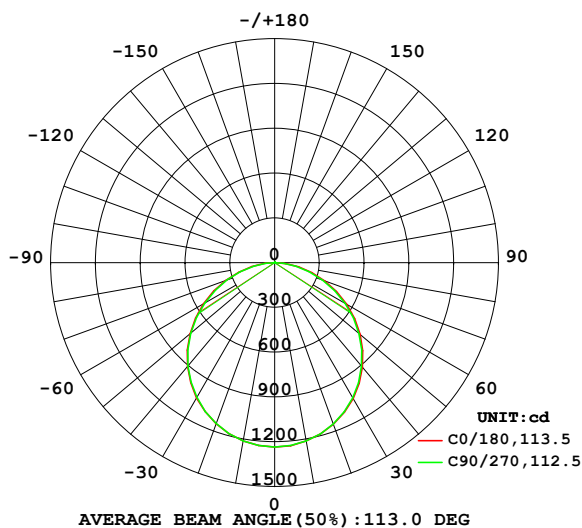


LUMINAIRE PHOTOMETRIC TEST REPORT

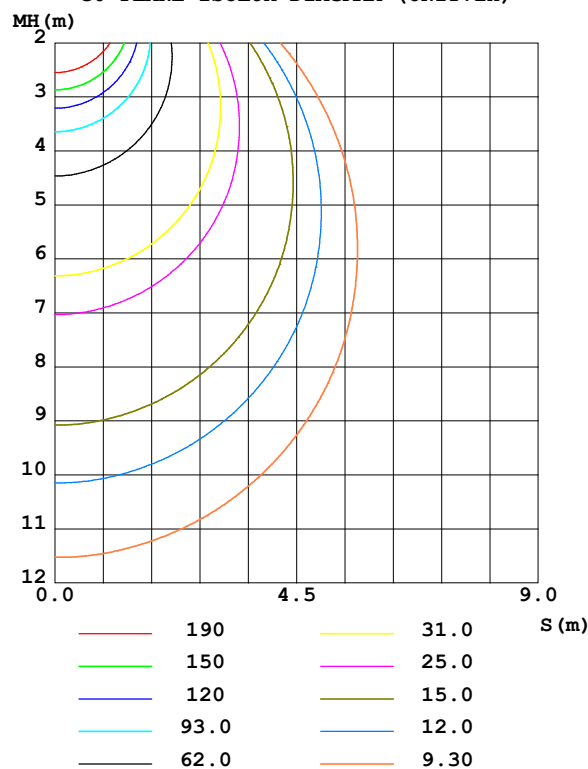
Test:U:276.92V I:0.1052A P:28.351W PF:0.9733 Freq:60.01Hz Lamp Flux:3573.82x1 lm		
NAME: ASD-BLP-22A30-8EM		
SPEC.: 5000K		
MFR.: ASD Lighting Corp		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 126.06 lm/W
MODEL	ASD-BLP-22A30-8EM	I _{max} (cd)	1236	S/MH(C0/180)	1.26	
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.25	
RATED VOLTAGE(V)	277	TOTAL FLUX(lm)	3573.8	η UP,DN(C0-180)	0.0,50.1	
NOMINAL FLUX(lm)	3573.82	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.9	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	277	η down(%)	100.0	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2023-12-19

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity: 65.0%
Test Distance: 26.000m [K=1.2780]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1214	1213	1214	1213	1212	1212	1212	1212	0- 10	116.8	116.8	3.27,3.27
20	1152	1149	1151	1147	1149	1150	1147	1150	10- 20	334.8	451.7	12.6,12.6
30	1052	1050	1046	1046	1048	1046	1041	1047	20- 30	508.3	959.9	26.9,26.9
40	914.7	911.4	906.7	906.6	908.4	904.9	903.8	909.3	30- 40	614.2	1574	44,44
50	749.5	742.9	738.4	737.8	740.2	735.4	733.9	739.8	40- 50	638.1	2212	61.9,61.9
60	558.2	552.4	546.4	547.8	550.7	546.6	541.3	549.5	50- 60	577.9	2790	78.1,78.1
70	357.5	349.5	340.5	344.2	348.8	344.0	337.5	348.3	60- 70	443.6	3234	90.5,90.5
80	163.4	156.3	144.3	150.0	154.9	150.9	143.4	155.2	70- 80	261.8	3495	97.8,97.8
90	2.237	1.403	1.099	1.168	0.1559	0.1167	0	0.9497	80- 90	77.98	3573	100,100
100	0.1571	0.0782	0.0793	0	0	0	0	0	90-100	0.3511	3574	100,100
110	0	0	0	0	0	0	0	0	100-110	0.0105	3574	100,100
120	0	0	0	0	0	0	0	0	110-120	0	3574	100,100
130	0	0	0	0	0	0	0	0	120-130	0	3574	100,100
140	0	0	0	0	0	0	0	0	130-140	0.0038	3574	100,100
150	0	0	0	0	0	0	0	0	140-150	0	3574	100,100
160	0	0	0	0	0	0	0	0	150-160	0	3574	100,100
170	0	0	0	0	0	0	0	0	160-170	0	3574	100,100
180	0	0	0	0	0	0	0	0	170-180	0	3574	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2023-12-19

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 γ Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity:65.0%
 Test Distance:26.000m [K=1.2780]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:276.92V I:0.1052A P:28.351W PF:0.9733 Freq:60.01Hz

Lamp Flux:3573.82x1 lm

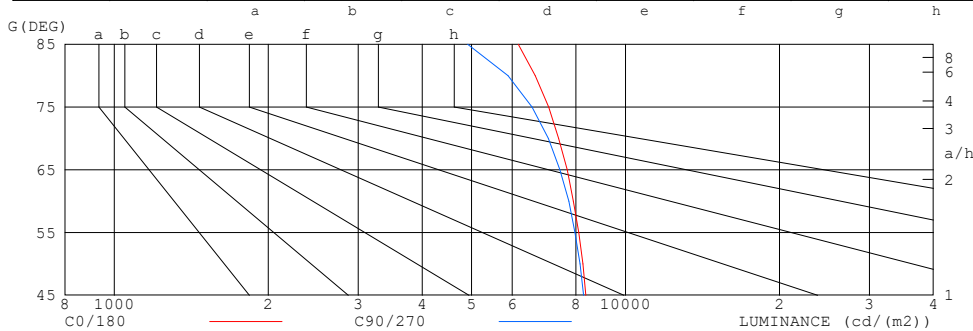
NAME: ASD-BLP-22A30-8EM

SPEC.: 5000K

MFR.: ASD Lighting Corp

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6168	4910
80	6663	5891
75	7074	6559
70	7402	7059
65	7686	7443
60	7907	7747
55	8104	7967
50	8258	8144
45	8364	8283

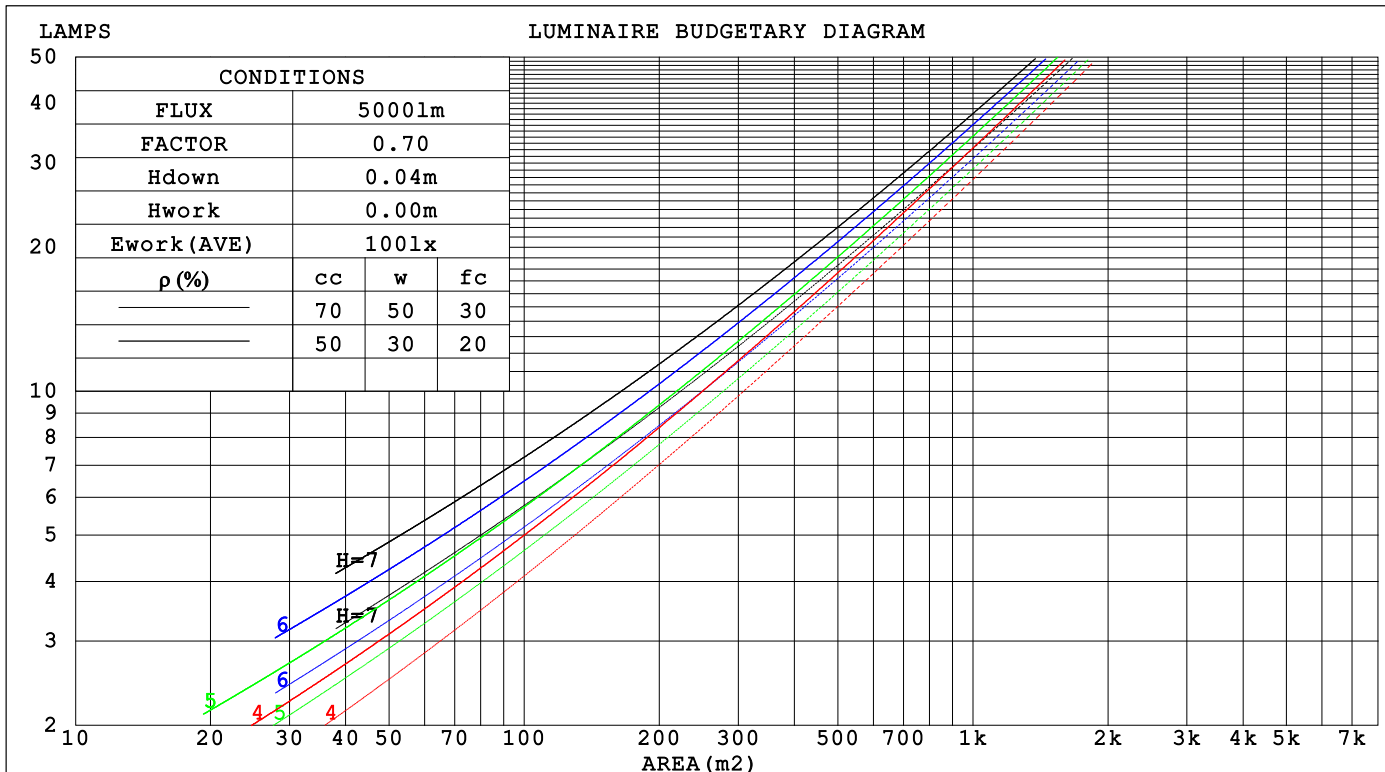
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-12-19

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2780]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:276.92V I:0.1052A P:28.351W PF:0.9733 Freq:60.01Hz		
Lamp Flux:3573.82x1 lm		
NAME: ASD-BLP-22A30-8EM		
SPEC.: 5000K		
MFR.: ASD Lighting Corp		

pcc	80%			70%			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															



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-12-19

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2780]
Remarks:

WEC AND CCEC

Test:U:276.92V I:0.1052A P:28.351W PF:0.9733 Freq:60.01Hz		
Lamp Flux:3573.82x1 lm		
NAME: ASD-BLP-22A30-8EM		
SPEC.: 5000K		
MFR.: ASD Lighting Corp		

pcc	80%			70%			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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.315	.179	.057	.308	.176	.056	.294	.169	.054	.282	.163	.052	.271	.157	.051		
2.0	.295	.162	.050	.289	.159	.049	.277	.154	.048	.266	.149	.047	.256	.145	.046		
3.0	.272	.145	.043	.267	.143	.043	.256	.139	.042	.247	.135	.041	.238	.132	.041		
4.0	.251	.130	.038	.246	.129	.038	.237	.126	.038	.228	.123	.037	.220	.120	.036		
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.034	.212	.112	.033	.205	.109	.033		
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030		
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027		
8.0	.186	.091	.026	.183	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025		
9.0	.175	.084	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023		
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.021		

pcc	80%			70%			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						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.181	.156	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.020	.017	.015		
2.0	.173	.132	.098	.148	.114	.084	.101	.079	.059	.058	.046	.035	.019	.015	.011		
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009		
4.0	.157	.101	.058	.135	.087	.050	.093	.061	.036	.054	.036	.021	.017	.012	.007		
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.011	.006		
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005		
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004		
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003		
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003		
10.0	.118	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-12-19

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2780]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:276.92V I:0.1052A P:28.351W PF:0.9733 Freq:60.01Hz		
Lamp Flux:3573.82x1 lm		
NAME: ASD-BLP-22A30-8EM		
SPEC.: 5000K		
MFR.: ASD Lighting Corp		

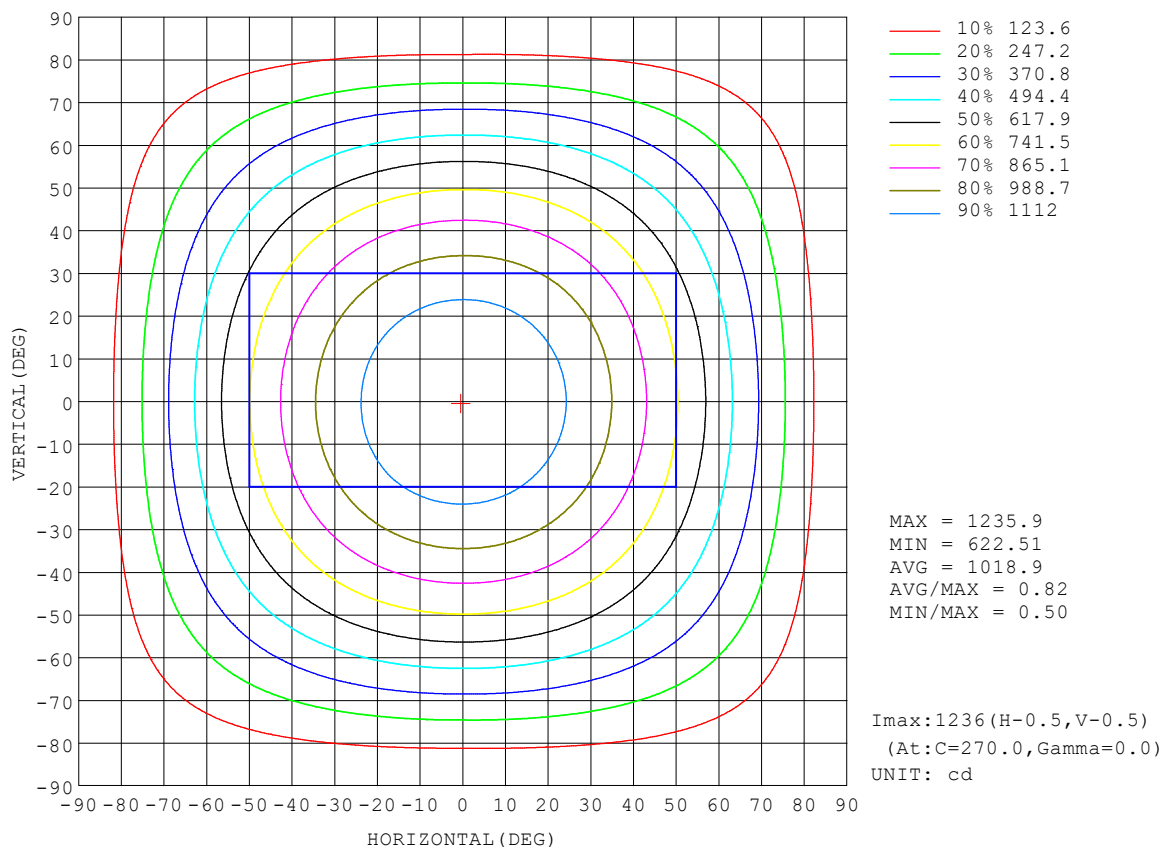
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	56	45	38	55	45	38	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	79	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	83	77	69
2.50	99	91	85	97	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	78
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	104	99	106	102	98	101	98	95	86
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2023-12-19

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity: 65.0%
Test Distance: 26.000m [K=1.2780]
Remarks:

ISOCANDELA DIAGRAM

Test:U:276.92V I:0.1052A P:28.351W PF:0.9733 Freq:60.01Hz Lamp Flux:3573.82x1 lm		
NAME: ASD-BLP-22A30-8EM		
SPEC.: 5000K		
MFR.: ASD Lighting Corp		

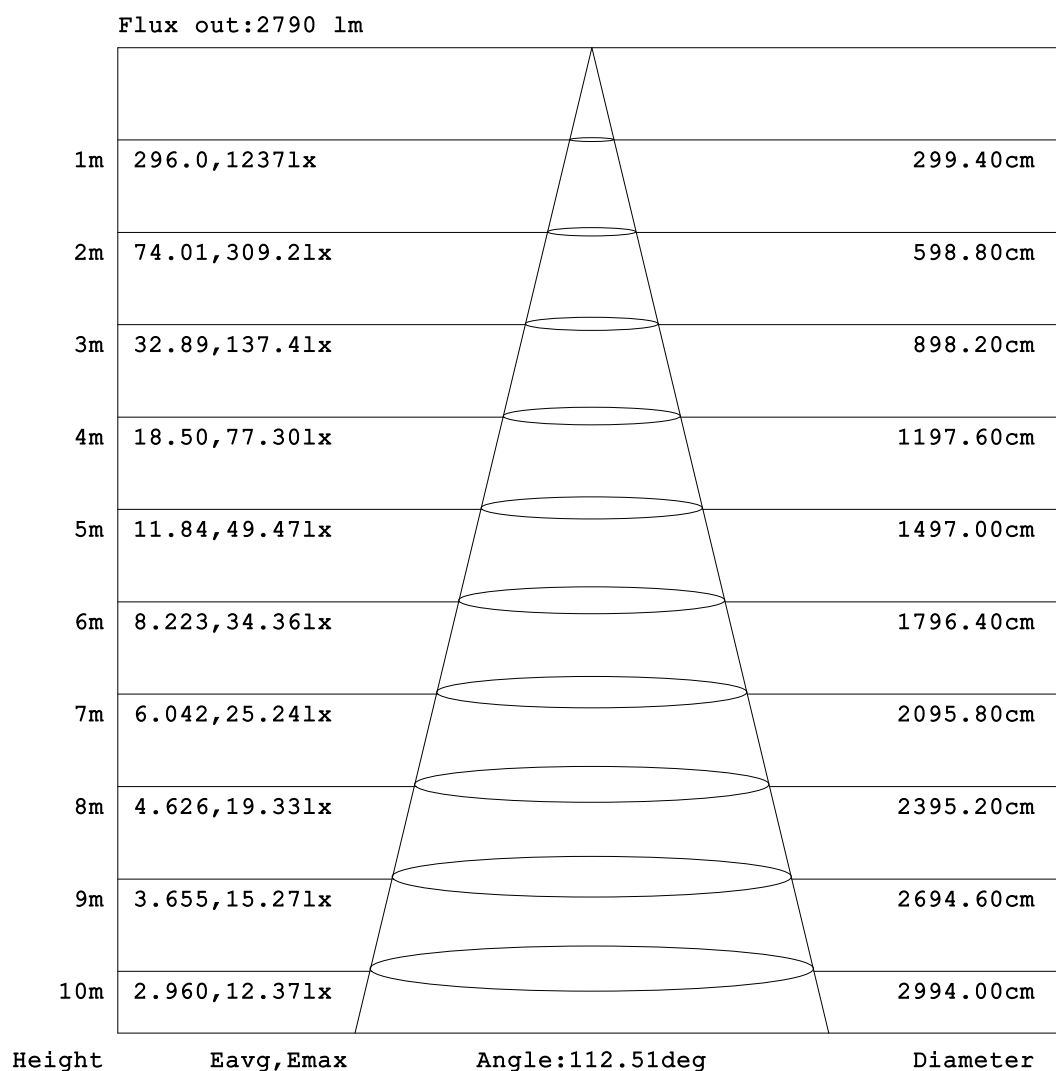


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-12-19

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2780]
Remarks:

AAI Figure

Test:U:276.92V I:0.1052A P:28.351W PF:0.9733 Freq:60.01Hz Lamp Flux:3573.82x1 lm		
NAME: ASD-BLP-22A30-8EM		
SPEC.: 5000K		
MFR.: ASD Lighting Corp		



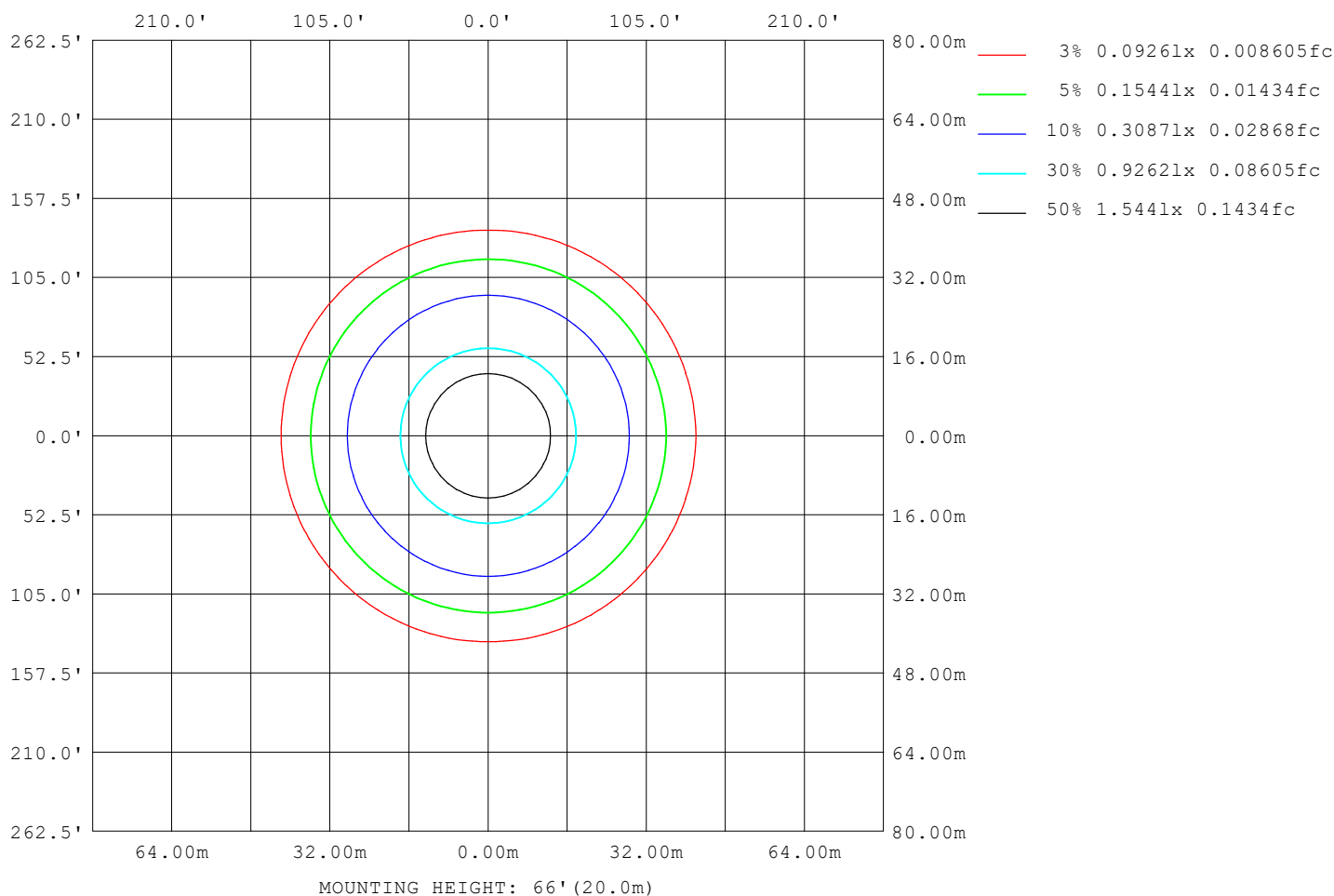
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-12-19

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2780]
Remarks:

ISOLUX DIAGRAM

Test:U:276.92V I:0.1052A P:28.351W PF:0.9733 Freq:60.01Hz		
Lamp Flux:3573.82x1 lm		
NAME: ASD-BLP-22A30-8EM		
SPEC.: 5000K		
MFR.: ASD Lighting Corp		



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2023-12-19

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2780]
Remarks:

LED Avg.L Report

Test:U:276.92V I:0.1052A P:28.351W PF:0.9733 Freq:60.01Hz Lamp Flux:3573.82x1 lm		
NAME: ASD-BLP-22A30-8EM		
SPEC.: 5000K		
MFR.: ASD Lighting Corp		

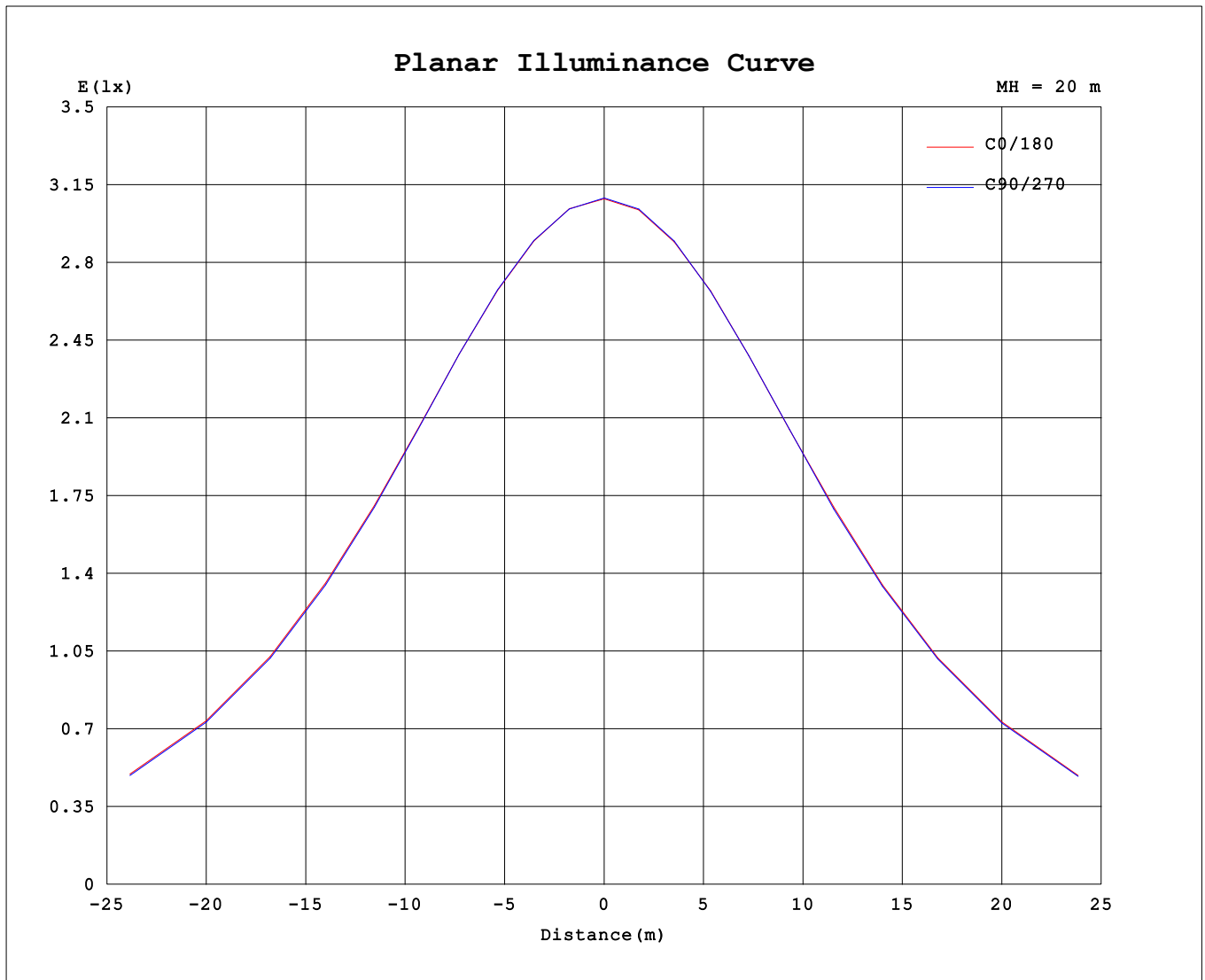
AvgL	cd/m2
L_0~180 (65) av	7628
L_0~180 (75) av	6959
L_0~180 (85) av	5878
L_90~270 (65) av	7406
L_90~270 (75) av	6528
L_90~270 (85) av	4925
L_45 (65) av	7512
L_45 (75) av	6768
L_45 (85) av	5435

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-12-19

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2780]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2023-12-19

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity: 65.0%
Test Distance: 26.000m [K=1.2780]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:276.92V I:0.1052A P:28.351W PF:0.9733 Freq:60.01Hz		
Lamp Flux:3573.82x1 lm		
NAME: ASD-BLP-22A30-8EM		
SPEC.: 5000K		
MFR.: ASD Lighting Corp		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	1236	1236	1236	1236	1236	1236	1236	1236										
5	1231	1231	1230	1229	1230	1229	1230	1228										
10	1214	1213	1214	1213	1212	1212	1212	1212										
15	1188	1186	1188	1184	1187	1188	1185	1185										
20	1152	1149	1151	1147	1149	1150	1147	1150										
25	1106	1104	1103	1105	1101	1101	1101	1101										
30	1052	1050	1046	1046	1048	1046	1041	1047										
35	988	985	982	981	982	978	976	984										
40	915	911	907	907	908	905	904	909										
45	835	831	826	826	828	824	822	828										
50	750	743	738	738	740	735	734	740										
55	656	650	645	644	647	644	641	646										
60	558	552	546	548	551	547	541	550										
65	459	452	444	446	451	445	440	449										
70	357	350	341	344	349	344	338	348										
75	259	251	239	245	250	245	237	249										
80	163	156	144	150	155	151	143	155										
85	75.9	69.4	60.4	63.6	68.7	64.7	60.8	69.7										
90	2.24	1.40	1.10	1.17	0.16	0.12	0.00	0.95										
95	0.40	0.39	0.32	0.31	0.00	0.00	0.00	0.00										
100	0.16	0.08	0.08	0.00	0.00	0.00	0.00	0.00										
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08										
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-12-19

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2780]
Remarks: