.7	98.0	99.4	101	103	105	106	108	109	110	111	111	111	111	111	111	111
55	89.1	90.1	91.2	92.6	94.0	95.9	97.7	99.6	101	103	105	105	106	106	106	106	106	106	106
60	82.1	83.2	84.5	86.0	87.6	89.5	91.4	93.3	95.2	96.8	98.3	98.8	99.2	99.3	99.3	99.1	98.9	99.2	99.3
65	74.3	75.4	76.7	78.2	79.9	81.9	84.0	86.0	87.9	89.6	91.1	91.5	91.6	91.5	91.2	90.8	90.4	90.8	91.0
70	65.8	67.0	68.3	69.9	71.6	73.6	75.7	77.7	79.6	81.4	82.8	83.0	82.9	82.7	82.3	81.8	81.3	81.8	82.2
75	55.9	57.1	58.5	60.2	62.0	64.3	66.7	69.0	71.1	73.1	74.7	74.8	74.7	74.2	73.7	73.0	72.4	73.0	73.6
80	43.1	44.4	46.0	48.0	50.2	53.1	56.1	59.0	61.9	64.4	66.7	67.2	67.3	67.1	66.7	66.2	65.6	66.2	66.7
85	27.7	29.0	30.8	32.9	35.5	39.1	42.9	46.8	50.6	54.1	57.4	58.9	60.0	60.6	61.0	61.0	60.8	61.0	61.0
90	19.1	19.7	20.6	21.8	23.3	25.6	28.2	30.8	33.3	35.8	38.0	39.2	40.1	40.7	41.0	41.0	40.8	40.5	40.0
95	19.4	21.9	24.6	27.3	30.0	33.4	36.8	40.0	43.0	45.8	48.1	49.0	49.4	49.5	49.2	48.7	48.1	47.7	47.2
100	26.6	29.3	32.0	34.8	37.4	40.5	43.5	46.3	48.8	51.1	53.0	53.5	53.7	53.6	53.2	52.7	52.0	51.9	51.8
105	32.0	34.9	37.7	40.4	43.0	45.9	48.5	51.0	53.2	55.1	56.7	57.2	57.4	57.4	57.1	56.7	56.2	56.3	56.4
110	35.8	38.9	41.8	44.6	47.3	50.0	52.6	55.0	57.1	59.0	60.5	61.1	61.3	61.4	61.2	60.9	60.5	60.7	60.9
115	36.8	39.6	42.4	45.2	48.0	51.2	54.4	57.4	60.2	62.6	64.8	65.6	66.1	66.3	66.2	65.9	65.5	65.8	66.0
120	36.3	38.5	40.8	43.4	46.3	50.1	53.9	57.8	61.5	64.9	67.8	69.1	70.0	70.4	70.4	70.2	69.8	70.0	70.1
125	36.0	37.7	39.7	42.1	44.8	48.8	53.0	57.2	61.3	65.2	68.6	70.3	71.5	72.2	72.5	72.4	72.0	71.7	71.1
130	36.5	37.9	39.5	41.4	43.5	46.3	49.2	52.2	55.2	58.1	60.8	63.0	65.0	66.5	67.7	68.5	68.7	68.0	66.7
135	36.7	37.8	39.1	40.5	42.1	44.2	46.4	48.6	50.8	52.9	54.8	56.2	57.4	58.4	59.1	59.5	59.6	59.2	58.5
140	36.6	37.4	38.4	39.5	40.7	42.2	43.8	45.5	47.0	48.5	49.9	50.9	51.7	52.3	52.7	53.0	53.0	52.8	52.3
145	36.2	36.8	37.6	38.3	39.2	40.3	41.5	42.7	43.8	44.8	45.8	46.4	46.8	47.1	47.3	47.4	47.4	47.2	47.0
150	35.6	36.1	36.6	37.2	37.8	38.6	39.3	40.1	40.8	41.5	42.1	42.4	42.7	42.9	43.0	43.0	42.9	42.8	42.7
155	35.0	35.4	35.8	36.1	36.5	36.9	37.3	37.7	38.1	38.4	38.7	38.8	39.0	39.0	39.1	39.1	39.0	39.0	39.0
160	34.0	34.2	34.4	34.6	34.9	35.1	35.3	35.6	35.8	35.9	36.1	36.1	36.1	36.0	36.0	35.9	35.8	35.9	35.9
165	32.7	32.8	32.9	33.0	33.1	33.3	33.4	33.5	33.7	33.8	33.9	33.9	33.9	33.9	33.8	33.8	33.7	33.7	33.7
170	31.5	31.5	31.5	31.6	31.6	31.6	31.6	31.7	31.7	31.7	31.7	31.7	31.6	31.6	31.5	31.5	31.5	31.5	31.5
175	30.3	30.3	30.3	30.3	30.3	30.3	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
180	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.700m [K=1.1494]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.0960A P:11.350W PF:0.9800 Freq:60.00Hz Lamp Flux:800x1 lm		
NAME: LED WALL SCONCES	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

Table--4

UNIT: cd

C(DEG) g (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106				
5	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107				
10	108	108	108	108	108	108	108	108	108	108	108	108	108	108	107				
15	110	110	110	110	110	110	109	109	109	109	109	108	108	108	108				
20	112	112	112	112	111	111	111	110	110	110	109	109	109	108	108				
25	113	113	113	113	113	112	112	111	111	110	110	109	109	108	108				
30	115	115	115	114	114	113	112	111	110	110	109	108	108	107	107				
35	116	116	115	115	114	113	112	111	110	109	108	107	106	106	105				
40	115	115	115	114	113	112	111	109	108	107	106	105	104	103	102				
45	114	114	113	112	111	110	108	107	105	104	103	102	101	99.6	98.8				
50	111	110	110	109	108	106	105	103	101	99.8	98.5	97.2	96.0	94.9	93.9				
55	106	106	105	104	103	101	99.6	97.8	95.9	94.1	92.7	91.4	90.2	89.1	88.2				
60	99.4	99.3	99.0	98.4	96.9	95.2	93.3	91.3	89.2	87.3	85.8	84.4	83.2	82.0	81.0				
65	91.3	91.3	91.2	90.8	89.3	87.6	85.8	83.8	81.8	79.8	78.3	76.9	75.7	74.5	73.4				
70	82.7	82.9	83.0	82.8	81.3	79.6	77.7	75.7	73.6	71.5	70.0	68.6	67.2	66.0	64.9				
75	74.2	74.6	74.7	74.6	73.0	71.1	68.9	66.6	64.3	62.0	60.4	58.8	57.4	56.2	55.0				
80	67.1	67.3	67.2	66.7	64.5	62.0	59.2	56.2	53.3	50.4	48.5	46.7	45.1	43.8	42.6				
85	60.7	60.0	59.0	57.5	54.3	50.8	47.1	43.2	39.4	35.7	33.2	30.9	29.0	27.3	26.0				
90	39.2	38.2	36.9	35.3	32.9	30.2	27.5	24.8	22.2	19.9	18.4	17.2	16.3	15.7	15.5				
95	46.5	45.7	44.6	43.2	41.2	39.0	36.6	34.1	31.5	28.9	26.1	23.4	21.0	19.0	17.3				
100	51.5	51.1	50.5	49.6	47.9	46.0	43.9	41.6	39.2	36.8	34.1	31.5	29.1	27.0	25.3				
105	56.3	56.1	55.7	55.0	53.4	51.5	49.4	47.1	44.8	42.3	39.5	36.8	34.2	32.0	30.2				
110	60.9	60.8	60.3	59.6	57.9	55.8	53.5	51.0	48.4	45.7	42.6	39.6	36.9	34.5	32.6				
115	65.9	65.6	64.9	63.8	61.1	58.1	54.8	51.4	47.9	44.5	41.6	39.0	36.7	34.8	33.4				
120	69.8	69.2	68.2	66.7	63.3	59.5	55.5	51.4	47.3	43.5	40.7	38.4	36.5	35.1	34.1				
125	70.2	68.9	67.3	65.2	61.7	58.0	54.0	50.0	46.2	42.6	40.2	38.2	36.6	35.5	34.7				
130	65.1	63.1	60.9	58.4	55.6	52.8	49.9	47.1	44.4	41.9	40.0	38.4	37.1	36.0	35.3				
135	57.5	56.3	54.9	53.2	51.2	49.1	46.9	44.8	42.7	40.8	39.3	38.0	37.0	36.2	35.6				
140	51.7	50.9	50.0	48.9	47.4	45.8	44.2	42.6	41.1	39.6	38.5	37.5	36.7	36.0	35.6				
145	46.7	46.2	45.6	44.9	43.9	42.9	41.8	40.6	39.5	38.5	37.6	36.9	36.2	35.7	35.3				
150	42.4	42.1	41.8	41.4	40.7	40.1	39.4	38.7	38.0	37.3	36.7	36.2	35.7	35.3	35.0				
155	38.9	38.8	38.6	38.4	38.0	37.6	37.2	36.7	36.3	35.8	35.5	35.1	34.8	34.5	34.3				
160	36.0	36.0	36.0	35.9	35.7	35.5	35.3	35.0	34.7	34.4	34.2	34.0	33.8	33.6	33.4				
165	33.7	33.7	33.7	33.7	33.6	33.5	33.4	33.2	33.1	33.0	32.9	32.7	32.6	32.5	32.4				
170	31.6	31.7	31.7	31.7	31.7	31.7	31.7	31.6	31.6	31.6	31.5	31.5	31.4	31.4	31.4				
175	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.3	30.3	30.3	30.3	30.3	30.3				
180	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:

g Range: 0 - 180DEG
 g Interval: 0.5DEG
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