

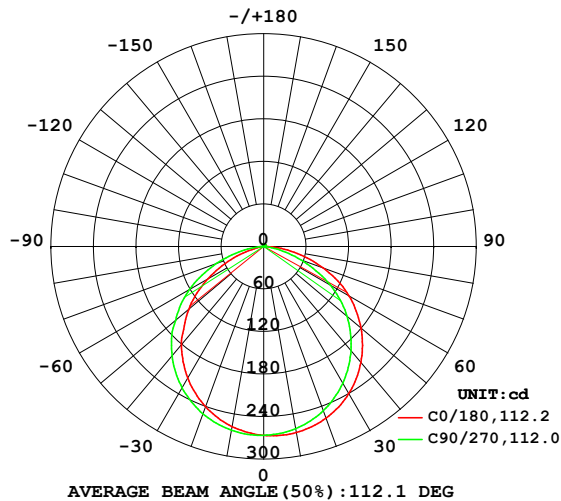
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

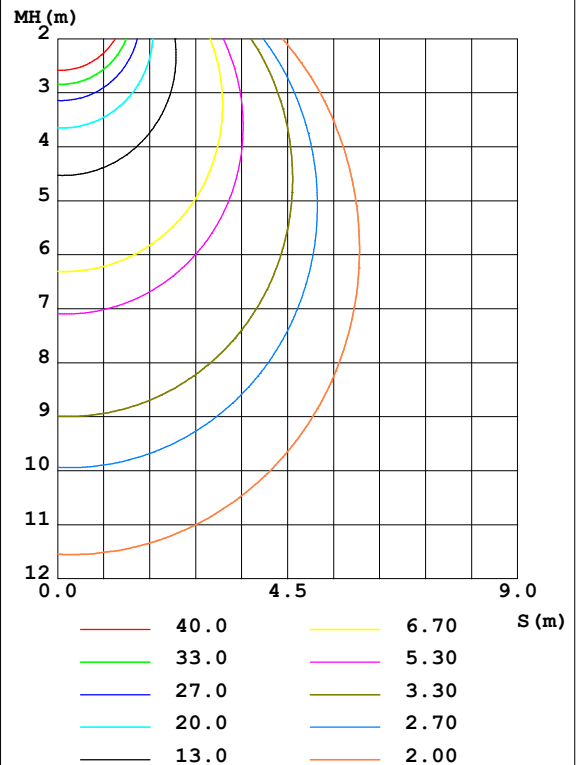
Test:U:120.20V I:0.0760A P:8.6600W PF:0.9450 Freq:60.00Hz Lamp Flux:753.415x1 lm		
NAME: ASD-JBR-NL-4D9BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.054*0.054	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 87.00 lm/W			
MODEL	ASD-JBR-NL-4D9BK	I _{max} (cd)	267.6	S/MH (C0/180)	1.20
NOMINAL POWER (W)	9	LOR (%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	753.41	η UP, DN (C0-180)	0.9, 49.8
NOMINAL FLUX (lm)	753.415	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.8, 48.5
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: 2024-12-16

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	266.4	264.2	260.8	258.6	257.9	259.8	263.1	265.4	0- 10	25.22	25.22	3.35,3.35
20	257.5	253.2	246.4	242.0	240.5	244.5	251.1	255.6	10- 20	72.42	97.64	13,13
30	239.9	233.4	223.1	216.6	214.4	220.4	230.3	237.1	20- 30	110.1	207.8	27.6,27.6
40	213.5	205.1	191.7	183.5	180.6	188.3	201.1	210.0	30- 40	133.1	340.8	45.2,45.2
50	179.3	168.3	153.8	141.9	138.4	149.9	162.5	175.6	40- 50	137.6	478.4	63.5,63.5
60	139.0	125.4	107.8	94.59	90.37	103.3	120.5	135.0	50- 60	122.7	601.1	79.8,79.8
70	89.34	75.85	56.37	44.66	40.42	51.59	71.06	84.82	60- 70	88.56	689.7	91.5,91.5
80	39.14	27.29	11.49	3.771	2.658	7.800	23.29	35.69	70- 80	42.66	732.3	97.2,97.2
90	3.114	2.243	1.532	1.607	1.046	0.9561	1.337	2.230	80- 90	8.246	740.6	98.3,98.3
100	1.623	1.671	1.737	1.818	1.351	1.251	1.156	1.066	90-100	1.556	742.1	98.5,98.5
110	1.833	1.876	1.936	2.011	1.687	1.573	1.470	1.374	100-110	1.681	743.8	98.7,98.7
120	2.035	2.064	2.124	2.179	1.999	1.873	1.785	1.705	110-120	1.831	745.7	99,99
130	2.200	2.218	2.261	2.325	2.296	2.162	2.082	2.008	120-130	1.865	747.5	99.2,99.2
140	2.354	2.384	2.449	2.536	2.584	2.451	2.379	2.311	130-140	1.787	749.3	99.5,99.5
150	2.578	2.622	2.707	2.796	2.862	2.745	2.685	2.619	140-150	1.608	750.9	99.7,99.7
160	2.878	2.900	2.974	3.038	3.117	3.009	2.971	2.922	150-160	1.311	752.2	99.8,99.8
170	3.145	3.149	3.179	3.225	3.299	3.191	3.201	3.155	160-170	0.8724	753.1	100,100
180	3.332	3.287	3.291	3.296	3.332	3.278	3.297	3.290	170-180	0.3094	753.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

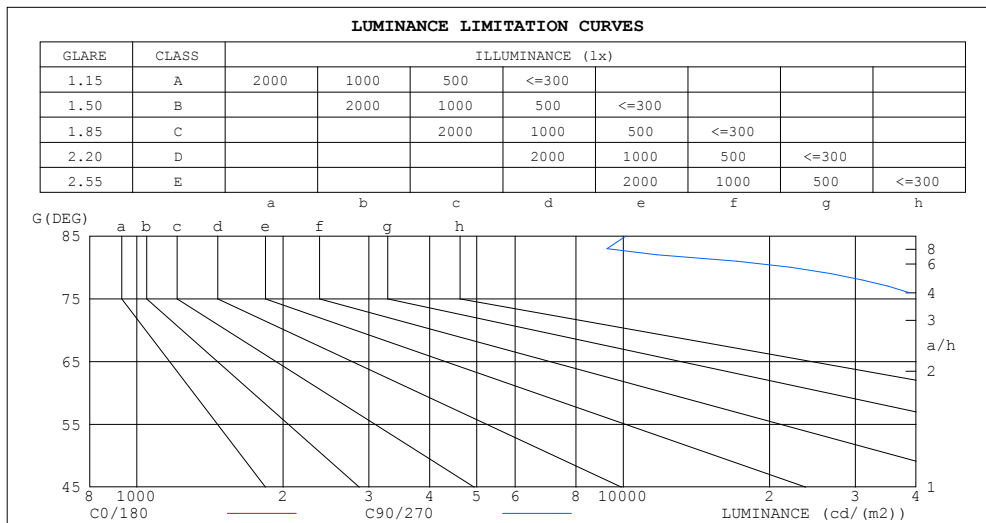
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-12-16

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:120.20V I:0.0760A P:8.6600W PF:0.9450 Freq:60.00Hz Lamp Flux:753.415x1 lm		
NAME: ASD-JBR-NL-4D9BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.054*0.054	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	63690	10150
80	75173	22054
75	81891	41839
70	87120	54913
65	90969	64243
60	92709	71867
55	92826	76697
50	93019	79712
45	93049	81738

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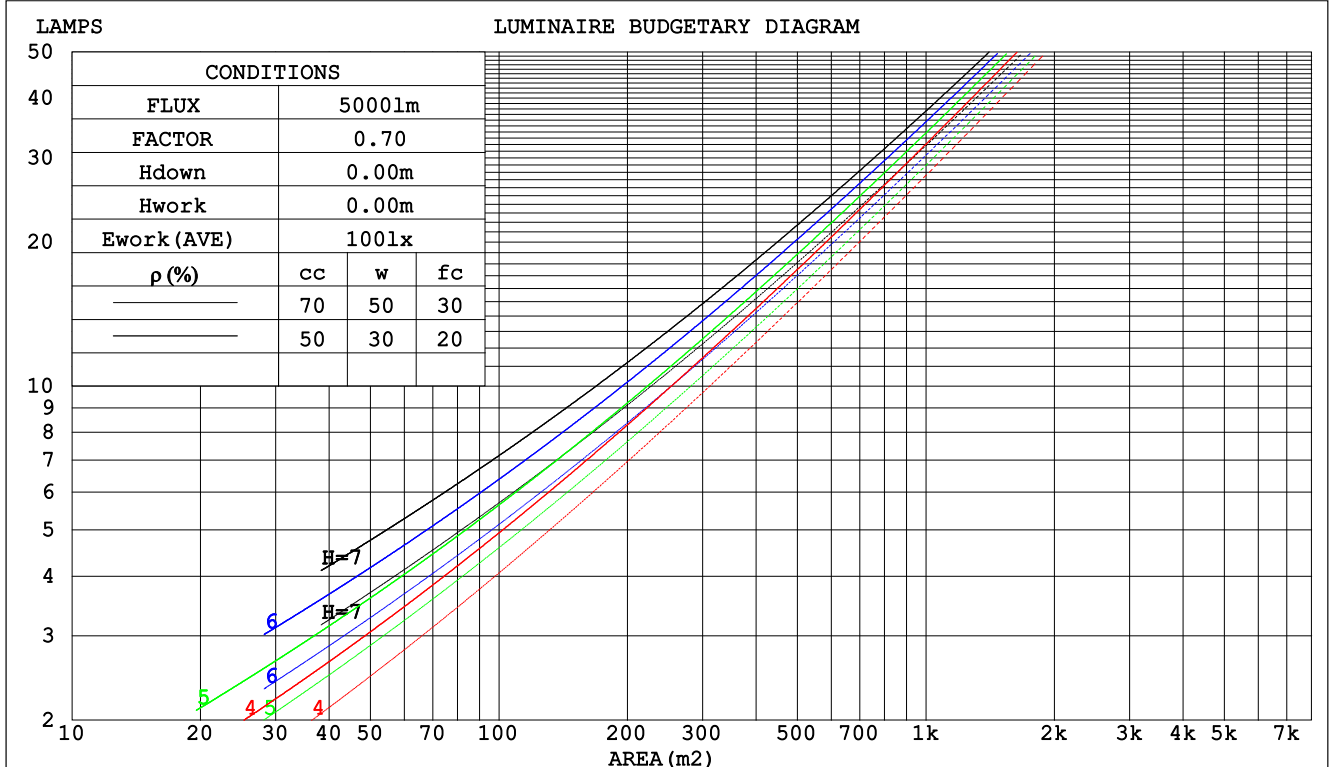
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.20V I:0.0760A P:8.6600W PF:0.9450 Freq:60.00Hz Lamp Flux:753.415x1 lm		
NAME: ASD-JBR-NL-4D9BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.054*0.054	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	1.00	.97	1.02	.98	.95	.97	.94	.91	.93	.91	.88	.89	.87	.85	.83
2.0	.91	.85	.79	.89	.83	.78	.85	.80	.76	.82	.78	.74	.79	.75	.72	.70
3.0	.80	.72	.66	.78	.71	.65	.75	.69	.64	.72	.67	.62	.70	.65	.61	.59
4.0	.71	.62	.56	.70	.62	.55	.67	.60	.54	.64	.58	.53	.62	.57	.53	.50
5.0	.63	.55	.48	.62	.54	.48	.60	.53	.47	.58	.51	.46	.56	.50	.46	.44
6.0	.57	.48	.42	.56	.48	.42	.54	.47	.41	.52	.46	.41	.51	.45	.40	.38
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.39	.33	.46	.38	.33	.45	.38	.32	.44	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.30	.43	.35	.30	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-12-16

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:120.20V I:0.0760A P:8.6600W PF:0.9450 Freq:60.00Hz Lamp Flux:753.415x1 lm					
NAME: ASD-JBR-NL-4D9BK			TYPE:		WEIGHT:
SPEC.:5000K			DIM.:		SERIAL No.:
MFR.: ASD Lighting Corp			SUR.:0.054*0.054		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	.294	.167	.053	.287	.164	.052	.273	.156	.050	.259	.150	.048	.248	.143	.046		
2.0	.281	.154	.047	.274	.151	.047	.262	.146	.045	.250	.140	.044	.240	.136	.043		
3.0	.262	.140	.042	.256	.137	.041	.245	.133	.040	.235	.129	.040	.226	.125	.039		
4.0	.243	.127	.037	.238	.125	.037	.228	.121	.036	.219	.118	.036	.211	.114	.035		
5.0	.226	.115	.033	.221	.114	.033	.213	.111	.033	.204	.108	.032	.197	.105	.032		
6.0	.210	.105	.030	.206	.104	.030	.198	.102	.030	.191	.099	.029	.184	.097	.029		
7.0	.196	.097	.027	.192	.096	.027	.185	.094	.027	.179	.092	.027	.172	.090	.026		
8.0	.183	.090	.025	.180	.089	.025	.174	.087	.025	.168	.085	.025	.162	.083	.024		
9.0	.172	.083	.023	.169	.082	.023	.163	.081	.023	.158	.079	.023	.153	.078	.022		
10.0	.162	.078	.022	.159	.077	.021	.154	.075	.021	.149	.074	.021	.145	.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	.192	.169	.149	.165	.145	.128	.113	.100	.088	.065	.058	.051	.021	.019	.017	
2.0	.184	.145	.112	.158	.125	.097	.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	.169	.114	.072	.145	.099	.063	.100	.069	.044	.058	.040	.026	.019	.013	.009	
5.0	.161	.104	.061	.139	.090	.053	.096	.063	.038	.055	.037	.022	.018	.012	.007	
6.0	.154	.095	.053	.133	.083	.046	.092	.058	.033	.053	.034	.019	.017	.011	.006	
7.0	.148	.089	.047	.127	.077	.041	.088	.054	.029	.051	.032	.017	.016	.010	.006	
8.0	.141	.083	.042	.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	.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:2024-12-16

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:120.20V I:0.0760A P:8.6600W PF:0.9450 Freq:60.00Hz Lamp Flux:753.415x1 lm											
NAME: ASD-JBR-NL-4D9BK					TYPE:			WEIGHT:			
SPEC.:5000K					DIM.:			SERIAL No.:			
MFR.: ASD Lighting Corp					SUR.:0.054*0.054			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		29.9	31.4	30.2	31.6	31.9	29.1	30.5	29.3	30.8	31.0
	3H	31.6	32.9	31.9	33.2	33.5	30.2	31.6	30.5	31.8	32.1
	4H	32.2	33.5	32.6	33.8	34.1	30.6	31.8	30.9	32.1	32.4
	6H	32.7	33.9	33.1	34.2	34.5	30.6	31.9	31.0	32.2	32.5
	8H	32.9	34.0	33.2	34.4	34.7	30.6	31.8	31.0	32.1	32.4
	12H	33.0	34.1	33.3	34.4	34.7	30.6	31.7	30.9	32.0	32.4
4H	2H	30.4	31.7	30.8	32.0	32.3	29.8	31.1	30.1	31.3	31.6
	3H	32.3	33.4	32.6	33.7	34.0	31.1	32.3	31.5	32.6	32.9
	4H	33.0	34.1	33.4	34.4	34.8	31.6	32.6	32.0	32.9	33.3
	6H	33.6	34.5	34.1	34.9	35.3	31.7	32.7	32.2	33.0	33.4
	8H	33.8	34.7	34.3	35.1	35.5	31.7	32.6	32.2	33.0	33.4
	12H	34.0	34.8	34.4	35.2	35.6	31.7	32.5	32.2	32.9	33.3
8H	4H	33.2	34.0	33.6	34.4	34.9	31.9	32.7	32.3	33.1	33.5
	6H	33.9	34.6	34.4	35.0	35.5	32.2	32.9	32.6	33.3	33.8
	8H	34.2	34.8	34.7	35.3	35.8	32.2	32.8	32.7	33.3	33.8
	12H	34.4	34.9	34.9	35.4	35.9	32.2	32.7	32.7	33.2	33.7
12H	4H	33.2	33.9	33.6	34.4	34.8	31.9	32.7	32.4	33.1	33.5
	6H	33.9	34.5	34.4	35.0	35.5	32.2	32.8	32.7	33.3	33.8
	8H	34.2	34.8	34.7	35.2	35.7	32.3	32.8	32.8	33.3	33.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.3					
1.5H	+ 0.1 / - 0.3					+ 0.3 / - 0.5					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.5					

CIE Pub.117, 753.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.0)
Area: 0.003 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-12-16

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:120.20V I:0.0760A P:8.6600W PF:0.9450 Freq:60.00Hz Lamp Flux:753.415x1 lm		
NAME: ASD-JBR-NL-4D9BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.054*0.054	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	39	57	46	39	56	45	39	33
0.80	68	56	49	67	56	49	65	55	48	42
1.00	76	65	58	75	65	58	73	66	57	50
1.25	84	73	66	82	72	66	79	71	65	58
1.50	89	79	72	87	78	71	84	76	70	63
2.00	95	87	81	93	86	80	90	83	78	70
2.50	99	92	86	97	90	85	93	87	83	74
3.00	102	96	91	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	99	95	92	83
5.00	109	104	100	106	102	98	101	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

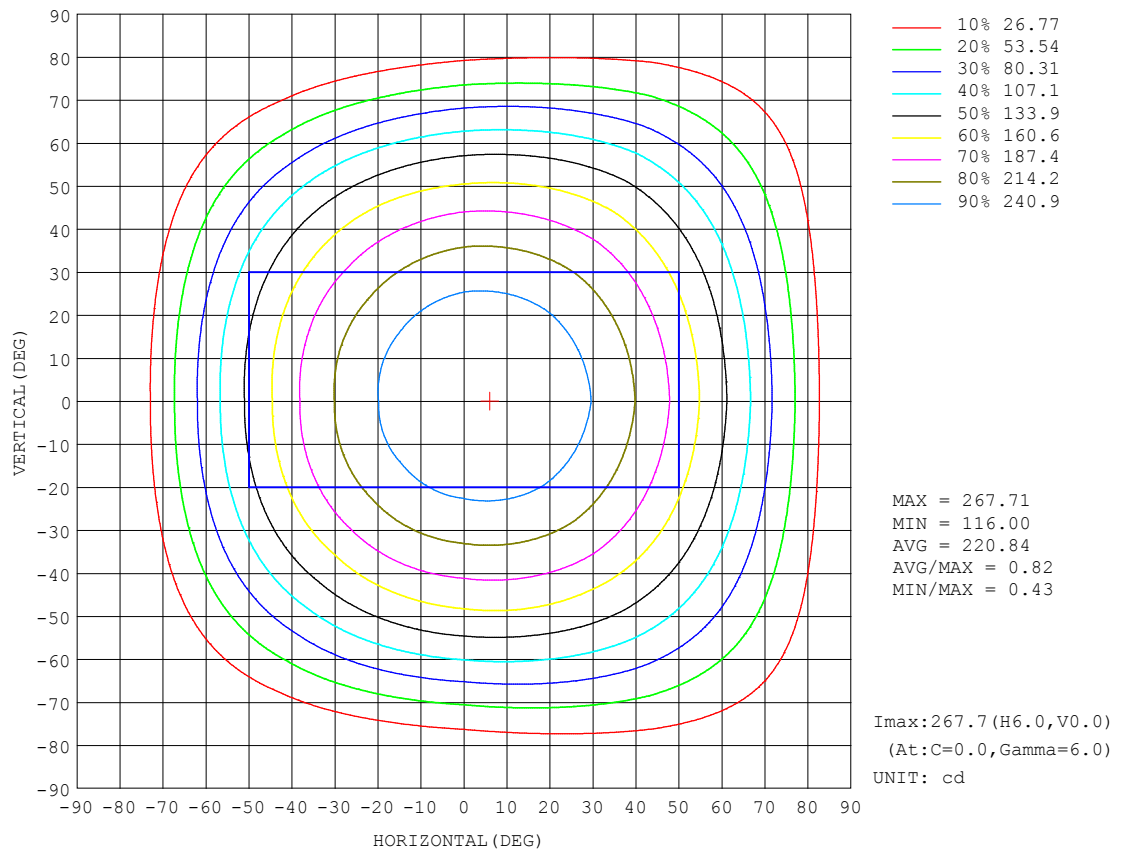
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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:7.074m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:120.20V I:0.0760A P:8.6600W PF:0.9450 Freq:60.00Hz Lamp Flux:753.415x1 lm		
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SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.054*0.054	Shielding Angle:



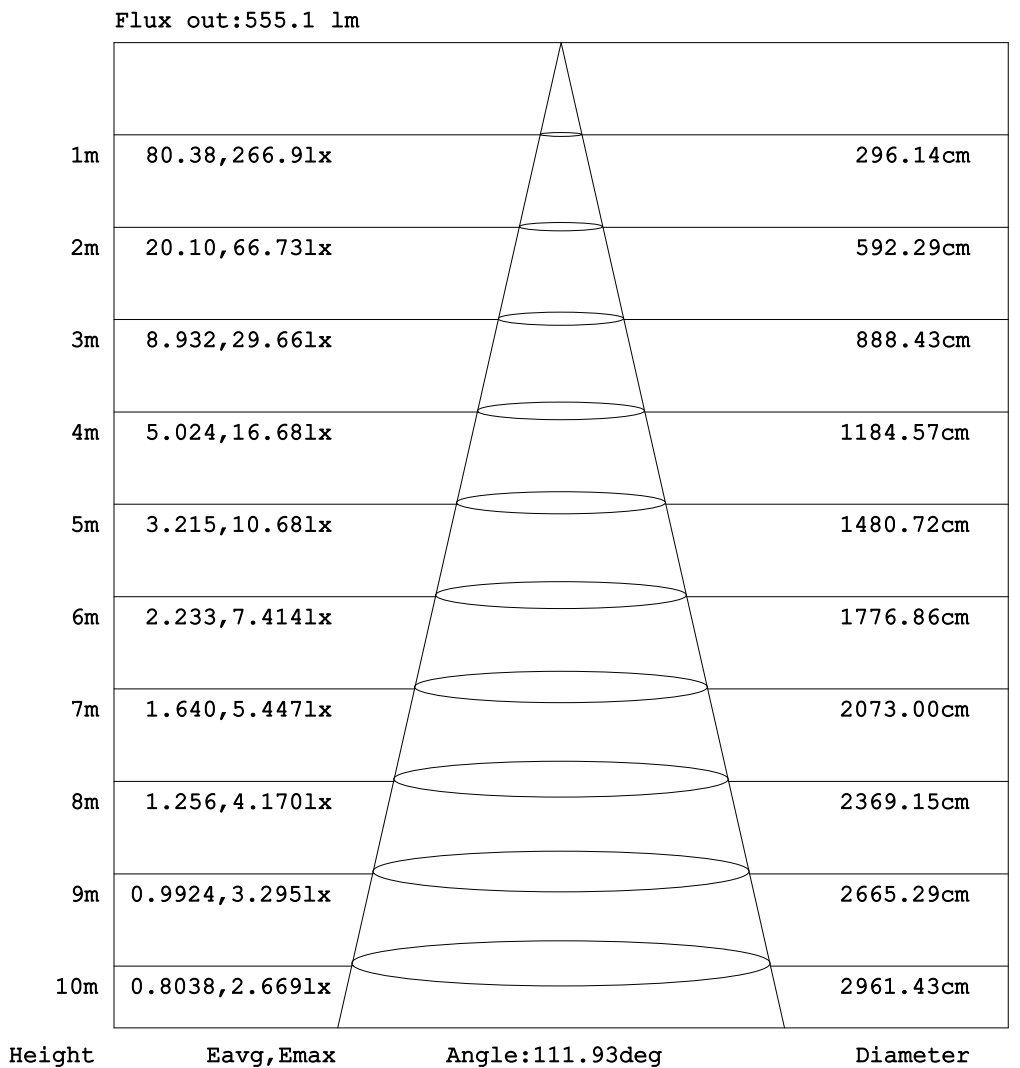
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.20V I:0.0760A P:8.6600W PF:0.9450 Freq:60.00Hz Lamp Flux:753.415x1 lm		
NAME: ASD-JBR-NL-4D9BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.054*0.054	Shielding Angle:



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

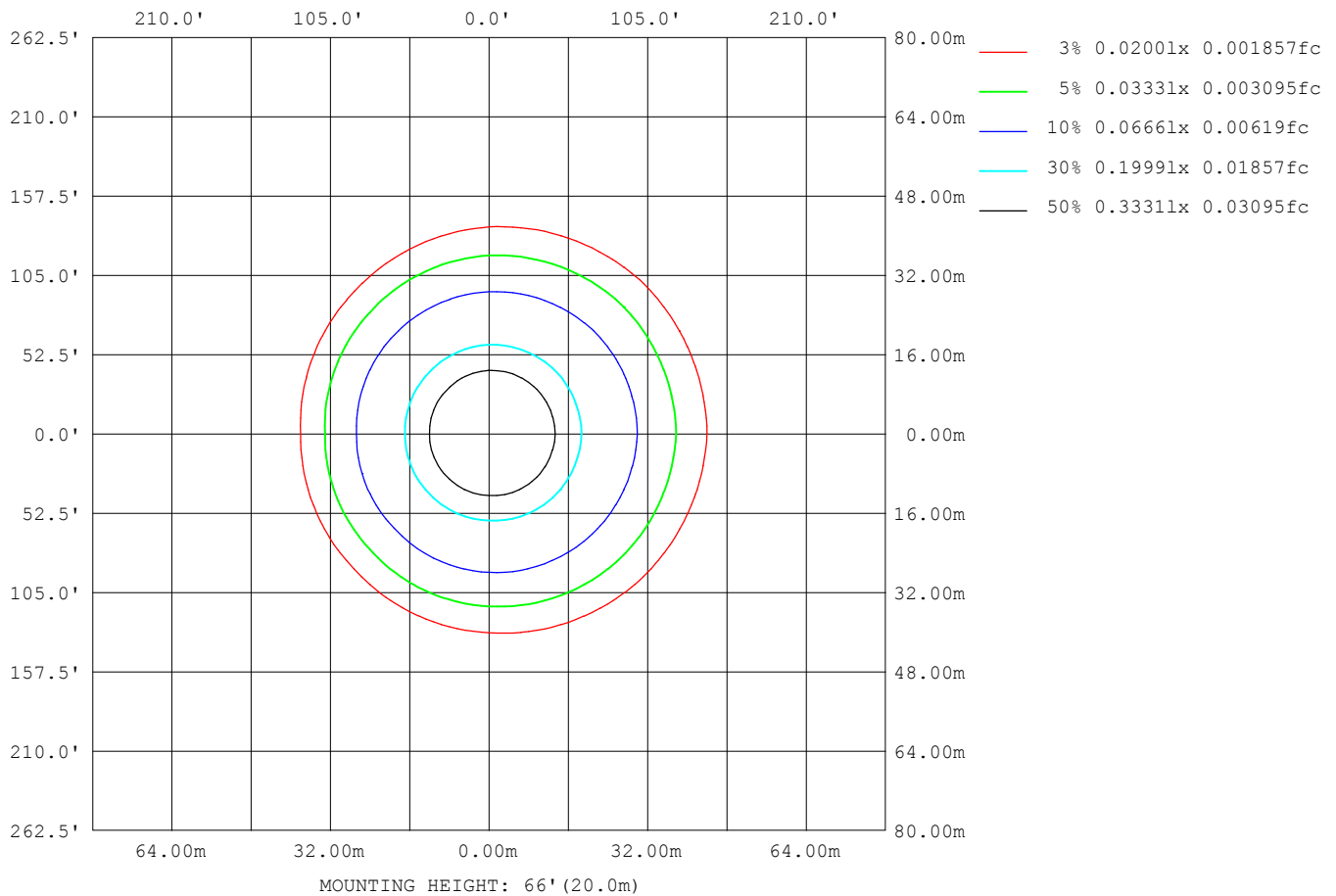
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:120.20V I:0.0760A P:8.6600W PF:0.9450 Freq:60.00Hz Lamp Flux:753.415x1 lm		
NAME: ASD-JBR-NL-4D9BK	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.054*0.054	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-12-16

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:

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LED Avg.L Report

Test:U:120.20V I:0.0760A P:8.6600W PF:0.9450 Freq:60.00Hz Lamp Flux:753.415x1 lm		
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SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.054*0.054	Shielding Angle:

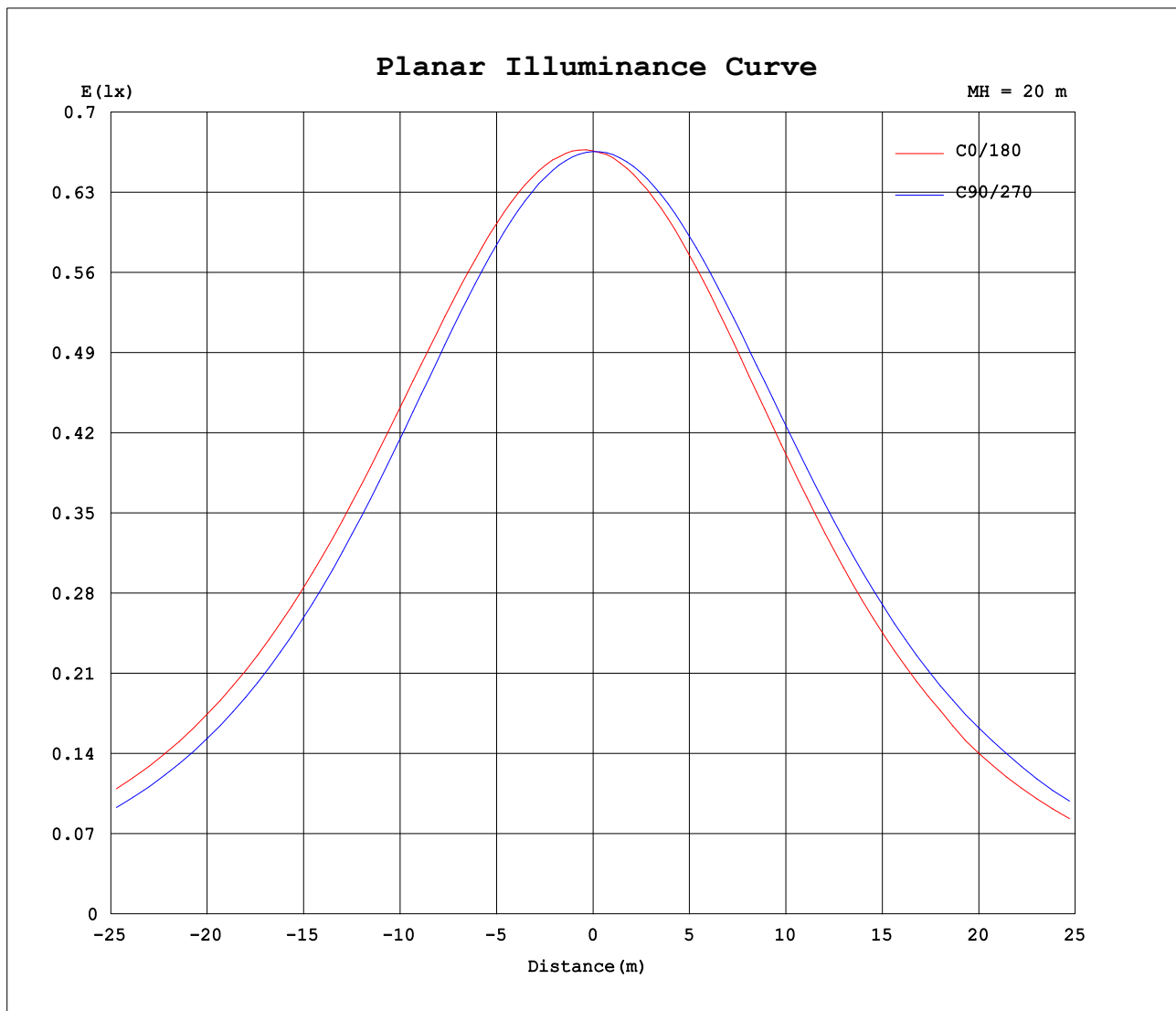
AvgL	cd/m2
L_0~180 (65) av	71093
L_0~180 (75) av	52342
L_0~180 (85) av	33596
L_90~270 (65) av	70047
L_90~270 (75) av	50761
L_90~270 (85) av	13722
L_45 (65) av	70633
L_45 (75) av	51618
L_45 (85) av	23571

Standard: GB/T 29293-2012

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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.054*0.054	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	266	266	266	266	266	266	266	266										
5	267	266	265	264	263	264	266	267										
10	266	264	261	259	258	260	263	265										
15	263	260	255	251	250	253	258	262										
20	257	253	246	242	240	244	251	256										
25	250	244	236	230	228	233	242	248										
30	240	233	223	217	214	220	230	237										
35	228	220	208	201	198	205	217	225										
40	213	205	192	184	181	188	201	210										
45	197	188	173	162	159	170	184	194										
50	179	168	154	142	138	150	163	176										
55	160	147	132	119	115	128	143	156										
60	139	125	108	94.6	90.4	103	120	135										
65	115	101	81.5	69.3	65.0	76.7	96.1	111										
70	89.3	75.8	56.4	44.7	40.4	51.6	71.1	84.8										
75	63.5	50.8	32.5	21.7	17.7	27.9	46.3	59.9										
80	39.1	27.3	11.5	3.77	2.66	7.80	23.3	35.7										
85	16.6	7.60	2.65	1.75	0.92	1.75	4.52	13.6										
90	3.11	2.24	1.53	1.61	1.05	0.96	1.34	2.23										
95	1.54	1.58	1.63	1.71	1.20	1.10	1.02	0.93										
100	1.62	1.67	1.74	1.82	1.35	1.25	1.16	1.07										
105	1.72	1.78	1.86	1.92	1.52	1.40	1.31	1.22										
110	1.83	1.88	1.94	2.01	1.69	1.57	1.47	1.37										
115	1.94	1.97	2.03	2.10	1.84	1.72	1.63	1.54										
120	2.03	2.06	2.12	2.18	2.00	1.87	1.78	1.71										
125	2.12	2.14	2.19	2.25	2.15	2.02	1.94	1.85										
130	2.20	2.22	2.26	2.33	2.30	2.16	2.08	2.01										
135	2.26	2.30	2.35	2.42	2.44	2.31	2.23	2.16										
140	2.35	2.38	2.45	2.54	2.58	2.45	2.38	2.31										
145	2.45	2.50	2.57	2.66	2.73	2.61	2.53	2.46										
150	2.58	2.62	2.71	2.80	2.86	2.75	2.69	2.62										
155	2.73	2.76	2.84	2.92	3.00	2.88	2.83	2.77										
160	2.88	2.90	2.97	3.04	3.12	3.01	2.97	2.92										
165	3.02	3.03	3.09	3.14	3.22	3.11	3.10	3.04										
170	3.14	3.15	3.18	3.23	3.30	3.19	3.20	3.16										
175	3.25	3.23	3.25	3.28	3.33	3.25	3.27	3.24										
180	3.33	3.29	3.29	3.30	3.33	3.28	3.30	3.29										

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