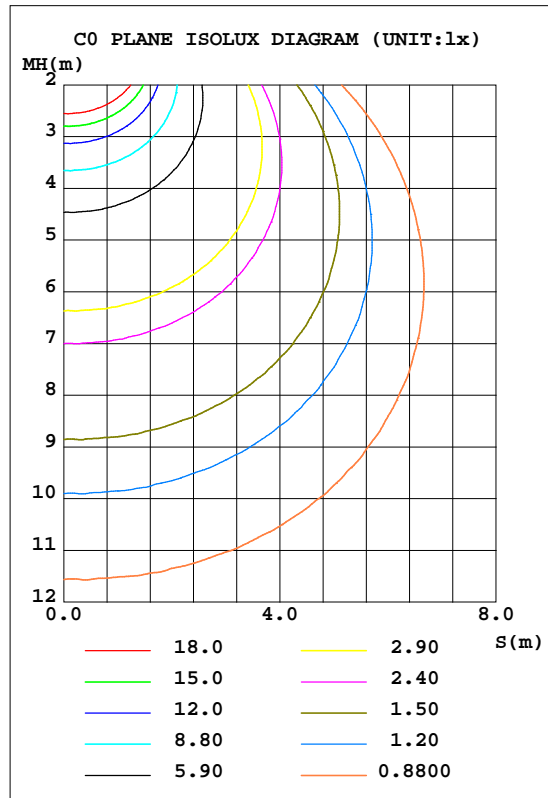
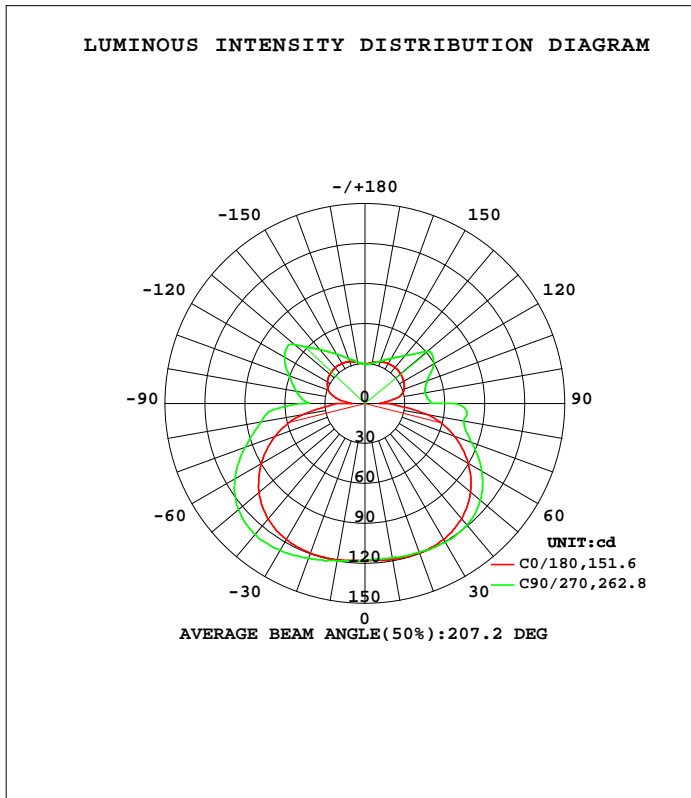


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.0940A P:11.250W 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: 76.55 lm/W			
MODEL	WLS12-D12AC-XX(4000K)	I _{max} (cd)	128.8	S/MH(C0/180)	1.51
NOMINAL POWER(W)	12	LOR(%)	107.6	S/MH(C90/270)	1.65
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	861.13	h UP, DN(C0-180)	16.1, 36.1
NOMINAL FLUX(lm)	800	CIE CLASS	SEMI-D.	h UP, DN(C180-360)	17.7, 37.8
LAMPS INSIDE	1	h up(%)	33.8	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	120	h down(%)	73.9	CIBSE SHR MAX	1.75



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:8.12

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:

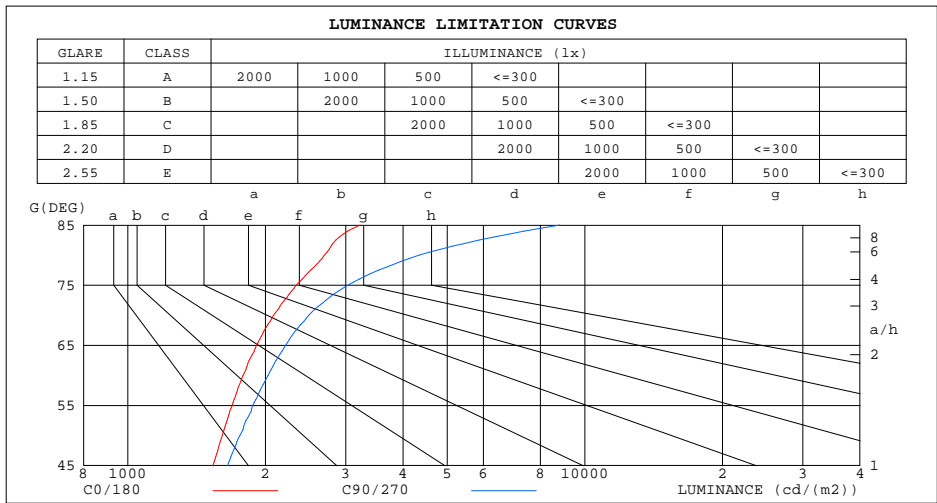
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	118.6	118.2	117.6	118.2	119.1	119.9	120.0	119.8	0- 10	11.30	11.30	1.31,1.41
20	119.5	119.4	119.1	119.7	119.5	122.7	123.4	122.9	10- 20	34.03	45.33	5.26,5.67
30	118.0	119.5	120.5	119.8	117.9	124.3	127.3	124.7	20- 30	56.20	101.5	11.8,12.7
40	113.0	116.7	119.2	116.7	113.2	122.8	128.4	123.1	30- 40	75.84	177.4	20.6,22.2
50	103.5	109.6	113.0	109.7	103.6	116.8	123.9	116.8	40- 50	90.02	267.4	31.1,33.4
60	89.31	97.42	101.4	97.56	89.79	105.1	112.7	104.9	50- 60	95.58	363.0	42.2,45.4
70	71.26	81.88	85.08	82.46	71.67	88.79	95.48	88.81	60- 70	91.31	454.3	52.8,56.8
80	46.73	65.49	75.36	65.32	46.38	68.42	79.20	68.90	70- 80	78.81	533.1	61.9,66.6
90	17.19	40.70	67.12	42.30	21.13	34.50	46.13	30.91	80- 90	57.96	591.0	68.6,73.9
100	24.08	40.15	46.04	37.73	20.97	46.28	51.99	43.86	90-100	37.93	629.0	73,78.6
110	31.25	47.94	49.76	45.59	29.28	55.00	60.48	53.49	100-110	46.30	675.3	78.4,84.4
120	33.61	51.00	59.50	48.48	32.63	57.78	69.80	55.47	110-120	49.49	724.8	84.2,90.6
130	34.95	47.34	60.98	45.05	34.40	52.21	68.75	49.95	120-130	46.01	770.8	89.5,96.3
140	35.28	42.00	46.94	41.11	35.10	45.46	53.02	44.24	130-140	35.55	806.3	93.6,101
150	34.79	37.95	39.27	37.73	34.74	40.08	42.91	39.39	140-150	25.59	831.9	96.6,104
160	33.33	34.21	33.85	34.33	33.56	35.56	35.82	35.26	150-160	16.93	848.8	98.6,106
170	31.32	31.03	30.66	31.26	31.39	31.68	31.47	31.68	160-170	9.379	858.2	99.7,107
180	29.66	29.66	29.66	29.66	29.66	29.66	29.66	29.66	170-180	2.915	861.1	100,108
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:8.12

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:0.0940A P:11.250W 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	3222	8811
80	2691	4340
75	2337	3027
70	2083	2488
65	1913	2213
60	1786	2028
55	1691	1877
50	1610	1759
45	1537	1653

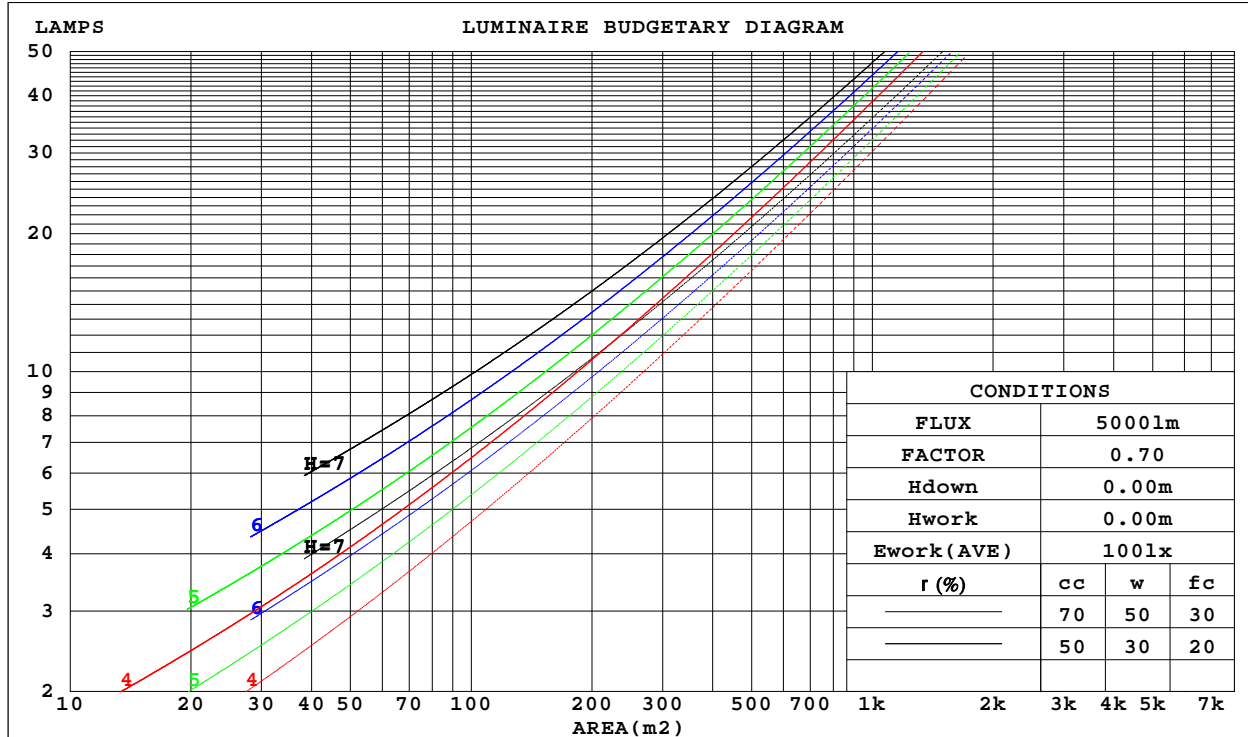
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:8.12

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:0.0940A P:11.250W 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	1.20	1.20	1.20	1.13	1.13	1.13	1.01	1.01	1.01	.89	.89	.89	.79	.79	.79	.74
1.0	.00	.94	.89	.94	.89	.84	.83	.79	.75	.73	.70	.67	.64	.62	.59	.55
2.0	.85	.77	.69	.80	.72	.66	.71	.65	.59	.62	.57	.53	.54	.50	.47	.43
3.0	.73	.64	.56	.69	.60	.53	.61	.54	.48	.53	.48	.43	.46	.42	.38	.34
4.0	.64	.54	.46	.60	.51	.44	.53	.46	.40	.47	.41	.36	.41	.36	.32	.28
5.0	.57	.46	.39	.53	.44	.37	.47	.39	.34	.41	.35	.30	.36	.31	.27	.24
6.0	.50	.40	.33	.48	.38	.32	.42	.35	.29	.37	.31	.26	.32	.27	.23	.20
7.0	.45	.36	.29	.43	.34	.28	.38	.30	.25	.34	.27	.23	.29	.24	.20	.17
8.0	.41	.32	.25	.39	.30	.24	.34	.27	.22	.31	.24	.20	.27	.22	.18	.15
9.0	.37	.28	.22	.35	.27	.21	.32	.24	.19	.28	.22	.18	.25	.20	.16	.13
10.0	.34	.26	.20	.32	.24	.19	.29	.22	.17	.26	.20	.16	.23	.18	.14	.12



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:8.12

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:0.0940A P:11.250W 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	.409	.233	.074	.391	.223	.071	.358	.205	.066	.327	.188	.060	.298	.173	.056	
2.0	.355	.195	.060	.339	.187	.058	.308	.171	.053	.280	.157	.049	.254	.144	.045	
3.0	.316	.168	.050	.301	.161	.049	.273	.148	.045	.247	.136	.042	.223	.124	.038	
4.0	.284	.148	.043	.271	.142	.042	.245	.130	.039	.222	.119	.036	.200	.108	.033	
5.0	.259	.132	.038	.246	.126	.037	.223	.116	.034	.201	.106	.032	.181	.097	.029	
6.0	.237	.119	.034	.226	.114	.033	.204	.105	.030	.184	.096	.028	.165	.087	.026	
7.0	.218	.108	.031	.208	.104	.030	.188	.095	.027	.170	.087	.025	.152	.079	.023	
8.0	.202	.099	.028	.193	.095	.027	.175	.087	.025	.157	.080	.023	.141	.072	.021	
9.0	.189	.091	.025	.180	.088	.025	.163	.080	.023	.147	.074	.021	.132	.067	.019	
10.0	.176	.085	.023	.168	.081	.023	.152	.075	.021	.137	.068	.019	.123	.062	.018	

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	.462	.462	.462	.395	.395	.395	.270	.270	.270	.155	.155	.155	.050	.050	.050	
1.0	.459	.427	.398	.392	.366	.343	.268	.252	.237	.155	.146	.138	.049	.047	.045	
2.0	.452	.403	.362	.387	.347	.313	.265	.240	.218	.153	.140	.128	.049	.045	.042	
3.0	.444	.386	.339	.381	.333	.294	.262	.231	.206	.151	.135	.121	.049	.044	.040	
4.0	.436	.373	.324	.375	.322	.281	.258	.224	.198	.149	.131	.117	.048	.043	.039	
5.0	.429	.363	.314	.368	.314	.273	.254	.219	.193	.147	.129	.114	.047	.042	.038	
6.0	.421	.354	.307	.362	.307	.267	.250	.215	.189	.145	.126	.112	.047	.041	.037	
7.0	.413	.347	.301	.356	.301	.262	.246	.211	.186	.143	.124	.111	.046	.041	.037	
8.0	.406	.342	.297	.350	.296	.259	.242	.208	.184	.141	.123	.110	.046	.040	.036	
9.0	.400	.337	.294	.344	.292	.256	.239	.205	.182	.139	.121	.109	.045	.040	.036	
10.0	.394	.332	.291	.339	.289	.254	.235	.203	.181	.137	.120	.108	.045	.039	.036	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:8.12

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:0.0940A P:11.250W 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	11.7	12.9	12.4	13.7	14.6	12.4	13.6	13.2	14.4	15.4
3H	14.3	15.4	15.0	16.2	17.2	15.2	16.3	16.0	17.1	18.1
4H	15.5	16.5	16.3	17.3	18.4	16.7	17.7	17.5	18.5	19.5
6H	16.6	17.6	17.4	18.4	19.5	18.3	19.3	19.1	20.1	21.2
8H	17.1	18.0	17.9	18.9	19.9	19.3	20.3	20.1	21.1	22.1
12H	17.5	18.4	18.3	19.2	20.3	20.5	21.4	21.4	22.3	23.3
4H 2H	12.7	13.7	13.4	14.5	15.5	13.2	14.2	14.0	15.0	16.0
3H	15.5	16.4	16.3	17.2	18.2	16.3	17.2	17.1	18.1	19.1
4H	16.9	17.7	17.7	18.5	19.6	18.0	18.8	18.8	19.7	20.7
6H	18.2	18.9	19.0	19.8	20.8	19.9	20.6	20.7	21.5	22.5
8H	18.7	19.4	19.6	20.3	21.3	21.0	21.7	21.8	22.5	23.6
12H	19.2	19.8	20.1	20.7	21.8	22.3	22.9	23.2	23.8	24.9
8H 4H	17.6	18.3	18.5	19.2	20.3	18.6	19.2	19.4	20.1	21.2
6H	19.2	19.8	20.1	20.7	21.8	20.8	21.3	21.6	22.2	23.3
8H	19.9	20.4	20.8	21.3	22.4	22.1	22.6	22.9	23.5	24.6
12H	20.6	21.0	21.4	21.9	23.1	23.7	24.1	24.5	25.0	26.1
12H 4H	17.9	18.5	18.7	19.4	20.5	18.7	19.3	19.5	20.2	21.2
6H	19.6	20.1	20.5	21.0	22.1	21.0	21.5	21.8	22.4	23.5
8H	20.4	20.9	21.3	21.8	22.9	22.4	22.9	23.3	23.8	24.9
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:8.12

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:0.0940A P:11.250W 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:

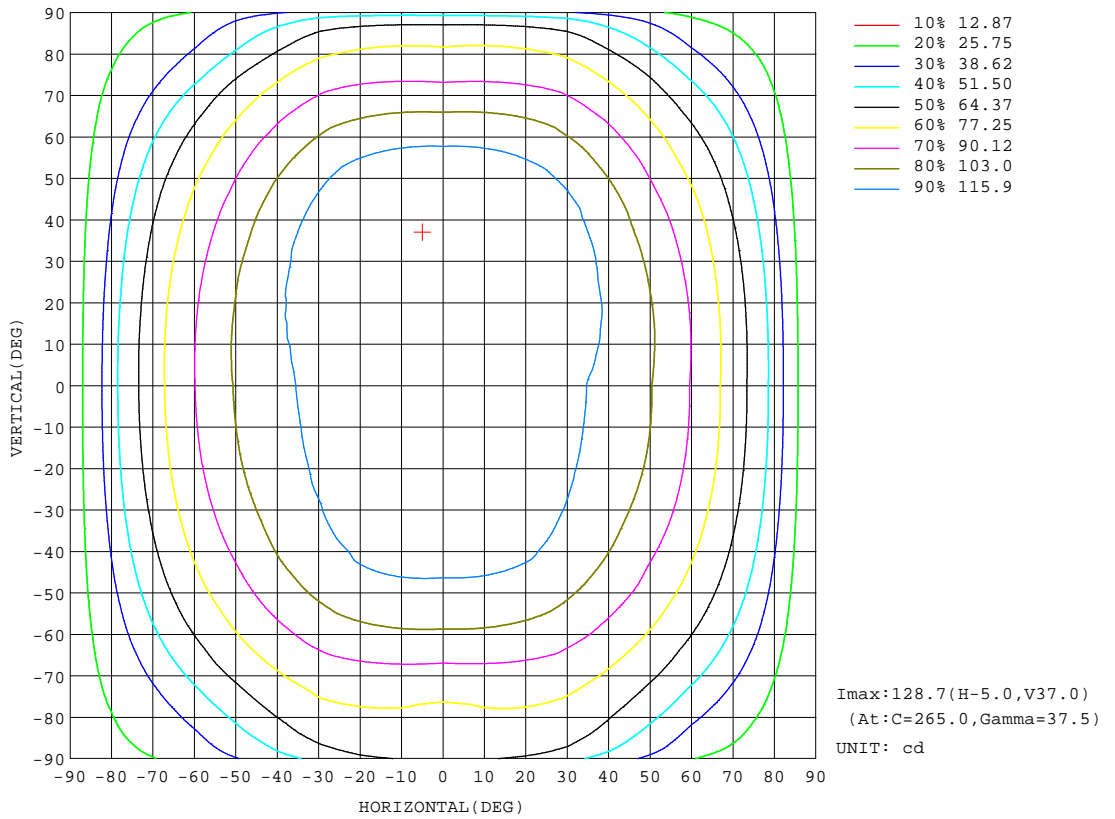
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	46	33	25	44	32	24	41	30	24	16
0.80	56	42	33	54	40	32	49	38	31	21
1.00	64	50	41	61	48	40	56	47	38	27
1.25	72	58	49	68	56	47	62	52	44	31
1.50	78	64	55	74	61	53	66	57	49	35
2.00	86	74	64	81	70	62	73	64	57	41
2.50	91	80	71	86	76	68	77	69	62	45
3.00	95	85	77	90	81	73	80	73	67	49
4.00	100	92	84	95	87	81	84	78	73	53
5.00	104	96	90	98	91	86	87	82	77	56
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:8.12

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:0.0940A P:11.250W 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:

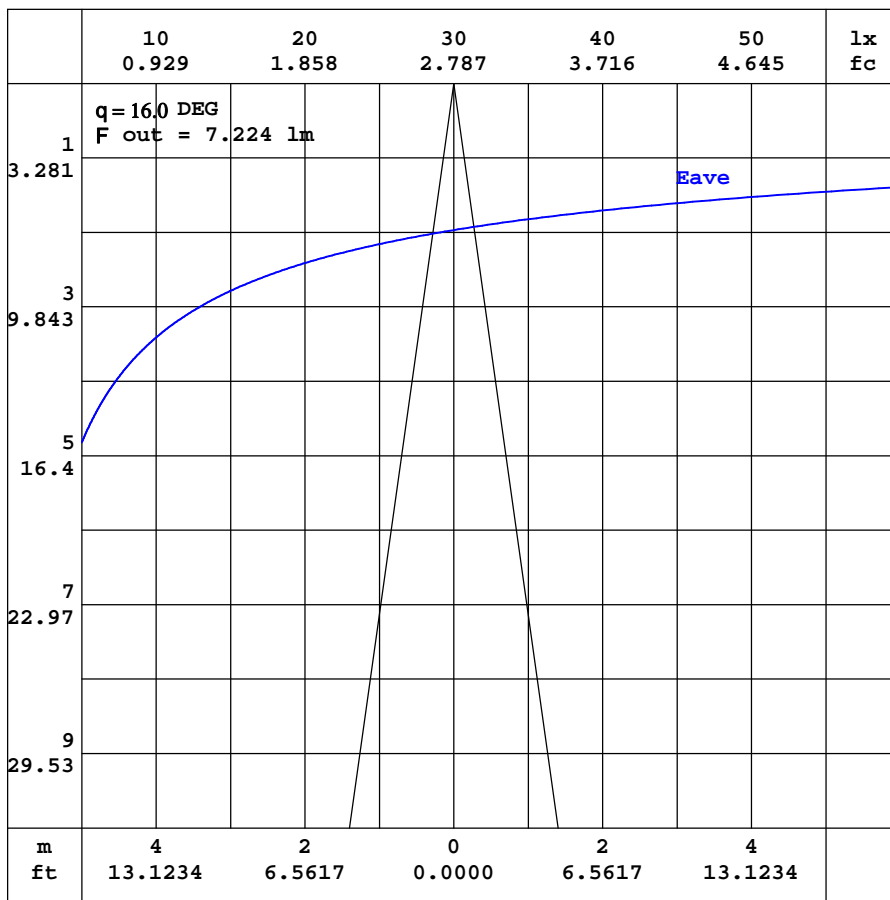


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:8.12

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:0.0940A P:11.250W 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:



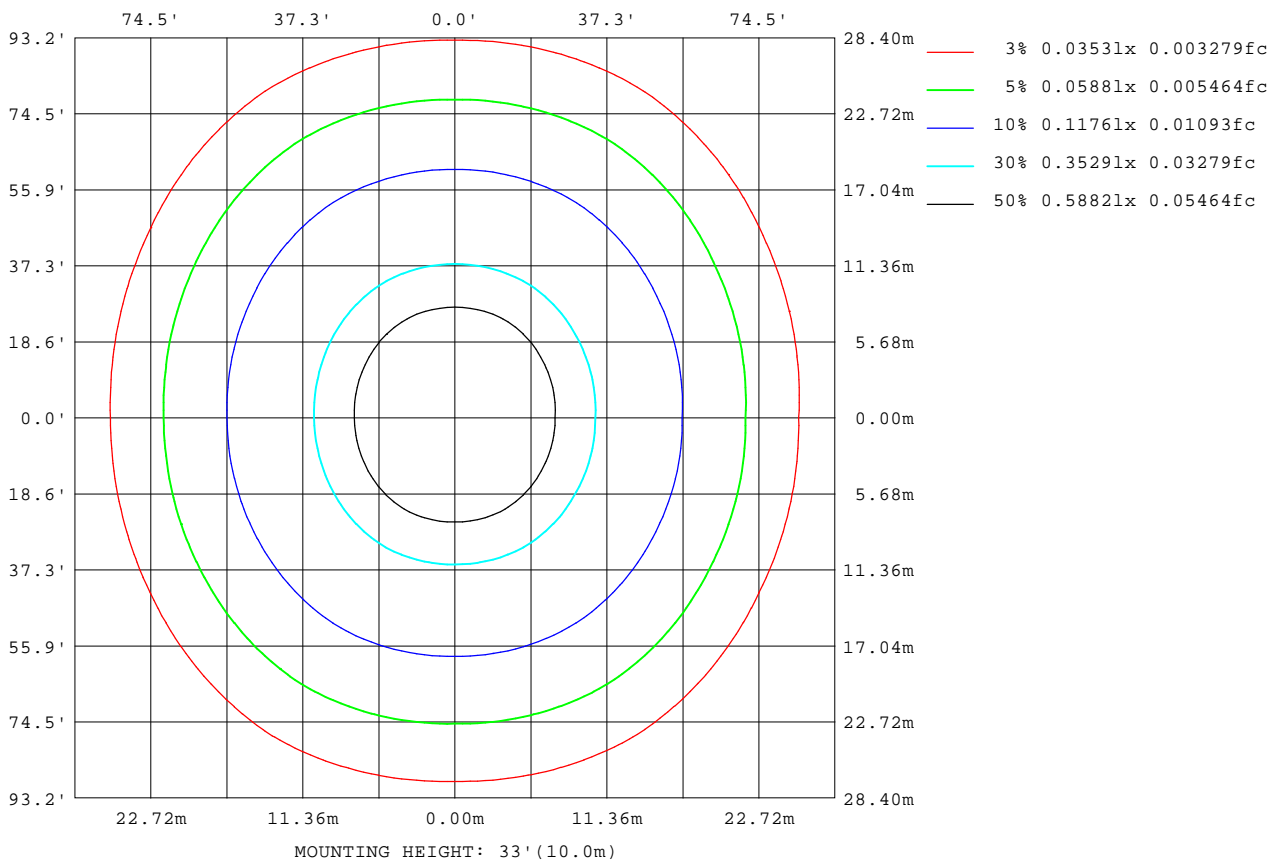
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:8.12

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:0.0940A P:11.250W 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: 8.12

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:0.0940A P:11.250W 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:

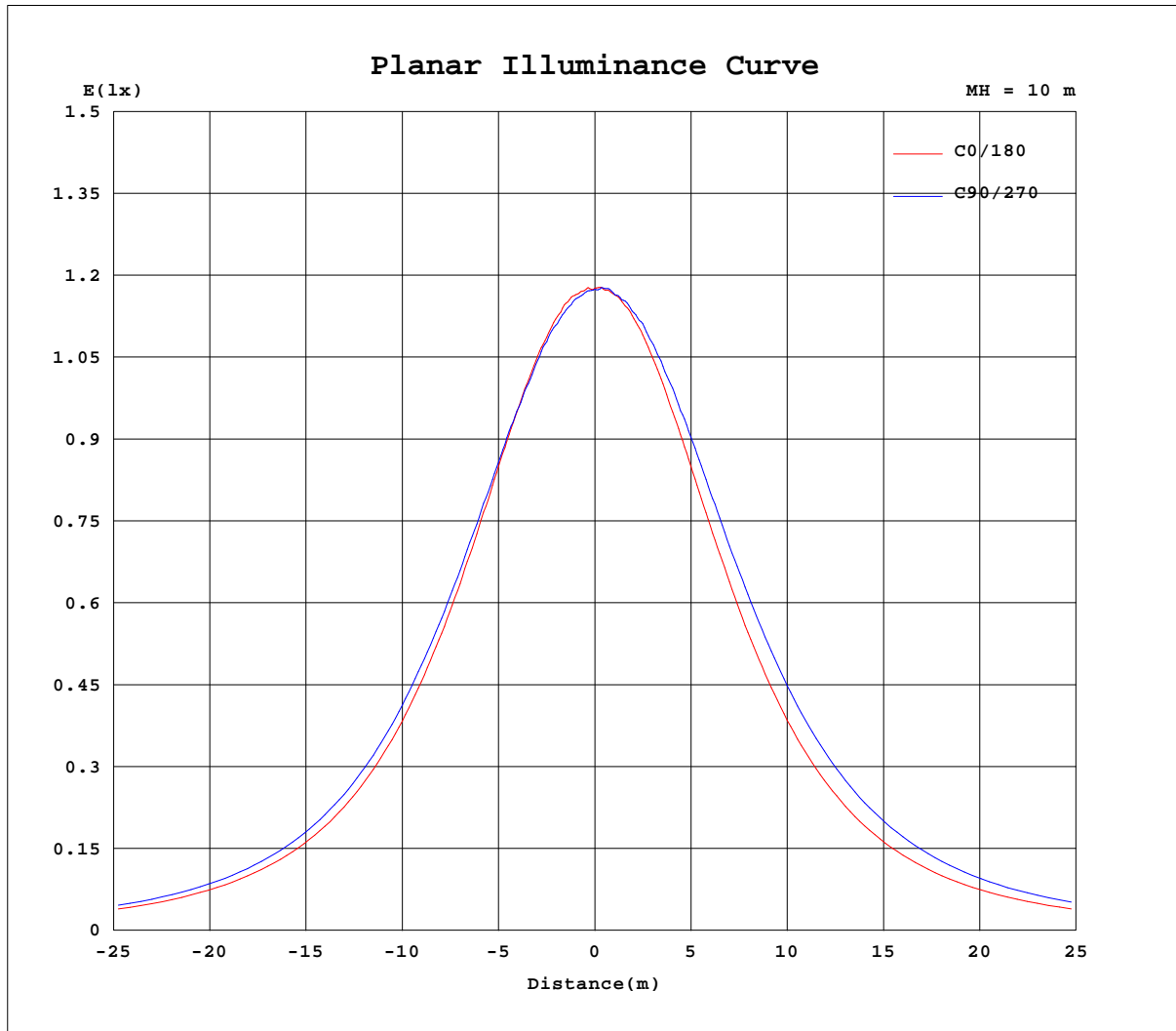
AvgL	cd/m2
L_0~180(65)av	1918
L_0~180(75)av	2344
L_0~180(85)av	3318
L_90~270(65)av	2342
L_90~270(75)av	3187
L_90~270(85)av	8567
L_45(65)av	2214
L_45(75)av	2961
L_45(85)av	6324

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:8.12

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: 8.12

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:0.0940A P:11.250W 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--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	118	118	118	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	118
5	118	118	118	118	118	118	118	118	118	118	118	118	118	117	117	117	117	117	117
10	119	119	119	119	119	118	118	118	118	118	118	118	118	118	118	118	118	118	118
15	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
20	120	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
25	119	119	119	119	119	119	119	119	120	120	120	120	121	120	120	120	120	120	120
30	118	118	118	118	118	118	118	119	119	119	120	120	121	121	121	121	121	121	121
35	116	116	116	116	116	117	117	117	118	119	119	120	120	120	120	120	120	120	120
40	113	113	113	113	114	114	114	115	116	117	118	118	119	119	119	119	119	119	119
45	109	109	109	109	110	110	111	112	113	114	115	116	116	117	117	117	117	117	117
50	103	104	104	104	105	106	106	107	108	110	111	112	113	113	113	113	113	113	113
55	97.0	97.2	97.5	98.0	98.6	99.3	100	101	103	104	105	106	107	108	108	108	108	108	108
60	89.3	89.7	90.1	90.7	91.4	92.2	93.2	94.5	96.0	97.4	98.8	100	101	102	102	102	102	102	101
65	80.8	81.2	81.7	82.4	83.1	84.0	85.0	86.5	88.1	89.7	91.2	92.6	93.8	94.1	94.2	94.2	94.0	93.8	93.5
70	71.3	71.7	72.4	73.1	74.1	75.1	76.3	78.1	80.0	81.9	83.7	85.2	86.6	86.7	86.6	86.3	85.9	85.5	85.1
75	60.5	61.0	61.7	62.7	63.8	65.1	66.6	68.9	71.3	73.7	76.0	78.0	79.8	80.1	80.1	79.8	79.3	78.8	78.3
80	46.7	47.4	48.4	49.6	51.2	53.1	55.3	58.6	62.0	65.5	68.9	72.0	74.7	75.7	76.2	76.3	76.2	75.8	75.4
85	28.1	29.3	30.9	32.9	35.3	38.2	41.4	46.0	50.9	55.8	60.7	65.3	69.5	72.1	74.0	75.5	76.4	76.8	76.8
90	17.2	17.3	18.0	19.2	21.0	23.4	26.3	30.8	35.6	40.7	45.8	50.8	55.4	58.8	61.6	63.9	65.6	66.7	67.1
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:8.12

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:0.0940A P:11.250W 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	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118
5	117	117	117	117	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118
10	118	118	118	118	118	118	118	118	118	118	118	118	118	119	119	119	119	119	119
15	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	120
20	119	119	119	120	120	120	120	120	120	120	120	120	120	119	119	119	119	120	120
25	120	120	120	120	120	120	120	120	120	120	120	120	120	119	119	119	119	119	119
30	121	121	121	121	121	121	120	120	120	119	119	119	119	118	118	118	118	118	118
35	120	120	120	120	120	120	120	119	119	118	118	117	117	116	116	116	116	116	117
40	119	119	119	119	119	119	118	118	117	116	115	114	114	113	113	113	113	113	114
45	117	117	117	117	117	116	116	115	114	113	112	111	110	110	109	109	109	109	110
50	113	113	113	113	113	113	112	111	110	109	107	106	105	105	104	104	104	104	104
55	108	108	108	108	108	108	107	106	104	103	102	101	99.5	98.7	98.0	97.6	97.3	97.4	98.1
60	102	102	102	102	102	101	100	99.0	97.6	96.1	94.7	93.3	92.2	91.3	90.5	90.0	89.8	89.8	90.5
65	93.9	94.3	94.5	94.7	94.7	94.4	93.2	91.7	90.1	88.5	86.8	85.3	84.0	83.0	82.2	81.6	81.2	81.2	82.0
70	85.7	86.3	86.9	87.3	87.6	87.5	86.1	84.4	82.5	80.5	78.5	76.5	75.1	73.8	72.9	72.1	71.7	71.7	72.4
75	78.9	79.5	80.0	80.4	80.5	80.2	78.5	76.4	74.1	71.7	69.3	67.0	65.3	63.7	62.5	61.6	61.0	60.9	61.6
80	75.8	76.0	76.1	75.9	75.4	74.4	71.7	68.6	65.3	61.9	58.5	55.3	52.8	50.7	49.0	47.6	46.7	46.4	47.1
85	76.5	75.8	74.6	72.9	70.8	68.2	64.2	59.9	55.4	50.8	46.3	42.1	38.8	36.0	33.6	31.8	30.5	29.8	30.1
90	66.4	65.2	63.3	61.0	58.1	54.9	50.9	46.6	42.3	38.0	33.9	30.1	27.5	25.4	23.7	22.5	21.6	21.1	21.0
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:8.12

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:0.0940A P:11.250W 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	118	118	117	117	117	117	117	117	117	117	117	117	117	117	117	117	118	118	118
5	118	118	118	118	118	119	119	119	119	119	119	119	119	119	119	119	118	119	119
10	119	119	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
15	120	120	120	120	121	121	121	121	122	122	122	122	122	122	122	122	122	122	122
20	120	120	121	121	121	122	122	123	123	123	124	124	124	124	124	123	123	124	124
25	120	120	121	121	122	123	123	124	124	125	125	125	126	126	126	126	126	126	126
30	119	119	120	121	122	122	123	124	125	126	127	127	127	127	127	127	127	127	127
35	117	118	119	120	121	122	123	124	125	126	127	128	128	128	128	128	128	128	128
40	114	115	116	117	118	120	121	123	124	126	127	127	128	128	128	128	128	128	128
45	110	111	113	114	115	117	119	121	122	124	125	126	127	127	127	127	127	127	127
50	105	106	108	109	111	113	115	117	119	121	122	123	123	124	124	124	124	124	124
55	99.0	100	102	103	105	107	109	112	114	116	117	118	119	119	119	119	119	119	119
60	91.5	92.8	94.3	96.0	97.9	100	103	105	107	110	111	112	113	113	113	113	113	113	113
65	83.0	84.3	85.9	87.7	89.7	92.1	94.7	97.2	99.6	102	104	104	105	105	105	105	104	105	105
70	73.5	74.9	76.6	78.6	80.7	83.4	86.1	88.8	91.4	93.7	95.7	96.3	96.6	96.5	96.3	95.9	95.5	95.8	96.1
75	62.7	64.2	66.0	68.0	70.3	73.3	76.3	79.3	82.2	84.8	87.1	87.7	87.9	87.9	87.6	87.1	86.6	87.2	87.6
80	48.3	49.9	52.0	54.5	57.2	60.9	64.6	68.4	72.1	75.4	78.4	79.4	80.0	80.1	80.0	79.7	79.2	79.7	80.1
85	31.1	32.6	34.7	37.4	40.4	44.8	49.5	54.2	58.9	63.3	67.3	69.4	70.9	71.9	72.5	72.7	72.5	72.8	72.7
90	21.3	22.0	23.0	24.4	26.1	28.7	31.6	34.5	37.4	40.2	42.7	44.1	45.2	45.9	46.3	46.3	46.1	45.8	45.2
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:8.12

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:0.0940A P:11.250W 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--4

UNIT: cd

C(DEG) g (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355			
0	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118			
5	119	119	119	119	119	119	119	118	118	118	118	118	118	118	118			
10	120	120	120	120	120	120	120	120	120	120	120	119	119	119	119			
15	122	122	122	122	122	122	121	121	121	121	121	120	120	120	119			
20	124	124	124	124	124	123	123	122	122	122	121	121	120	120	120			
25	126	126	126	125	125	124	124	123	123	122	122	121	120	120	119			
30	127	127	127	127	126	125	125	124	123	122	121	121	120	119	119			
35	128	128	128	128	127	126	124	123	122	121	120	119	118	117	116			
40	128	128	128	127	126	124	123	122	120	119	118	117	116	115	114			
45	127	127	126	126	124	123	121	119	117	116	114	113	112	111	110			
50	124	123	123	122	121	119	117	115	113	111	109	108	107	105	104			
55	119	119	118	117	116	114	111	109	107	105	103	102	100	99.1	98.0			
60	113	112	112	111	109	107	105	103	100	97.9	96.1	94.5	93.0	91.7	90.4			
65	105	105	104	104	102	99.5	97.1	94.7	92.2	89.7	87.9	86.2	84.7	83.3	82.0			
70	96.3	96.3	96.0	95.4	93.5	91.3	88.8	86.2	83.6	81.0	79.1	77.2	75.6	74.0	72.6			
75	87.9	88.0	87.8	87.2	84.9	82.3	79.5	76.4	73.4	70.4	68.3	66.4	64.6	63.0	61.7			
80	80.3	80.1	79.6	78.6	75.8	72.5	68.9	65.2	61.5	57.9	55.3	53.1	51.1	49.4	47.9			
85	72.2	71.3	69.8	67.9	64.0	59.6	55.0	50.3	45.6	41.2	38.0	35.3	32.9	30.9	29.3			
90	44.3	43.1	41.6	39.8	37.0	34.0	30.9	27.9	24.9	22.2	20.5	19.2	18.2	17.5	17.2			
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
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 Temperature:25.3DEG
 Operators:
 Test Date:8.12

g Range: 0 - 180DEG
 g Interval: 0.5DEG
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 Humidity:65.0%
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