

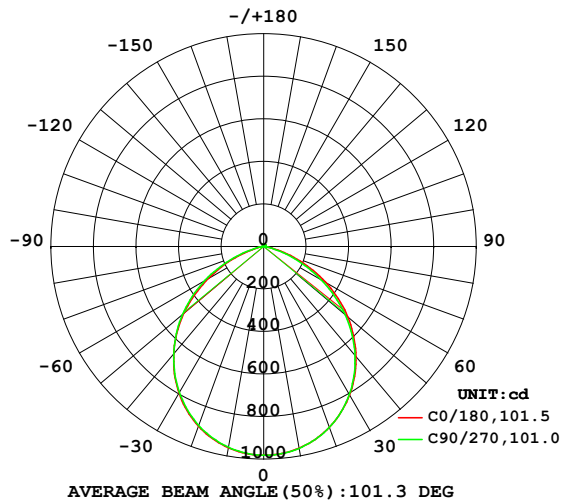
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

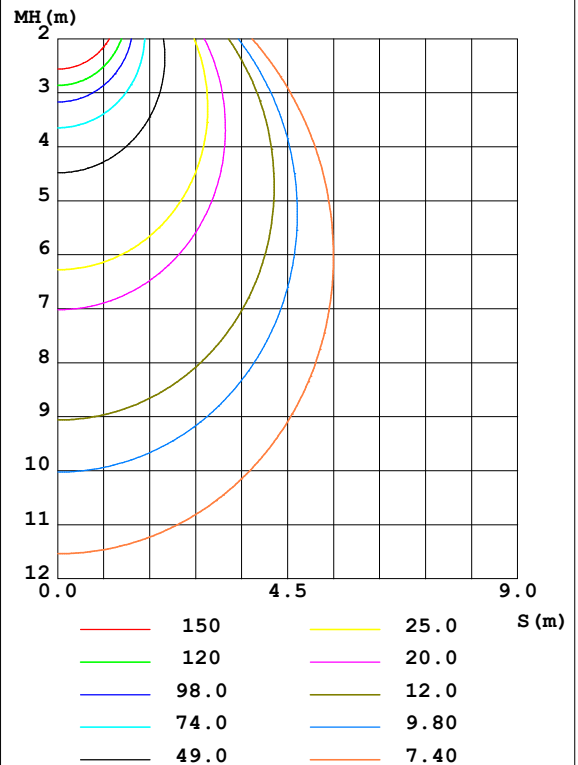
Test:U:120.10V I:0.2470A P:29.300W PF:0.9890 Freq:60.00Hz Lamp Flux:2365.27x1 lm		
NAME: ASD-CDL7-8DA30-8EM	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 8	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.140	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.73 lm/W			
MODEL	ASD-CDL7-8DA30-8EM	I _{max} (cd)	982.0	S/MH (C0/180)	1.21
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.21
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2365.3	η UP, DN (C0-180)	0.9, 49.6
NOMINAL FLUX (lm)	2365.27	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.8, 48.6
LAMPS INSIDE	1	η up (%)	1.8	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	98.2	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: 25.3DEG
Operators: DAMIN
Test Date: 2025-04-21

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	963.3	963.8	963.7	964.0	960.7	959.2	958.4	958.6	0- 10	92.74	92.74	3.92,3.92
20	904.3	906.1	905.3	904.7	898.9	896.2	895.7	895.4	10- 20	263.9	356.7	15.1,15.1
30	807.5	809.0	805.5	804.7	796.7	793.5	793.7	794.2	20- 30	393.7	750.3	31.7,31.7
40	675.6	674.8	668.3	667.6	658.5	657.0	658.4	660.8	30- 40	460.2	1211	51.2,51.2
50	517.7	512.6	501.8	499.2	490.9	493.2	499.4	503.7	40- 50	451.9	1662	70.3,70.3
60	335.9	325.4	309.9	306.2	298.7	307.8	318.0	325.6	50- 60	366.3	2029	85.8,85.8
70	151.6	138.7	126.9	118.9	113.1	124.9	134.2	141.1	60- 70	219.1	2248	95,95
80	21.57	21.54	16.83	17.15	13.19	15.13	17.74	19.19	70- 80	65.94	2314	97.8,97.8
90	5.234	5.213	4.933	4.947	2.811	2.772	2.760	2.872	80- 90	9.976	2324	98.2,98.2
100	5.451	5.493	5.494	5.543	3.784	3.743	3.707	3.675	90-100	4.591	2328	98.4,98.4
110	6.130	6.159	6.159	6.203	4.940	4.903	4.885	4.853	100-110	5.357	2334	98.7,98.7
120	6.763	6.765	6.810	6.822	6.082	6.041	6.025	5.964	110-120	5.926	2340	98.9,98.9
130	7.291	7.258	7.386	7.432	7.135	7.044	7.179	7.187	120-130	6.119	2346	99.2,99.2
140	7.856	7.863	8.009	8.116	8.148	8.053	8.148	8.073	130-140	5.906	2352	99.4,99.4
150	8.633	8.687	8.747	9.018	9.196	9.090	9.113	9.203	140-150	5.329	2357	99.6,99.6
160	9.679	9.697	9.716	9.801	10.23	10.07	10.11	10.000	150-160	4.349	2361	99.8,99.8
170	10.66	10.62	10.62	10.64	11.00	10.81	10.88	10.77	160-170	2.921	2364	100,100
180	11.24	11.12	11.16	11.11	11.28	11.10	11.17	11.09	170-180	1.044	2365	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

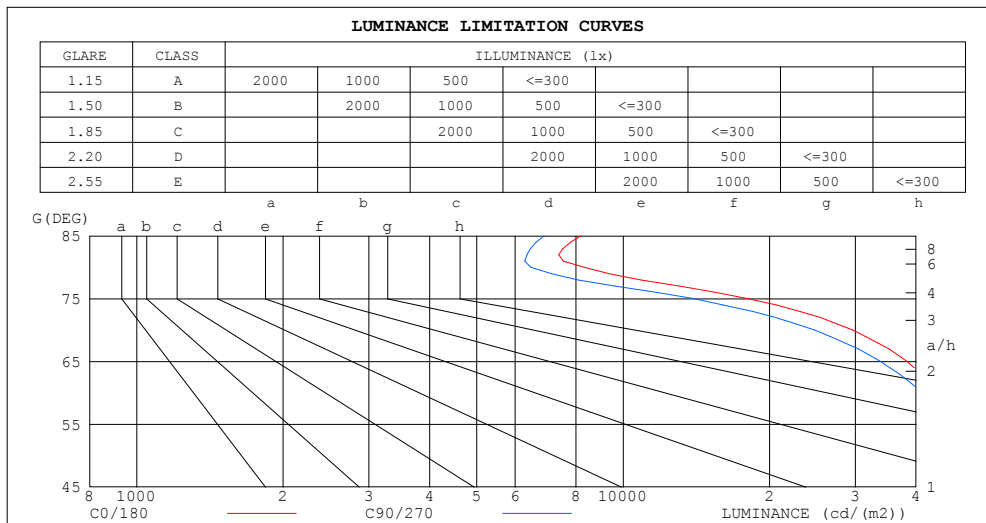
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-04-21

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:0.2470A P:29.300W PF:0.9890 Freq:60.00Hz Lamp Flux:2365.27x1 lm		
NAME: ASD-CDL7-8DA30-8EM	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 8	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.140	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8182	6887
80	8307	6454
75	18006	13963
70	29647	24711
65	38289	33765
60	44919	41276
55	49921	47208
50	53859	51984
45	56711	55466

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
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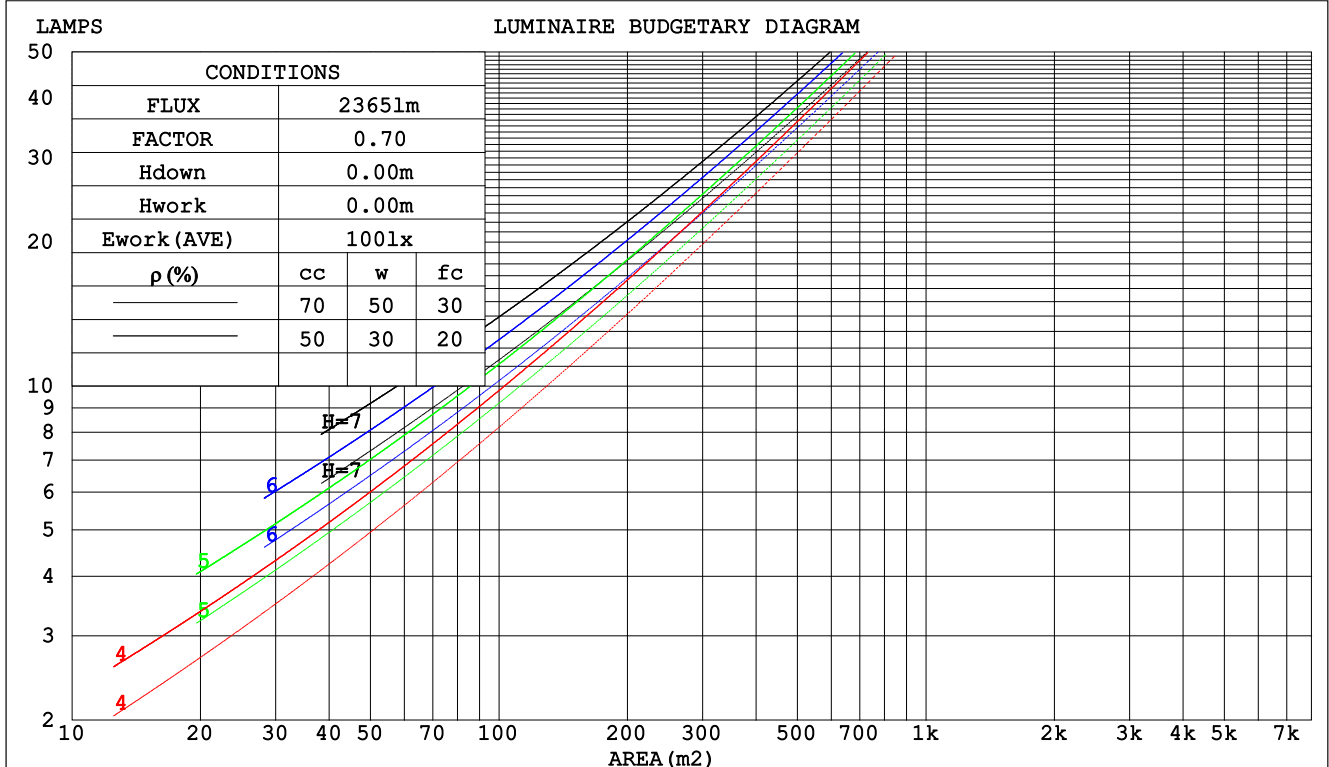
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.10V I:0.2470A P:29.300W PF:0.9890 Freq:60.00Hz Lamp Flux:2365.27x1 lm		
NAME: ASD-CDL7-8DA30-8EM	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 8	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.140	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	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.06	1.02	.99	1.03	1.00	.97	.99	.96	.94	.95	.93	.91	.91	.89	.88	.86
2.0	.94	.88	.83	.92	.86	.81	.88	.83	.79	.84	.81	.77	.81	.78	.75	.73
3.0	.83	.76	.70	.81	.75	.69	.78	.73	.68	.75	.70	.66	.73	.69	.65	.63
4.0	.74	.66	.60	.73	.65	.59	.70	.64	.58	.68	.62	.58	.65	.61	.57	.55
5.0	.67	.58	.52	.65	.58	.52	.63	.56	.51	.61	.55	.50	.59	.54	.50	.48
6.0	.60	.52	.46	.59	.51	.46	.57	.50	.45	.56	.49	.45	.54	.48	.44	.42
7.0	.55	.47	.41	.54	.46	.40	.52	.45	.40	.51	.44	.40	.49	.44	.39	.37
8.0	.50	.42	.36	.49	.42	.36	.48	.41	.36	.47	.40	.36	.45	.40	.35	.34
9.0	.46	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.32	.42	.36	.32	.30
10.0	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.29	.39	.33	.29	.27



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-04-21

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:0.2470A P:29.300W PF:0.9890 Freq:60.00Hz Lamp Flux:2365.27x1 lm					
NAME: ASD-CDL7-8DA30-8EM			TYPE:		WEIGHT:
SPEC.:5000K			DIM.: 8		SERIAL No.:
MFR.: ASD Lighting Corp			SUR.:0.140		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	.264	.150	.048	.256	.146	.046	.242	.139	.044	.230	.132	.042	.218	.126	.041		
2.0	.257	.141	.043	.250	.138	.042	.238	.132	.041	.226	.127	.040	.216	.122	.039		
3.0	.243	.129	.039	.237	.127	.038	.226	.123	.037	.216	.118	.036	.207	.115	.035		
4.0	.228	.118	.035	.223	.117	.034	.213	.113	.034	.204	.110	.033	.196	.106	.032		
5.0	.213	.109	.032	.209	.107	.031	.200	.104	.031	.192	.101	.030	.185	.099	.030		
6.0	.200	.100	.029	.196	.099	.028	.188	.096	.028	.181	.094	.028	.174	.092	.027		
7.0	.188	.093	.026	.184	.092	.026	.177	.089	.026	.170	.087	.025	.164	.085	.025		
8.0	.176	.086	.024	.173	.085	.024	.167	.083	.024	.161	.082	.024	.155	.080	.023		
9.0	.166	.080	.022	.163	.079	.022	.157	.078	.022	.152	.076	.022	.147	.075	.022		
10.0	.157	.075	.021	.154	.074	.021	.149	.073	.021	.144	.072	.020	.140	.070	.020		

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	.204	.204	.204	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.191	.170	.151	.163	.146	.130	.112	.100	.090	.064	.058	.052	.021	.019	.017	
2.0	.181	.146	.116	.155	.125	.100	.106	.087	.070	.061	.050	.041	.020	.016	.013	
3.0	.173	.128	.092	.148	.110	.080	.102	.077	.056	.059	.045	.033	.019	.015	.011	
4.0	.165	.114	.075	.142	.099	.065	.098	.069	.046	.056	.040	.027	.018	.013	.009	
5.0	.158	.104	.063	.136	.090	.055	.094	.063	.039	.054	.037	.023	.017	.012	.008	
6.0	.151	.095	.055	.130	.082	.048	.090	.058	.034	.052	.034	.020	.017	.011	.007	
7.0	.145	.088	.049	.125	.077	.042	.086	.054	.030	.050	.032	.018	.016	.010	.006	
8.0	.139	.083	.044	.120	.072	.038	.083	.050	.027	.048	.030	.016	.016	.010	.005	
9.0	.133	.078	.040	.115	.067	.035	.080	.047	.025	.046	.028	.015	.015	.009	.005	
10.0	.128	.073	.037	.110	.064	.032	.076	.045	.023	.045	.026	.014	.014	.009	.005	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-04-21

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:0.2470A P:29.300W PF:0.9890 Freq:60.00Hz Lamp Flux:2365.27x1 lm											
NAME: ASD-CDL7-8DA30-8EM						TYPE:		WEIGHT:			
SPEC.:5000K						DIM.: 8		SERIAL No.:			
MFR.: ASD Lighting Corp						SUR.:0.140		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	23.3	24.7	23.6	24.9	25.1	23.1	24.5	23.3	24.7	24.9	
	3H	24.1	25.4	24.4	25.7	25.9	23.7	25.0	24.1	25.3	25.5
	4H	24.3	25.5	24.6	25.7	26.0	23.8	25.0	24.1	25.3	25.6
	6H	24.2	25.3	24.6	25.6	25.9	23.8	24.9	24.1	25.2	25.5
	8H	24.2	25.3	24.5	25.6	25.9	23.7	24.8	24.1	25.1	25.4
	12H	24.1	25.2	24.5	25.5	25.8	23.7	24.7	24.0	25.0	25.4
4H	2H	23.7	24.9	24.0	25.1	25.4	23.5	24.7	23.8	25.0	25.2
	3H	24.6	25.6	25.0	26.0	26.3	24.3	25.3	24.6	25.6	26.0
	4H	24.8	25.7	25.2	26.1	26.4	24.4	25.3	24.8	25.7	26.0
	6H	24.7	25.6	25.2	26.0	26.4	24.3	25.2	24.8	25.5	25.9
	8H	24.7	25.5	25.2	25.9	26.3	24.3	25.1	24.7	25.5	25.9
	12H	24.7	25.4	25.1	25.8	26.3	24.3	25.0	24.7	25.4	25.8
8H	4H	24.7	25.5	25.2	25.9	26.3	24.4	25.1	24.8	25.5	25.9
	6H	24.8	25.4	25.2	25.8	26.3	24.4	25.0	24.8	25.4	25.9
	8H	24.7	25.3	25.2	25.8	26.2	24.3	24.9	24.8	25.4	25.8
	12H	24.7	25.2	25.2	25.7	26.2	24.3	24.8	24.8	25.3	25.8
12H	4H	24.7	25.4	25.1	25.8	26.3	24.3	25.0	24.8	25.4	25.9
	6H	24.7	25.3	25.2	25.7	26.2	24.3	24.9	24.8	25.3	25.8
	8H	24.7	25.2	25.2	25.7	26.2	24.3	24.8	24.8	25.3	25.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.5					
1.5H	+ 0.2 / - 0.5					+ 0.3 / - 0.5					
2.0H	+ 0.7 / - 0.6					+ 0.7 / - 0.7					

CIE Pub.117, 2365 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.0)
Area: 0.015 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-04-21

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:0.2470A P:29.300W PF:0.9890 Freq:60.00Hz Lamp Flux:2365.27x1 lm		
NAME: ASD-CDL7-8DA30-8EM	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 8	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.140	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) $k(RI) \times RCR = 5$									
$k = 0.60$	61	50	43	60	50	43	59	49	43	37
0.80	71	60	54	70	60	53	68	59	53	46
1.00	80	70	63	79	69	63	76	70	62	55
1.25	87	77	71	85	77	70	83	75	70	63
1.50	92	83	77	90	82	76	87	80	75	68
2.00	98	90	85	96	89	84	93	87	82	75
2.50	101	95	89	99	93	88	95	90	86	78
3.00	104	98	94	102	97	92	98	94	90	82
4.00	108	103	99	105	101	97	101	97	94	86
5.00	110	106	102	107	104	101	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

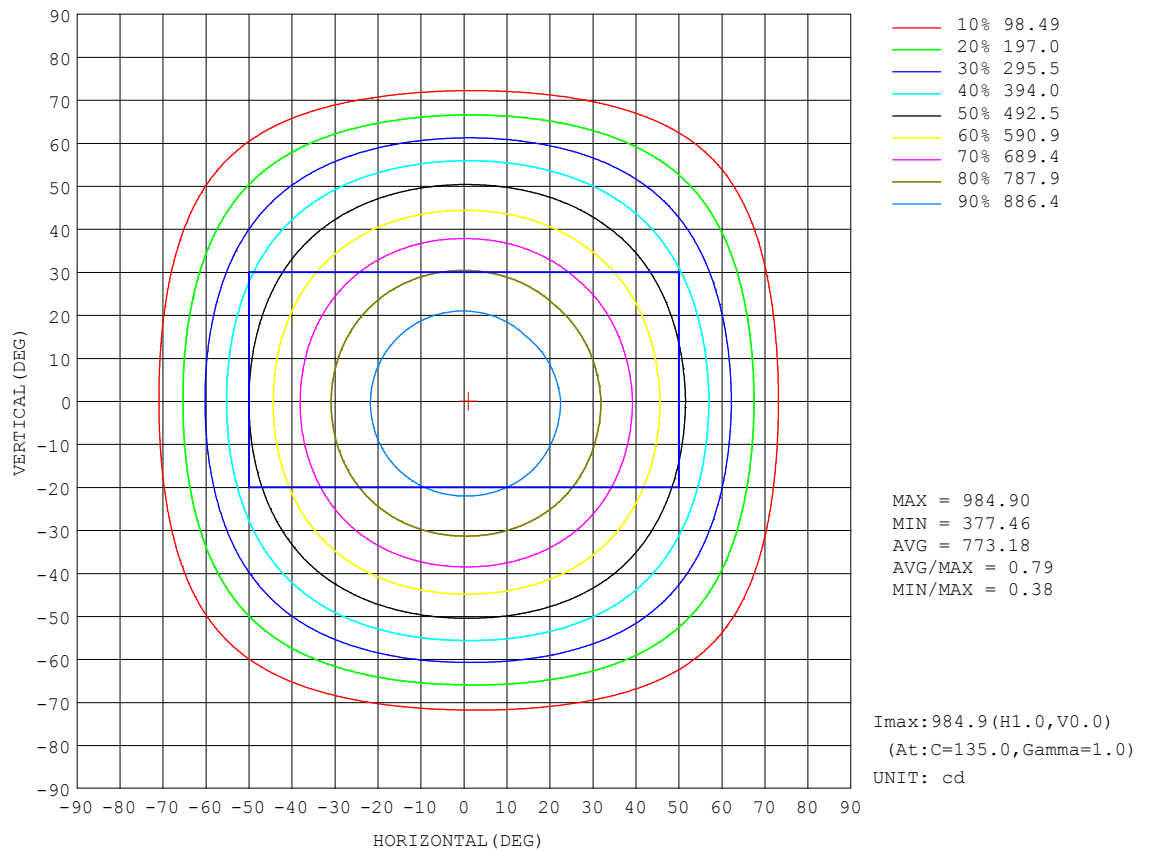
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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.074m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:120.10V I:0.2470A P:29.300W PF:0.9890 Freq:60.00Hz Lamp Flux:2365.27x1 lm		
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SPEC.:5000K	DIM.: 8	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.140	Shielding Angle:



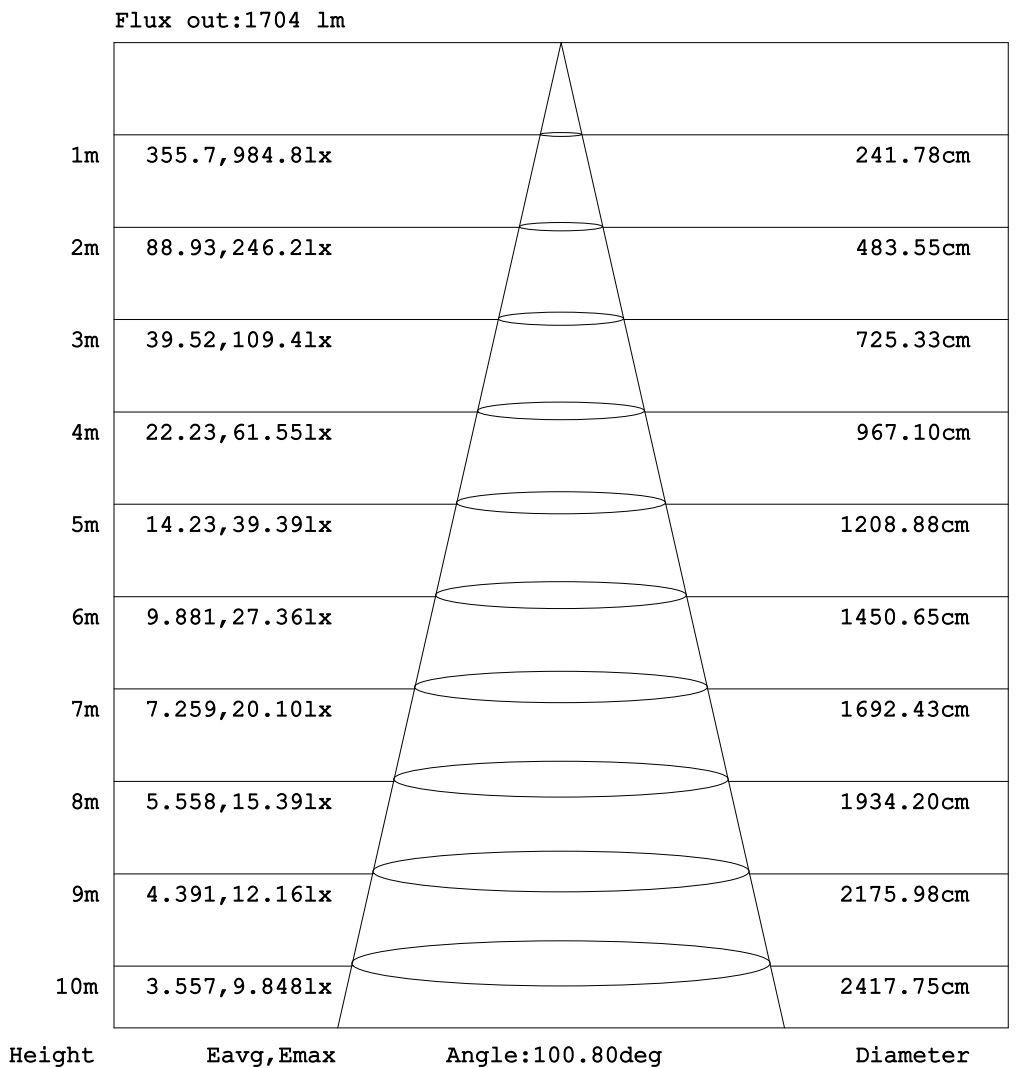
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.10V I:0.2470A P:29.300W PF:0.9890 Freq:60.00Hz Lamp Flux:2365.27x1 lm		
NAME: ASD-CDL7-8DA30-8EM	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 8	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.140	Shielding Angle:



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

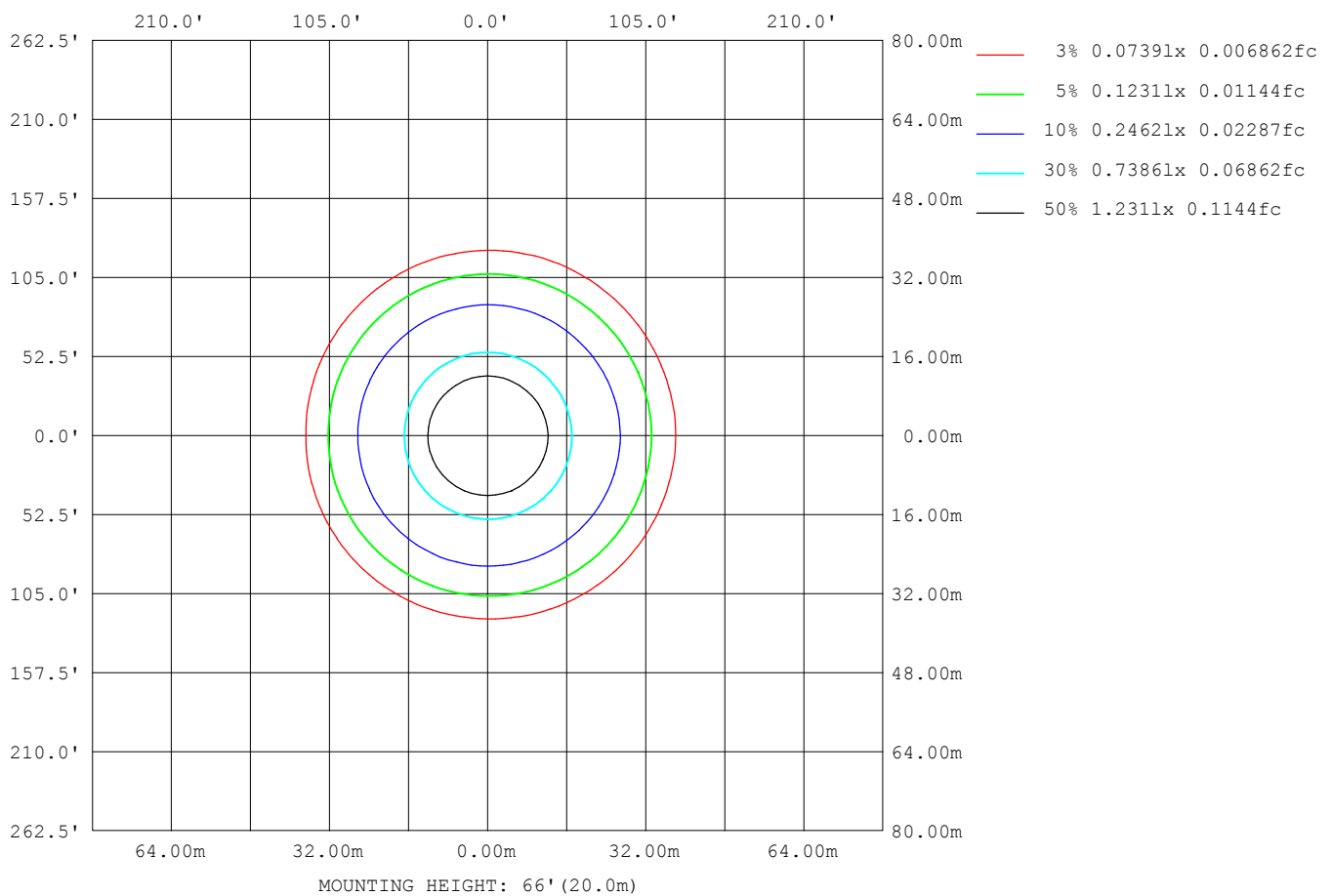
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 Humidity:65.0%
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:120.10V I:0.2470A P:29.300W PF:0.9890 Freq:60.00Hz Lamp Flux:2365.27x1 lm		
NAME: ASD-CDL7-8DA30-8EM	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 8	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.140	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-04-21

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:0.2470A P:29.300W PF:0.9890 Freq:60.00Hz Lamp Flux:2365.27x1 lm		
NAME: ASD-CDL7-8DA30-8EM	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 8	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.140	Shielding Angle:

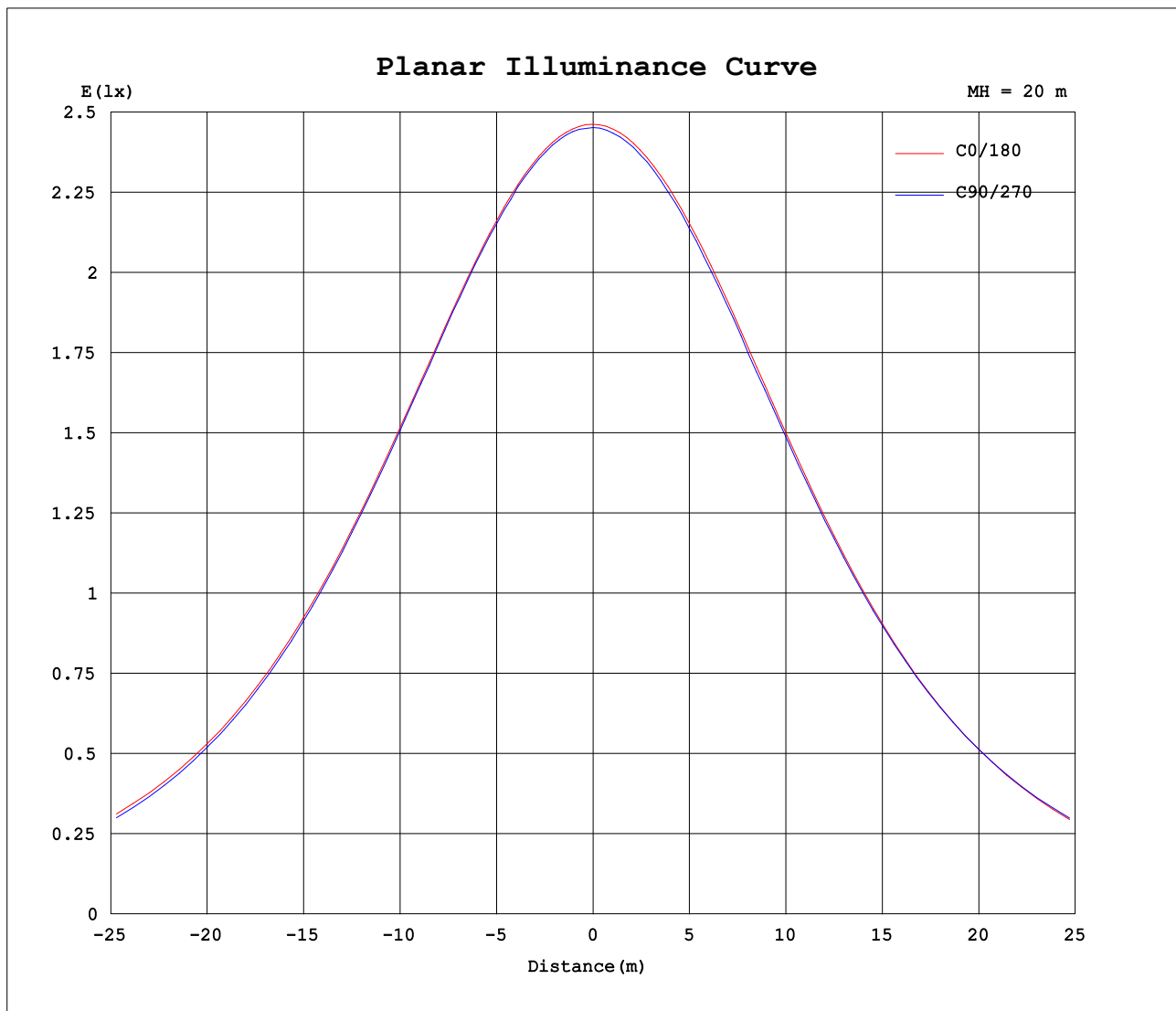
AvgL	cd/m2
L_0~180 (65) av	35076
L_0~180 (75) av	14631
L_0~180 (85) av	6295
L_90~270 (65) av	34672
L_90~270 (75) av	14545
L_90~270 (85) av	6389
L_45 (65) av	34947
L_45 (75) av	14567
L_45 (85) av	6793

Standard: GB/T 29293-2012

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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:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2025-04-21

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:0.2470A P:29.300W PF:0.9890 Freq:60.00Hz Lamp Flux:2365.27x1 lm		
NAME: ASD-CDL7-8DA30-8EM	TYPE:	WEIGHT:
SPEC.:5000K	DIM.: 8	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.140	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	982	982	982	982	982	982	982	982										
5	978	977	978	978	977	975	975	975										
10	963	964	964	964	961	959	958	959										
15	939	940	939	940	935	932	932	932										
20	904	906	905	905	899	896	896	895										
25	860	862	860	860	853	850	848	849										
30	807	809	805	805	797	794	794	794										
35	746	746	741	740	732	729	729	731										
40	676	675	668	668	658	657	658	661										
45	600	597	589	588	579	579	582	585										
50	518	513	502	499	491	493	499	504										
55	428	421	407	404	397	402	410	417										
60	336	325	310	306	299	308	318	326										
65	242	230	214	210	203	214	225	232										
70	152	139	127	119	113	125	134	141										
75	69.7	64.3	54.3	49.2	43.9	50.5	58.7	62.2										
80	21.6	21.5	16.8	17.1	13.2	15.1	17.7	19.2										
85	10.7	10.8	9.01	9.22	5.80	6.89	7.69	8.57										
90	5.23	5.21	4.93	4.95	2.81	2.77	2.76	2.87										
95	5.14	5.18	5.18	5.23	3.26	3.22	3.18	3.15										
100	5.45	5.49	5.49	5.54	3.78	3.74	3.71	3.68										
105	5.79	5.83	5.84	5.88	4.36	4.31	4.28	4.25										
110	6.13	6.16	6.16	6.20	4.94	4.90	4.89	4.85										
115	6.46	6.45	6.50	6.52	5.51	5.48	5.46	5.44										
120	6.76	6.76	6.81	6.82	6.08	6.04	6.03	5.96										
125	7.04	7.00	7.10	7.12	6.62	6.54	6.62	6.61										
130	7.29	7.26	7.39	7.43	7.14	7.04	7.18	7.19										
135	7.56	7.54	7.68	7.76	7.63	7.55	7.70	7.74										
140	7.86	7.86	8.01	8.12	8.15	8.05	8.15	8.07										
145	8.19	8.24	8.37	8.57	8.65	8.57	8.66	8.73										
150	8.63	8.69	8.75	9.02	9.20	9.09	9.11	9.20										
155	9.15	9.18	9.20	9.30	9.71	9.59	9.63	9.54										
160	9.68	9.70	9.72	9.80	10.2	10.1	10.1	10.00										
165	10.2	10.2	10.2	10.2	10.6	10.5	10.5	10.4										
170	10.7	10.6	10.6	10.6	11.0	10.8	10.9	10.8										
175	11.0	10.9	11.0	11.0	11.2	11.0	11.1	11.0										
180	11.2	11.1	11.2	11.1	11.3	11.1	11.2	11.1										

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