

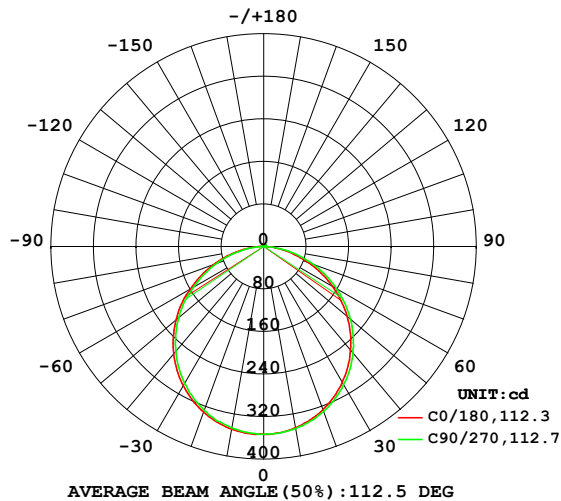
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

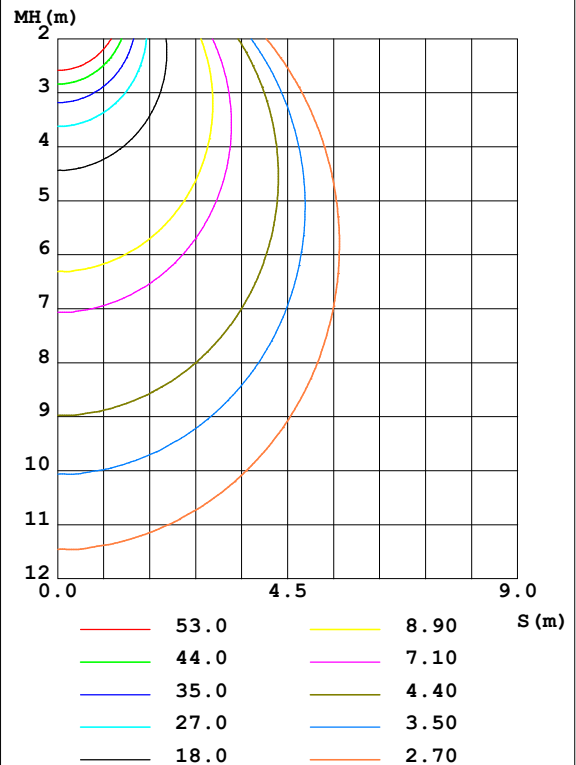
Test:U:120.00V I:0.0980A P:11.600W PF:0.9880 Freq:60.00Hz Lamp Flux:1026.88x1 lm		
NAME: ASD-JBR-NL-6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:130.43	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 88.52 lm/W			
MODEL	ASD-JBR-NL-6D12WH	I _{max} (cd)	353.8	S/MH (C0/180)	1.27
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1026.9	η UP, DN (C0-180)	0.9, 49.3
NOMINAL FLUX (lm)	1026.88	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.8, 49.0
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: 2024-05-11

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	346.2	346.7	347.6	350.1	348.8	346.9	346.6	345.5	0- 10	33.44	33.44	3.26,3.26
20	326.6	327.6	329.9	332.6	331.4	329.4	327.8	324.9	10- 20	95.86	129.3	12.6,12.6
30	295.5	297.8	300.6	304.5	302.6	300.2	298.1	294.0	20- 30	145.3	274.6	26.7,26.7
40	254.5	257.0	261.8	266.0	263.4	260.0	257.2	253.7	30- 40	175.3	449.9	43.8,43.8
50	205.1	208.0	213.2	218.2	215.5	212.2	208.8	203.6	40- 50	181.8	631.7	61.5,61.5
60	149.1	150.5	157.8	161.5	158.3	157.1	151.5	148.2	50- 60	163.9	795.6	77.5,77.5
70	90.27	92.43	99.83	103.9	100.6	99.03	94.42	89.22	60- 70	124.1	919.7	89.6,89.6
80	35.54	37.91	41.17	47.32	43.44	42.47	38.93	33.86	70- 80	71.21	990.9	96.5,96.5
90	2.149	2.105	2.153	3.525	1.900	1.451	1.400	1.399	80- 90	18.66	1010	98.3,98.3
100	2.381	2.346	2.318	2.343	1.649	1.654	1.679	1.702	90-100	2.041	1012	98.5,98.5
110	2.646	2.607	2.579	2.602	2.046	2.066	2.100	2.101	100-110	2.299	1014	98.7,98.7
120	2.895	2.859	2.824	2.841	2.454	2.492	2.512	2.501	110-120	2.488	1016	99,99
130	3.135	3.075	3.051	3.052	2.845	2.843	2.942	2.888	120-130	2.536	1019	99.2,99.2
140	3.412	3.339	3.323	3.311	3.248	3.232	3.298	3.288	130-140	2.426	1021	99.5,99.5
150	3.711	3.661	3.640	3.629	3.633	3.605	3.663	3.659	140-150	2.179	1024	99.7,99.7
160	3.965	3.967	3.955	3.949	4.002	3.969	3.992	3.983	150-160	1.760	1025	99.8,99.8
170	4.245	4.250	4.247	4.242	4.315	4.261	4.267	4.233	160-170	1.164	1026	100,100
180	4.480	4.435	4.466	4.422	4.482	4.424	4.463	4.419	170-180	0.4135	1027	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

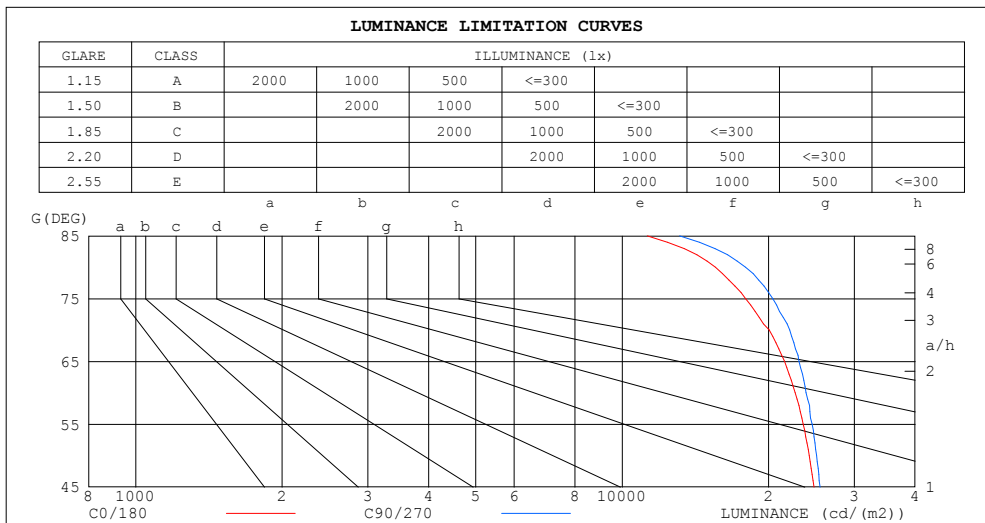
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-05-11

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:0.0980A P:11.600W PF:0.9880 Freq:60.00Hz Lamp Flux:1026.88x1 lm		
NAME: ASD-JBR-NL-6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:130.43	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	11269	13127
80	15558	17943
75	17925	20412
70	20065	22091
65	21566	23080
60	22678	23882
55	23544	24561
50	24253	25106
45	24800	25519

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Operators:DAMIN
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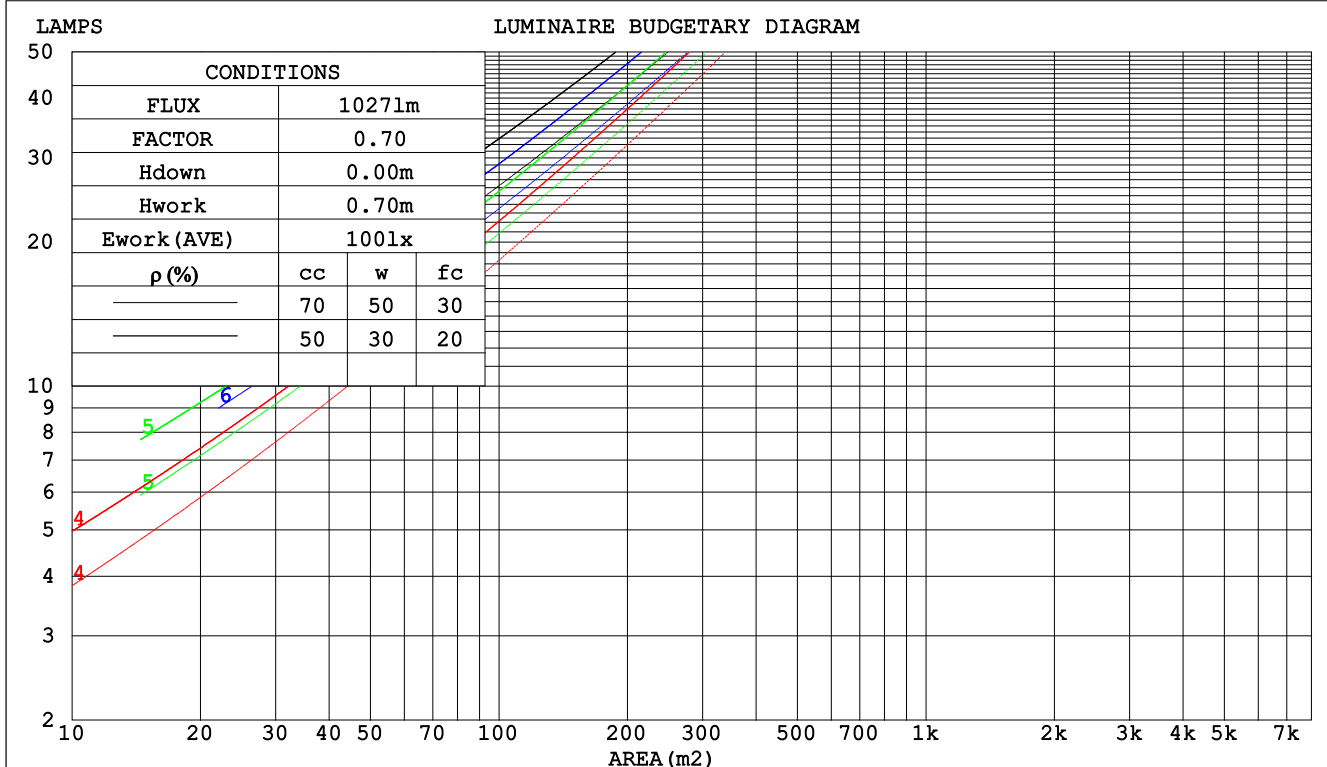
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γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
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Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: ASD-JBR-NL-6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:130.43	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	1.04	.99	.95	1.01	.97	.94	.97	.93	.90	.92	.90	.87	.88	.86	.84	.82
2.0	.90	.83	.78	.88	.82	.76	.84	.79	.74	.81	.76	.72	.77	.74	.71	.68
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.71	.66	.61	.68	.64	.60	.57
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.51	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-05-11

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:0.0980A P:11.600W PF:0.9880 Freq:60.00Hz Lamp Flux:1026.88x1 lm					
NAME: ASD-JBR-NL-6D12WH			TYPE:		WEIGHT:
SPEC.:5000K			DIM.:		SERIAL No.:
MFR.: ASD Lighting Corp			SUR.:130.43		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	.309	.176	.056	.301	.172	.055	.287	.165	.053	.274	.158	.051	.262	.152	.049		
2.0	.291	.159	.049	.284	.156	.048	.272	.151	.047	.260	.146	.046	.249	.141	.044		
3.0	.269	.143	.043	.263	.141	.042	.252	.137	.042	.242	.132	.041	.232	.129	.040		
4.0	.248	.129	.038	.243	.127	.038	.233	.124	.037	.224	.120	.036	.215	.117	.036		
5.0	.230	.117	.034	.225	.116	.034	.216	.113	.033	.208	.110	.033	.200	.107	.032		
6.0	.213	.107	.031	.209	.106	.030	.201	.103	.030	.194	.101	.030	.187	.098	.029		
7.0	.198	.098	.028	.195	.097	.028	.187	.095	.027	.181	.093	.027	.175	.091	.027		
8.0	.185	.091	.025	.182	.090	.025	.175	.088	.025	.169	.086	.025	.164	.084	.025		
9.0	.174	.084	.023	.171	.083	.023	.165	.081	.023	.159	.080	.023	.154	.078	.023		
10.0	.163	.078	.022	.161	.078	.022	.155	.076	.021	.150	.075	.021	.146	.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	.203	.203	.203	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.193	.169	.147	.165	.145	.127	.113	.100	.088	.065	.058	.051	.021	.019	.016	
2.0	.185	.145	.111	.159	.125	.096	.109	.086	.067	.063	.050	.039	.020	.016	.013	
3.0	.177	.127	.088	.152	.110	.076	.104	.076	.053	.060	.045	.031	.019	.014	.010	
4.0	.170	.114	.072	.146	.099	.062	.100	.069	.044	.058	.040	.026	.019	.013	.009	
5.0	.162	.104	.060	.140	.090	.053	.096	.063	.037	.056	.037	.022	.018	.012	.007	
6.0	.155	.095	.052	.133	.083	.046	.092	.058	.032	.053	.034	.019	.017	.011	.006	
7.0	.149	.089	.047	.128	.077	.041	.088	.054	.029	.051	.032	.017	.017	.010	.006	
8.0	.142	.083	.042	.122	.072	.037	.085	.050	.026	.049	.030	.016	.016	.010	.005	
9.0	.136	.078	.039	.117	.068	.034	.081	.047	.024	.047	.028	.014	.015	.009	.005	
10.0	.130	.074	.036	.112	.064	.031	.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:2024-05-11

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:0.0980A P:11.600W PF:0.9880 Freq:60.00Hz Lamp Flux:1026.88x1 lm											
NAME: ASD-JBR-NL-6D12WH						TYPE:		WEIGHT:			
SPEC.:5000K						DIM.:		SERIAL No.:			
MFR.: ASD Lighting Corp						SUR.:130.43		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	23.6	25.1	23.9	25.3	25.6	23.8	25.3	24.1	25.5	25.7	
	3H	25.0	26.4	25.3	26.7	26.9	25.3	26.7	25.6	27.0	27.2
	4H	25.6	26.9	25.9	27.2	27.5	25.9	27.2	26.3	27.5	27.8
	6H	25.9	27.2	26.3	27.5	27.8	26.4	27.6	26.7	27.9	28.2
	8H	26.0	27.2	26.4	27.5	27.9	26.5	27.7	26.8	28.0	28.3
	12H	26.1	27.2	26.4	27.5	27.9	26.5	27.7	26.9	28.0	28.3
4H	2H	24.2	25.5	24.5	25.8	26.1	24.3	25.6	24.7	25.9	26.2
	3H	25.8	26.9	26.2	27.3	27.6	26.0	27.2	26.4	27.5	27.9
	4H	26.5	27.5	26.9	27.9	28.2	26.8	27.8	27.2	28.2	28.6
	6H	26.9	27.9	27.4	28.3	28.7	27.3	28.3	27.8	28.6	29.1
	8H	27.1	28.0	27.5	28.4	28.8	27.5	28.4	27.9	28.8	29.2
	12H	27.2	28.0	27.6	28.4	28.8	27.6	28.4	28.1	28.8	29.3
8H	4H	26.7	27.6	27.2	28.0	28.4	27.0	27.9	27.4	28.3	28.7
	6H	27.3	28.1	27.8	28.5	29.0	27.7	28.4	28.2	28.9	29.3
	8H	27.6	28.2	28.1	28.7	29.1	27.9	28.6	28.4	29.0	29.5
	12H	27.7	28.2	28.2	28.7	29.2	28.1	28.7	28.6	29.1	29.6
12H	4H	26.7	27.5	27.2	27.9	28.4	27.0	27.8	27.5	28.2	28.7
	6H	27.4	28.0	27.9	28.5	29.0	27.7	28.4	28.2	28.8	29.3
	8H	27.7	28.2	28.2	28.7	29.2	28.0	28.6	28.5	29.0	29.6
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2					

CIE Pub.117, 1027 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.1)
Area: 0.0132 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-05-11

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:0.0980A P:11.600W PF:0.9880 Freq:60.00Hz Lamp Flux:1026.88x1 lm		
NAME: ASD-JBR-NL-6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:130.43	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) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	94	86	79	92	85	78	89	82	77	69
2.50	98	91	84	96	89	83	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	94	91	82
5.00	108	103	99	106	101	98	101	97	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

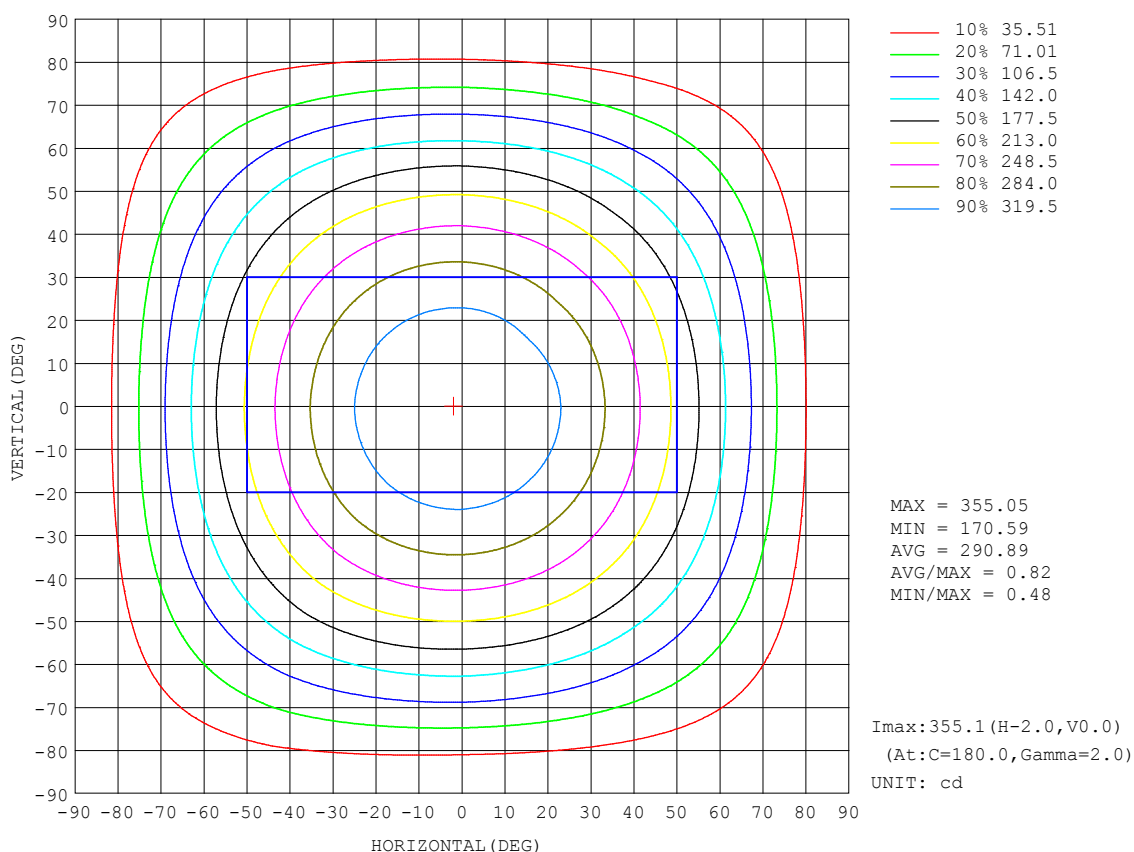
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ISOCANDELA DIAGRAM

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SPEC.:5000K	DIM.:	SERIAL No.:
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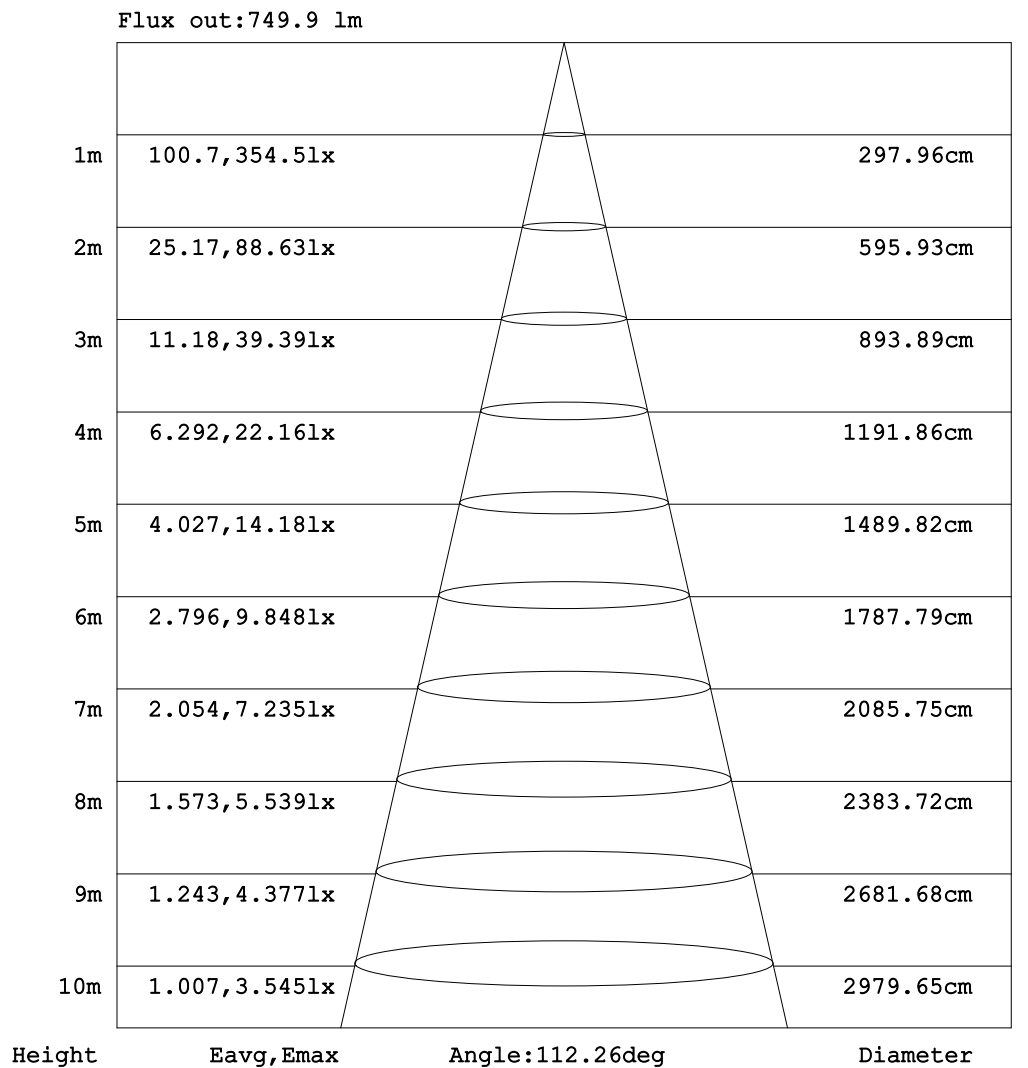
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.00V I:0.0980A P:11.600W PF:0.9880 Freq:60.00Hz Lamp Flux:1026.88x1 lm		
NAME: ASD-JBR-NL-6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:130.43	Shielding Angle:



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

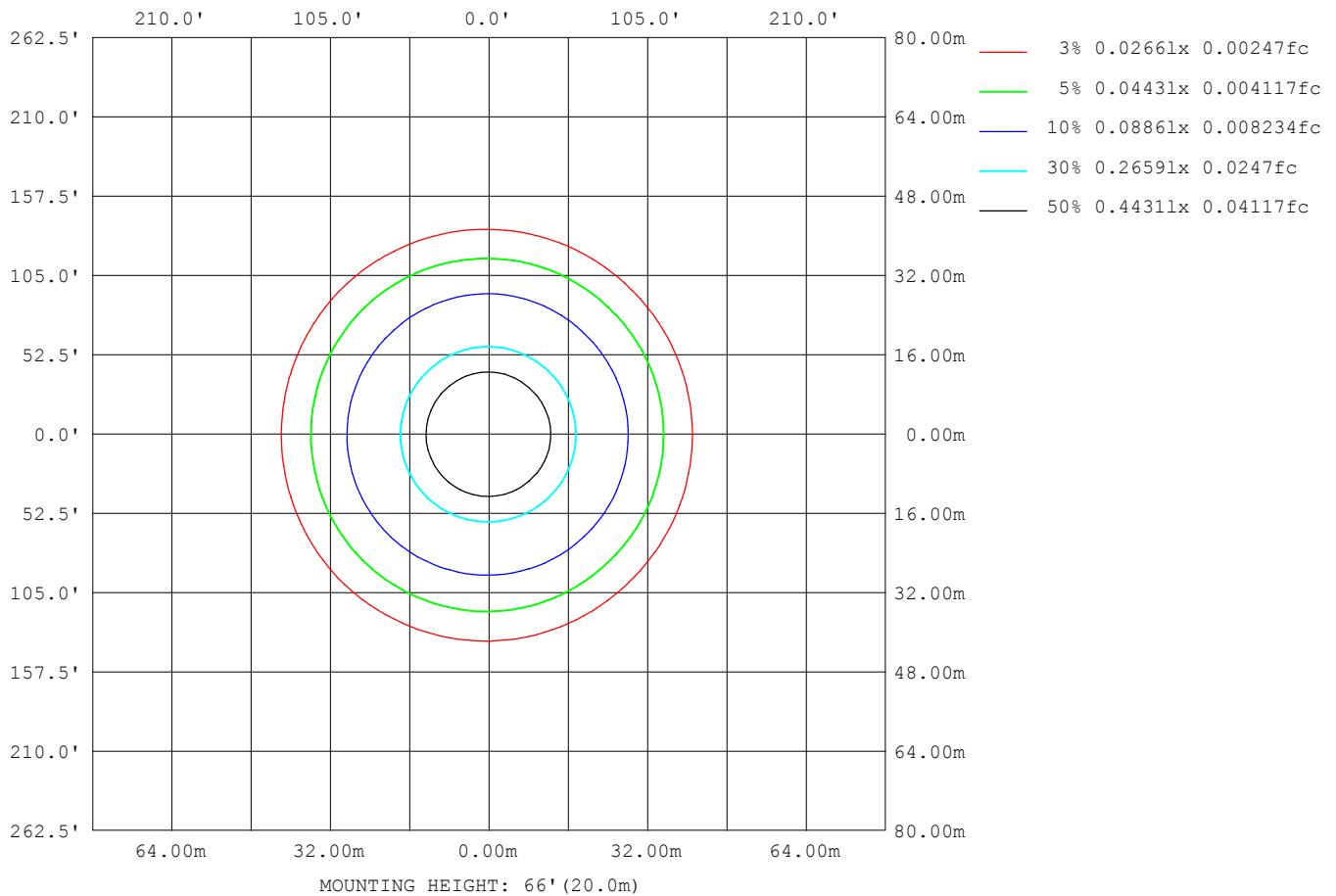
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

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NAME: ASD-JBR-NL-6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:130.43	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-05-11

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:0.0980A P:11.600W PF:0.9880 Freq:60.00Hz Lamp Flux:1026.88x1 lm		
NAME: ASD-JBR-NL-6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:130.43	Shielding Angle:

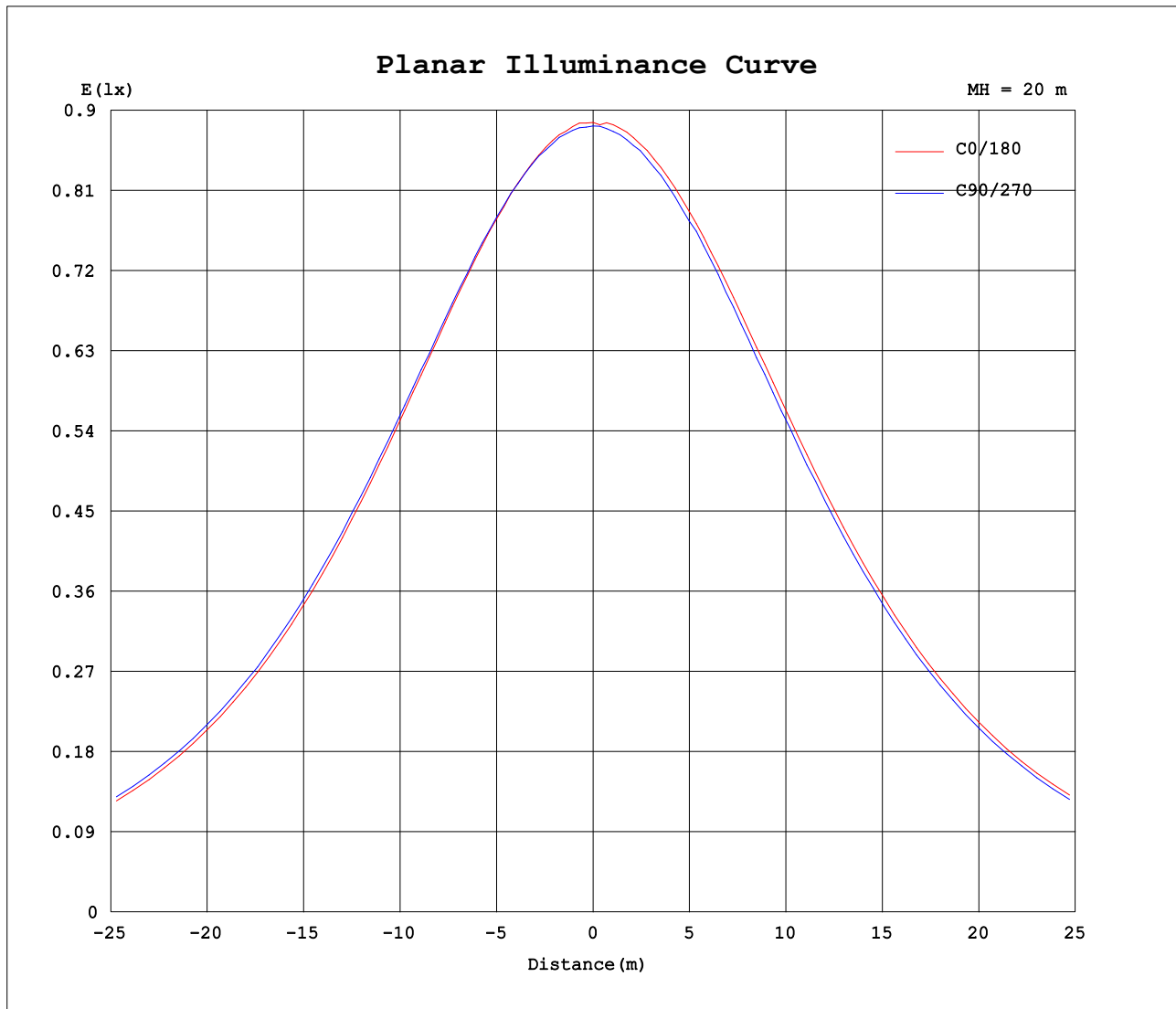
AvgL	cd/m2
L_0~180 (65) av	22360
L_0~180 (75) av	19437
L_0~180 (85) av	13410
L_90~270 (65) av	22582
L_90~270 (75) av	19882
L_90~270 (85) av	12456
L_45 (65) av	22488
L_45 (75) av	19708
L_45 (85) av	13862

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-05-11

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: 2024-05-11

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:0.0980A P:11.600W PF:0.9880 Freq:60.00Hz Lamp Flux:1026.88x1 lm		
NAME: ASD-JBR-NL-6D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:130.43	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	353	353	353	353	353	353	353	353										
5	352	351	352	353	353	351	351	351										
10	346	347	348	350	349	347	347	346										
15	338	339	340	343	342	340	340	337										
20	327	328	330	333	331	329	328	325										
25	312	314	317	320	318	316	314	311										
30	295	298	301	304	303	300	298	294										
35	276	279	283	287	284	281	279	275										
40	254	257	262	266	263	260	257	254										
45	231	233	238	243	240	237	234	229										
50	205	208	213	218	215	212	209	204										
55	178	181	186	192	189	185	182	176										
60	149	150	158	161	158	157	151	148										
65	120	122	129	133	130	128	123	119										
70	90.3	92.4	99.8	104	101	99.0	94.4	89.2										
75	61.0	64.4	69.8	75.5	71.8	69.2	66.1	60.2										
80	35.5	37.9	41.2	47.3	43.4	42.5	38.9	33.9										
85	12.9	14.4	15.1	20.7	17.9	17.6	13.5	11.1										
90	2.15	2.11	2.15	3.52	1.90	1.45	1.40	1.40										
95	2.24	2.21	2.19	2.22	1.47	1.46	1.49	1.52										
100	2.38	2.35	2.32	2.34	1.65	1.65	1.68	1.70										
105	2.51	2.47	2.45	2.47	1.84	1.85	1.89	1.90										
110	2.65	2.61	2.58	2.60	2.05	2.07	2.10	2.10										
115	2.74	2.74	2.71	2.72	2.25	2.29	2.31	2.31										
120	2.90	2.86	2.82	2.84	2.45	2.49	2.51	2.50										
125	3.01	2.97	2.94	2.96	2.66	2.70	2.71	2.69										
130	3.14	3.08	3.05	3.05	2.85	2.84	2.94	2.89										
135	3.27	3.20	3.17	3.17	3.05	3.02	3.10	3.09										
140	3.41	3.34	3.32	3.31	3.25	3.23	3.30	3.29										
145	3.53	3.49	3.48	3.48	3.45	3.42	3.48	3.48										
150	3.71	3.66	3.64	3.63	3.63	3.60	3.66	3.66										
155	3.82	3.81	3.80	3.80	3.83	3.78	3.83	3.83										
160	3.97	3.97	3.95	3.95	4.00	3.97	3.99	3.98										
165	4.12	4.11	4.12	4.10	4.16	4.13	4.14	4.12										
170	4.24	4.25	4.25	4.24	4.31	4.26	4.27	4.23										
175	4.34	4.38	4.38	4.35	4.44	4.38	4.35	4.33										
180	4.48	4.43	4.47	4.42	4.48	4.42	4.46	4.42										

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