

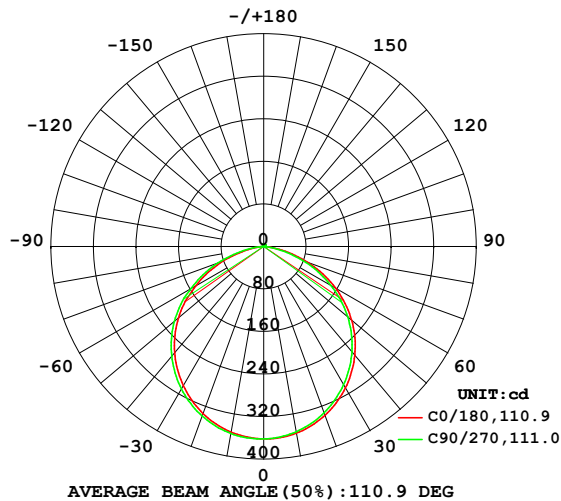
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

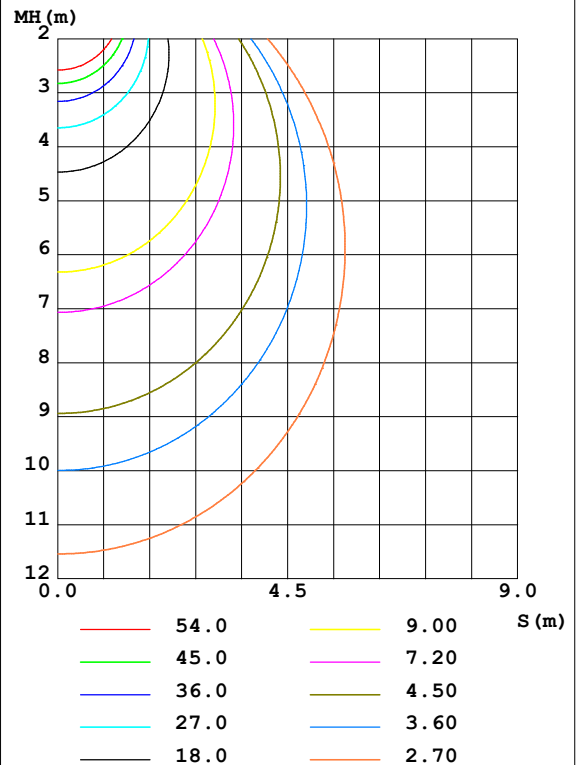
Test:U:120.00V I:0.1030A P:11.800W PF:0.9500 Freq:60.00Hz Lamp Flux:1005.24x1 lm		
NAME: ASD-LRKR-M6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.08	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.19 lm/W			
MODEL	ASD-LRKR-M6D12WH	I _{max} (cd)	362.0	S/MH (C0/180)	1.24
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1005.2	η UP, DN (C0-180)	0.9, 48.5
NOMINAL FLUX (lm)	1005.24	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.8, 49.8
LAMPS INSIDE	1	η up (%)	1.7	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120.0	η down (%)	98.3	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: 2024-10-16

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	356.4	354.9	353.8	354.1	354.5	356.2	357.2	356.7	0- 10	34.24	34.24	3.41,3.41
20	337.8	335.0	332.7	333.5	334.2	337.4	339.3	338.4	10- 20	98.00	132.2	13.2,13.2
30	307.6	303.6	300.4	301.6	302.4	306.7	309.6	308.0	20- 30	148.3	280.6	27.9,27.9
40	266.9	262.1	258.3	259.7	260.6	265.7	269.2	267.4	30- 40	178.6	459.2	45.7,45.7
50	216.2	210.8	206.6	208.5	209.4	215.4	219.4	217.1	40- 50	184.6	643.8	64,64
60	155.8	148.1	145.8	145.9	146.9	155.6	157.5	157.1	50- 60	163.7	807.5	80.3,80.3
70	88.70	82.74	78.18	80.58	81.94	88.61	92.34	90.79	60- 70	117.6	925.2	92,92
80	24.52	20.25	16.80	18.51	19.34	24.07	27.47	25.19	70- 80	55.46	980.6	97.6,97.6
90	2.051	2.050	2.116	2.144	1.237	1.256	1.244	1.286	80- 90	7.482	988.1	98.3,98.3
100	2.276	2.316	2.387	2.443	1.618	1.592	1.557	1.560	90-100	1.965	990.1	98.5,98.5
110	2.547	2.579	2.624	2.761	2.050	2.015	1.979	1.976	100-110	2.261	992.3	98.7,98.7
120	2.790	2.820	2.930	3.027	2.465	2.411	2.413	2.398	110-120	2.472	994.8	99,99
130	2.984	3.017	3.064	3.228	2.860	2.815	2.810	2.809	120-130	2.513	997.3	99.2,99.2
140	3.230	3.269	3.324	3.460	3.256	3.199	3.212	3.234	130-140	2.401	999.7	99.5,99.5
150	3.569	3.608	3.698	3.773	3.659	3.611	3.626	3.639	140-150	2.168	1002	99.7,99.7
160	3.939	3.951	4.014	4.075	4.035	3.984	4.009	3.991	150-160	1.768	1004	99.8,99.8
170	4.266	4.239	4.294	4.288	4.334	4.273	4.314	4.282	160-170	1.171	1005	100,100
180	4.464	4.390	4.445	4.433	4.439	4.407	4.442	4.436	170-180	0.4154	1005	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

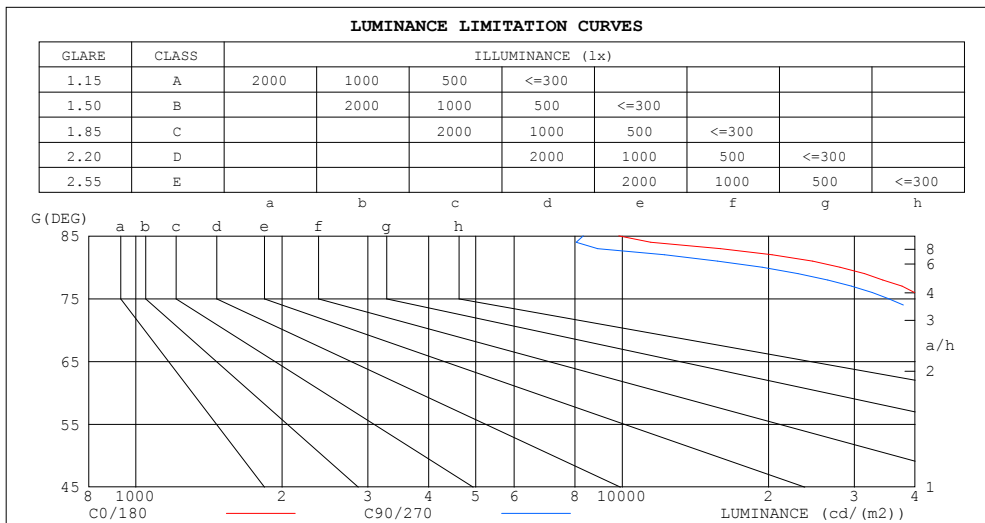
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-10-16

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:120.00V I:0.1030A P:11.800W PF:0.9500 Freq:60.00Hz Lamp Flux:1005.24x1 lm		
NAME: ASD-LRKR-M6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.08	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	9838	8320
80	28049	19410
75	42386	35257
70	51514	45863
65	57870	53572
60	61904	58491
55	64734	61973
50	66827	64499
45	68233	66317

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-16

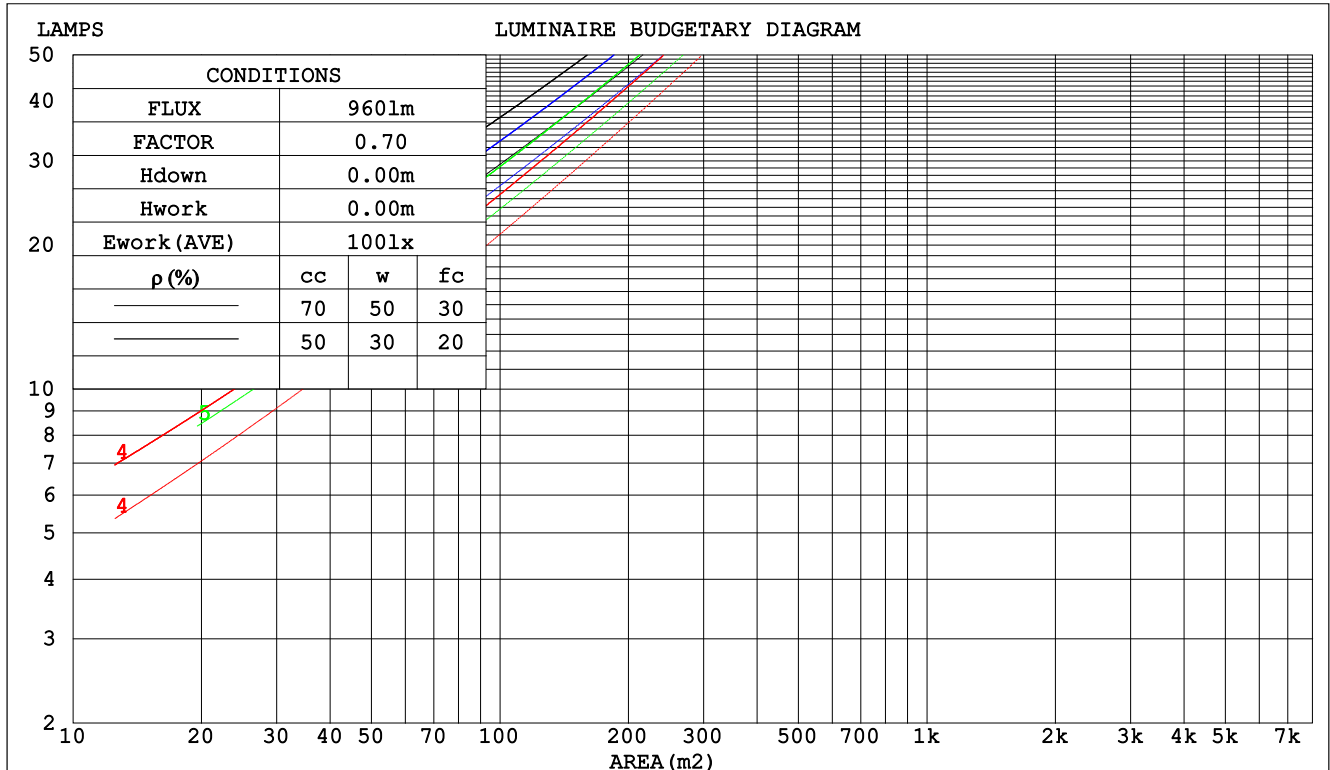
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γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.1030A P:11.800W PF:0.9500 Freq:60.00Hz Lamp Flux:1005.24x1 lm		
NAME: ASD-LRKR-M6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.08	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			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	1.05	1.00	.97	1.02	.98	.95	.98	.95	.92	.93	.91	.89	.90	.88	.86	.84
2.0	.91	.85	.79	.89	.83	.78	.86	.81	.76	.82	.78	.74	.79	.75	.72	.70
3.0	.80	.73	.66	.79	.71	.65	.76	.69	.64	.73	.67	.63	.70	.65	.62	.59
4.0	.71	.63	.56	.70	.62	.56	.67	.60	.55	.65	.59	.54	.62	.57	.53	.51
5.0	.64	.55	.48	.63	.54	.48	.60	.53	.47	.58	.52	.47	.56	.51	.46	.44
6.0	.57	.49	.42	.56	.48	.42	.54	.47	.41	.53	.46	.41	.51	.45	.40	.38
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.37	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.32	.43	.37	.32	.30
9.0	.44	.35	.30	.43	.35	.30	.42	.35	.30	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.40	.32	.27	.38	.32	.27	.37	.31	.27	.36	.31	.26	.25



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-16

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:120.00V I:0.1030A P:11.800W PF:0.9500 Freq:60.00Hz Lamp Flux:1005.24x1 lm					
NAME: ASD-LRKR-M6D12WH			TYPE:		WEIGHT:
SPEC.:5000K			DIM.:		SERIAL No.:
MFR.: ASD Lighting Corp			SUR.:0.08		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 Coeffcients (WEC)										
0.0																	
1.0	.290	.165	.052	.282	.161	.051	.268	.154	.049	.255	.147	.047	.243	.141	.045		
2.0	.278	.153	.047	.272	.150	.046	.259	.144	.045	.248	.139	.043	.237	.134	.042		
3.0	.260	.139	.042	.255	.136	.041	.243	.132	.040	.233	.128	.039	.224	.124	.038		
4.0	.242	.126	.037	.237	.124	.037	.227	.120	.036	.218	.117	.035	.209	.114	.035		
5.0	.225	.115	.033	.220	.113	.033	.211	.110	.032	.203	.107	.032	.196	.105	.031		
6.0	.209	.105	.030	.205	.104	.030	.197	.101	.029	.190	.099	.029	.183	.096	.029		
7.0	.195	.097	.027	.192	.095	.027	.185	.093	.027	.178	.091	.027	.172	.089	.026		
8.0	.183	.089	.025	.179	.088	.025	.173	.087	.025	.167	.085	.024	.162	.083	.024		
9.0	.172	.083	.023	.169	.082	.023	.163	.081	.023	.157	.079	.023	.152	.077	.022		
10.0	.162	.077	.022	.159	.077	.021	.154	.075	.021	.149	.074	.021	.144	.072	.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	.203	.203	.203	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.192	.169	.149	.164	.145	.128	.112	.100	.089	.065	.058	.052	.021	.019	.017	
2.0	.184	.145	.113	.157	.125	.098	.108	.086	.068	.062	.050	.040	.020	.016	.013	
3.0	.176	.127	.089	.151	.110	.077	.104	.076	.054	.060	.045	.032	.019	.014	.010	
4.0	.168	.114	.073	.145	.099	.063	.099	.069	.044	.057	.040	.026	.018	.013	.009	
5.0	.161	.104	.061	.138	.090	.053	.095	.063	.038	.055	.037	.022	.018	.012	.007	
6.0	.154	.095	.053	.133	.083	.046	.091	.058	.033	.053	.034	.019	.017	.011	.006	
7.0	.148	.088	.047	.127	.077	.041	.088	.054	.029	.051	.032	.017	.016	.010	.006	
8.0	.141	.083	.043	.122	.072	.037	.084	.050	.026	.049	.030	.016	.016	.010	.005	
9.0	.135	.078	.039	.117	.068	.034	.081	.047	.024	.047	.028	.014	.015	.009	.005	
10.0	.130	.074	.036	.112	.064	.032	.078	.045	.022	.045	.027	.013	.015	.009	.004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-10-16

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:120.00V I:0.1030A P:11.800W PF:0.9500 Freq:60.00Hz Lamp Flux:1005.24x1 lm											
NAME: ASD-LRKR-M6D12WH						TYPE:		WEIGHT:			
SPEC.:5000K						DIM.:		SERIAL No.:			
MFR.: ASD Lighting Corp						SUR.:0.08		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	27.3	28.7	27.5	29.0	29.2	27.1	28.5	27.4	28.8	29.0	
	3H	28.6	29.9	28.9	30.2	30.5	28.3	29.6	28.6	29.9	30.2
	4H	29.0	30.3	29.3	30.5	30.8	28.6	29.9	28.9	30.2	30.5
	6H	29.2	30.4	29.5	30.7	31.0	28.7	29.9	29.0	30.2	30.5
	8H	29.2	30.3	29.5	30.6	31.0	28.7	29.8	29.0	30.1	30.5
	12H	29.1	30.2	29.5	30.6	30.9	28.6	29.7	29.0	30.1	30.4
4H	2H	27.8	29.0	28.1	29.3	29.6	27.6	28.9	27.9	29.2	29.5
	3H	29.2	30.3	29.6	30.7	31.0	29.0	30.1	29.3	30.4	30.7
	4H	29.7	30.8	30.1	31.1	31.5	29.4	30.4	29.8	30.8	31.1
	6H	30.0	30.9	30.4	31.3	31.7	29.5	30.4	30.0	30.8	31.2
	8H	30.0	30.8	30.4	31.2	31.6	29.5	30.4	30.0	30.8	31.2
	12H	30.0	30.7	30.4	31.1	31.6	29.5	30.3	29.9	30.7	31.1
8H	4H	29.9	30.7	30.3	31.1	31.5	29.5	30.4	30.0	30.8	31.2
	6H	30.2	30.8	30.6	31.3	31.7	29.7	30.4	30.2	30.9	31.3
	8H	30.2	30.8	30.7	31.3	31.7	29.7	30.3	30.2	30.8	31.3
	12H	30.2	30.7	30.7	31.2	31.7	29.7	30.2	30.2	30.7	31.2
12H	4H	29.8	30.6	30.3	31.0	31.4	29.5	30.3	30.0	30.7	31.1
	6H	30.1	30.8	30.6	31.2	31.7	29.7	30.3	30.2	30.8	31.3
	8H	30.2	30.7	30.7	31.2	31.7	29.7	30.3	30.2	30.7	31.2
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4					
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.4					

CIE Pub.117, 1005 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.0)
Area: 0.005 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-16

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:120.00V I:0.1030A P:11.800W PF:0.9500 Freq:60.00Hz Lamp Flux:1005.24x1 lm		
NAME: ASD-LRKR-M6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.08	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) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	40	57	46	39	56	46	39	33
0.80	68	57	49	67	56	49	65	55	49	42
1.00	77	66	59	75	65	58	73	66	58	51
1.25	84	74	67	82	73	66	79	71	65	58
1.50	89	79	72	87	78	72	84	76	71	63
2.00	96	87	81	94	86	80	90	84	79	71
2.50	99	92	86	97	90	85	93	88	83	75
3.00	103	96	91	100	95	90	96	91	87	79
4.00	107	101	97	104	99	95	100	96	92	83
5.00	109	104	101	106	102	99	102	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

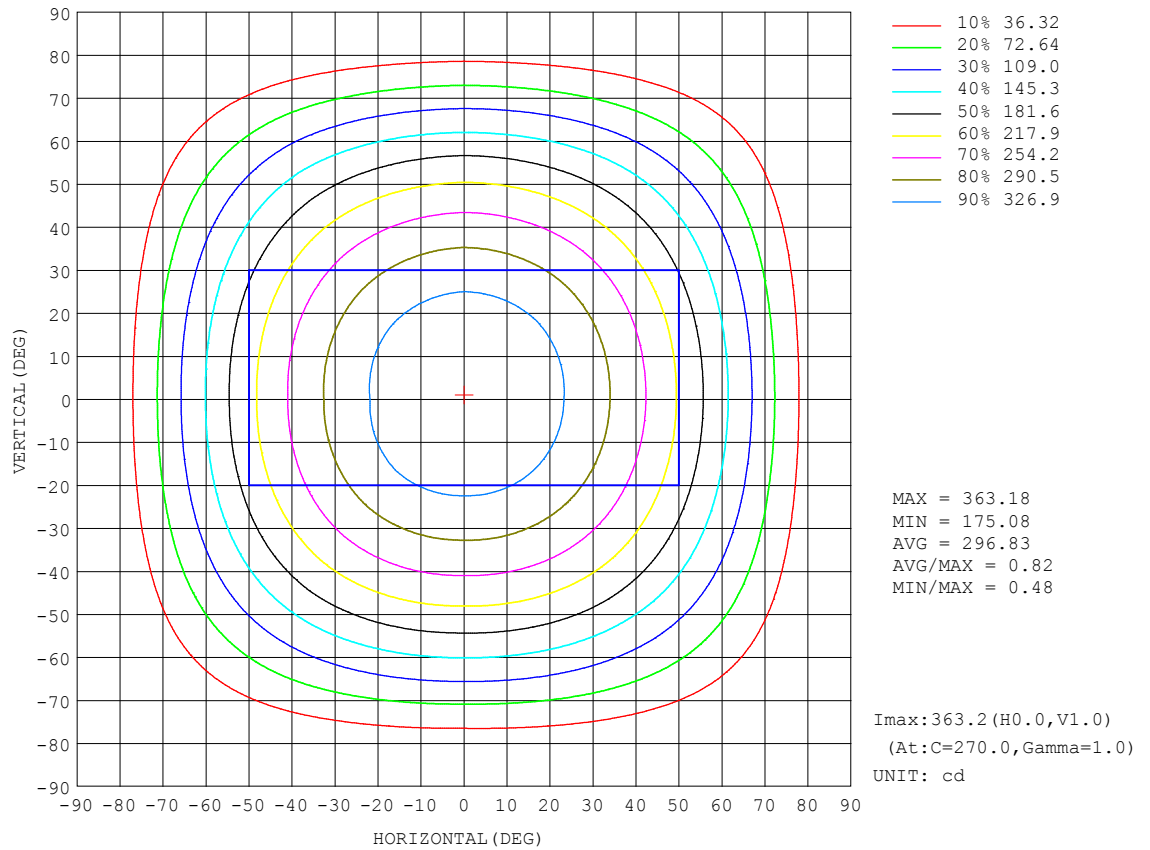
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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.1030A P:11.800W PF:0.9500 Freq:60.00Hz Lamp Flux:1005.24x1 lm		
NAME: ASD-LRKR-M6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.08	Shielding Angle:



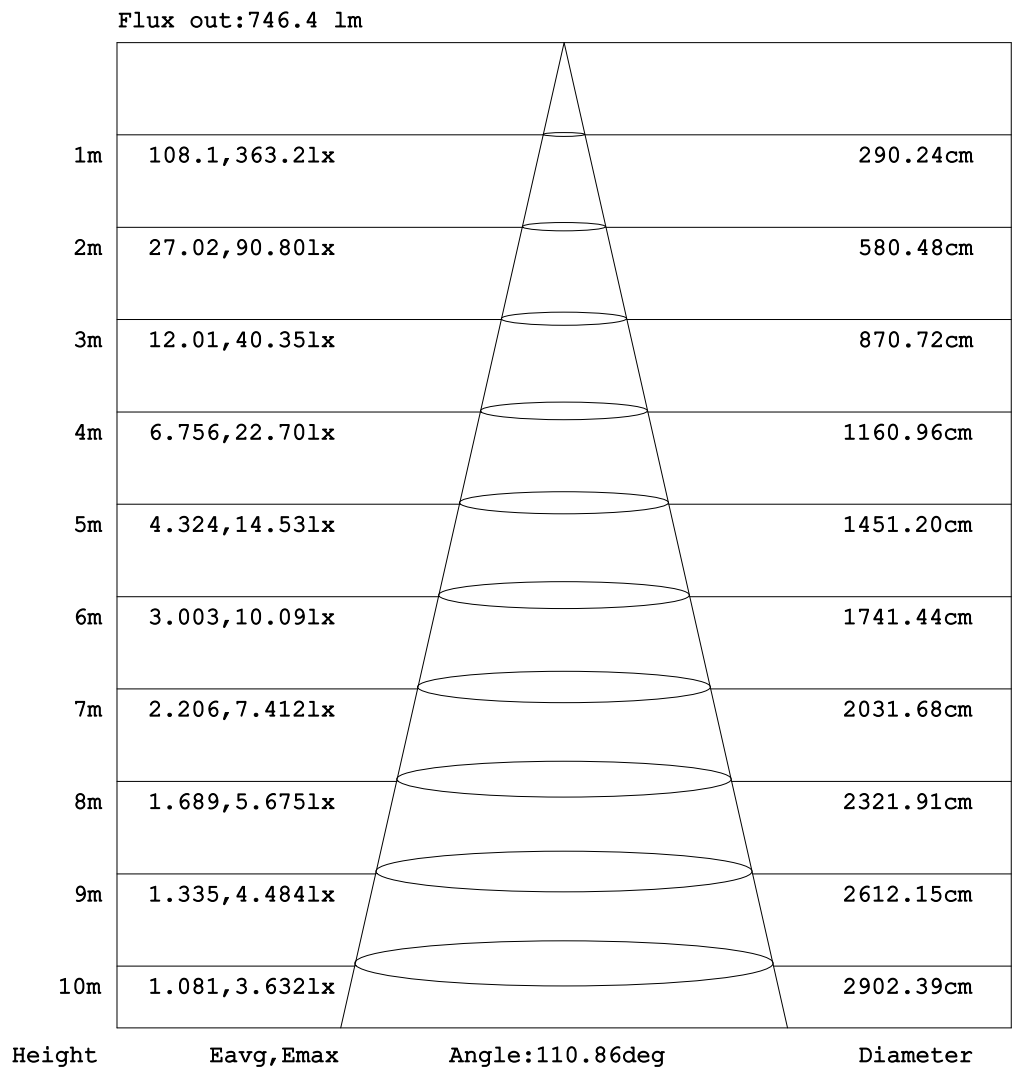
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Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.00V I:0.1030A P:11.800W PF:0.9500 Freq:60.00Hz Lamp Flux:1005.24x1 lm		
NAME: ASD-LRKR-M6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.08	Shielding Angle:



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

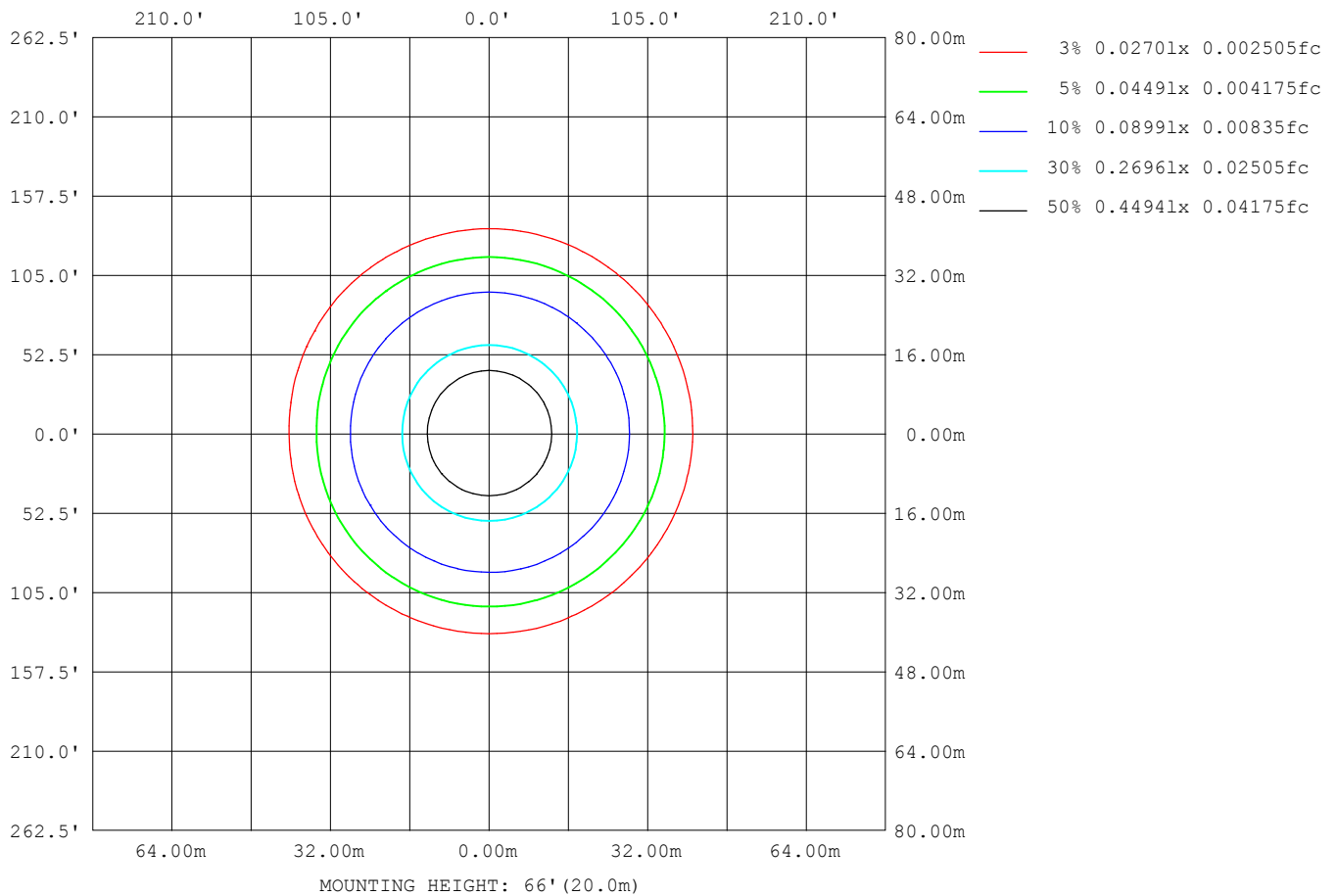
C Range: 0 - 360DEG
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Humidity:65.0%
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:120.00V I:0.1030A P:11.800W PF:0.9500 Freq:60.00Hz Lamp Flux:1005.24x1 lm		
NAME: ASD-LRKR-M6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.08	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-16

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:120.00V I:0.1030A P:11.800W PF:0.9500 Freq:60.00Hz Lamp Flux:1005.24x1 lm		
NAME: ASD-LRKR-M6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.08	Shielding Angle:

AvgL	cd/m2
L_0~180 (65) av	56308
L_0~180 (75) av	40306
L_0~180 (85) av	8338
L_90~270 (65) av	56394
L_90~270 (75) av	40328
L_90~270 (85) av	9829
L_45 (65) av	56392
L_45 (75) av	40355
L_45 (85) av	9243

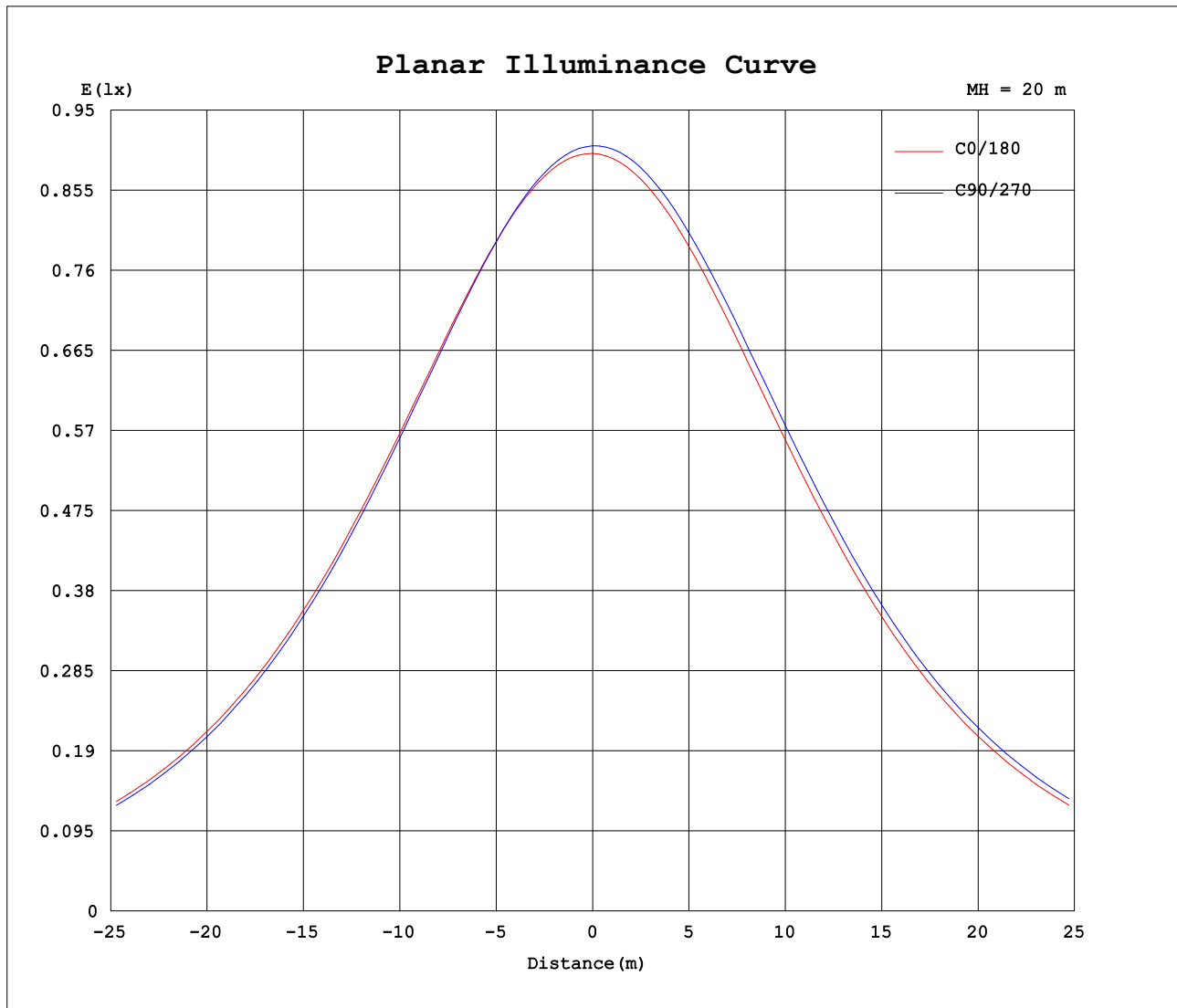
Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-16

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

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-10-16

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:120.00V I:0.1030A P:11.800W PF:0.9500 Freq:60.00Hz Lamp Flux:1005.24x1 lm		
NAME: ASD-LRKR-M6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.08	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	362	362	362	362	362	362	362	362										
5	361	360	360	360	360	361	361	361										
10	356	355	354	354	354	356	357	357										
15	349	347	345	345	346	348	350	349										
20	338	335	333	334	334	337	339	338										
25	324	321	318	319	320	323	326	325										
30	308	304	300	302	302	307	310	308										
35	288	284	281	282	283	287	291	289										
40	267	262	258	260	261	266	269	267										
45	243	238	234	235	236	242	246	244										
50	216	211	207	208	209	215	219	217										
55	187	182	177	179	180	186	191	188										
60	156	148	146	146	147	156	157	157										
65	123	116	113	114	115	123	125	124										
70	88.7	82.7	78.2	80.6	81.9	88.6	92.3	90.8										
75	55.2	49.9	45.5	47.8	49.1	54.8	58.9	56.3										
80	24.5	20.2	16.8	18.5	19.3	24.1	27.5	25.2										
85	4.32	4.03	3.61	4.00	2.95	3.89	4.95	4.20										
90	2.05	2.05	2.12	2.14	1.24	1.26	1.24	1.29										
95	2.14	2.18	2.24	2.28	1.42	1.38	1.36	1.36										
100	2.28	2.32	2.39	2.44	1.62	1.59	1.56	1.56										
105	2.41	2.44	2.47	2.60	1.83	1.80	1.76	1.76										
110	2.55	2.58	2.62	2.76	2.05	2.02	1.98	1.98										
115	2.67	2.71	2.81	2.90	2.26	2.22	2.20	2.19										
120	2.79	2.82	2.93	3.03	2.47	2.41	2.41	2.40										
125	2.89	2.92	3.03	3.13	2.66	2.61	2.61	2.60										
130	2.98	3.02	3.06	3.23	2.86	2.81	2.81	2.81										
135	3.10	3.13	3.18	3.33	3.06	2.99	3.01	3.02										
140	3.23	3.27	3.32	3.46	3.26	3.20	3.21	3.23										
145	3.39	3.43	3.50	3.61	3.46	3.41	3.42	3.45										
150	3.57	3.61	3.70	3.77	3.66	3.61	3.63	3.64										
155	3.76	3.78	3.88	3.94	3.86	3.81	3.82	3.82										
160	3.94	3.95	4.01	4.08	4.04	3.98	4.01	3.99										
165	4.12	4.11	4.16	4.16	4.20	4.14	4.17	4.15										
170	4.27	4.24	4.29	4.29	4.33	4.27	4.31	4.28										
175	4.38	4.34	4.39	4.39	4.42	4.37	4.41	4.38										
180	4.46	4.39	4.44	4.43	4.44	4.41	4.44	4.44										

C Range: 0 - 360DEG
C Interval: 45.0DEG
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γ Range: 0 - 180DEG
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