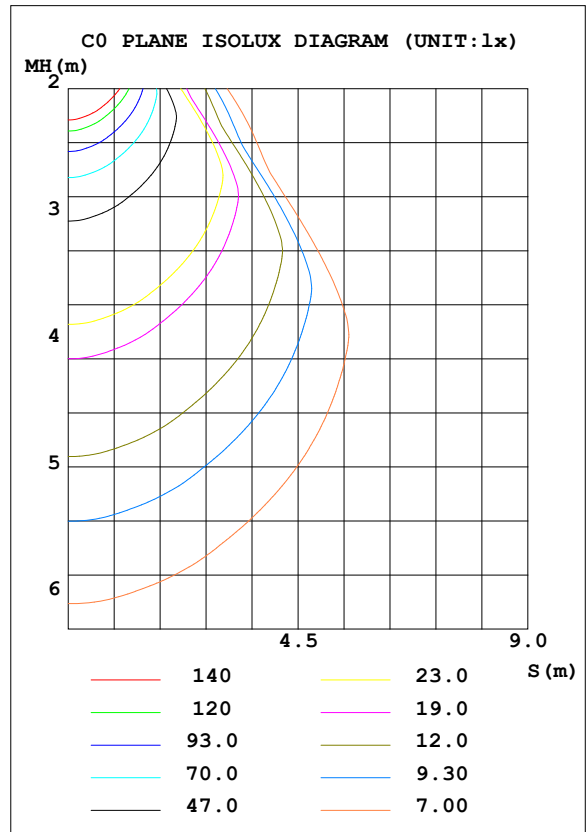
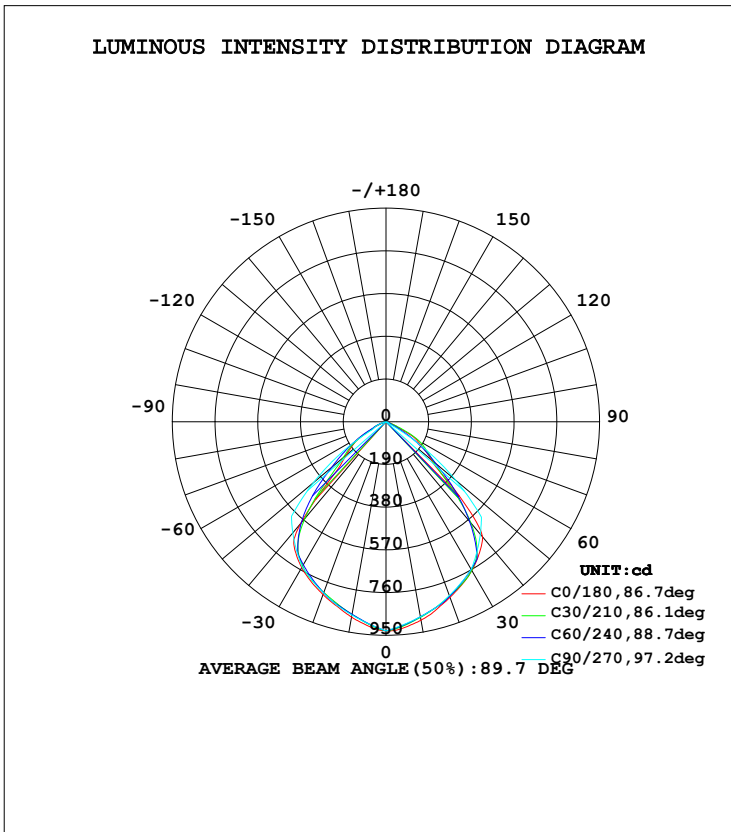




LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1639A P:19.41W PF:0.9864 Lamp Flux:1731.83x1 lm		
NAME: ASD-LSR-2030-AP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 89.23 lm/W			
MODEL	ASD-LSR-2030-AP	I <sub>max</sub> (cd)	930.6	S/MH (C0/180)	1.21
NOMINAL POWER (W)	20	LOR (%)	100.0	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1731.8	η UP, DN (C0-180)	0.0, 49.2
NOMINAL FLUX (lm)	1731.83	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 27.3DEG  
 Operators: QC  
 Test Date: 2019-03-18

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 10.382m [K=1.0000]  
 Remarks:



ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
5	919.9	909.0	905.5	904.4	911.9	901.3	901.7	906.5	0- 5	21.89	21.89	1.26,1.26
10	896.4	881.0	880.7	874.7	882.2	868.7	873.0	877.3	5- 10	63.74	85.63	4.94,4.94
15	865.4	855.4	855.9	847.6	848.5	839.6	844.3	850.5	10- 15	102.4	188.0	10.9,10.9
20	831.5	830.3	823.3	822.4	818.5	812.4	811.4	824.8	15- 20	137.5	325.5	18.8,18.8
25	799.6	795.2	790.7	785.0	786.1	774.6	778.5	790.7	20- 25	168.3	493.8	28.5,28.5
30	764.0	757.0	758.1	744.7	749.3	733.1	745.6	752.4	25- 30	194.4	688.2	39.7,39.7
35	720.6	716.1	705.4	702.2	703.5	688.5	695.3	712.1	30- 35	214.2	902.4	52.1,52.1
40	668.2	655.1	652.8	641.0	589.5	626.6	644.9	658.4	35- 40	222.4	1125	65,65
45	443.0	492.2	600.1	474.5	314.1	468.9	594.5	523.5	40- 45	203.1	1328	76.7,76.7
50	263.5	336.2	405.9	303.8	232.9	308.4	420.4	354.2	45- 50	158.7	1487	85.8,85.8
55	203.4	229.7	211.7	190.9	179.1	200.6	246.4	193.7	50- 55	114.4	1601	92.5,92.5
60	152.8	139.9	17.56	113.6	113.7	127.6	72.28	119.1	55- 60	72.67	1674	96.6,96.6
65	52.30	57.64	12.66	42.54	47.10	58.60	49.97	53.85	60- 65	33.92	1708	98.6,98.6
70	22.43	12.77	7.768	7.170	14.23	17.91	27.67	15.95	65- 70	14.41	1722	99.4,99.4
75	12.07	7.300	2.874	4.461	5.467	11.09	5.372	9.305	70- 75	6.382	1728	99.8,99.8
80	3.337	2.599	0	1.875	1.967	4.796	0	3.407	75- 80	2.527	1731	100,100
85	1.227	0	0	0	0.4939	0	0	0	80- 85	0.7420	1732	100,100
90	0.1281	0	0	0	0.0854	0	0	0	85- 90	0.0640	1732	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:27.3DEG  
 Operators:QC  
 Test Date:2019-03-18

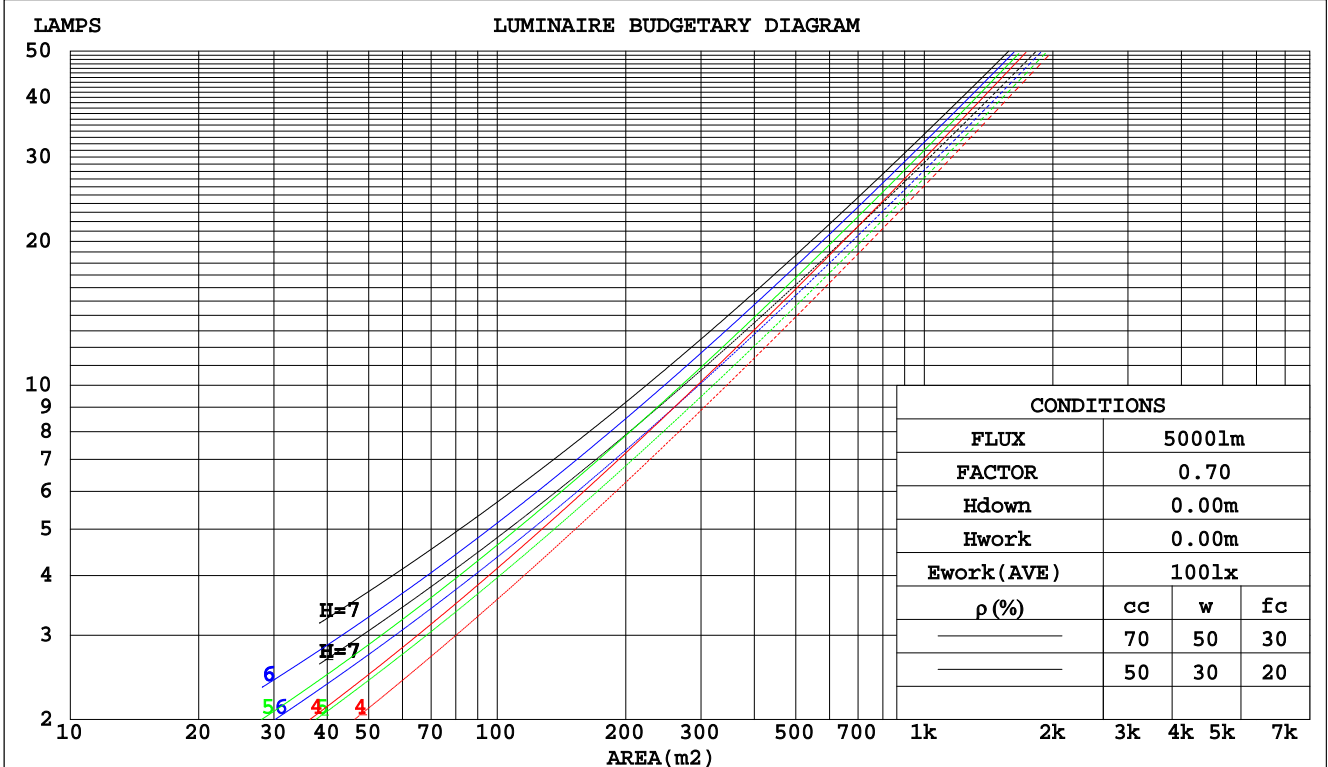
$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:10.382m [K=1.0000]  
 Remarks:



CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1639A P:19.41W PF:0.9864 Lamp Flux:1731.83x1 lm		
NAME: ASD-LSR-2030-AP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR: ASD Lighting Corp	SUR.:	Shielding 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	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.08	1.05	1.02	1.06	1.03	1.01	1.02	.99	.98	.98	.96	.95	.95	.93	.92	.90
2.0	.98	.93	.88	.96	.91	.87	.93	.89	.85	.90	.86	.84	.87	.84	.82	.80
3.0	.88	.82	.77	.87	.81	.76	.84	.79	.75	.82	.77	.74	.79	.76	.73	.71
4.0	.80	.73	.68	.79	.72	.67	.77	.71	.66	.74	.69	.65	.72	.68	.65	.63
5.0	.73	.65	.60	.72	.65	.59	.70	.64	.59	.68	.63	.58	.66	.62	.58	.56
6.0	.66	.59	.53	.66	.58	.53	.64	.57	.53	.62	.57	.52	.61	.56	.52	.50
7.0	.61	.53	.48	.60	.53	.48	.59	.52	.47	.57	.51	.47	.56	.51	.47	.45
8.0	.56	.48	.43	.55	.48	.43	.54	.48	.43	.53	.47	.43	.52	.46	.42	.41
9.0	.52	.44	.39	.51	.44	.39	.50	.44	.39	.49	.43	.39	.48	.43	.39	.37
10.0	.48	.41	.36	.47	.41	.36	.46	.40	.36	.46	.40	.36	.45	.39	.35	.34



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 27.3DEG  
 Operators: QC  
 Test Date: 2019-03-18

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 10.382m [K=1.0000]  
 Remarks:



WEC AND CCEC

Test:U:120.0V I:0.1639A P:19.41W PF:0.9864 Lamp Flux:1731.83x1 lm		
NAME: ASD-LSR-2030-AP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR: ASD Lighting Corp	SUR.:	Shielding 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	.224	.127	.040	.217	.124	.039	.204	.117	.037	.192	.111	.036	.182	.105	.034	
2.0	.220	.121	.037	.214	.118	.036	.203	.113	.035	.193	.108	.034	.184	.104	.033	
3.0	.212	.113	.034	.206	.111	.033	.197	.107	.032	.188	.103	.032	.180	.099	.031	
4.0	.202	.105	.031	.197	.103	.030	.189	.100	.030	.181	.097	.029	.173	.094	.029	
5.0	.191	.098	.028	.187	.096	.028	.180	.094	.028	.173	.091	.027	.166	.089	.027	
6.0	.181	.091	.026	.178	.090	.026	.171	.088	.026	.165	.086	.025	.159	.084	.025	
7.0	.172	.085	.024	.169	.084	.024	.163	.082	.024	.157	.081	.023	.152	.079	.023	
8.0	.163	.080	.022	.160	.079	.022	.155	.077	.022	.150	.076	.022	.145	.075	.022	
9.0	.155	.075	.021	.152	.074	.021	.148	.073	.021	.143	.072	.021	.139	.070	.020	
10.0	.147	.071	.020	.145	.070	.020	.141	.069	.019	.137	.068	.019	.133	.067	.019	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.174	.157	.141	.149	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.163	.132	.107	.139	.114	.092	.095	.079	.064	.055	.046	.038	.018	.015	.012	
3.0	.153	.114	.083	.131	.098	.072	.090	.068	.050	.052	.040	.030	.017	.013	.010	
4.0	.145	.100	.065	.125	.086	.057	.086	.060	.040	.050	.035	.024	.016	.011	.008	
5.0	.138	.089	.053	.118	.077	.046	.082	.054	.033	.047	.032	.019	.015	.010	.006	
6.0	.131	.080	.044	.113	.070	.038	.078	.049	.027	.045	.029	.016	.015	.009	.005	
7.0	.125	.073	.037	.108	.064	.032	.074	.045	.023	.043	.026	.014	.014	.009	.004	
8.0	.120	.067	.032	.103	.059	.028	.071	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.114	.063	.027	.099	.054	.024	.068	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.110	.058	.024	.094	.051	.021	.066	.036	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:27.3DEG  
 Operators:QC  
 Test Date:2019-03-18

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:10.382m [K=1.0000]  
 Remarks:



UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1639A P:19.41W PF:0.9864 Lamp Flux:1731.83x1 lm										
NAME: ASD-LSR-2030-AP					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	16.9	18.1	17.1	18.3	18.5	16.8	18.0	17.0	18.2	18.4
3H	16.8	18.0	17.1	18.2	18.4	16.6	17.7	16.9	17.9	18.2
4H	16.7	17.8	17.0	18.0	18.3	16.5	17.6	16.8	17.8	18.0
6H	16.6	17.7	17.0	17.9	18.2	16.4	17.4	16.7	17.7	17.9
8H	16.6	17.6	16.9	17.8	18.1	16.3	17.3	16.7	17.6	17.9
12H	16.5	17.5	16.9	17.8	18.0	16.3	17.2	16.6	17.5	17.8
4H 2H	16.9	18.0	17.2	18.2	18.5	16.8	17.8	17.0	18.1	18.3
3H	16.8	17.8	17.2	18.1	18.3	16.6	17.5	16.9	17.8	18.1
4H	16.8	17.6	17.1	17.9	18.2	16.5	17.3	16.9	17.6	18.0
6H	16.7	17.4	17.1	17.8	18.1	16.4	17.1	16.8	17.5	17.8
8H	16.7	17.3	17.1	17.7	18.1	16.4	17.0	16.8	17.4	17.8
12H	16.6	17.2	17.0	17.6	18.0	16.3	16.9	16.7	17.3	17.7
8H 4H	16.6	17.3	17.0	17.7	18.1	16.4	17.1	16.8	17.4	17.8
6H	16.6	17.1	17.0	17.5	17.9	16.3	16.8	16.7	17.2	17.7
8H	16.5	17.0	17.0	17.4	17.9	16.2	16.7	16.7	17.1	17.6
12H	16.5	16.9	17.0	17.4	17.8	16.2	16.6	16.7	17.1	17.5
12H 4H	16.6	17.2	17.0	17.6	18.0	16.3	16.9	16.7	17.3	17.7
6H	16.5	17.0	17.0	17.4	17.9	16.2	16.7	16.7	17.1	17.6
8H	16.5	16.9	17.0	17.3	17.8	16.2	16.6	16.7	17.1	17.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.4 / - 2.0					+ 1.6 / - 2.7				
1.5H	+ 1.5 / - 1.5					+ 1.9 / - 2.4				
2.0H	+ 2.4 / - 1.7					+ 4.6 / -14.3				

CIE Pub.117 Corrected 1732 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.9)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:27.3DEG  
 Operators:QC  
 Test Date:2019-03-18

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:10.382m [K=1.0000]  
 Remarks:



## UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1639A P:19.41W PF:0.9864 Lamp Flux:1731.83x1 lm		
NAME: ASD-LSR-2030-AP	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	69	59	53	68	59	53	67	59	53	48
0.80	79	70	64	78	70	64	77	69	64	58
1.00	87	79	73	86	78	73	84	79	73	67
1.25	94	86	81	92	85	80	90	84	79	74
1.50	98	91	86	96	90	85	94	88	84	78
2.00	103	97	92	101	96	92	98	94	90	84
2.50	105	100	96	104	99	95	100	96	93	86
3.00	108	103	99	106	102	98	102	99	96	89
4.00	111	107	103	108	105	102	104	102	99	91
5.00	112	109	106	110	107	104	106	103	101	93
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

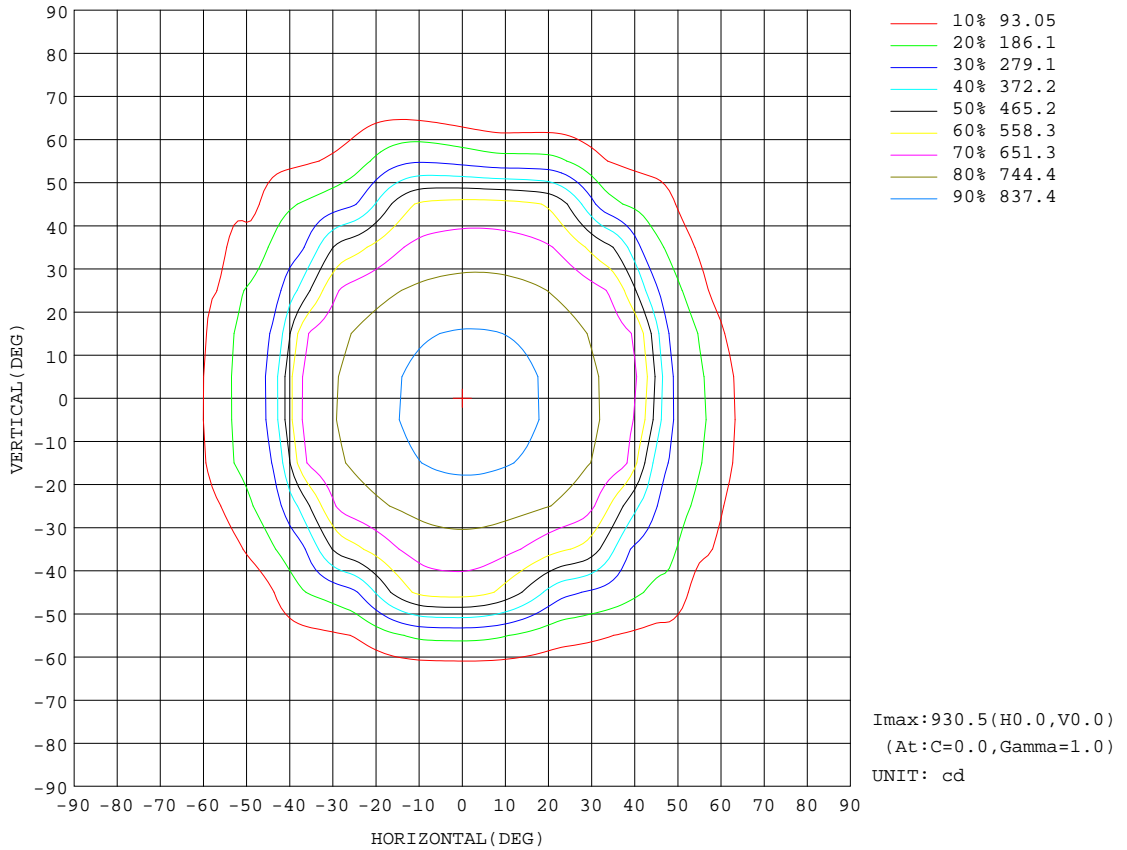
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:27.3DEG  
 Operators:QC  
 Test Date:2019-03-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:10.382m [K=1.0000]  
 Remarks:



ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1639A P:19.41W PF:0.9864 Lamp Flux:1731.83x1 lm		
NAME: ASD-LSR-2030-AP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR: ASD Lighting Corp	SUR.:	Shielding Angle:



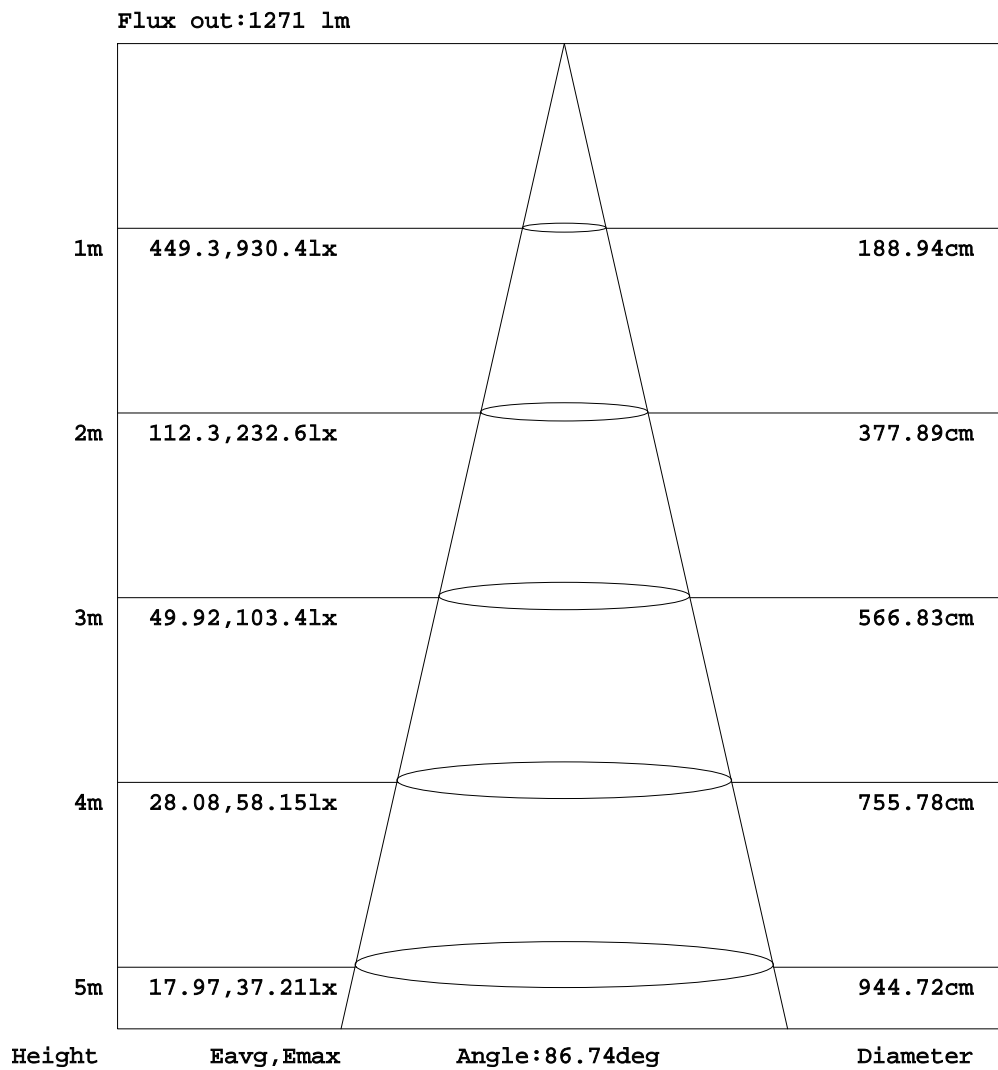
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:27.3DEG  
Operators:QC  
Test Date:2019-03-18

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:10.382m [K=1.0000]  
Remarks:



AAI Figure

Test:U:120.0V I:0.1639A P:19.41W PF:0.9864 Lamp Flux:1731.83x1 lm		
NAME: ASD-LSR-2030-AP	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: HIGH  
 Temperature:27.3DEG  
 Operators:QC  
 Test Date:2019-03-18

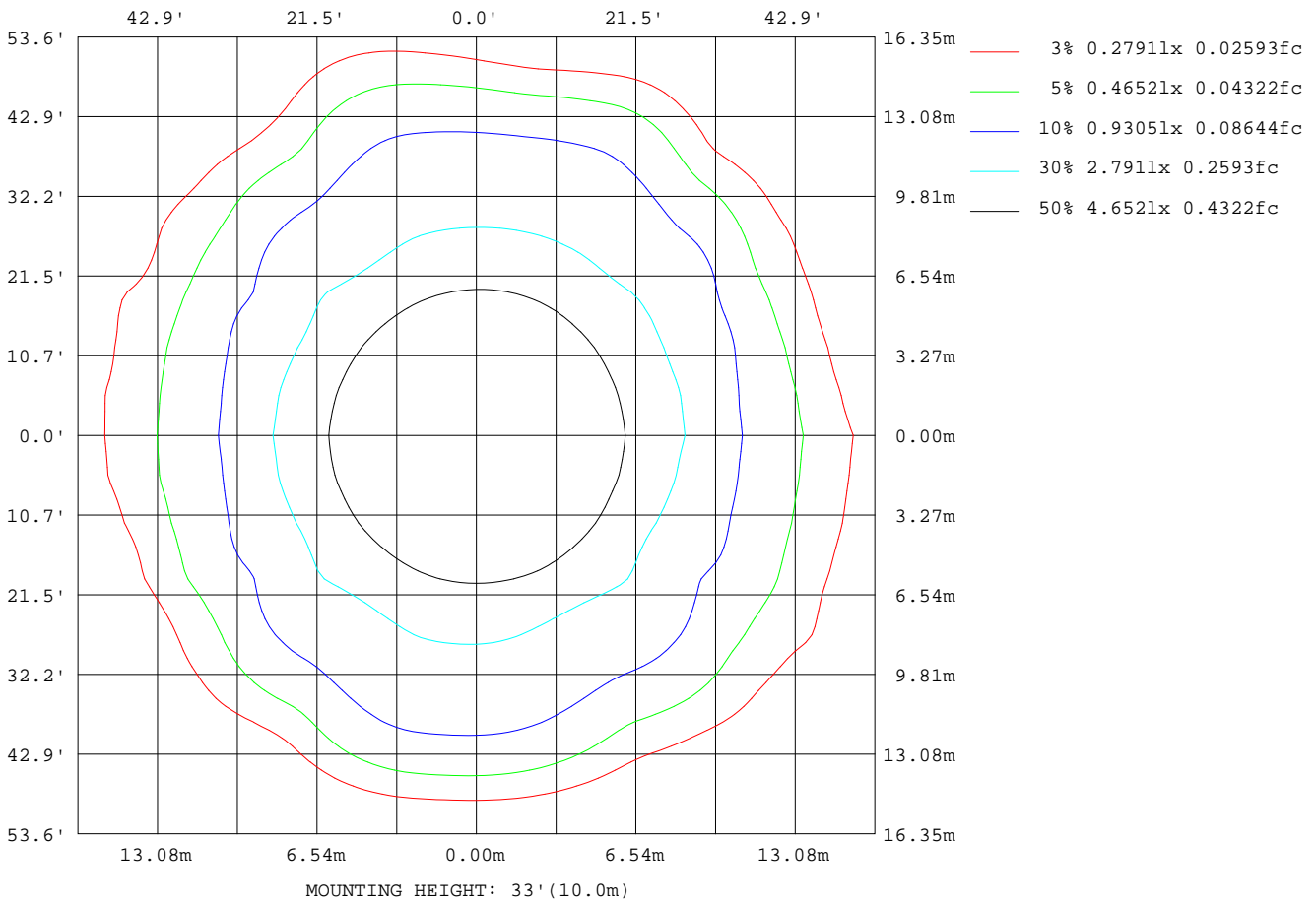
γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:10.382m [K=1.0000]  
 Remarks:





ISOLUX DIAGRAM

Test:U:120.0V I:0.1639A P:19.41W PF:0.9864 Lamp Flux:1731.83x1 lm		
NAME: ASD-LSR-2030-AP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 27.3DEG  
 Operators: QC  
 Test Date: 2019-03-18

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 10.382m [K=1.0000]  
 Remarks:



## LED Avg.L Report

Test:U:120.0V I:0.1639A P:19.41W PF:0.9864 Lamp Flux:1731.83x1 lm		
NAME: ASD-LSR-2030-AP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR: ASD Lighting Corp	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180 (65) av	1176
L_0~180 (75) av	339
L_0~180 (85) av	99
L_90~270 (65) av	741
L_90~270 (75) av	159
L_90~270 (85) av	0
L_45 (65) av	1258
L_45 (75) av	311
L_45 (85) av	0

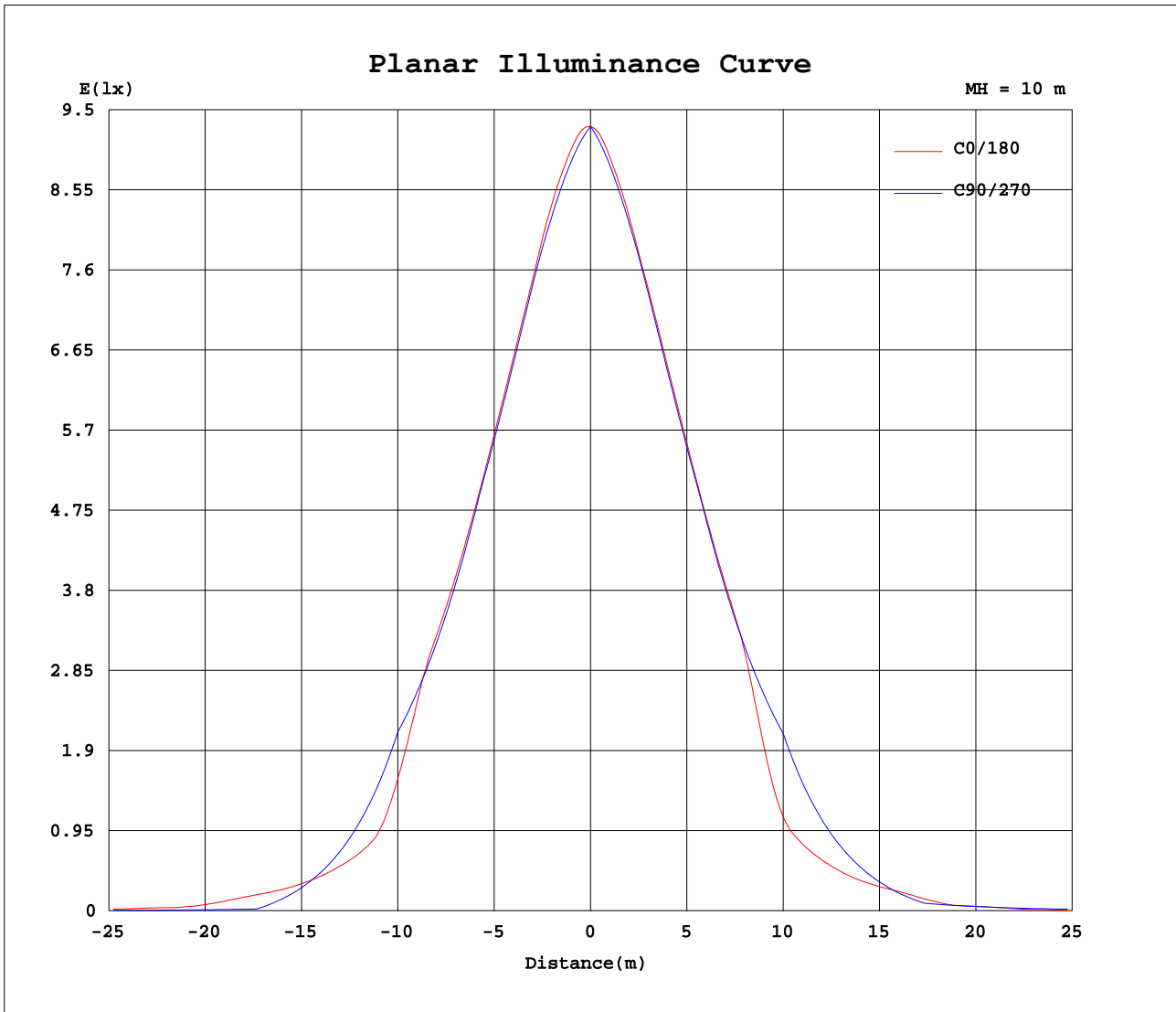
Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:27.3DEG  
Operators:QC  
Test Date:2019-03-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:10.382m [K=1.0000]  
Remarks:



### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 27.3DEG  
Operators: QC  
Test Date: 2019-03-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 10.382m [K=1.0000]  
Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1639A P:19.41W PF:0.9864 Lamp Flux:1731.83x1 lm		
NAME: ASD-LSR-2030-AP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930
5	920	918	916	915	913	912	911	911	910	909	908	908	907	907	907	906	906	906	906
10	896	893	891	888	887	885	884	882	882	881	881	881	881	881	881	881	881	881	881
15	865	862	860	858	857	856	856	855	855	855	856	856	856	856	856	856	856	856	856
20	832	828	826	825	824	824	826	827	829	830	830	828	827	826	825	824	824	824	823
25	800	796	794	793	794	795	797	800	797	795	794	793	793	792	792	792	791	791	791
30	764	760	758	758	759	763	763	760	758	757	757	757	758	759	759	759	759	759	758
35	721	716	715	716	720	713	707	712	715	716	718	721	703	693	691	694	699	703	705
40	668	642	630	639	646	603	588	604	641	655	620	591	578	582	596	615	633	646	653
45	443	413	401	406	424	422	404	417	468	492	478	447	435	453	487	527	562	588	600
50	263	260	262	266	269	281	274	277	312	336	330	304	290	312	344	370	389	400	406
55	203	199	202	203	207	217	218	217	224	230	215	201	187	186	197	205	210	211	212
60	153	151	151	151	150	144	169	166	151	140	125	108	91.8	76.3	63.8	48.9	34.8	23.3	17.6
65	52.3	49.1	54.0	53.0	72.5	55.4	85.0	101	75.2	57.6	37.9	23.5	24.8	23.5	20.5	17.5	16.0	14.3	12.7
70	22.4	22.4	22.0	19.7	15.8	16.9	22.1	27.4	11.3	12.8	13.1	14.9	15.6	14.8	12.8	10.8	9.69	8.73	7.77
75	12.1	11.9	11.1	10.2	9.09	7.95	7.07	6.78	6.84	7.30	7.12	7.12	6.75	5.80	4.67	3.82	3.34	3.06	2.87
80	3.34	3.10	3.14	3.92	4.83	4.91	4.41	3.99	3.38	2.60	1.97	1.45	1.03	0.68	0.41	0.22	0.09	0.02	0.00
85	1.23	1.15	1.32	1.57	2.02	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:27.3DEG  
 Operators:QC  
 Test Date:2019-03-18

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:10.382m [K=1.0000]  
 Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1639A P:19.41W PF:0.9864 Lamp Flux:1731.83x1 lm		
NAME: ASD-LSR-2030-AP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930
5	905	905	905	905	905	904	904	904	904	905	905	905	906	907	908	909	910	912	910
10	880	880	880	879	878	877	876	875	875	874	874	874	875	875	876	878	880	882	879
15	856	856	856	855	854	852	851	849	848	846	845	844	843	843	843	844	846	849	845
20	823	823	823	823	822	822	822	823	822	820	817	815	814	813	813	814	816	818	814
25	790	790	788	787	786	785	784	784	785	787	790	786	784	782	781	781	783	786	782
30	757	756	754	752	750	747	746	745	745	746	748	751	751	747	745	745	746	749	744
35	706	705	704	700	696	697	707	704	702	701	699	696	701	707	702	699	700	704	697
40	654	653	648	632	612	595	591	606	641	634	593	571	582	610	591	571	571	589	570
45	602	601	588	553	506	463	441	455	474	449	389	368	375	358	328	311	308	314	311
50	410	418	419	400	361	310	276	298	304	278	244	243	242	234	232	232	230	233	230
55	215	224	229	224	205	178	173	179	191	186	170	164	170	163	168	183	178	179	180
60	19.8	30.1	45.7	61.1	70.5	74.5	86.4	100	114	109	77.8	71.4	80.4	83.0	95.2	116	110	114	108
65	11.7	11.4	11.3	11.3	11.3	11.5	11.4	26.2	42.5	42.5	26.5	19.2	26.8	26.6	24.6	31.6	37.4	47.1	47.3
70	7.15	6.94	6.96	7.03	7.17	7.47	7.48	7.23	7.17	6.82	9.45	10.2	9.54	9.71	10.4	11.9	13.4	14.2	14.9
75	2.65	2.54	2.62	2.80	3.09	3.53	3.93	4.18	4.46	4.62	5.06	5.24	5.65	5.69	5.95	6.79	6.94	5.47	7.62
80	0.02	0.07	0.15	0.26	0.41	0.61	0.94	1.33	1.88	2.60	3.19	3.45	3.51	3.21	2.27	2.02	1.91	1.97	2.13
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	1.23	0.94	0.71	0.47	0.49	0.68
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:27.3DEG  
 Operators:QC  
 Test Date:2019-03-18

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:10.382m [K=1.0000]  
 Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1639A P:19.41W PF:0.9864 Lamp Flux:1731.83x1 lm		
NAME: ASD-LSR-2030-AP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--3

UNIT: cd

C (DEG) \ γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930
5	908	907	905	904	903	902	902	901	901	901	901	901	901	901	901	901	901	902	902
10	877	874	873	871	870	870	869	869	869	869	870	870	871	871	872	872	873	874	874
15	842	840	839	838	838	838	839	840	840	841	842	842	843	843	843	844	844	845	846
20	811	809	808	808	808	809	810	812	812	811	810	810	809	810	810	811	811	812	814
25	778	777	776	777	778	781	777	775	773	773	773	774	774	775	776	777	779	780	781
30	740	739	740	742	741	737	734	733	733	733	735	737	739	740	742	744	746	748	749
35	695	695	697	690	684	687	688	688	690	693	685	684	688	691	692	693	695	697	699
40	569	586	602	575	562	583	619	627	595	580	585	603	624	636	640	642	645	647	648
45	315	333	359	377	371	386	444	469	452	437	458	501	547	579	588	592	595	596	596
50	234	238	239	244	248	253	282	308	304	284	315	375	422	443	438	428	420	418	422
55	184	186	189	186	187	198	201	201	194	193	211	253	284	294	281	262	246	235	236
60	120	107	127	129	106	136	141	128	117	113	125	150	160	150	126	98.1	72.3	52.7	49.6
65	51.0	56.5	45.5	59.1	59.1	58.2	71.9	58.6	44.2	39.0	60.3	84.2	95.0	92.6	81.4	66.3	50.0	34.2	26.0
70	15.5	16.8	17.6	19.5	29.5	20.7	16.7	17.9	19.9	23.1	32.8	46.6	52.9	51.2	44.6	36.3	27.7	19.6	15.9
75	8.60	9.32	9.76	10.0	9.94	10.4	11.0	11.1	10.8	10.7	12.0	13.2	11.9	9.23	6.97	5.70	5.37	5.43	5.62
80	2.54	3.47	6.12	6.78	7.05	7.08	6.62	4.80	3.19	2.11	1.52	0.96	0.62	0.35	0.16	0.04	0.00	0.04	0.16
85	1.08	1.55	2.86	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:27.3DEG  
 Operators:QC  
 Test Date:2019-03-18

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:10.382m [K=1.0000]  
 Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1639A P:19.41W PF:0.9864 Lamp Flux:1731.83x1 lm		
NAME: ASD-LSR-2030-AP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--4

UNIT: cd

C (DEG) \ γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930				
5	903	903	904	904	905	906	907	908	909	910	911	912	914	916	918				
10	874	875	875	876	876	877	877	878	880	881	883	885	887	890	893				
15	846	848	848	849	849	850	851	851	852	853	854	855	856	859	862				
20	815	816	818	820	822	824	825	824	823	822	822	822	823	825	828				
25	783	784	785	786	788	789	791	793	795	793	791	791	791	792	795				
30	751	751	752	753	753	753	752	753	755	758	758	755	755	756	759				
35	702	705	708	712	717	714	712	710	710	711	714	715	713	713	715				
40	649	650	651	652	647	646	658	662	659	654	647	659	663	658	659				
45	596	594	592	580	550	525	523	551	567	517	497	488	480	446	433				
50	437	457	478	470	418	365	354	371	351	300	283	273	261	258	257				
55	253	276	298	291	254	208	194	213	205	194	189	183	184	193	193				
60	69.7	97.4	125	133	124	115	119	130	140	123	108	98.2	94.7	110	126				
65	29.5	34.6	38.1	33.6	31.2	41.6	53.8	68.5	71.3	50.8	43.8	34.4	35.9	42.8	50.8				
70	18.0	21.1	23.2	20.5	19.9	18.4	16.0	15.9	23.6	22.0	17.9	16.1	16.5	18.1	19.8				
75	6.15	7.19	8.45	8.76	9.45	9.50	9.31	10.2	10.6	10.0	9.75	9.00	9.00	10.1	11.0				
80	0.34	0.59	0.92	1.32	1.85	2.48	3.41	5.02	6.41	6.68	6.41	5.90	6.00	5.53	4.04				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.62	3.22	2.47	1.75	1.39				
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:27.3DEG  
 Operators:QC  
 Test Date:2019-03-18

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:10.382m [K=1.0000]  
 Remarks:







Photometric Data Table [cd]

Table with 11 columns of photometric data values ranging from 0 to 195.0 across various G/C and angle ranges.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 27.3DEG
Operators: QC
Test Date: 2019-03-18

gamma Range: 0 - 90DEG
gamma Interval: 0.5DEG
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 10.382m [K=1.0000]
Remarks:





Photometric Data Table [cd]

72.5	32.27	30.25	25.89	21.06	16.52	12.44	10.75	12.13	14.22	15.74
75.0	11.93	9.231	6.973	5.703	5.372	5.429	5.623	6.153	7.190	8.449
77.5	3.233	2.989	2.857	2.733	2.686	2.687	2.779	2.908	3.094	3.412
80.0	0.6187	0.3523	0.1606	0.0402	0	0.0395	0.1562	0.3427	0.5920	0.9181
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	300.0	305.0	310.0	315.0	320.0	325.0	330.0	335.0	340.0	345.0
0.0	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4
2.5	918.0	918.5	919.0	919.7	920.5	921.3	922.1	923.0	924.0	925.1
5.0	904.2	905.0	905.7	906.5	907.5	908.6	909.7	910.9	912.4	914.0
7.5	889.9	890.4	891.0	891.8	892.7	893.8	895.0	896.5	898.2	900.3
10.0	875.6	876.0	876.5	877.3	878.3	879.5	881.0	882.8	884.9	887.2
12.5	861.8	862.3	863.0	863.7	864.7	865.9	867.0	868.6	870.5	872.8
15.0	848.9	849.4	850.0	850.5	851.1	851.8	852.8	853.6	854.8	856.5
17.5	836.0	837.2	837.3	837.6	837.6	837.4	837.3	837.4	838.0	839.2
20.0	819.7	821.5	823.8	824.8	824.1	823.2	822.4	822.0	822.3	823.3
22.5	803.0	804.7	806.5	808.9	811.2	809.4	807.7	806.6	806.4	807.0
25.0	786.4	787.7	789.2	790.7	792.6	795.1	792.8	791.2	790.6	790.9
27.5	769.5	770.3	771.1	771.8	773.1	775.4	777.7	775.3	773.9	773.6
30.0	752.6	752.9	752.6	752.4	753.2	754.9	758.0	757.7	755.5	754.7
32.5	735.6	734.9	733.5	732.6	732.3	733.1	734.8	738.9	735.9	734.4
35.0	712.5	716.7	714.2	712.1	710.4	709.5	710.6	714.0	715.1	712.6
37.5	682.7	685.0	690.9	690.6	687.1	684.9	684.7	686.8	692.7	689.1
40.0	651.8	647.4	645.7	658.4	662.5	658.6	654.2	646.9	659.1	662.5
42.5	618.3	603.1	590.8	596.4	627.0	626.9	599.2	585.7	600.2	599.3
45.0	579.9	549.9	525.4	523.5	550.9	567.3	516.6	496.7	488.1	480.0
47.5	535.2	488.7	449.5	441.2	465.4	456.6	409.9	379.0	367.2	349.3
50.0	469.6	417.8	365.3	354.2	371.2	350.6	299.7	283.3	273.1	261.0
52.5	377.8	333.9	273.8	270.7	284.2	265.6	231.4	225.8	220.2	221.9
55.0	290.6	254.0	208.0	193.7	213.2	204.9	193.9	188.5	183.5	184.4
57.5	209.4	184.8	156.0	154.9	162.2	167.7	160.1	150.0	143.3	141.7
60.0	133.4	124.2	114.5	119.1	129.7	139.6	122.7	108.5	98.24	94.74
62.5	63.24	71.93	76.77	85.78	98.31	104.4	82.64	71.42	58.75	56.90
65.0	33.59	31.22	41.63	53.85	68.50	71.28	50.79	43.84	34.37	35.94
67.5	26.83	25.47	23.35	22.95	39.52	43.92	32.73	26.04	23.52	23.48
70.0	20.50	19.88	18.38	15.95	15.86	23.63	21.98	17.91	16.06	16.47
72.5	14.54	14.55	13.73	12.48	12.95	12.96	14.39	13.08	11.32	11.89
75.0	8.759	9.447	9.497	9.305	10.17	10.57	10.03	9.755	9.005	9.002
77.5	3.821	4.525	5.549	6.313	7.524	8.399	8.221	7.695	7.176	7.337
80.0	1.317	1.845	2.481	3.407	5.019	6.408	6.684	6.414	5.899	6.001
82.5	0	0	0	0.4685	1.527	3.203	5.097	5.288	4.775	4.291
85.0	0	0	0	0	0	0	0	1.620	3.220	2.467
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	350.0	355.0								
0.0	930.4	930.4								
2.5	926.2	927.3								
5.0	915.8	917.8								
7.5	902.7	905.3								
10.0	890.0	893.0								
12.5	875.5	878.8								
15.0	858.7	861.7								
17.5	841.2	843.9								
20.0	825.1	827.8								
22.5	808.7	811.6								
25.0	792.5	795.4								
27.5	774.8	777.9								
30.0	755.8	759.0								
32.5	735.2	738.0								
35.0	712.5	715.2								
37.5	688.6	691.0								
40.0	658.0	658.8								
42.5	574.7	566.4								
45.0	446.5	432.9								
47.5	320.2	309.6								
50.0	257.9	257.3								
52.5	225.8	225.8								
55.0	192.8	193.1								
57.5	153.5	158.3								
60.0	110.3	126.1								
62.5	73.06	85.42								

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 27.3DEG  
 Operators: QC  
 Test Date: 2019-03-18

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 10.382m [K=1.0000]  
 Remarks:



Photometric Data Table [cd]

65.0	42.84	50.81
67.5	30.61	33.77
70.0	18.06	19.79
72.5	12.77	14.16
75.0	10.12	11.00
77.5	8.138	8.690
80.0	5.534	4.042
82.5	3.088	2.297
85.0	1.750	1.390
87.5	0.9055	0.7792
90.0	0	0

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:27.3DEG  
Operators:QC  
Test Date:2019-03-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:10.382m [K=1.0000]  
Remarks: