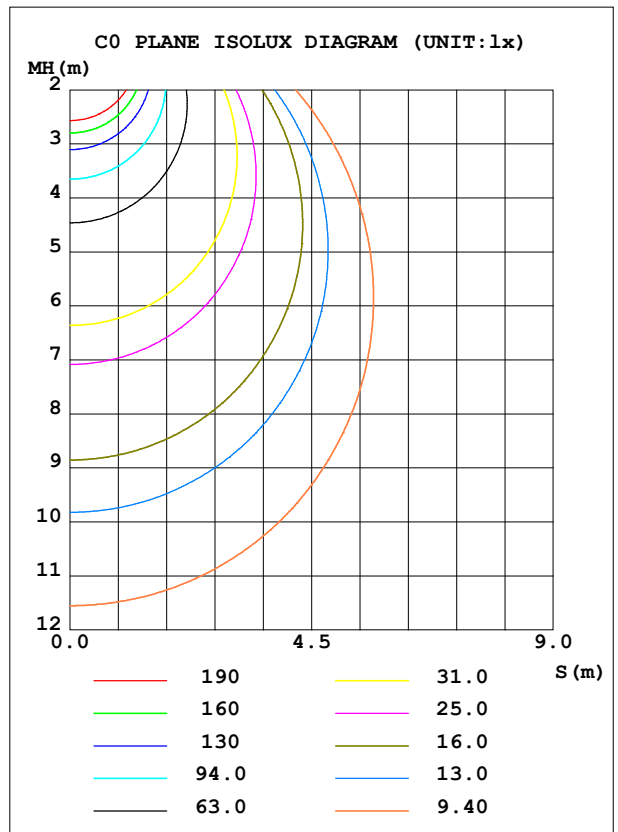
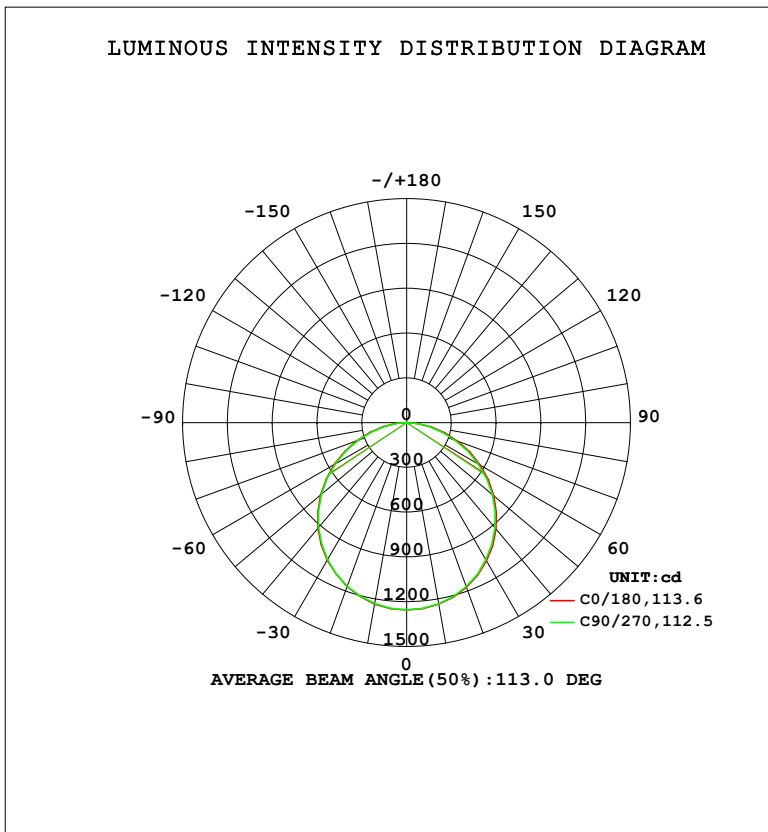


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.98V I:0.2392A P:28.579W PF:0.9959 Freq:60.01Hz		
Lamp Flux:3633.14x1 lm		
NAME:	ASD-BLP-22A30	
MFR.:	ASD Lighting Corp	

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	ASD-BLP-22A30	I _{max} (cd)	1255	S/MH (C0/180)	1.26
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	3633.1	η UP, DN (C0-180)	0.0, 50.1
NOMINAL FLUX (lm)	3633.14	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX	1.35



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:

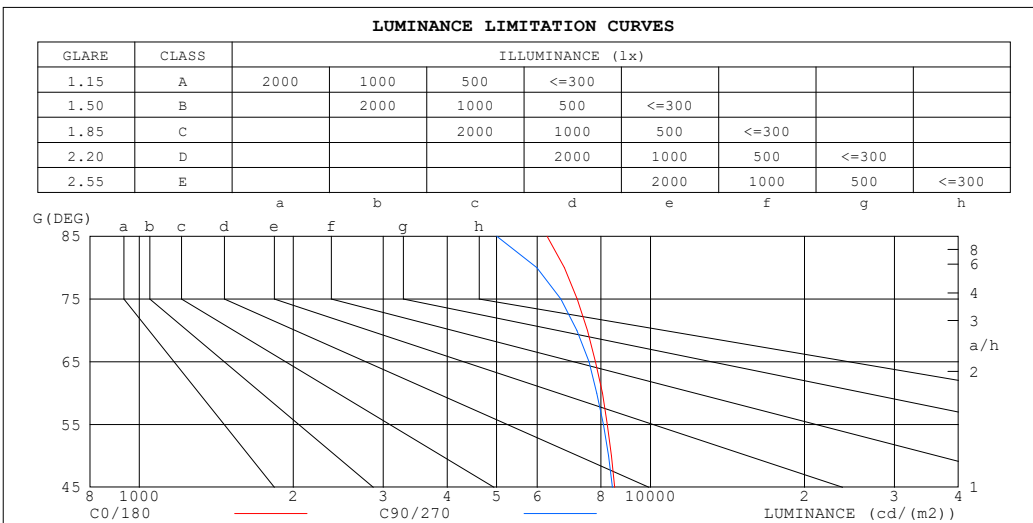
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1235	1233	1233	1232	1234	1234	1230	1234	0- 10	118.8	118.8	3.27,3.27
20	1174	1171	1168	1168	1168	1166	1166	1169	10- 20	340.4	459.2	12.6,12.6
30	1069	1067	1061	1062	1064	1063	1059	1063	20- 30	516.6	975.8	26.9,26.9
40	931.1	926.5	921.7	922.4	923.6	921.1	918.3	922.5	30- 40	624.2	1600	44,44
50	761.7	755.1	750.6	751.7	753.5	749.0	746.1	752.8	40- 50	648.9	2249	61.9,61.9
60	568.3	562.3	553.7	556.6	559.8	554.6	550.8	558.6	50- 60	587.6	2836	78.1,78.1
70	363.7	356.2	346.4	350.1	355.6	349.4	343.5	353.8	60- 70	451.0	3287	90.5,90.5
80	166.3	159.2	146.7	152.7	157.9	152.3	145.4	157.4	70- 80	266.1	3554	97.8,97.8
90	2.387	1.413	1.100	1.254	0.1559	0	0	0.7802	80- 90	79.21	3633	100,100
100	0.1571	0.0781	0	0	0	0	0	0	90-100	0.3578	3633	100,100
110	0	0	0	0	0	0	0	0	100-110	0.0079	3633	100,100
120	0	0	0	0	0	0	0	0	110-120	0	3633	100,100
130	0	0	0	0	0	0	0	0	120-130	0	3633	100,100
140	0	0	0	0	0	0	0	0	130-140	0	3633	100,100
150	0	0	0	0	0	0	0	0	140-150	0	3633	100,100
160	0	0	0	0	0	0	0	0	150-160	0	3633	100,100
170	0	0	0	0	0	0	0	0	160-170	0	3633	100,100
180	0	0	0	0	0	0	0	0	170-180	0	3633	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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:

LUMINANCE LIMITATION CURVES

Test:U:119.98V I:0.2392A P:28.579W PF:0.9959 Freq:60.01Hz Lamp Flux:3633.14x1 lm		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6274	5004
80	6781	5992
75	7182	6676
70	7529	7180
65	7804	7582
60	8049	7852
55	8236	8091
50	8391	8280
45	8512	8417

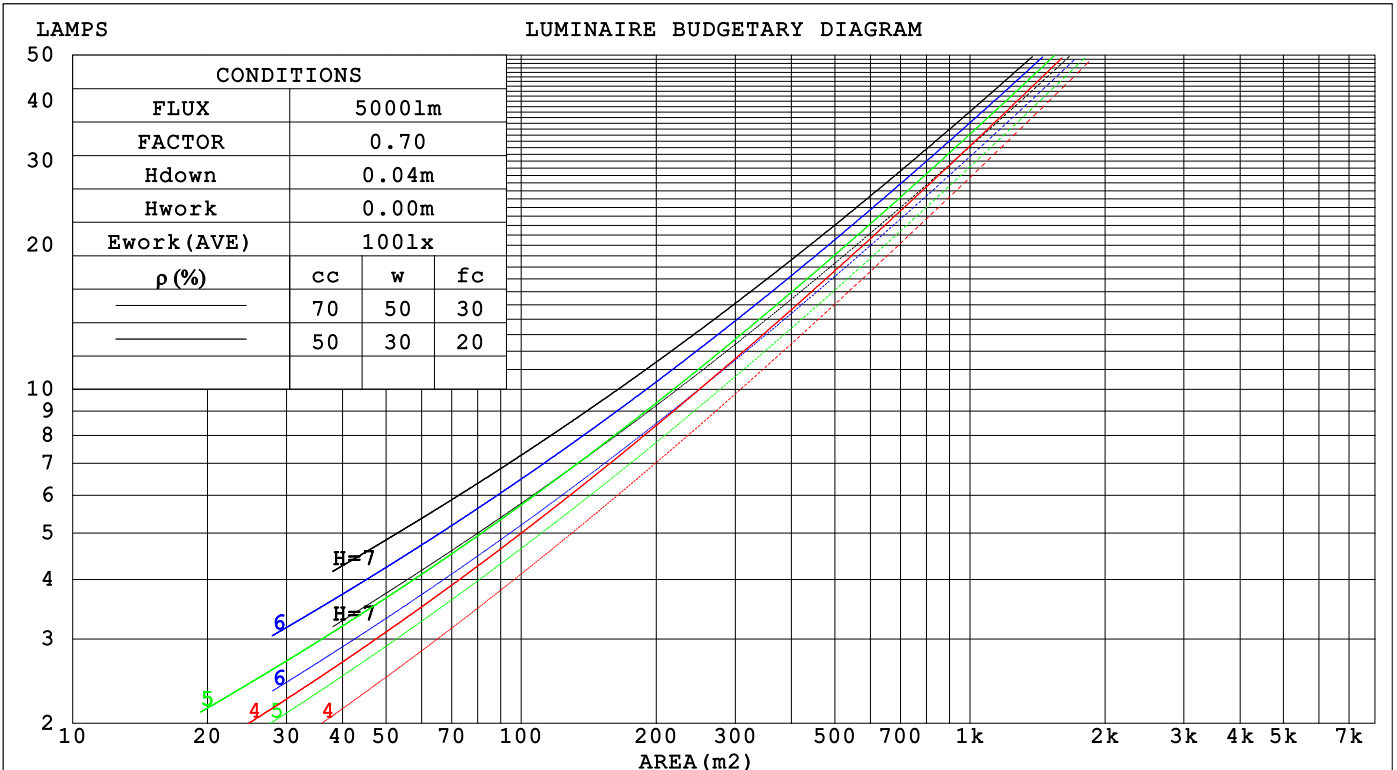
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-19

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.98V I:0.2392A P:28.579W PF:0.9959 Freq:60.01Hz																
Lamp Flux:3633.14x1 lm																

ρcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρw																
ρfc																
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	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.90	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.52	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.52	.46	.57	.50	.45	.55	.49	.45	.43
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.46	.40	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.28	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



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:

WEC AND CCEC

Test:U:119.98V I:0.2392A P:28.579W PF:0.9959 Freq:60.01Hz																
Lamp Flux:3633.14x1 lm																

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0																
1.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
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°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:

UTILIZATION FACTORS TABLE

Test:U:119.98V I:0.2392A P:28.579W PF:0.9959 Freq:60.01Hz Lamp Flux:3633.14x1 lm										

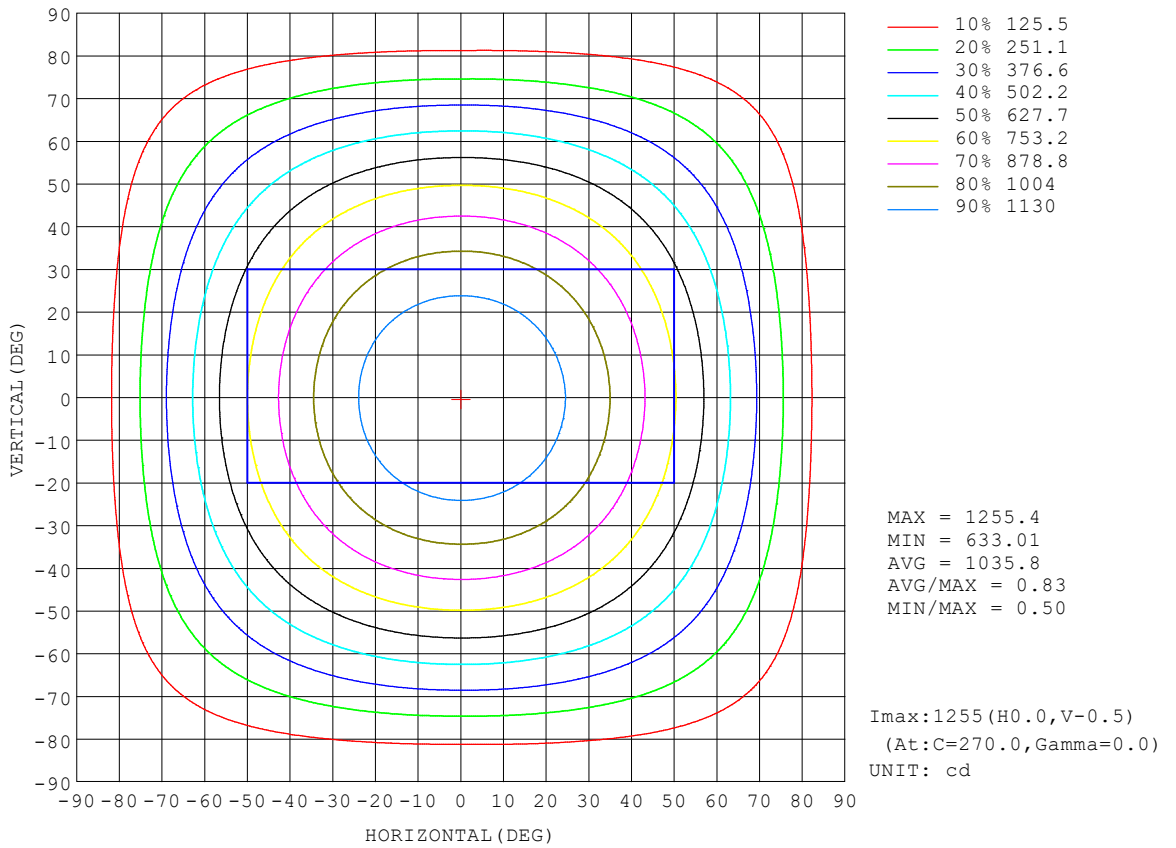
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	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:119.98V I:0.2392A P:28.579W PF:0.9959 Freq:60.01Hz Lamp Flux:3633.14x1 lm		

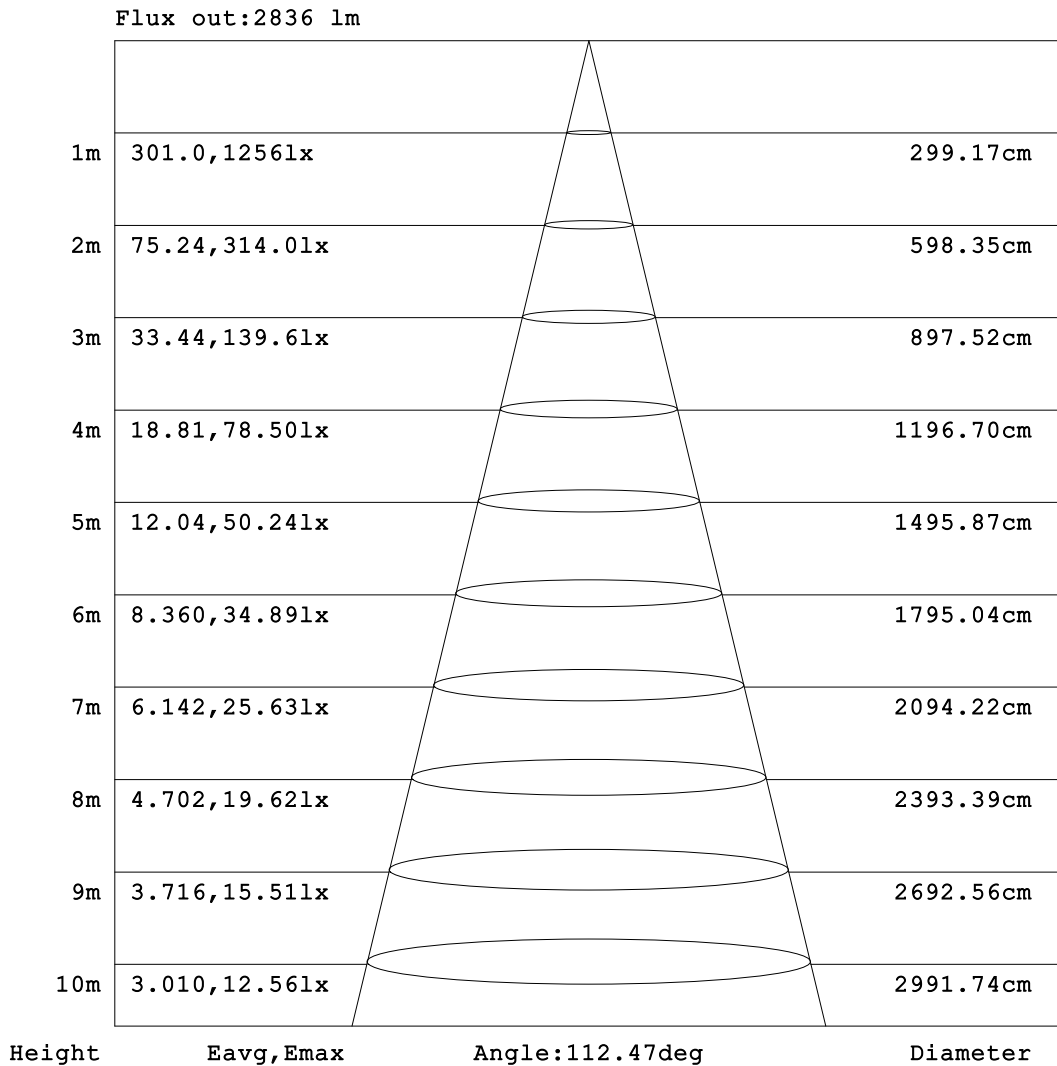


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-19

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:

AAI Figure

Test:U:119.98V I:0.2392A P:28.579W PF:0.9959 Freq:60.01Hz Lamp Flux:3633.14x1 lm		



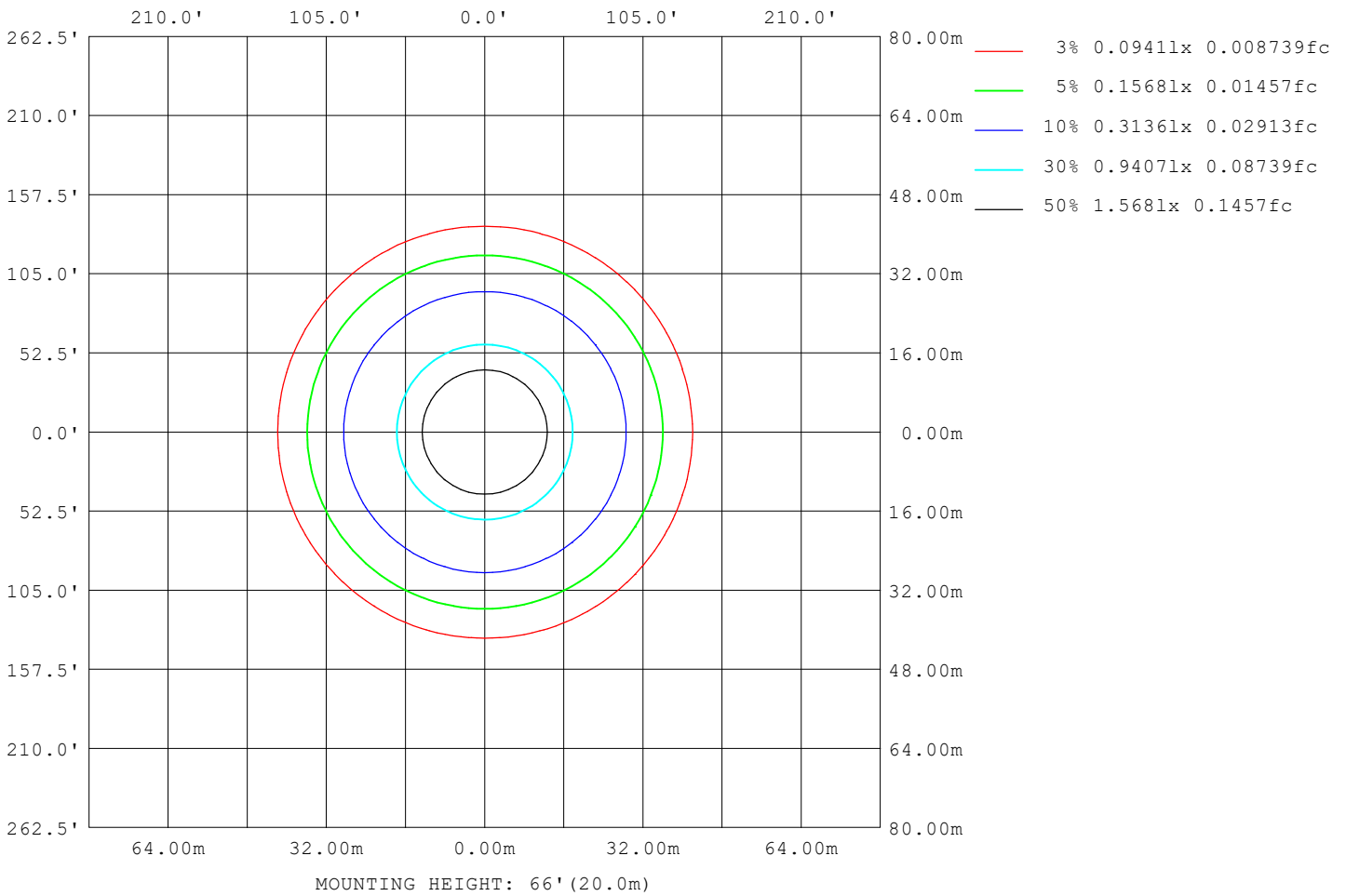
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3°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:

ISOLUX DIAGRAM

Test:U:119.98V I:0.2392A P:28.579W PF:0.9959 Freq:60.01Hz Lamp Flux:3633.14x1 lm		



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:119.98V I:0.2392A P:28.579W PF:0.9959 Freq:60.01Hz Lamp Flux:3633.14x1 lm		

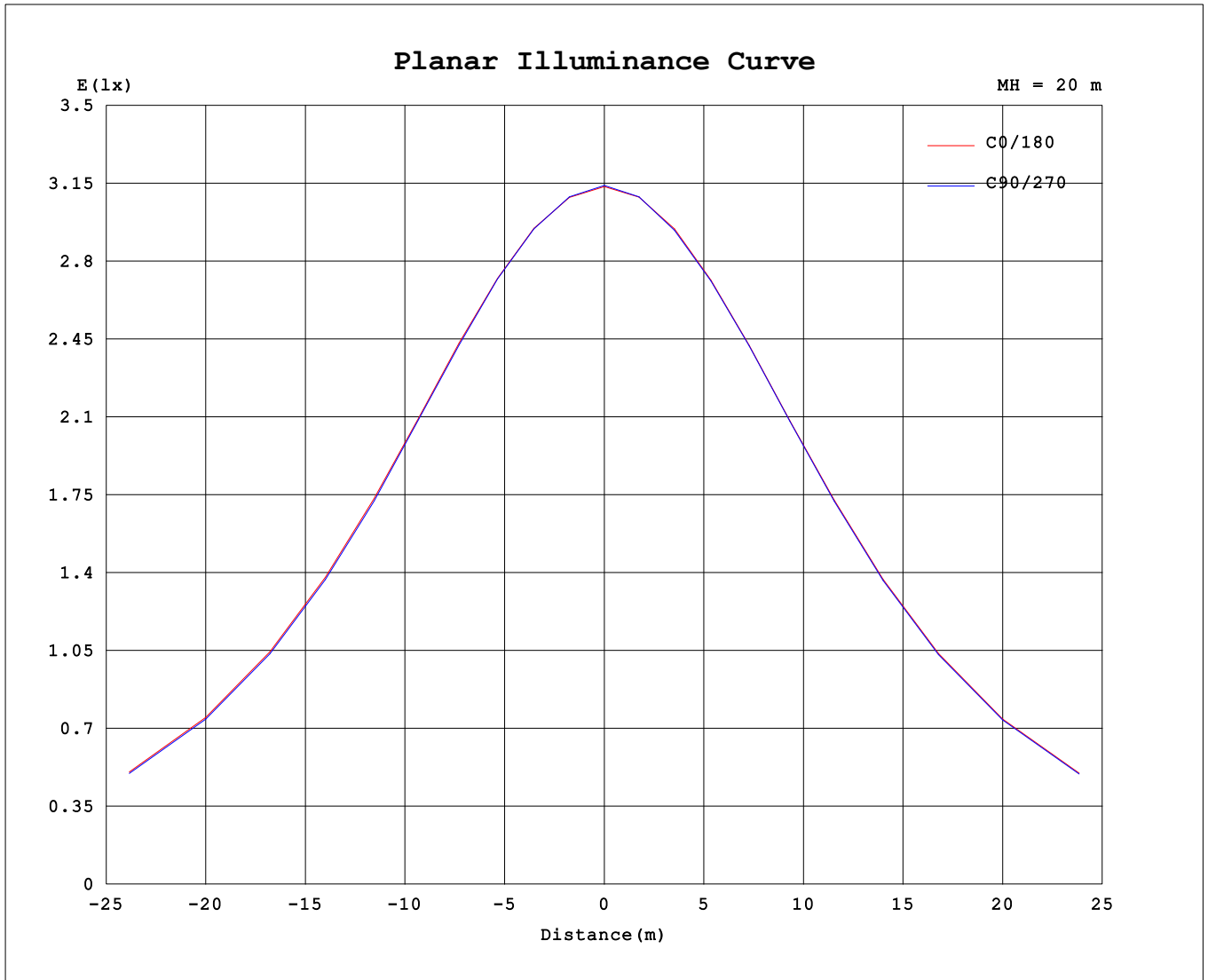
AvgL	cd/m2
L_0~180 (65) av	7740
L_0~180 (75) av	7070
L_0~180 (85) av	5957
L_90~270 (65) av	7540
L_90~270 (75) av	6643
L_90~270 (85) av	5016
L_45 (65) av	7636
L_45 (75) av	6874
L_45 (85) av	5517

Standard: GB/T 29293-2012

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:

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:119.98V I:0.2392A P:28.579W PF:0.9959 Freq:60.01Hz		
Lamp Flux:3633.14x1 lm		

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	45	90	135	180	225	270	315											
0	1255	1255	1255	1255	1255	1255	1255	1255											
5	1250	1251	1249	1248	1250	1250	1249	1250											
10	1235	1233	1233	1232	1234	1234	1230	1234											
15	1209	1208	1207	1205	1206	1206	1203	1205											
20	1174	1171	1168	1168	1168	1166	1166	1169											
25	1127	1124	1121	1121	1120	1120	1117	1120											
30	1069	1067	1061	1062	1064	1063	1059	1063											
35	1005	1002	996	997	998	996	993	997											
40	931	926	922	922	924	921	918	922											
45	850	845	839	841	841	839	836	841											
50	762	755	751	752	753	749	746	753											
55	667	661	655	656	659	655	650	659											
60	568	562	554	557	560	555	551	559											
65	466	459	452	454	457	453	448	456											
70	364	356	346	350	356	349	344	354											
75	263	255	244	249	254	248	242	253											
80	166	159	147	153	158	152	145	157											
85	77.2	70.9	61.5	65.0	69.3	65.7	61.9	69.9											
90	2.39	1.41	1.10	1.25	0.16	0.00	0.00	0.78											
95	0.47	0.39	0.32	0.39	0.00	0.00	0.00	0.00											
100	0.16	0.08	0.00	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	0.00											
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°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: