

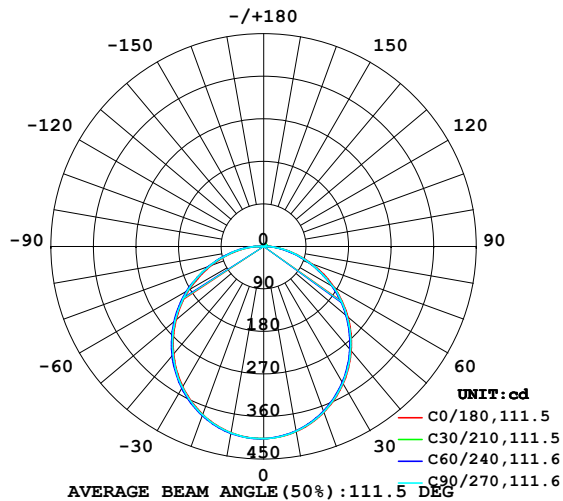
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

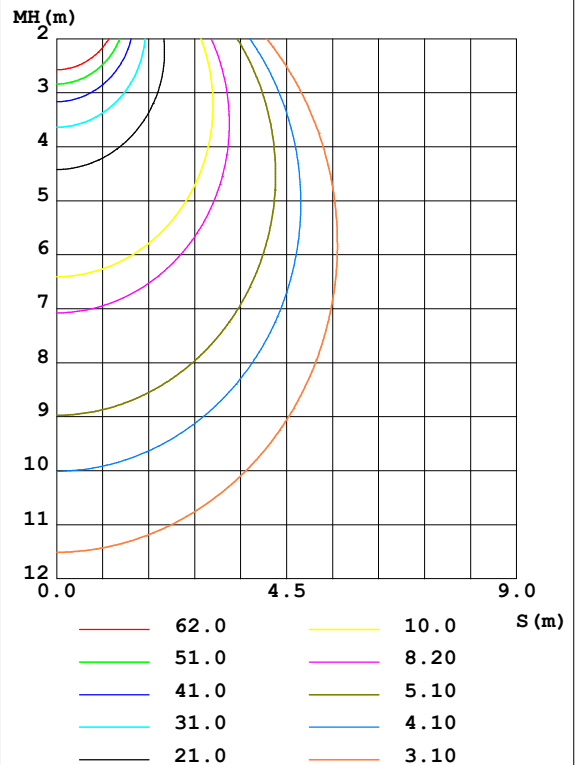
Test:U:120.10V I:0.1270A P:14.500W PF:0.9460 Freq:60.00Hz Lamp Flux:1198.37x1 lm		
NAME: ASD-LDS-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.65 lm/W			
MODEL	ASD-LDS-6D15WH	I _{max} (cd)	406.8	S/MH (C0/180)	1.25
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1198.4	η UP, DN (C0-180)	1.3, 47.6
NOMINAL FLUX (lm)	1198.37	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.2, 49.9
LAMPS INSIDE	1	η up (%)	2.5	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120.0	η down (%)	97.5	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-11-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	397.4	396.2	396.8	398.7	400.0	401.1	400.6	398.7	0- 10	38.44	38.44	3.21,3.21
20	373.1	371.0	372.0	375.6	378.0	380.1	379.2	375.6	10- 20	109.7	148.2	12.4,12.4
30	335.9	333.0	334.3	339.3	342.8	345.8	344.5	339.5	20- 30	165.4	313.6	26.2,26.2
40	288.3	284.6	286.2	292.4	296.7	300.3	298.7	292.6	30- 40	198.3	511.9	42.7,42.7
50	232.6	228.5	230.3	237.4	242.4	246.6	245.0	237.8	40- 50	205.1	717.0	59.8,59.8
60	171.8	166.7	168.2	177.0	182.5	187.1	185.3	177.6	50- 60	185.9	902.9	75.3,75.3
70	108.9	103.7	104.8	113.2	118.0	123.6	122.7	113.9	60- 70	143.4	1046	87.3,87.3
80	49.96	46.20	47.72	54.19	59.29	63.29	61.46	54.53	70- 80	87.88	1134	94.6,94.6
90	11.10	9.805	10.45	13.19	14.53	17.06	16.10	12.73	80- 90	34.38	1169	97.5,97.5
100	3.051	3.505	3.302	3.602	2.229	2.830	2.387	2.988	90-100	6.459	1175	98,98
110	3.248	4.084	3.651	4.326	2.510	2.858	2.862	4.395	100-110	3.423	1178	98.3,98.3
120	3.553	4.574	3.682	5.360	3.046	3.510	3.443	5.440	110-120	3.948	1182	98.7,98.7
130	3.736	4.964	4.391	6.715	3.462	4.396	4.197	6.332	120-130	4.150	1187	99,99
140	4.155	5.383	4.282	7.194	3.845	5.109	4.628	6.297	130-140	4.081	1191	99.4,99.4
150	4.391	4.505	4.667	7.176	4.508	4.284	4.852	6.408	140-150	3.350	1194	99.6,99.6
160	4.730	4.739	5.333	6.962	4.678	4.565	4.839	6.468	150-160	2.466	1196	99.8,99.8
170	5.152	5.024	5.022	4.974	4.950	4.872	4.965	5.031	160-170	1.479	1198	100,100
180	5.069	5.041	5.087	5.058	5.099	5.036	5.073	5.059	170-180	0.4807	1198	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

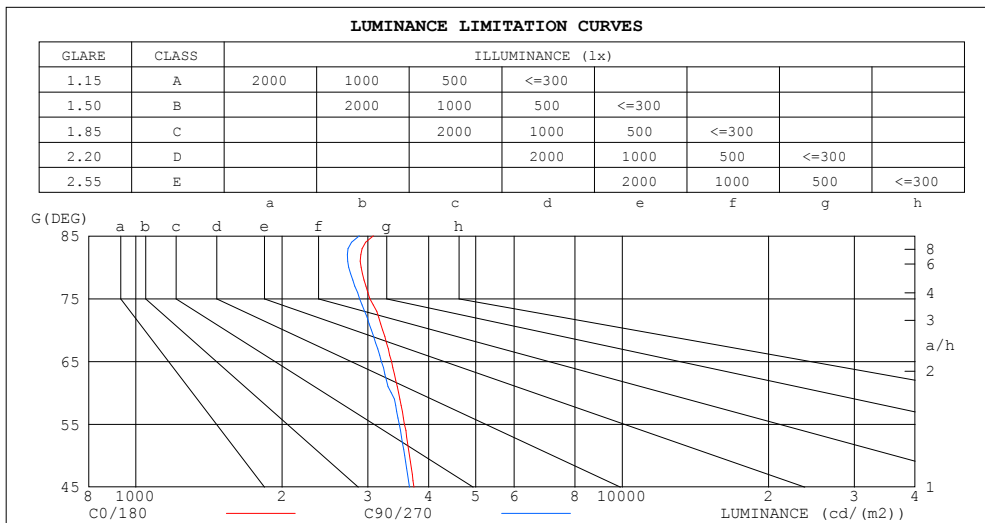
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.074m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:120.10V I:0.1270A P:14.500W PF:0.9460 Freq:60.00Hz Lamp Flux:1198.37x1 lm		
NAME: ASD-LDS-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3081	2881
80	2907	2738
75	3026	2884
70	3218	3052
65	3356	3197
60	3471	3352
55	3568	3482
50	3656	3570
45	3733	3651

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

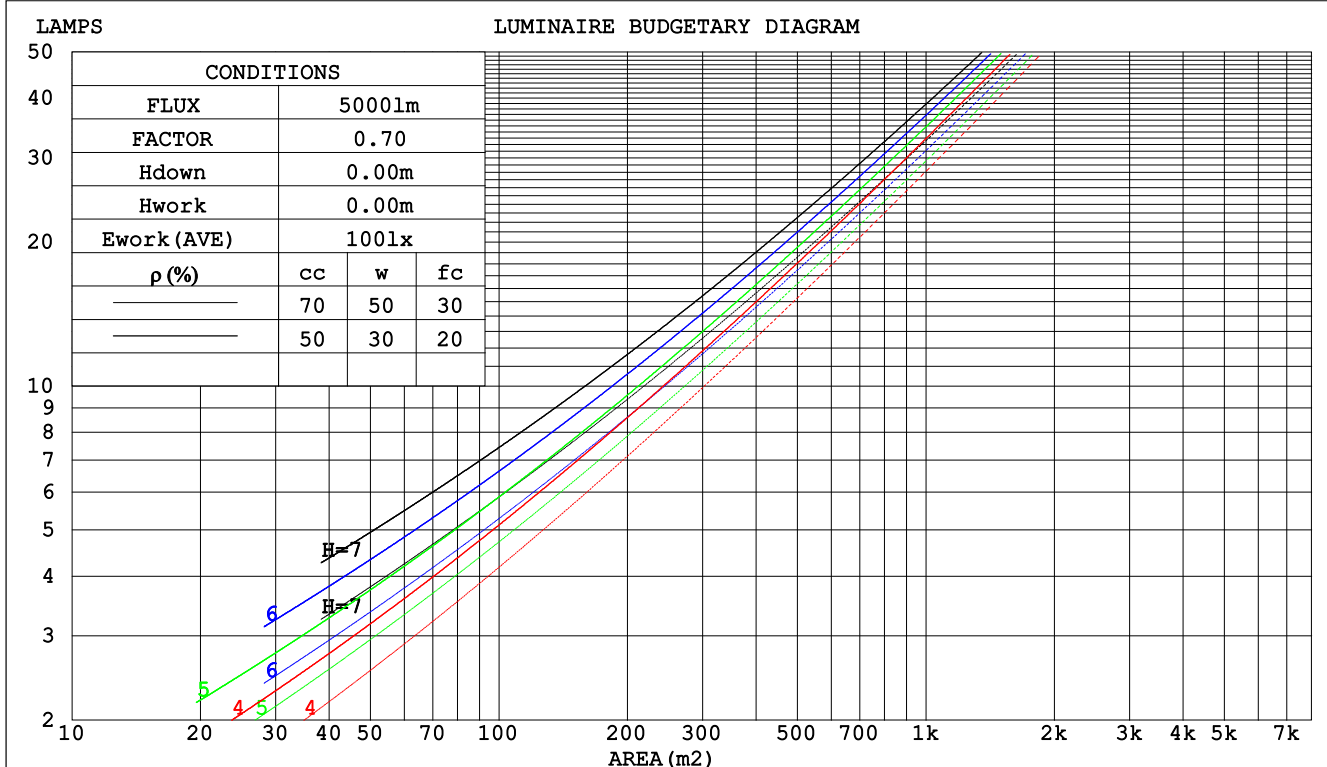
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.10V I:0.1270A P:14.500W PF:0.9460 Freq:60.00Hz Lamp Flux:1198.37x1 lm		
NAME: ASD-LDS-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

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						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.03	.98	.94	1.00	.96	.92	.95	.92	.89	.91	.88	.86	.87	.85	.83	.81
2.0	.89	.82	.76	.87	.81	.75	.83	.78	.73	.79	.75	.71	.76	.72	.69	.67
3.0	.78	.70	.63	.76	.69	.63	.73	.67	.61	.70	.64	.60	.67	.62	.58	.56
4.0	.69	.60	.53	.68	.59	.53	.65	.58	.52	.62	.56	.51	.60	.54	.50	.48
5.0	.62	.53	.46	.61	.52	.46	.58	.51	.45	.56	.49	.44	.54	.48	.43	.41
6.0	.56	.47	.40	.55	.46	.40	.52	.45	.39	.51	.44	.39	.49	.43	.38	.36
7.0	.50	.42	.35	.49	.41	.35	.48	.40	.35	.46	.39	.34	.44	.38	.34	.32
8.0	.46	.37	.32	.45	.37	.31	.44	.36	.31	.42	.36	.31	.41	.35	.30	.28
9.0	.42	.34	.28	.41	.34	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.25
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:120.10V I:0.1270A P:14.500W PF:0.9460 Freq:60.00Hz Lamp Flux:1198.37x1 lm					
NAME: ASD-LDS-6D15WH			TYPE:		WEIGHT:
SPEC.:5000K			DIM.:		SERIAL No.:
MFR.: ASD Lighting Corp			SUR.:		Shielding Angle:

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	.321	.183	.058	.314	.179	.057	.299	.171	.055	.285	.165	.053	.273	.158	.051		
2.0	.298	.163	.050	.291	.160	.049	.278	.154	.048	.265	.149	.047	.254	.144	.045		
3.0	.273	.145	.044	.267	.143	.043	.256	.139	.042	.245	.134	.041	.235	.130	.040		
4.0	.251	.131	.038	.246	.129	.038	.235	.125	.037	.226	.121	.037	.217	.118	.036		
5.0	.232	.118	.034	.227	.116	.034	.218	.113	.033	.209	.110	.033	.201	.107	.032		
6.0	.214	.107	.031	.210	.106	.031	.202	.103	.030	.194	.101	.030	.187	.098	.029		
7.0	.199	.099	.028	.195	.097	.028	.188	.095	.027	.181	.093	.027	.174	.091	.027		
8.0	.186	.091	.026	.182	.090	.025	.176	.088	.025	.169	.086	.025	.164	.084	.024		
9.0	.174	.084	.024	.171	.083	.023	.165	.082	.023	.159	.080	.023	.154	.078	.023		
10.0	.164	.078	.022	.161	.078	.022	.155	.076	.021	.150	.075	.021	.145	.073	.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	.209	.209	.209	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.200	.175	.153	.171	.150	.131	.117	.103	.091	.067	.060	.053	.022	.019	.017	
2.0	.192	.151	.117	.165	.130	.101	.113	.090	.070	.065	.052	.041	.021	.017	.013	
3.0	.184	.134	.093	.158	.115	.081	.109	.080	.057	.063	.047	.033	.020	.015	.011	
4.0	.177	.120	.077	.152	.104	.067	.104	.073	.047	.060	.042	.028	.019	.014	.009	
5.0	.169	.110	.066	.145	.095	.058	.100	.067	.041	.058	.039	.024	.019	.013	.008	
6.0	.162	.102	.059	.139	.088	.051	.096	.062	.036	.056	.036	.021	.018	.012	.007	
7.0	.155	.095	.053	.134	.082	.046	.092	.058	.033	.054	.034	.019	.017	.011	.006	
8.0	.149	.089	.048	.128	.077	.042	.089	.054	.030	.052	.032	.018	.017	.011	.006	
9.0	.143	.084	.045	.123	.073	.039	.085	.051	.028	.050	.030	.017	.016	.010	.005	
10.0	.137	.080	.042	.118	.069	.037	.082	.049	.026	.048	.029	.016	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.074m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:120.10V I:0.1270A P:14.500W PF:0.9460 Freq:60.00Hz Lamp Flux:1198.37x1 lm										
NAME: ASD-LDS-6D15WH						TYPE:		WEIGHT:		
SPEC.:5000K						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	16.3	17.8	16.6	18.1	18.3	16.2	17.7	16.5	17.9	18.2
	3H	17.9	19.2	18.2	19.5	19.8	17.7	19.1	18.0	19.3
	4H	18.5	19.8	18.8	20.1	20.4	18.3	19.6	18.6	19.9
	6H	19.0	20.2	19.4	20.5	20.9	18.7	20.0	19.1	20.3
	8H	19.2	20.4	19.6	20.7	21.0	18.9	20.1	19.3	20.5
	12H	19.3	20.5	19.7	20.8	21.2	19.1	20.2	19.5	20.6
4H	2H	16.9	18.2	17.2	18.5	18.8	16.8	18.1	17.1	18.4
	3H	18.6	19.7	19.0	20.1	20.4	18.4	19.6	18.8	19.9
	4H	19.4	20.4	19.8	20.8	21.2	19.2	20.2	19.6	20.6
	6H	20.0	20.9	20.4	21.3	21.7	19.8	20.7	20.2	21.1
	8H	20.2	21.1	20.7	21.5	22.0	20.0	20.9	20.4	21.3
	12H	20.4	21.3	20.9	21.7	22.1	20.2	21.0	20.7	21.4
8H	4H	19.6	20.5	20.0	20.9	21.3	19.4	20.3	19.9	20.7
	6H	20.4	21.1	20.9	21.6	22.0	20.2	20.9	20.7	21.4
	8H	20.7	21.4	21.2	21.9	22.4	20.5	21.2	21.0	21.6
	12H	21.1	21.6	21.6	22.1	22.6	20.8	21.4	21.3	21.9
12H	4H	19.6	20.4	20.1	20.8	21.3	19.4	20.2	19.9	20.7
	6H	20.4	21.1	20.9	21.6	22.1	20.2	20.9	20.7	21.4
	8H	20.8	21.4	21.4	21.9	22.4	20.6	21.2	21.1	21.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				

CIE Pub.117, 1198 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.6)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:120.10V I:0.1270A P:14.500W PF:0.9460 Freq:60.00Hz Lamp Flux:1198.37x1 lm		
NAME: ASD-LDS-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	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) $k(RI) \times RCR = 5$									
$k = 0.60$	56	45	38	56	44	38	54	44	37	31
0.80	66	55	47	65	54	47	63	53	46	39
1.00	75	63	56	73	63	56	71	64	55	47
1.25	82	71	64	80	70	63	77	68	62	54
1.50	87	76	69	85	75	69	81	73	67	59
2.00	94	85	78	91	83	77	88	81	75	67
2.50	97	89	83	95	88	82	91	85	80	71
3.00	101	94	88	98	92	87	94	89	84	75
4.00	105	99	94	102	97	92	98	93	90	80
5.00	107	102	98	105	100	96	100	96	93	83
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

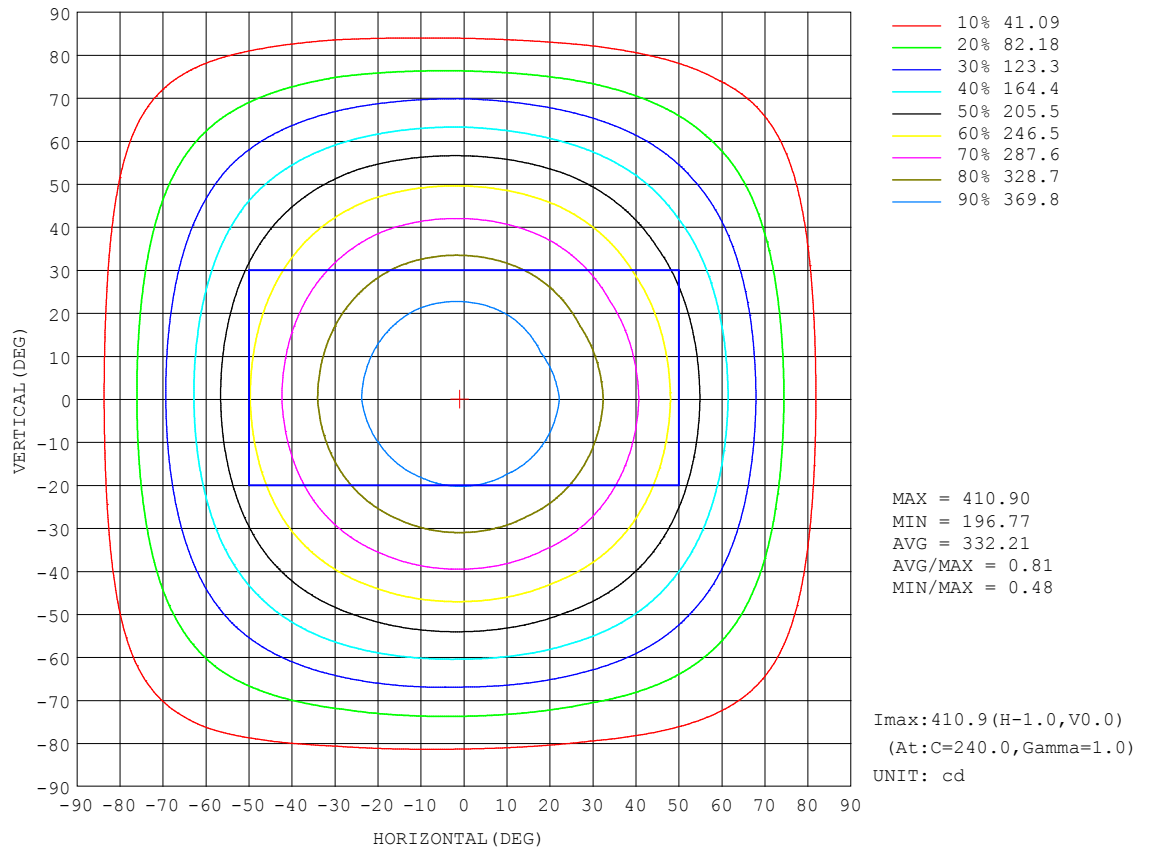
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 Humidity:65.0%
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:120.10V I:0.1270A P:14.500W PF:0.9460 Freq:60.00Hz Lamp Flux:1198.37x1 lm		
NAME: ASD-LDS-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



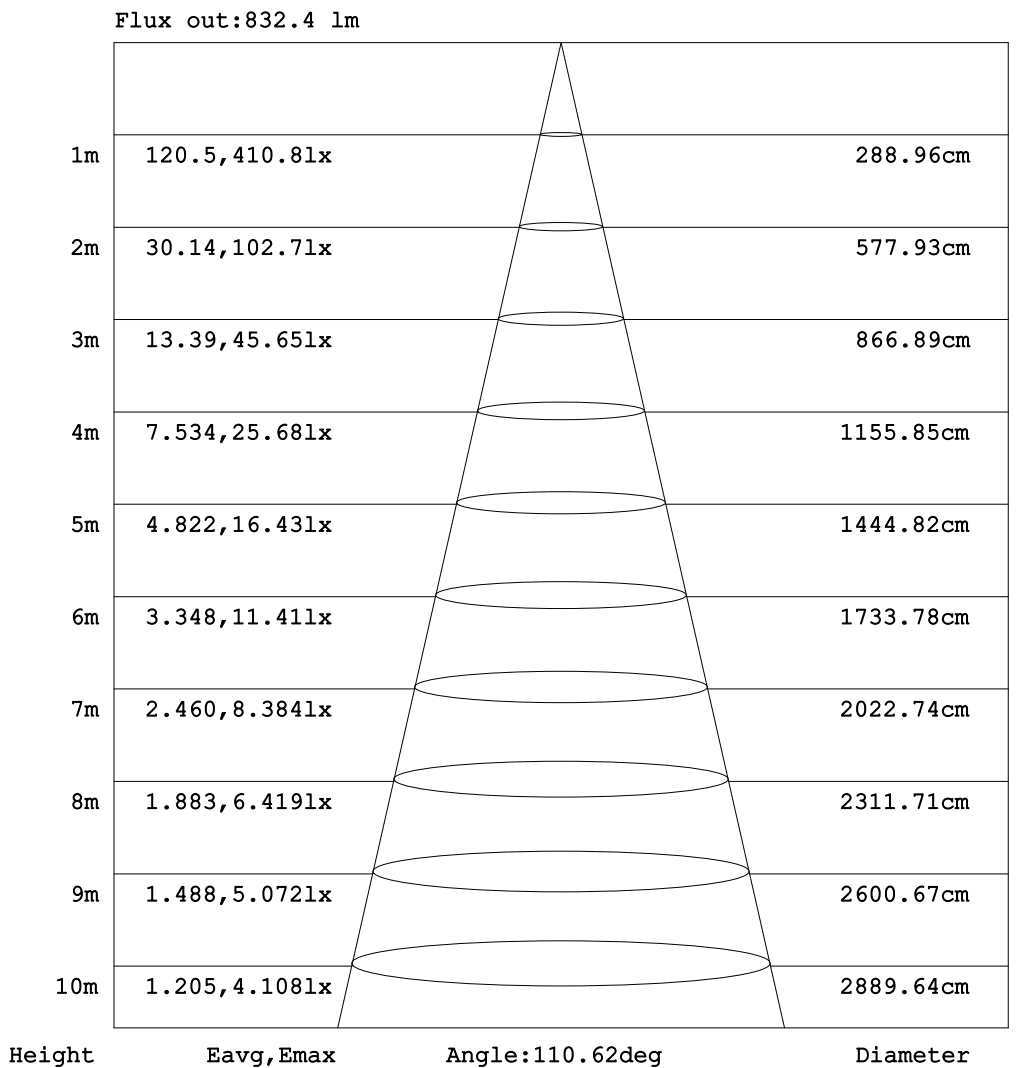
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Test Speed: HIGH
Temperature:25.3DEG
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γ Range: 0 - 180DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.10V I:0.1270A P:14.500W PF:0.9460 Freq:60.00Hz Lamp Flux:1198.37x1 lm		
NAME: ASD-LDS-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	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.

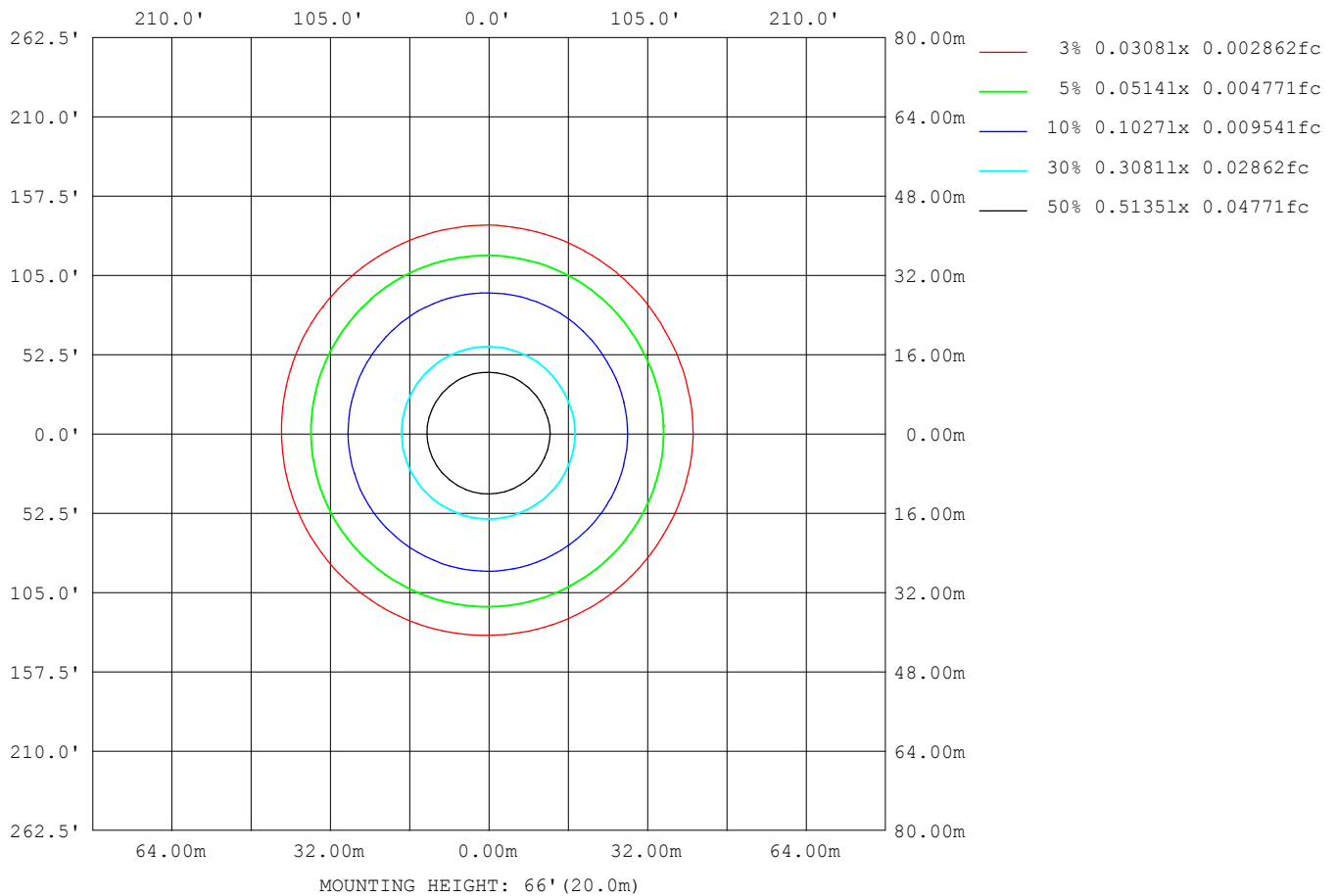
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:120.10V I:0.1270A P:14.500W PF:0.9460 Freq:60.00Hz Lamp Flux:1198.37x1 lm		
NAME: ASD-LDS-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:120.10V I:0.1270A P:14.500W PF:0.9460 Freq:60.00Hz Lamp Flux:1198.37x1 lm		
NAME: ASD-LDS-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

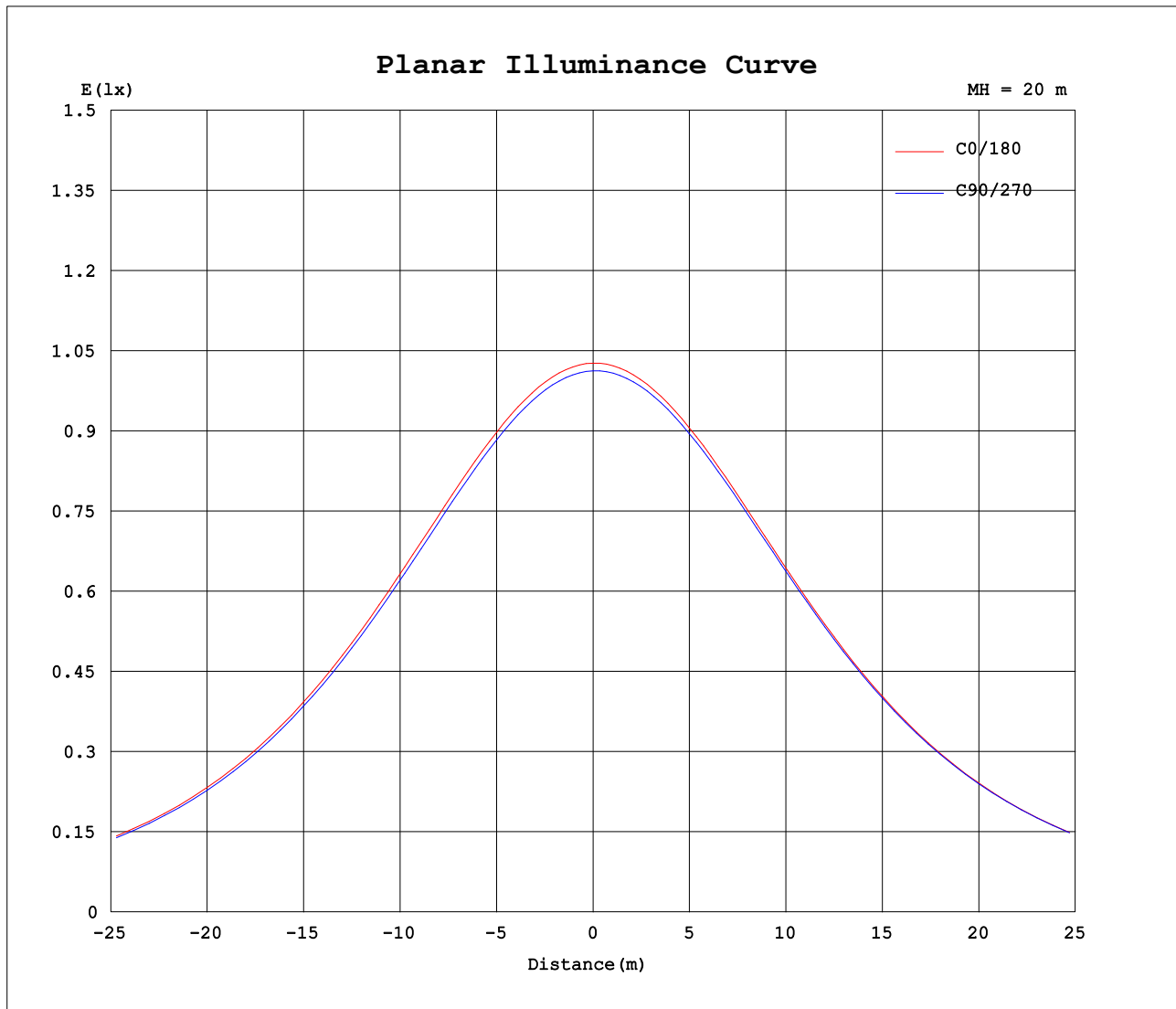
AvgL	cd/m2
L_0~180 (65) av	3422
L_0~180 (75) av	3192
L_0~180 (85) av	3490
L_90~270 (65) av	3428
L_90~270 (75) av	3218
L_90~270 (85) av	3516
L_45 (65) av	3424
L_45 (75) av	3198
L_45 (85) av	3479

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 7.074m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.10V I:0.1270A P:14.500W PF:0.9460 Freq:60.00Hz Lamp Flux:1198.37x1 lm		
NAME: ASD-LDS-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	407	407	407	407	407	407	407	407	407	407	407	407							
5	404	404	403	404	404	405	405	406	406	406	405	404							
10	397	397	396	397	398	400	400	401	401	401	400	398							
15	387	386	385	386	388	390	391	392	393	392	390	388							
20	373	372	370	372	374	377	378	379	381	379	377	374							
25	356	354	353	354	357	361	362	364	365	363	361	357							
30	336	334	332	334	337	342	343	345	347	345	342	337							
35	313	311	309	311	314	320	321	323	325	323	320	314							
40	288	286	284	286	289	295	297	299	301	299	296	289							
45	261	259	256	259	263	269	270	273	276	273	269	263							
50	233	230	227	230	234	241	242	245	248	245	241	234							
55	203	200	197	200	204	211	213	216	219	216	212	204							
60	172	167	166	168	173	181	182	186	188	185	181	174							
65	140	135	134	136	142	147	149	155	155	154	148	142							
70	109	104	103	105	110	116	118	123	124	123	117	111							
75	77.5	74.4	72.3	74.9	78.5	85.8	87.7	92.3	93.4	91.6	86.4	79.3							
80	50.0	47.2	45.2	47.7	50.9	57.5	59.3	62.3	64.3	61.5	57.8	51.3							
85	26.6	24.5	23.1	25.2	27.6	32.9	34.3	36.5	38.2	36.1	32.7	27.3							
90	11.1	10.1	9.50	10.4	11.7	14.6	14.5	16.5	17.6	16.1	14.2	11.2							
95	4.47	4.68	4.27	3.47	4.96	5.75	2.41	5.48	6.32	4.13	5.18	4.39							
100	3.05	3.48	3.53	3.30	3.53	3.67	2.23	2.77	2.89	2.39	2.97	3.01							
105	3.08	3.46	3.37	3.41	3.38	4.02	2.35	2.73	2.59	2.51	3.39	3.81							
110	3.25	4.09	4.08	3.65	3.51	5.14	2.51	2.97	2.75	2.86	3.86	4.93							
115	3.41	4.37	4.30	3.70	4.25	5.58	2.77	3.36	3.11	3.16	4.54	5.24							
120	3.55	4.87	4.28	3.68	4.73	5.99	3.05	3.55	3.47	3.44	5.22	5.66							
125	3.61	4.33	4.45	3.87	5.14	6.98	3.25	4.06	3.71	3.71	5.51	6.49							
130	3.74	5.11	4.82	4.39	5.56	7.87	3.46	4.45	4.34	4.20	5.64	7.03							
135	3.89	5.92	4.87	4.52	5.97	8.20	3.68	5.59	4.18	4.21	5.30	7.45							
140	4.16	5.90	4.86	4.28	6.45	7.94	3.84	6.14	4.07	4.63	5.32	7.27							
145	4.31	5.52	4.42	4.74	6.64	7.71	4.36	4.99	4.10	4.62	5.88	6.33							
150	4.39	4.47	4.53	4.67	6.78	7.57	4.51	4.37	4.20	4.85	5.82	6.99							
155	4.51	4.64	4.70	4.86	6.90	7.39	4.54	4.45	4.54	4.51	6.09	6.89							
160	4.73	4.80	4.68	5.33	6.78	7.15	4.68	4.54	4.59	4.84	6.15	6.78							
165	4.95	4.87	4.81	4.94	5.98	6.12	4.80	4.70	4.76	4.85	5.52	5.80							
170	5.15	5.02	5.03	5.02	5.06	4.89	4.95	4.85	4.90	4.97	4.97	5.10							
175	5.12	5.12	5.09	5.10	4.98	4.98	5.05	4.96	5.00	5.07	5.14	5.17							
180	5.07	5.05	5.03	5.09	5.06	5.06	5.10	5.02	5.05	5.07	5.06	5.06							

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