

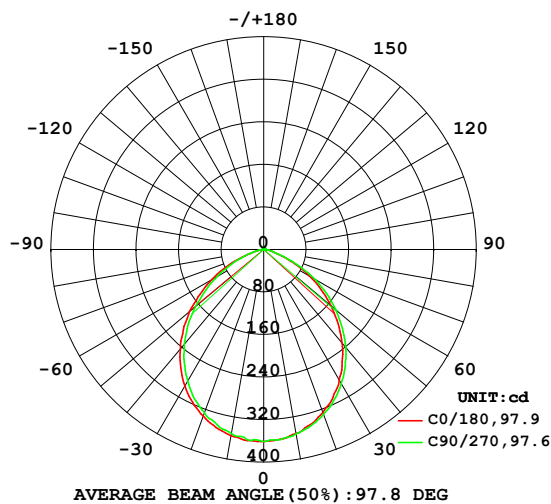
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

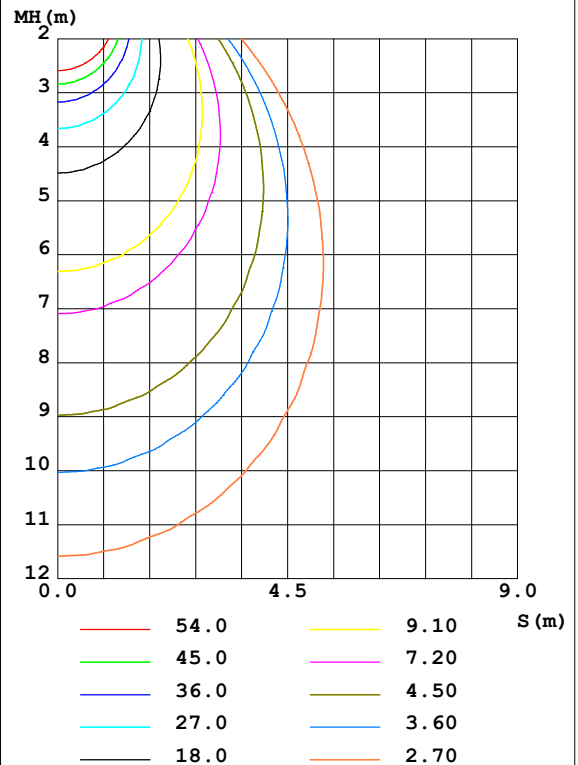
Test:U:120.00V I:0.0840A P:10.000W PF:0.9880 Freq:60.00Hz Lamp Flux:838.371x1 lm		
NAME: ASD-JBR-DB-4D10WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.09	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 83.84 lm/W			
MODEL	ASD-JBR-DB-4D10WH	I _{max} (cd)	362.8	S/MH (C0/180)	1.23
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	1.18
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	838.37	η UP, DN (C0-180)	0.9, 49.5
NOMINAL FLUX (lm)	838.371	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.8, 48.8
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: 2024-06-05

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	351.4	353.6	352.3	355.1	355.8	354.3	351.6	350.1	0- 10	34.08	34.08	4.07,4.07
20	326.5	329.9	329.9	334.5	333.5	332.1	326.5	324.7	10- 20	96.75	130.8	15.6,15.6
30	284.2	289.6	291.6	299.1	296.6	293.1	286.1	281.3	20- 30	143.5	274.4	32.7,32.7
40	229.8	235.0	240.3	247.2	244.0	240.1	232.5	225.2	30- 40	165.4	439.8	52.5,52.5
50	165.7	170.4	177.6	185.4	182.4	176.1	167.3	161.3	40- 50	158.5	598.3	71.4,71.4
60	99.18	103.4	110.0	116.7	112.3	108.8	100.1	95.07	50- 60	124.2	722.5	86.2,86.2
70	36.07	42.19	38.46	52.61	44.17	45.28	40.74	35.83	60- 70	71.92	794.5	94.8,94.8
80	9.761	11.55	10.11	14.37	10.95	11.99	10.86	10.01	70- 80	24.13	818.6	97.6,97.6
90	1.698	1.708	1.683	2.206	0.8826	0.9188	1.085	0.9499	80- 90	5.190	823.8	98.3,98.3
100	1.896	1.910	1.881	1.859	1.212	1.224	1.277	1.301	90-100	1.556	825.3	98.4,98.4
110	2.145	2.151	2.116	2.095	1.642	1.654	1.705	1.737	100-110	1.834	827.2	98.7,98.7
120	2.399	2.390	2.343	2.340	2.087	2.090	2.156	2.174	110-120	2.060	829.2	98.9,98.9
130	2.608	2.615	2.576	2.557	2.503	2.497	2.556	2.571	120-130	2.157	831.4	99.2,99.2
140	2.846	2.862	2.805	2.794	2.894	2.882	2.934	2.954	130-140	2.101	833.5	99.4,99.4
150	3.145	3.149	3.093	3.075	3.268	3.247	3.309	3.314	140-150	1.902	835.4	99.6,99.6
160	3.497	3.511	3.452	3.433	3.631	3.612	3.649	3.641	150-160	1.558	836.9	99.8,99.8
170	3.854	3.826	3.785	3.760	3.941	3.882	3.925	3.886	160-170	1.048	838.0	100,100
180	4.053	4.014	4.001	3.985	4.058	4.008	4.006	3.979	170-180	0.3748	838.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

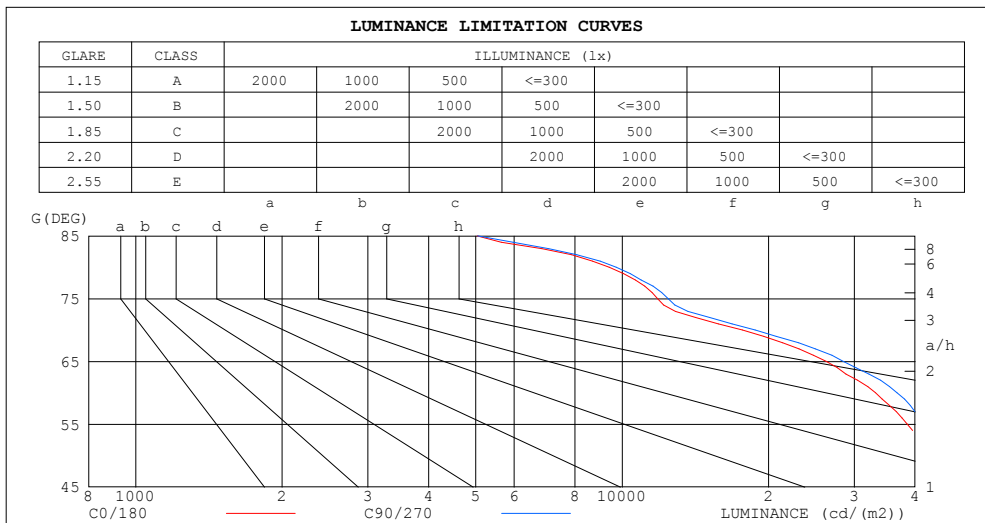
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-06-05

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:0.0840A P:10.000W PF:0.9880 Freq:60.00Hz Lamp Flux:838.371x1 lm		
NAME: ASD-JBR-DB-4D10WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.09	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5031	5045
80	9407	9722
75	11825	12434
70	17651	18773
65	26250	28485
60	33194	36740
55	38531	42022
50	43149	46137
45	47040	49515

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-06-05

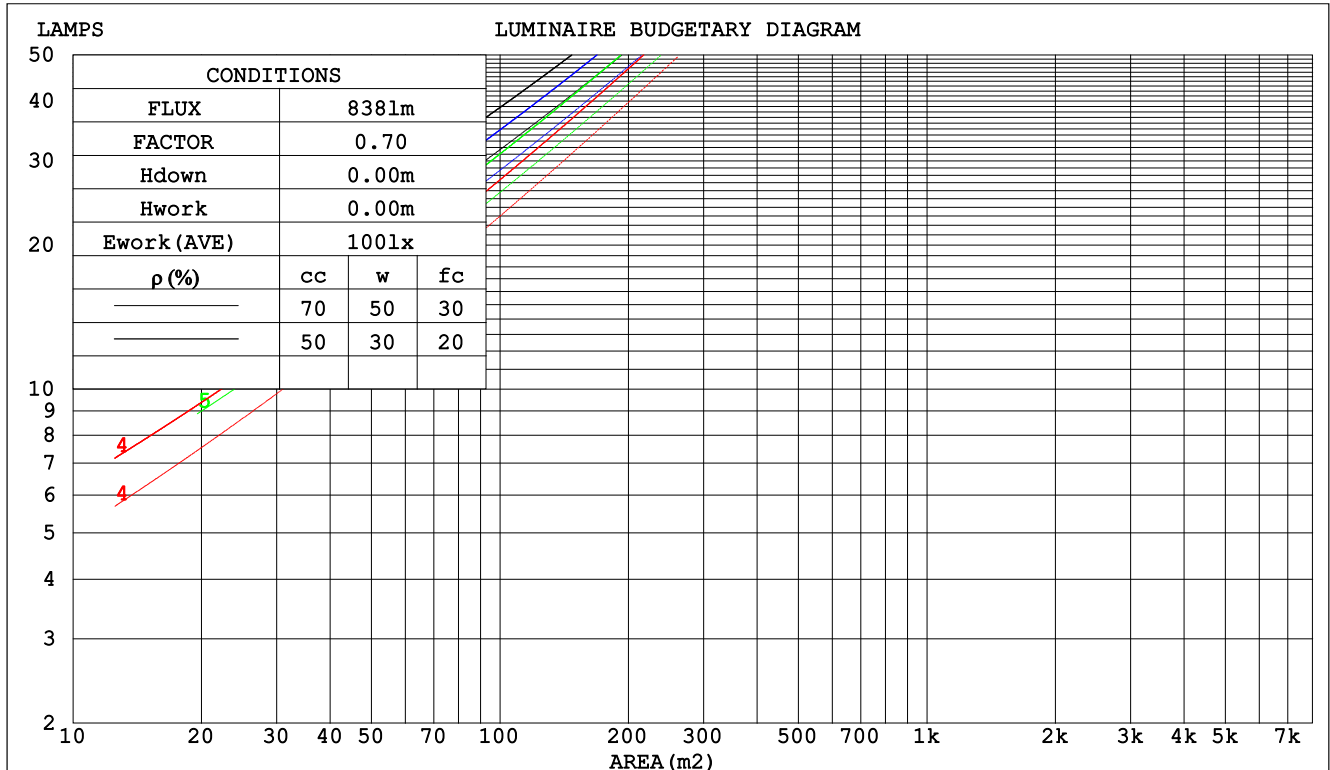
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γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.0840A P:10.000W PF:0.9880 Freq:60.00Hz Lamp Flux:838.371x1 lm		
NAME: ASD-JBR-DB-4D10WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.09	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	1.06	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	.82	.88	.84	.80	.85	.81	.78	.81	.78	.76	.73
3.0	.83	.76	.70	.82	.75	.70	.79	.73	.68	.76	.71	.67	.73	.69	.65	.63
4.0	.75	.67	.61	.73	.66	.60	.71	.64	.59	.68	.63	.58	.66	.61	.57	.55
5.0	.67	.59	.53	.66	.58	.52	.64	.57	.52	.62	.56	.51	.60	.54	.50	.48
6.0	.61	.52	.46	.60	.52	.46	.58	.51	.46	.56	.50	.45	.54	.49	.45	.43
7.0	.55	.47	.41	.55	.47	.41	.53	.46	.41	.51	.45	.40	.50	.44	.40	.38
8.0	.51	.43	.37	.50	.42	.37	.49	.42	.37	.47	.41	.36	.46	.40	.36	.34
9.0	.47	.39	.34	.46	.39	.33	.45	.38	.33	.44	.37	.33	.42	.37	.33	.31
10.0	.43	.36	.31	.43	.35	.30	.41	.35	.30	.40	.34	.30	.39	.34	.30	.28



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-06-05

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:0.0840A P:10.000W PF:0.9880 Freq:60.00Hz Lamp Flux:838.371x1 lm					
NAME: ASD-JBR-DB-4D10WH			TYPE:		WEIGHT:
SPEC.:5000K			DIM.:		SERIAL No.:
MFR.: ASD Lighting Corp			SUR.:0.09		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	.263	.150	.047	.256	.146	.046	.242	.139	.044	.229	.132	.042	.217	.126	.041		
2.0	.255	.140	.043	.248	.137	.042	.236	.131	.041	.225	.126	.039	.214	.121	.038		
3.0	.241	.128	.038	.235	.126	.038	.224	.122	.037	.214	.117	.036	.205	.113	.035		
4.0	.226	.117	.035	.221	.116	.034	.211	.112	.033	.202	.109	.033	.194	.105	.032		
5.0	.212	.108	.031	.207	.106	.031	.198	.103	.030	.190	.100	.030	.183	.098	.029		
6.0	.198	.099	.028	.194	.098	.028	.187	.096	.028	.179	.093	.027	.173	.091	.027		
7.0	.186	.092	.026	.182	.091	.026	.176	.089	.026	.169	.087	.025	.163	.085	.025		
8.0	.175	.085	.024	.172	.085	.024	.165	.083	.024	.160	.081	.023	.154	.079	.023		
9.0	.165	.080	.022	.162	.079	.022	.156	.077	.022	.151	.076	.022	.146	.074	.021		
10.0	.156	.075	.021	.153	.074	.021	.148	.073	.020	.143	.071	.020	.139	.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	.190	.170	.151	.163	.146	.130	.111	.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	.172	.128	.092	.148	.110	.080	.101	.076	.056	.059	.045	.033	.019	.015	.011	
4.0	.165	.114	.075	.141	.099	.065	.097	.069	.046	.056	.040	.027	.018	.013	.009	
5.0	.158	.103	.064	.135	.090	.055	.093	.063	.039	.054	.037	.023	.017	.012	.008	
6.0	.151	.095	.055	.130	.082	.048	.089	.058	.034	.052	.034	.020	.017	.011	.007	
7.0	.144	.088	.049	.124	.076	.042	.086	.054	.030	.050	.032	.018	.016	.010	.006	
8.0	.138	.082	.044	.119	.071	.038	.082	.050	.027	.048	.030	.016	.015	.010	.005	
9.0	.133	.077	.040	.114	.067	.035	.079	.047	.025	.046	.028	.015	.015	.009	.005	
10.0	.127	.073	.037	.110	.063	.032	.076	.045	.023	.044	.026	.014	.014	.009	.005	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-06-05

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:0.0840A P:10.000W PF:0.9880 Freq:60.00Hz Lamp Flux:838.371x1 lm											
NAME: ASD-JBR-DB-4D10WH						TYPE:		WEIGHT:			
SPEC.:5000K						DIM.:		SERIAL No.:			
MFR.: ASD Lighting Corp						SUR.:0.09		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	25.7	27.1	26.0	27.3	27.5	26.0	27.4	26.3	27.6	27.9	
	3H	26.3	27.5	26.6	27.8	28.0	26.6	27.9	26.9	28.1	28.4
	4H	26.3	27.5	26.6	27.8	28.1	26.7	27.8	27.0	28.1	28.4
	6H	26.3	27.4	26.7	27.7	28.0	26.7	27.8	27.0	28.1	28.4
	8H	26.3	27.4	26.7	27.7	28.0	26.6	27.7	27.0	28.0	28.3
	12H	26.3	27.3	26.6	27.6	27.9	26.6	27.6	27.0	27.9	28.3
4H	2H	26.1	27.3	26.4	27.5	27.8	26.3	27.5	26.7	27.8	28.1
	3H	26.7	27.7	27.1	28.1	28.4	27.0	28.0	27.4	28.3	28.7
	4H	26.8	27.8	27.2	28.1	28.5	27.1	28.0	27.5	28.4	28.7
	6H	26.9	27.7	27.3	28.1	28.5	27.2	28.0	27.6	28.4	28.8
	8H	26.9	27.6	27.3	28.0	28.5	27.2	27.9	27.6	28.3	28.7
	12H	26.9	27.6	27.3	28.0	28.4	27.1	27.8	27.6	28.2	28.7
8H	4H	26.8	27.6	27.3	28.0	28.4	27.1	27.9	27.5	28.3	28.7
	6H	26.9	27.6	27.4	28.0	28.5	27.2	27.8	27.7	28.3	28.7
	8H	27.0	27.5	27.5	28.0	28.5	27.2	27.8	27.7	28.2	28.7
	12H	27.0	27.4	27.5	27.9	28.4	27.2	27.7	27.7	28.2	28.7
12H	4H	26.8	27.5	27.2	27.9	28.3	27.1	27.8	27.5	28.2	28.6
	6H	26.9	27.5	27.4	27.9	28.4	27.2	27.7	27.7	28.2	28.7
	8H	27.0	27.4	27.5	27.9	28.4	27.2	27.7	27.7	28.2	28.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.5 / - 0.6					+ 0.4 / - 0.5					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4					
2.0H	+ 0.7 / - 0.7					+ 0.8 / - 0.8					

CIE Pub.117, 838.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.6)
Area: 0.006 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-06-05

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:0.0840A P:10.000W PF:0.9880 Freq:60.00Hz Lamp Flux:838.371x1 lm		
NAME: ASD-JBR-DB-4D10WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.09	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) $k(RI) \times RCR = 5$									
$k = 0.60$	62	51	44	61	51	44	60	50	44	38
0.80	72	61	55	71	61	54	69	60	54	48
1.00	80	70	64	79	70	64	77	71	63	56
1.25	87	78	72	86	77	71	83	76	70	64
1.50	92	83	77	90	82	77	87	80	75	68
2.00	98	91	85	96	90	84	93	87	83	75
2.50	102	95	90	99	93	89	96	91	87	79
3.00	104	99	94	102	97	93	98	94	90	82
4.00	108	103	99	105	101	98	101	98	95	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		

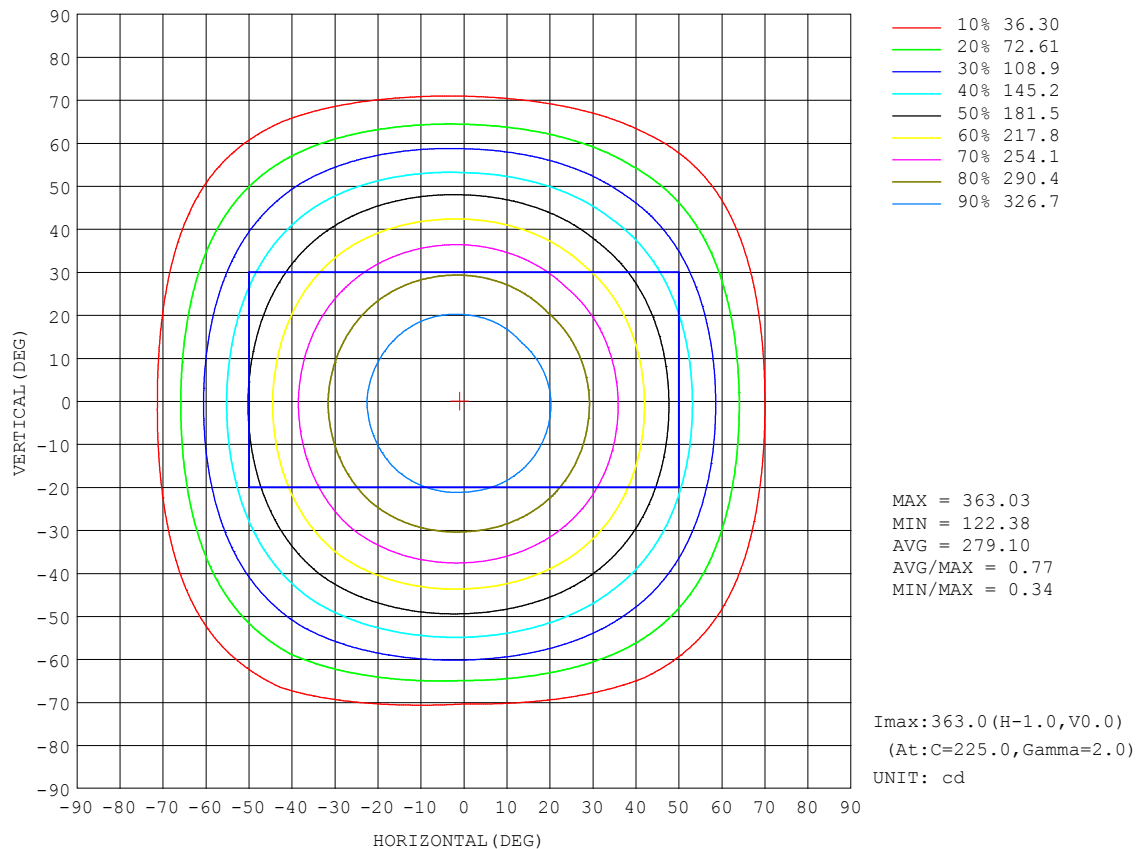
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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

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SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.09	Shielding Angle:



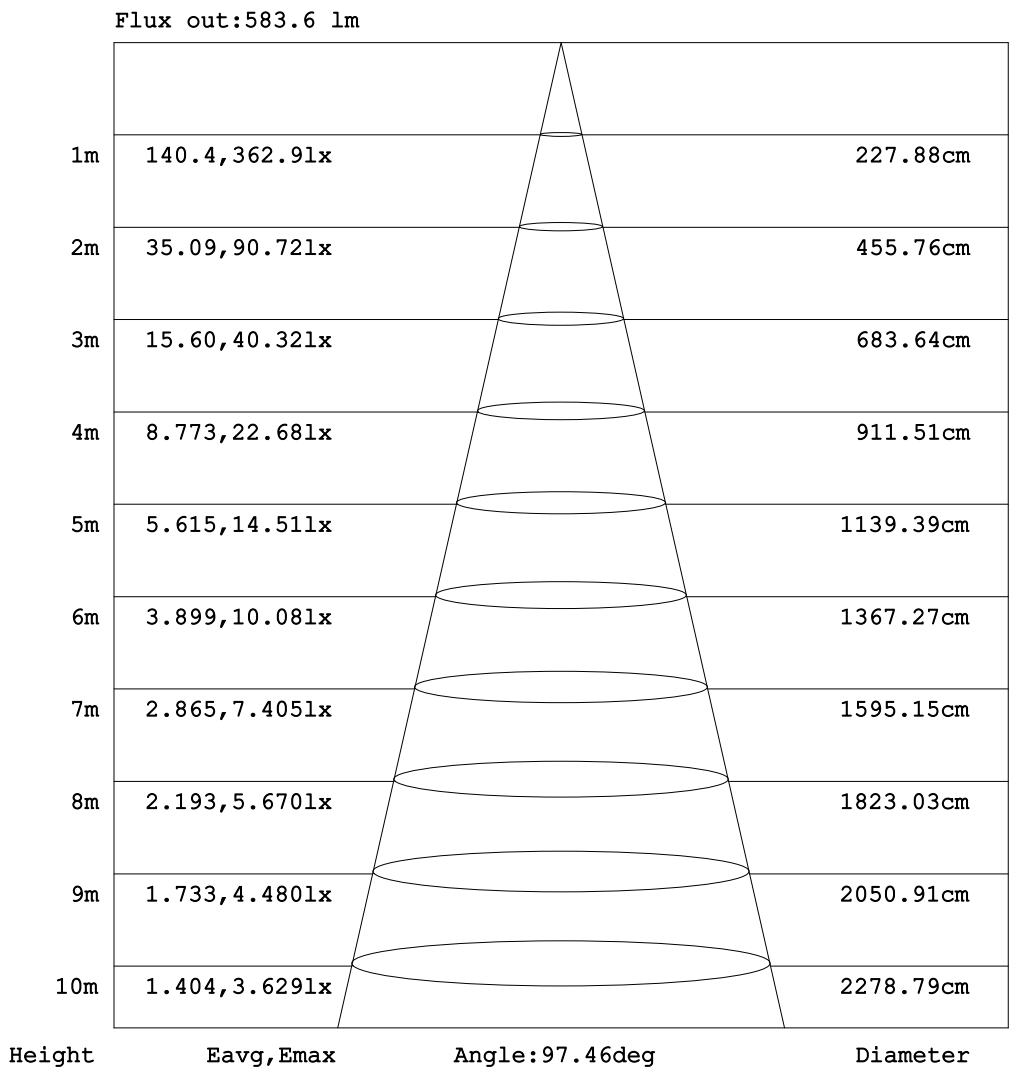
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.00V I:0.0840A P:10.000W PF:0.9880 Freq:60.00Hz Lamp Flux:838.371x1 lm		
NAME: ASD-JBR-DB-4D10WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.09	Shielding Angle:



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

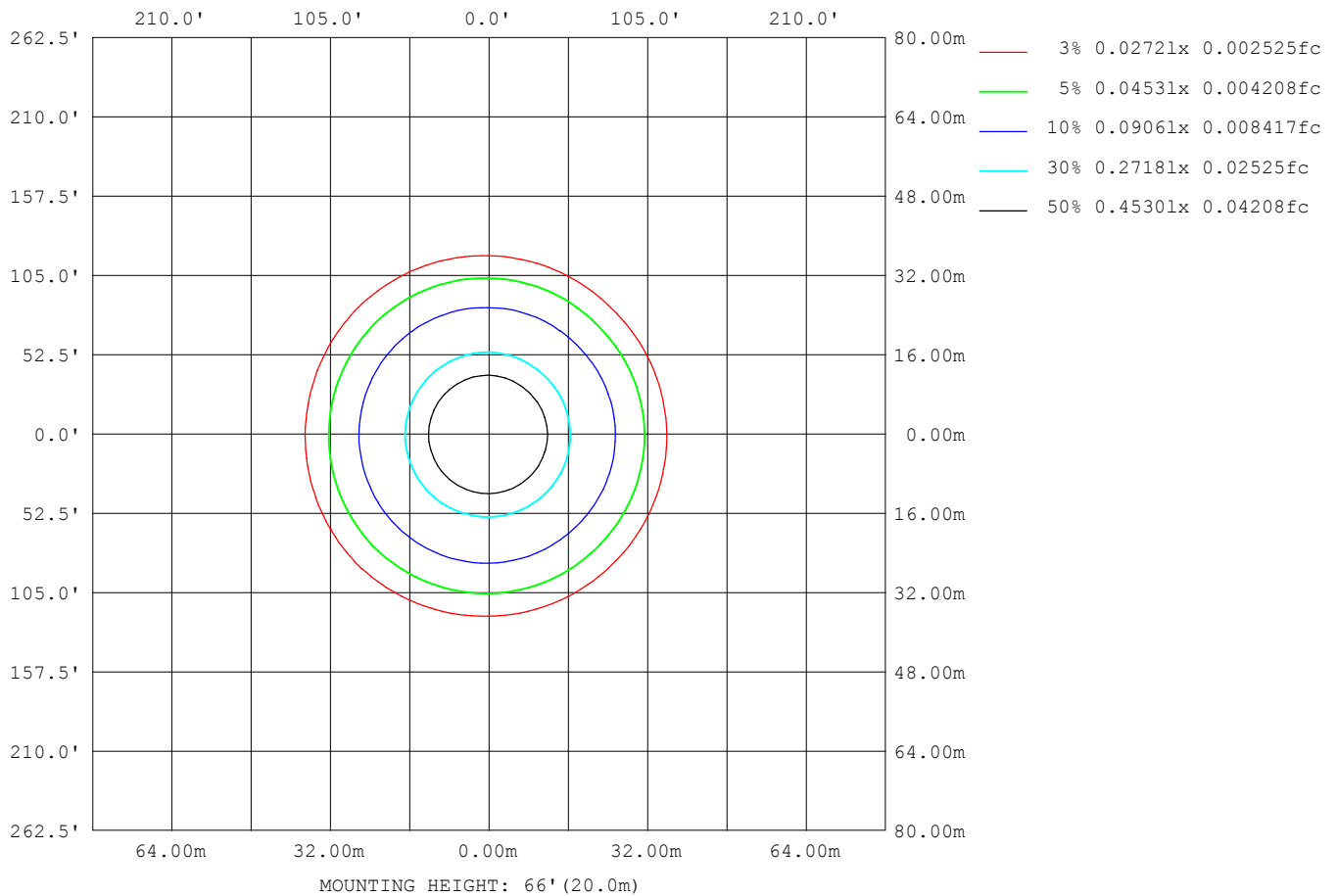
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:120.00V I:0.0840A P:10.000W PF:0.9880 Freq:60.00Hz Lamp Flux:838.371x1 lm		
NAME: ASD-JBR-DB-4D10WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.09	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-06-05

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:0.0840A P:10.000W PF:0.9880 Freq:60.00Hz Lamp Flux:838.371x1 lm		
NAME: ASD-JBR-DB-4D10WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.09	Shielding Angle:

AvgL	cd/m2
L_0~180 (65) av	28533
L_0~180 (75) av	12401
L_0~180 (85) av	5124
L_90~270 (65) av	27794
L_90~270 (75) av	12534
L_90~270 (85) av	5279
L_45 (65) av	28878
L_45 (75) av	14324
L_45 (85) av	9067

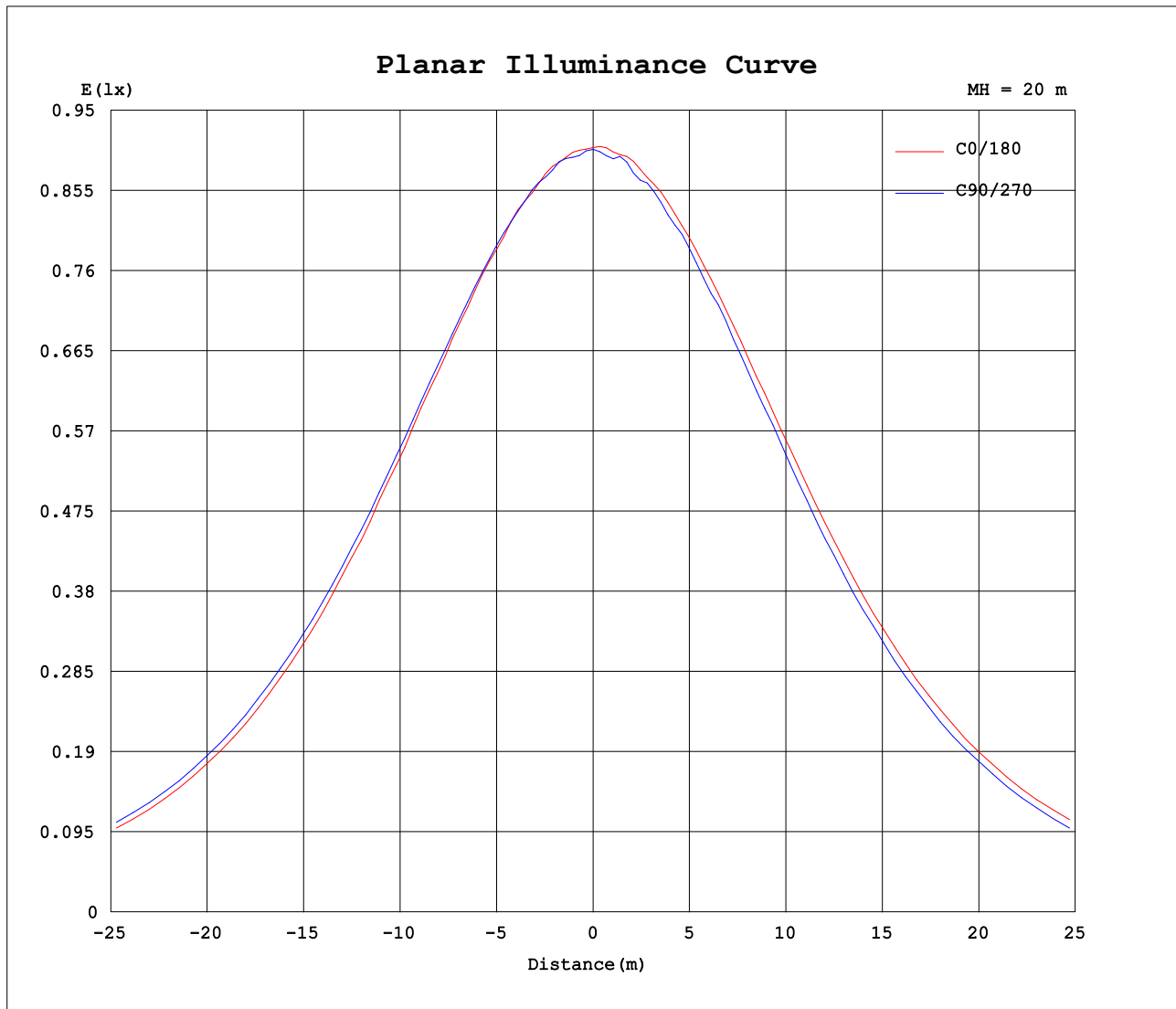
Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-06-05

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: 2024-06-05

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:0.0840A P:10.000W PF:0.9880 Freq:60.00Hz Lamp Flux:838.371x1 lm		
NAME: ASD-JBR-DB-4D10WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.09	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	361	361	361	361	361	361	361	361										
5	358	359	359	360	361	359	359	357										
10	351	354	352	355	356	354	352	350										
15	341	343	343	347	346	345	341	339										
20	326	330	330	334	333	332	326	325										
25	308	312	313	320	317	315	310	305										
30	284	290	292	299	297	293	286	281										
35	258	263	267	275	272	268	260	255										
40	230	235	240	247	244	240	232	225										
45	199	204	210	217	214	209	202	194										
50	166	170	178	185	182	176	167	161										
55	132	136	144	150	146	142	133	128										
60	99.2	103	110	117	112	109	100	95.1										
65	66.3	71.4	72.1	83.7	78.4	74.9	68.8	62.9										
70	36.1	42.2	38.5	52.6	44.2	45.3	40.7	35.8										
75	18.3	20.9	19.3	27.2	20.2	22.5	19.7	18.4										
80	9.76	11.6	10.1	14.4	10.9	12.0	10.9	10.01										
85	2.62	4.90	2.63	6.92	2.74	4.23	2.89	2.91										
90	1.70	1.71	1.68	2.21	0.88	0.92	1.08	0.95										
95	1.79	1.79	1.76	1.75	1.02	1.03	1.08	1.10										
100	1.90	1.91	1.88	1.86	1.21	1.22	1.28	1.30										
105	2.02	2.03	1.99	1.98	1.42	1.44	1.49	1.51										
110	2.14	2.15	2.12	2.10	1.64	1.65	1.71	1.74										
115	2.27	2.28	2.24	2.21	1.87	1.87	1.94	1.95										
120	2.40	2.39	2.34	2.34	2.09	2.09	2.16	2.17										
125	2.51	2.50	2.46	2.44	2.30	2.30	2.37	2.39										
130	2.61	2.61	2.58	2.56	2.50	2.50	2.56	2.57										
135	2.72	2.74	2.69	2.67	2.70	2.70	2.76	2.77										
140	2.85	2.86	2.81	2.79	2.89	2.88	2.93	2.95										
145	2.98	2.99	2.95	2.92	3.08	3.06	3.12	3.14										
150	3.14	3.15	3.09	3.08	3.27	3.25	3.31	3.31										
155	3.32	3.32	3.27	3.24	3.46	3.43	3.49	3.49										
160	3.50	3.51	3.45	3.43	3.63	3.61	3.65	3.64										
165	3.68	3.68	3.62	3.61	3.81	3.77	3.80	3.78										
170	3.85	3.83	3.79	3.76	3.94	3.88	3.93	3.89										
175	3.97	3.94	3.92	3.90	4.04	3.98	4.00	3.95										
180	4.05	4.01	4.00	3.98	4.06	4.01	4.01	3.98										

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