

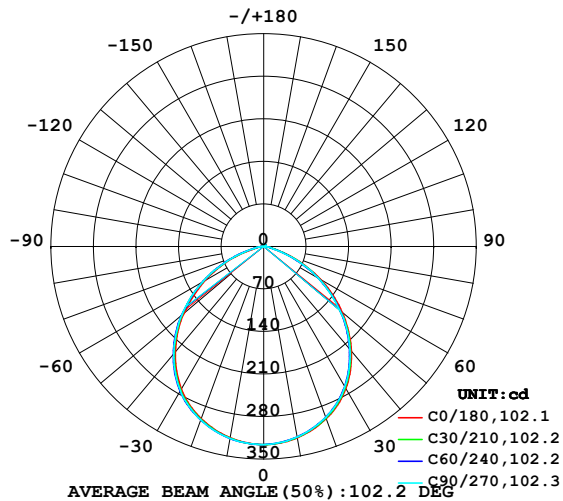
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

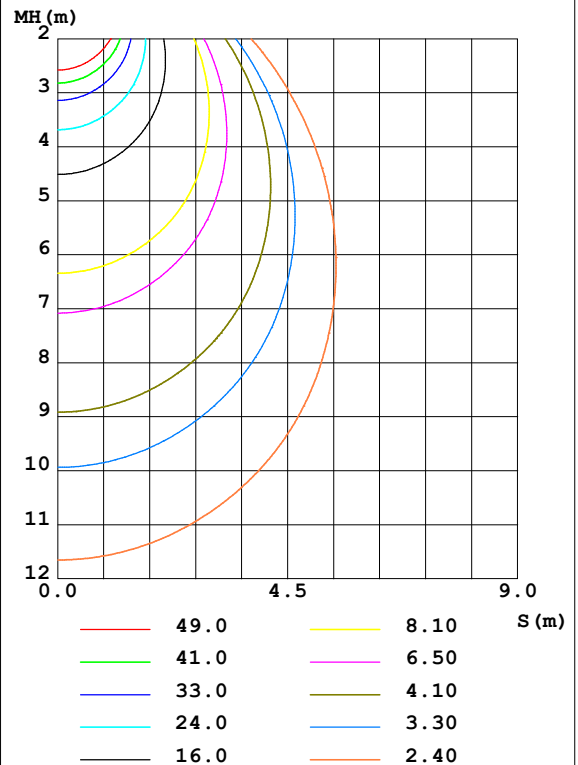
Test:U:120.10V I:0.0860A P:9.5400W PF:0.9210 Freq:60.00Hz Lamp Flux:810.358x1 lm		
NAME: ASD-LRKR-M4D10BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.08	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 84.94 lm/W			
MODEL	ASD-LRKR-M4D10BK	I _{max} (cd)	326.1	S/MH (C0/180)	1.24
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	810.36	η UP, DN (C0-180)	1.0, 48.2
NOMINAL FLUX (lm)	810.358	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.8, 50.0
LAMPS INSIDE	1	η up (%)	1.8	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120.0	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: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-07-20

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	319.7	318.6	318.3	319.1	319.4	320.5	320.7	320.1	0- 10	30.81	30.81	3.8,3.8
20	301.4	299.6	299.1	300.6	301.3	303.2	303.5	302.3	10- 20	87.99	118.8	14.7,14.7
30	270.5	267.5	267.2	269.9	271.0	274.3	274.4	272.0	20- 30	132.6	251.4	31,31
40	224.5	221.0	220.9	224.5	226.3	230.2	230.4	227.2	30- 40	156.0	407.4	50.3,50.3
50	168.9	164.1	162.8	169.2	171.0	176.3	176.4	173.0	40- 50	153.4	560.8	69.2,69.2
60	107.6	103.5	102.8	108.5	110.2	115.1	115.9	111.5	50- 60	125.0	685.8	84.6,84.6
70	46.09	43.44	42.00	48.28	49.60	54.21	53.88	50.74	60- 70	77.67	763.5	94.2,94.2
80	10.45	10.27	9.290	11.65	10.19	12.30	11.83	12.66	70- 80	26.84	790.3	97.5,97.5
90	1.633	1.822	1.670	2.128	0.8897	1.139	0.9476	2.017	80- 90	5.545	795.9	98.2,98.2
100	1.829	1.974	1.884	2.125	1.226	1.187	1.176	1.944	90-100	1.780	797.6	98.4,98.4
110	2.065	2.221	2.117	2.222	1.625	1.580	1.569	1.950	100-110	1.928	799.6	98.7,98.7
120	2.273	2.446	2.333	2.437	2.026	1.974	1.971	2.147	110-120	2.060	801.6	98.9,98.9
130	2.472	2.620	2.529	2.601	2.393	2.332	2.346	2.362	120-130	2.099	803.7	99.2,99.2
140	2.685	2.795	2.740	2.743	2.736	2.680	2.698	2.704	130-140	2.005	805.7	99.4,99.4
150	2.943	3.037	3.015	2.981	3.081	3.034	3.054	3.047	140-150	1.800	807.5	99.7,99.7
160	3.294	3.326	3.369	3.323	3.423	3.377	3.411	3.372	150-160	1.473	809.0	99.8,99.8
170	3.614	3.613	3.660	3.726	3.704	3.655	3.688	3.662	160-170	0.9915	810.0	100,100
180	3.793	3.772	3.809	3.868	3.807	3.770	3.818	3.863	170-180	0.3568	810.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

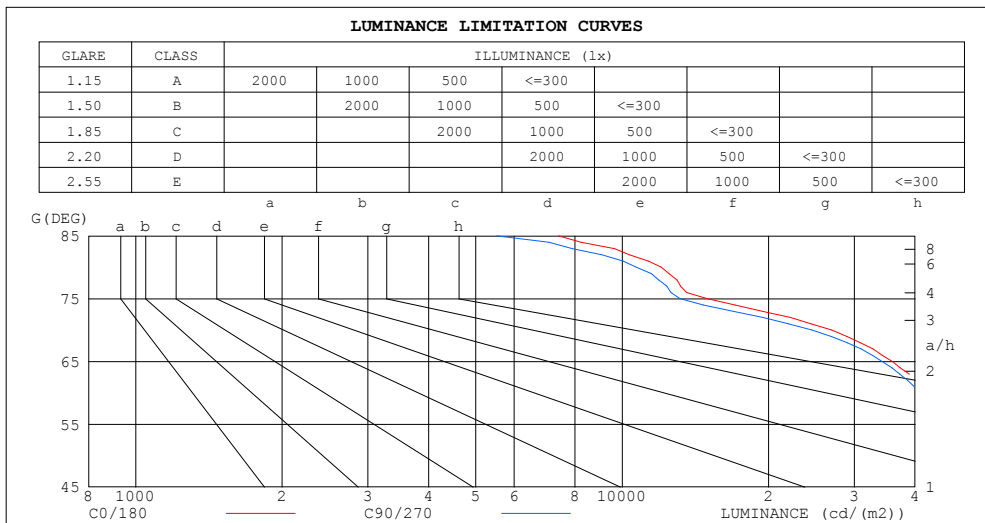
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-07-20

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:0.0860A P:9.5400W PF:0.9210 Freq:60.00Hz Lamp Flux:810.358x1 lm		
NAME: ASD-LRKR-M4D10BK	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	7404	5527
80	12032	10689
75	14947	13139
70	26939	24538
65	35918	34218
60	43026	41079
55	48256	46424
50	52517	50616
45	55888	54839

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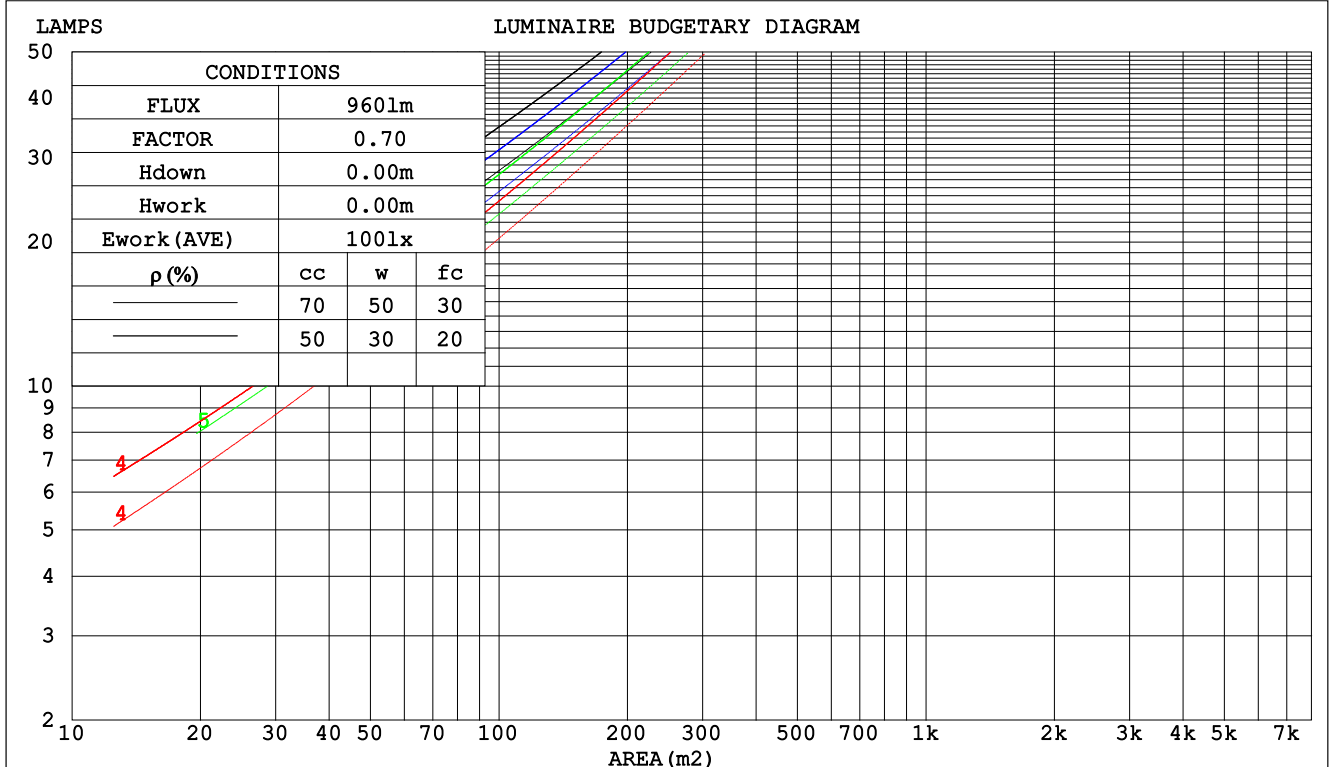
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
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Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.10V I:0.0860A P:9.5400W PF:0.9210 Freq:60.00Hz Lamp Flux:810.358x1 lm		
NAME: ASD-LRKR-M4D10BK	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						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	.98	1.03	.90	.97	.99	.96	.93	.94	.92	.90	.91	.89	.87	.85
2.0	.93	.87	.82	.91	.86	.81	.87	.83	.79	.84	.80	.77	.81	.78	.75	.73
3.0	.83	.75	.69	.81	.74	.68	.78	.72	.67	.75	.70	.66	.72	.68	.64	.62
4.0	.74	.65	.59	.72	.65	.59	.70	.63	.58	.67	.61	.57	.65	.60	.56	.54
5.0	.66	.58	.51	.65	.57	.51	.63	.56	.50	.61	.54	.50	.59	.53	.49	.47
6.0	.60	.51	.45	.59	.51	.45	.57	.50	.44	.55	.49	.44	.53	.48	.43	.41
7.0	.54	.46	.40	.53	.45	.40	.52	.45	.39	.50	.44	.39	.49	.43	.39	.37
8.0	.50	.41	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.45	.39	.35	.33
9.0	.46	.38	.32	.45	.37	.32	.44	.37	.32	.43	.36	.32	.41	.36	.31	.30
10.0	.42	.34	.29	.42	.34	.29	.40	.34	.29	.39	.33	.29	.38	.33	.29	.27



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-20

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:0.0860A P:9.5400W PF:0.9210 Freq:60.00Hz Lamp Flux:810.358x1 lm					
NAME: ASD-LRKR-M4D10BK			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 Coefficients(WEC)										
0.0																	
1.0	.270	.154	.049	.263	.150	.048	.249	.143	.046	.236	.136	.044	.224	.130	.042		
2.0	.261	.143	.044	.255	.140	.043	.242	.135	.042	.231	.130	.041	.220	.125	.039		
3.0	.246	.131	.039	.241	.129	.039	.230	.124	.038	.220	.120	.037	.210	.116	.036		
4.0	.231	.120	.035	.226	.118	.035	.216	.114	.034	.207	.111	.033	.198	.108	.033		
5.0	.216	.110	.032	.211	.108	.032	.202	.105	.031	.194	.103	.030	.187	.100	.030		
6.0	.202	.101	.029	.198	.100	.029	.190	.097	.028	.183	.095	.028	.176	.093	.027		
7.0	.189	.093	.026	.185	.092	.026	.178	.090	.026	.172	.088	.026	.166	.086	.025		
8.0	.177	.087	.024	.174	.086	.024	.168	.084	.024	.162	.082	.024	.156	.080	.023		
9.0	.167	.081	.023	.164	.080	.022	.158	.078	.022	.153	.077	.022	.148	.075	.022		
10.0	.158	.076	.021	.155	.075	.021	.150	.073	.021	.145	.072	.020	.140	.071	.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	.164	.146	.130	.112	.101	.090	.064	.058	.052	.021	.019	.017	
2.0	.182	.146	.116	.156	.126	.100	.107	.087	.070	.062	.051	.041	.020	.016	.013	
3.0	.174	.128	.092	.149	.110	.079	.102	.077	.056	.059	.045	.033	.019	.015	.011	
4.0	.166	.115	.075	.143	.099	.065	.098	.069	.046	.057	.040	.027	.018	.013	.009	
5.0	.159	.104	.063	.137	.090	.055	.094	.063	.039	.055	.037	.023	.018	.012	.008	
6.0	.152	.096	.055	.131	.083	.048	.090	.058	.034	.052	.034	.020	.017	.011	.007	
7.0	.146	.089	.049	.125	.077	.042	.087	.054	.030	.050	.032	.018	.016	.010	.006	
8.0	.140	.083	.044	.120	.072	.038	.083	.050	.027	.048	.030	.016	.016	.010	.005	
9.0	.134	.078	.040	.115	.068	.035	.080	.048	.025	.047	.028	.015	.015	.009	.005	
10.0	.129	.074	.037	.111	.064	.032	.077	.045	.023	.045	.027	.014	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-07-20

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:0.0860A P:9.5400W PF:0.9210 Freq:60.00Hz Lamp Flux:810.358x1 lm											
NAME: ASD-LRKR-M4D10BK						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		26.6	28.1	26.9	28.3	28.5	26.5	27.9	26.8	28.1	28.4
	3H	27.4	28.7	27.7	29.0	29.2	27.2	28.5	27.5	28.8	29.0
	4H	27.5	28.7	27.8	29.0	29.3	27.3	28.5	27.6	28.8	29.0
	6H	27.5	28.6	27.8	28.9	29.2	27.2	28.4	27.6	28.7	29.0
	8H	27.5	28.6	27.8	28.9	29.2	27.2	28.3	27.6	28.6	29.0
	12H	27.4	28.5	27.8	28.8	29.1	27.2	28.2	27.5	28.6	28.9
4H	2H	27.0	28.2	27.3	28.5	28.8	26.9	28.1	27.2	28.4	28.7
	3H	27.9	28.9	28.2	29.2	29.6	27.7	28.7	28.0	29.0	29.4
	4H	28.0	28.9	28.4	29.3	29.7	27.8	28.7	28.1	29.1	29.4
	6H	28.0	28.9	28.4	29.2	29.6	27.8	28.6	28.2	29.0	29.4
	8H	28.0	28.8	28.5	29.2	29.6	27.8	28.6	28.2	29.0	29.4
	12H	28.0	28.7	28.5	29.1	29.6	27.8	28.5	28.2	28.9	29.3
8H	4H	28.0	28.7	28.4	29.1	29.6	27.7	28.5	28.2	28.9	29.3
	6H	28.1	28.7	28.5	29.1	29.6	27.8	28.5	28.3	28.9	29.4
	8H	28.1	28.7	28.6	29.1	29.6	27.9	28.4	28.3	28.9	29.4
	12H	28.1	28.6	28.6	29.0	29.6	27.8	28.3	28.3	28.8	29.3
12H	4H	27.9	28.6	28.4	29.1	29.5	27.7	28.4	28.2	28.8	29.3
	6H	28.0	28.6	28.5	29.1	29.5	27.8	28.4	28.3	28.8	29.3
	8H	28.1	28.6	28.6	29.0	29.6	27.8	28.3	28.3	28.8	29.3
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.5					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4					
2.0H	+ 0.7 / - 0.7					+ 0.7 / - 0.7					

CIE Pub.117, 810.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.7)
Area: 0.005 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-20

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:0.0860A P:9.5400W PF:0.9210 Freq:60.00Hz Lamp Flux:810.358x1 lm		
NAME: ASD-LRKR-M4D10BK	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) $k(RI) \times RCR = 5$									
$k = 0.60$	60	49	43	60	49	43	58	49	42	36
0.80	71	60	53	70	59	53	68	58	52	46
1.00	79	69	62	78	68	62	76	69	61	55
1.25	86	77	70	85	76	70	82	74	69	62
1.50	91	82	76	89	81	75	86	79	74	67
2.00	97	90	84	96	89	83	92	86	82	74
2.50	101	94	89	99	93	88	95	90	86	77
3.00	104	98	93	102	96	92	98	93	89	81
4.00	108	103	98	105	101	97	101	97	94	85
5.00	110	105	102	107	103	100	102	99	97	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

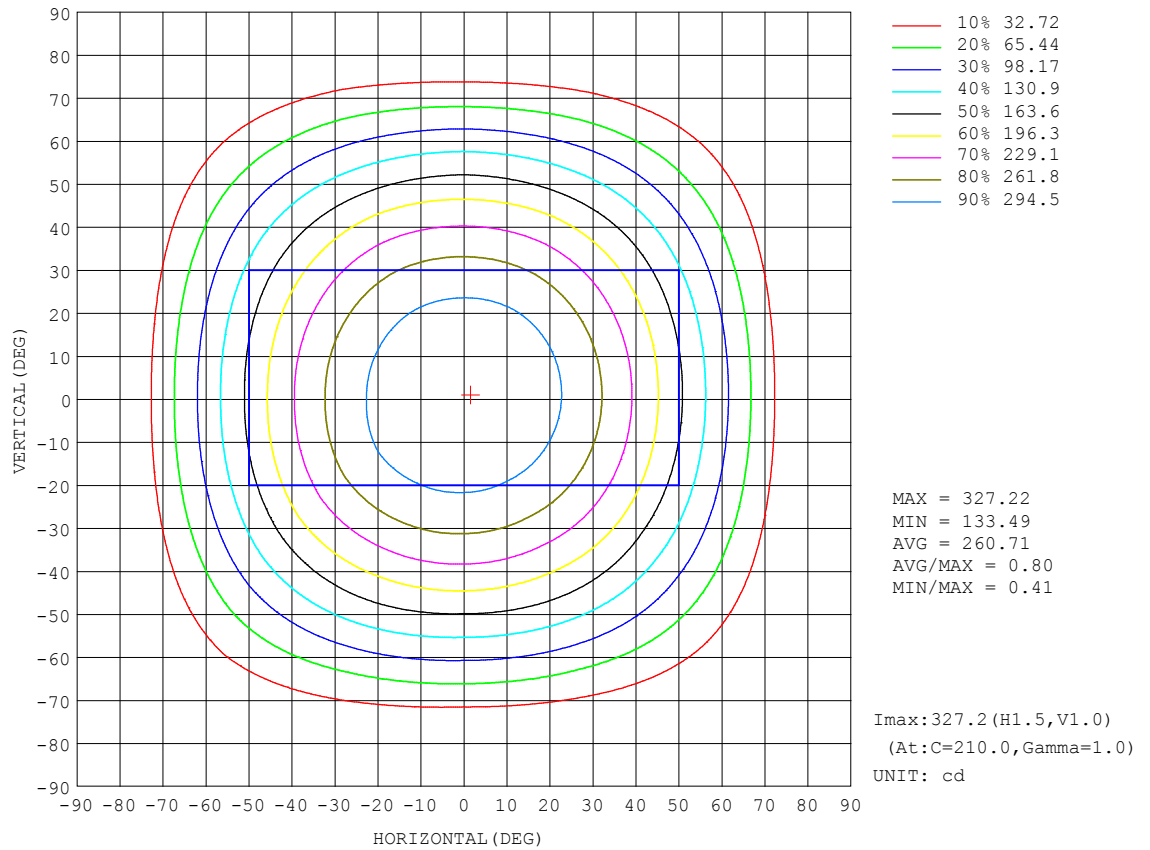
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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

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SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.08	Shielding Angle:



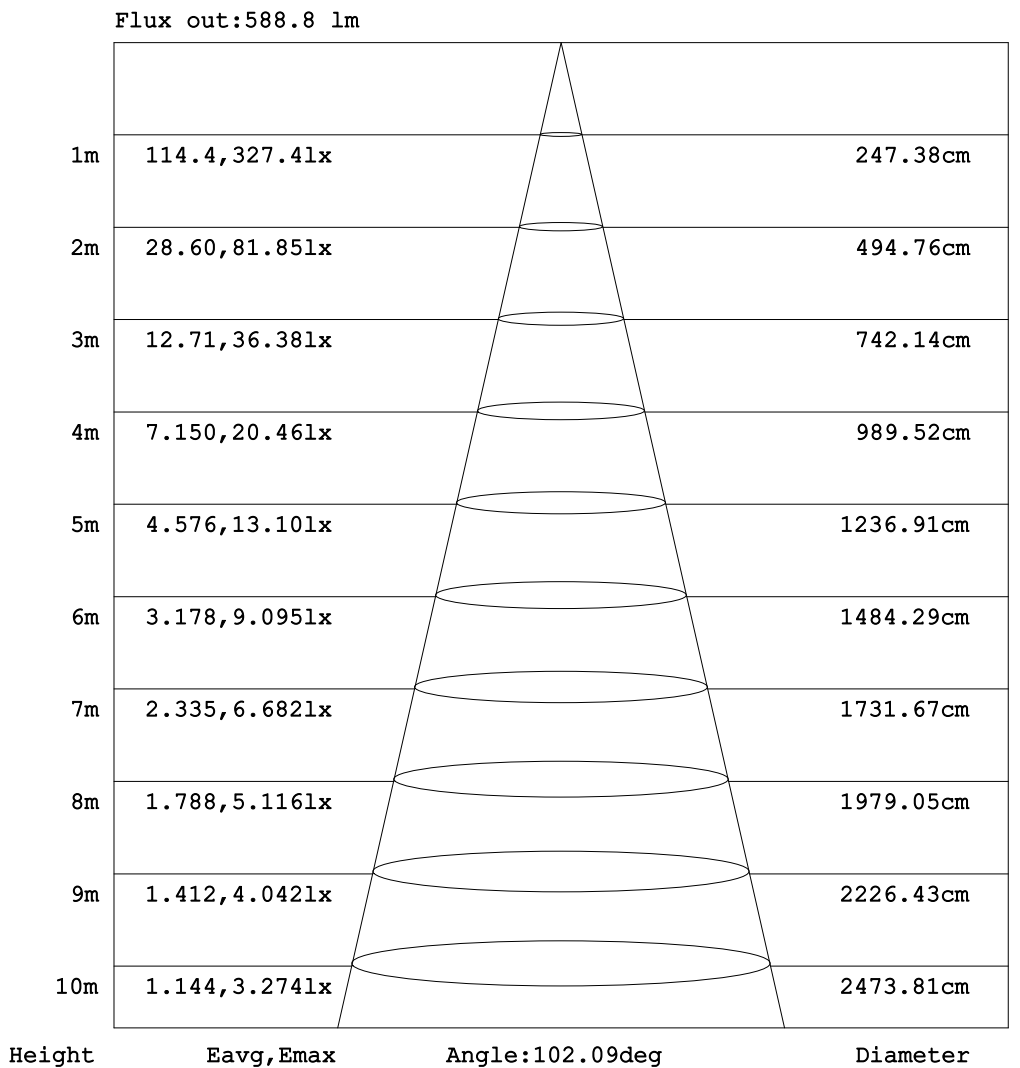
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.10V I:0.0860A P:9.5400W PF:0.9210 Freq:60.00Hz Lamp Flux:810.358x1 lm		
NAME: ASD-LRKR-M4D10BK	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.

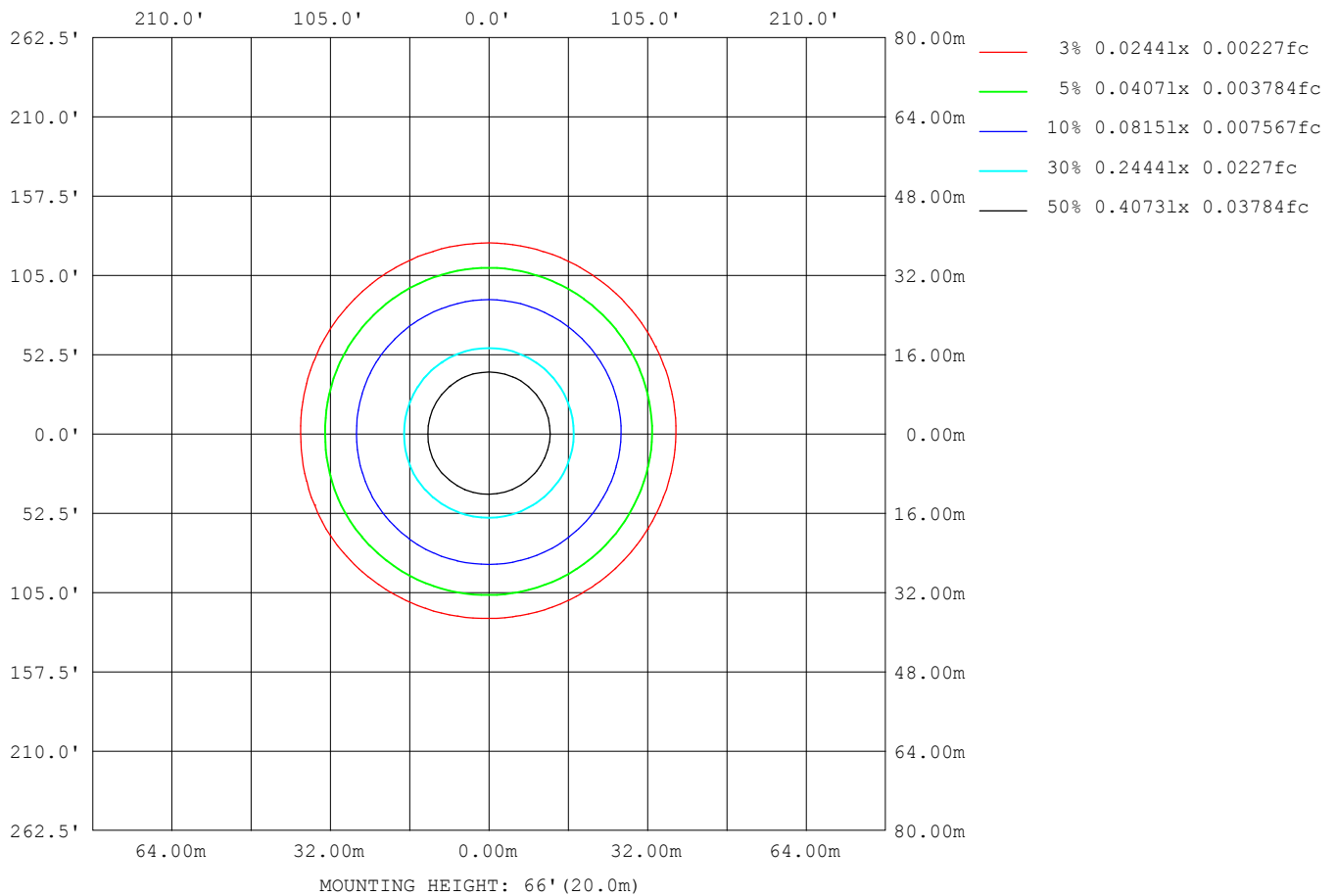
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:120.10V I:0.0860A P:9.5400W PF:0.9210 Freq:60.00Hz Lamp Flux:810.358x1 lm		
NAME: ASD-LRKR-M4D10BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.08	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-20

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:0.0860A P:9.5400W PF:0.9210 Freq:60.00Hz Lamp Flux:810.358x1 lm		
NAME: ASD-LRKR-M4D10BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.08	Shielding Angle:

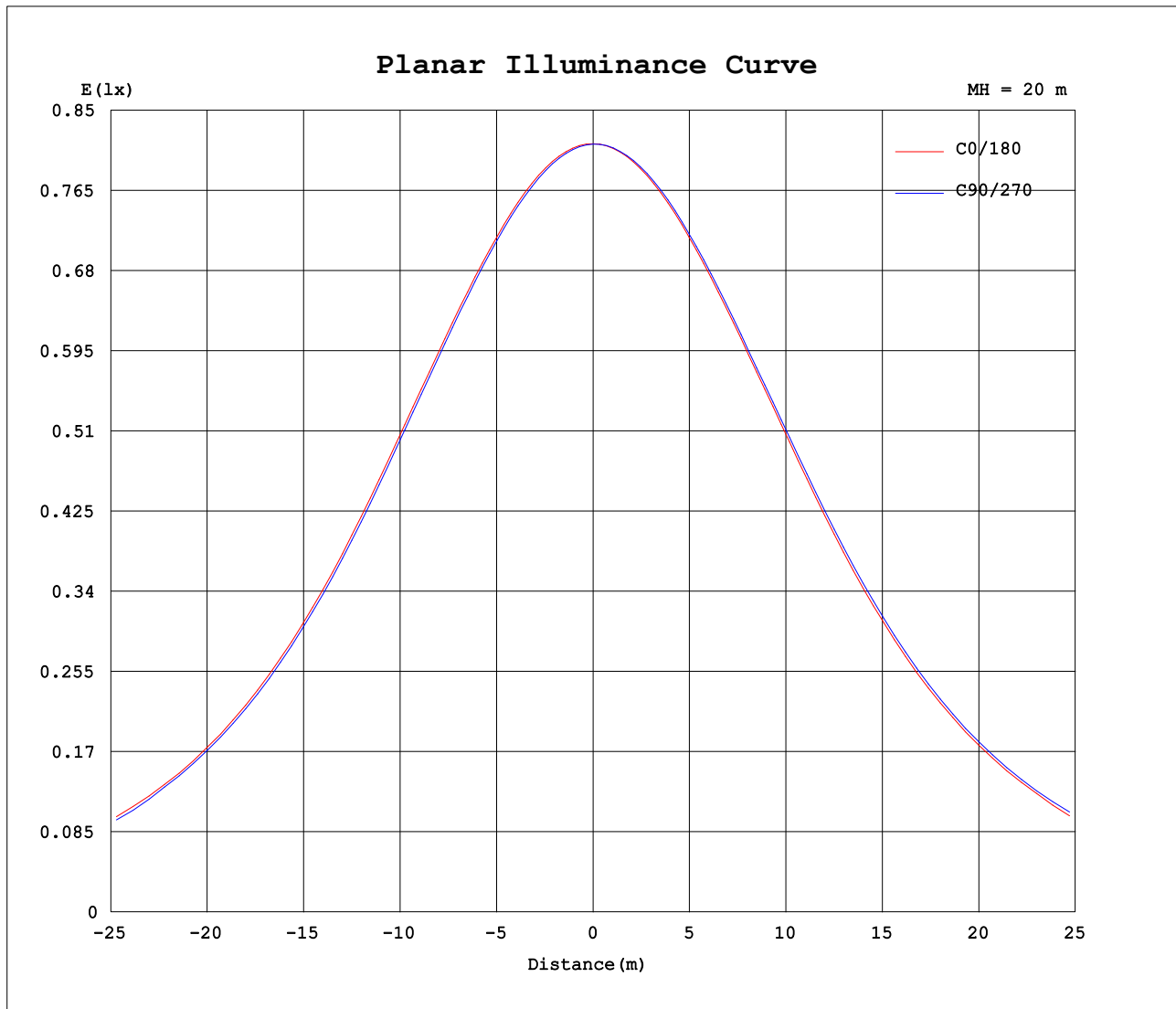
AvgL	cd/m2
L_0~180 (65) av	36839
L_0~180 (75) av	15384
L_0~180 (85) av	6966
L_90~270 (65) av	36877
L_90~270 (75) av	16584
L_90~270 (85) av	7598
L_45 (65) av	37136
L_45 (75) av	18652
L_45 (85) av	11469

Standard: GB/T 29293-2012

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Humidity:65.0%
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Remarks:

Planar Illuminance Curve



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 Temperature: 25.3DEG
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 Test Date: 2024-07-20

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 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
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 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.10V I:0.0860A P:9.5400W PF:0.9210 Freq:60.00Hz Lamp Flux:810.358x1 lm		
NAME: ASD-LRKR-M4D10BK	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	30	60	90	120	150	180	210	240	270	300	330							
0	326	326	326	326	326	326	326	326	326	326	326	326							
5	324	324	324	324	324	324	324	325	325	325	325	324							
10	320	319	318	318	319	320	319	320	321	321	321	320							
15	312	311	310	310	310	312	312	313	314	314	313	312							
20	301	300	299	299	300	302	301	303	304	304	303	302							
25	288	286	285	285	286	288	288	290	291	291	290	288							
30	270	268	266	267	268	271	271	273	275	274	273	271							
35	249	247	244	245	247	250	250	253	255	254	253	250							
40	224	222	220	221	222	227	226	229	232	230	229	225							
45	198	195	193	194	196	200	200	203	206	205	203	199							
50	169	164	164	163	167	171	171	175	178	176	175	171							
55	138	134	134	133	137	141	141	145	146	147	143	141							
60	108	104	103	103	106	111	110	115	116	116	113	110							
65	75.9	73.5	71.1	72.4	74.6	80.0	79.8	82.6	85.1	83.5	82.4	78.0							
70	46.1	44.7	42.1	42.0	45.8	50.7	49.6	53.0	55.4	53.9	52.7	48.8							
75	19.4	20.2	18.9	17.0	21.1	24.6	20.5	25.8	28.9	25.9	26.7	23.9							
80	10.5	10.5	10.00	9.29	11.1	12.1	10.2	11.8	12.8	11.8	12.8	12.5							
85	3.23	3.85	3.78	2.41	4.37	5.02	2.84	4.75	5.40	4.21	5.72	5.49							
90	1.63	1.79	1.86	1.67	2.13	2.13	0.89	1.03	1.24	0.95	1.56	2.47							
95	1.72	1.84	1.89	1.77	2.10	2.13	1.05	1.01	1.01	1.00	1.53	2.40							
100	1.83	1.94	2.01	1.88	2.11	2.14	1.23	1.19	1.18	1.18	1.58	2.31							
105	1.94	2.05	2.15	2.00	2.15	2.16	1.42	1.39	1.37	1.37	1.65	2.18							
110	2.06	2.18	2.27	2.12	2.22	2.23	1.62	1.59	1.57	1.57	1.77	2.12							
115	2.17	2.31	2.38	2.23	2.35	2.27	1.83	1.78	1.77	1.77	1.93	2.12							
120	2.27	2.42	2.47	2.33	2.50	2.37	2.03	1.98	1.96	1.97	2.10	2.20							
125	2.37	2.51	2.56	2.44	2.59	2.47	2.21	2.16	2.15	2.16	2.24	2.26							
130	2.47	2.60	2.64	2.53	2.65	2.55	2.39	2.33	2.33	2.35	2.38	2.35							
135	2.56	2.69	2.74	2.63	2.69	2.64	2.56	2.50	2.51	2.52	2.55	2.52							
140	2.68	2.76	2.82	2.74	2.74	2.75	2.74	2.68	2.68	2.70	2.72	2.69							
145	2.81	2.87	2.93	2.87	2.84	2.87	2.92	2.85	2.87	2.88	2.89	2.86							
150	2.94	3.04	3.03	3.01	2.95	3.01	3.08	3.02	3.04	3.05	3.06	3.03							
155	3.12	3.18	3.18	3.20	3.17	3.16	3.25	3.20	3.22	3.23	3.23	3.20							
160	3.29	3.33	3.32	3.37	3.34	3.31	3.42	3.37	3.39	3.41	3.39	3.35							
165	3.46	3.50	3.47	3.52	3.59	3.43	3.58	3.52	3.54	3.56	3.54	3.50							
170	3.61	3.62	3.61	3.66	3.79	3.67	3.70	3.64	3.67	3.69	3.72	3.61							
175	3.73	3.72	3.70	3.75	3.79	3.85	3.78	3.73	3.75	3.77	3.93	3.70							
180	3.79	3.77	3.77	3.81	3.90	3.83	3.81	3.77	3.77	3.82	3.89	3.83							

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