

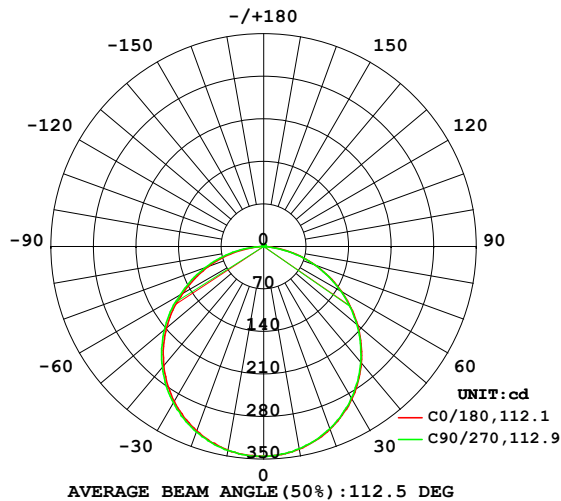
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

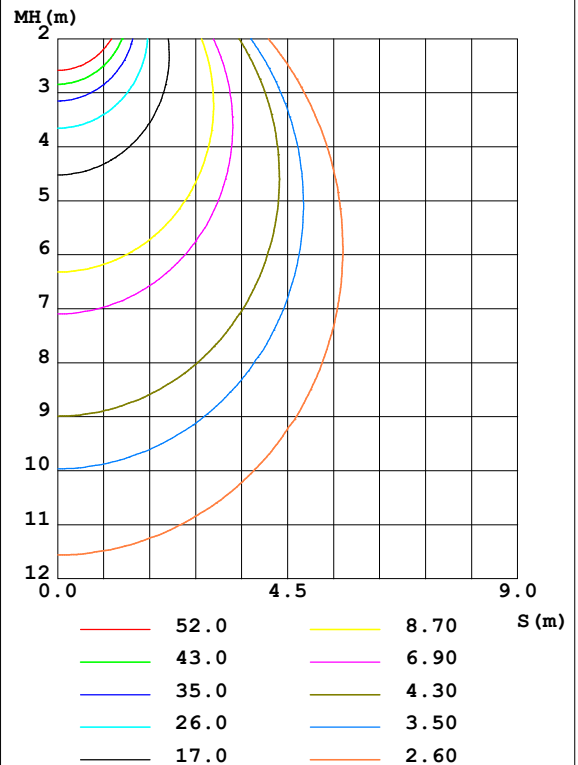
Test:U:119.80V I:0.0930A P:10.900W PF:0.9770 Freq:60.00Hz Lamp Flux:1003.78x1 lm		
NAME: ASD-JBR-4D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.08	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 92.09 lm/W			
MODEL	ASD-JBR-4D12WH	I _{max} (cd)	346.2	S/MH (C0/180)	1.27
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1003.8	η UP, DN (C0-180)	0.9, 48.0
NOMINAL FLUX (lm)	1003.78	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.8, 50.3
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: 2024-07-13

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	338.7	338.0	337.8	340.0	340.3	341.0	340.8	340.1	0- 10	32.70	32.70	3.26,3.26
20	320.0	318.9	319.1	321.9	323.1	325.0	324.7	321.5	10- 20	93.74	126.4	12.6,12.6
30	290.0	288.6	288.1	293.1	294.4	297.4	297.0	293.2	20- 30	142.2	268.6	26.8,26.8
40	250.3	248.0	248.6	254.1	256.0	259.4	259.5	253.4	30- 40	171.6	440.3	43.9,43.9
50	202.1	199.7	200.2	206.2	209.1	213.0	213.2	205.9	40- 50	178.0	618.3	61.6,61.6
60	147.7	142.7	146.1	150.5	153.2	159.8	158.1	152.7	50- 60	160.5	778.7	77.6,77.6
70	91.16	87.45	89.22	94.87	97.03	103.3	102.9	96.02	60- 70	122.1	900.8	89.7,89.7
80	32.39	30.99	30.55	40.51	37.70	46.21	46.07	41.17	70- 80	70.53	971.3	96.8,96.8
90	2.107	2.139	2.118	2.154	1.332	2.239	1.492	1.310	80- 90	15.56	986.9	98.3,98.3
100	2.324	2.349	2.345	2.343	1.600	1.564	1.590	1.624	90-100	1.998	988.9	98.5,98.5
110	2.563	2.593	2.600	2.588	1.995	1.945	1.975	2.004	100-110	2.244	991.1	98.7,98.7
120	2.786	2.837	2.837	2.823	2.399	2.343	2.388	2.408	110-120	2.424	993.6	99,99
130	2.984	3.038	3.033	3.028	2.770	2.724	2.767	2.803	120-130	2.461	996.0	99.2,99.2
140	3.238	3.310	3.306	3.294	3.171	3.114	3.160	3.203	130-140	2.363	998.4	99.5,99.5
150	3.547	3.619	3.615	3.604	3.555	3.501	3.553	3.572	140-150	2.132	1001	99.7,99.7
160	3.853	3.913	3.915	3.906	3.910	3.848	3.896	3.886	150-160	1.724	1002	99.8,99.8
170	4.146	4.151	4.160	4.159	4.199	4.120	4.188	4.153	160-170	1.138	1003	100,100
180	4.299	4.277	4.300	4.297	4.322	4.269	4.311	4.294	170-180	0.4027	1004	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

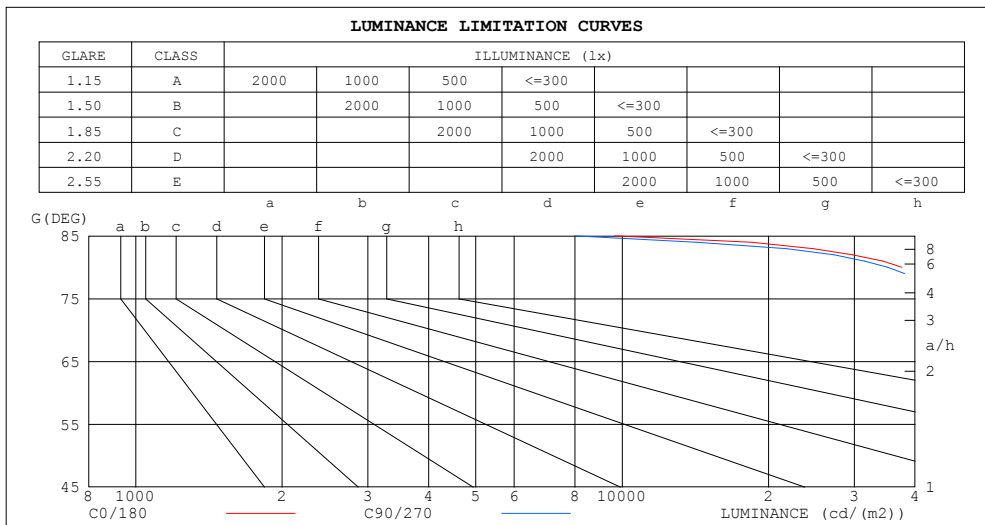
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-07-13

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:119.80V I:0.0930A P:10.900W PF:0.9770 Freq:60.00Hz Lamp Flux:1003.78x1 lm		
NAME: ASD-JBR-4D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.08	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	9643	8001
80	37552	35130
75	48407	46691
70	53655	52089
65	56874	55752
60	59475	58341
55	61521	60542
50	63281	62197
45	64505	63650

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-13

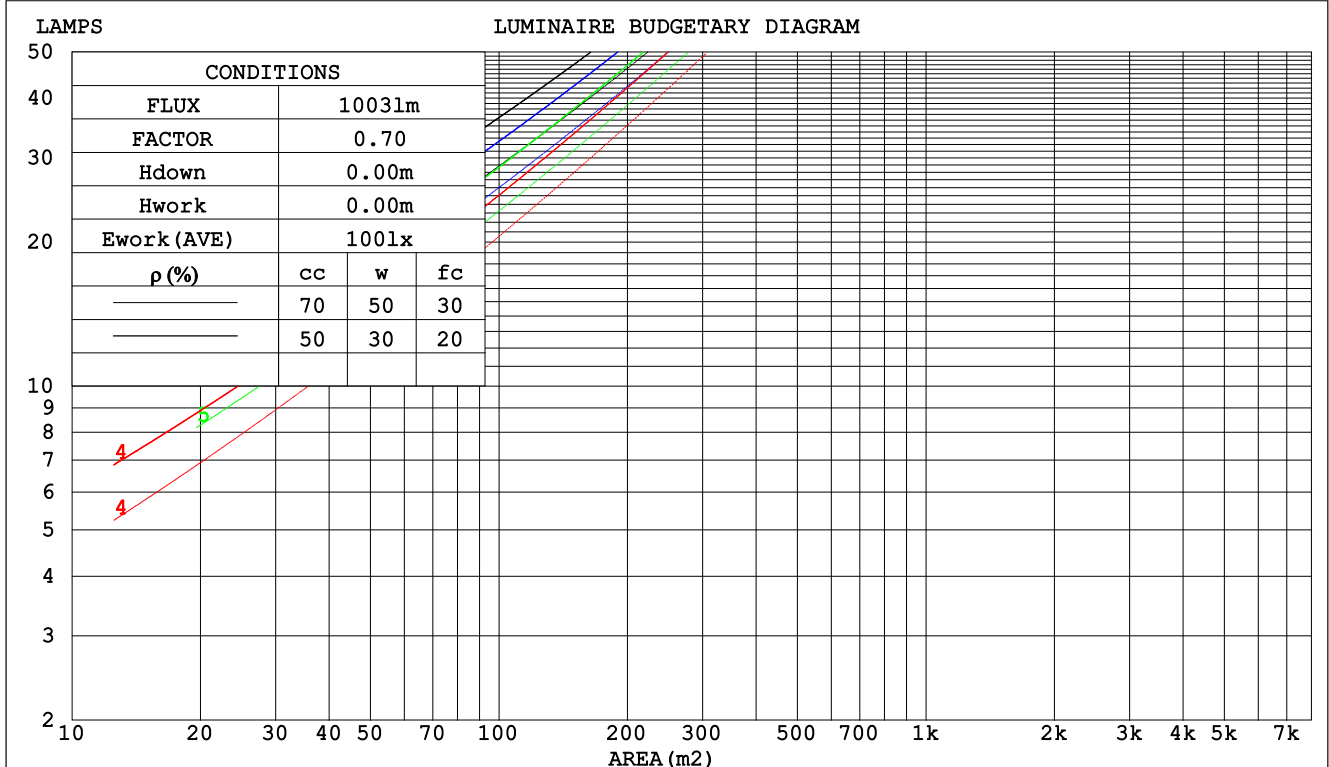
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.80V I:0.0930A P:10.900W PF:0.9770 Freq:60.00Hz Lamp Flux:1003.78x1 lm		
NAME: ASD-JBR-4D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	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	1.04	.99	.96	1.01	.97	.94	.97	.93	.91	.92	.90	.87	.89	.87	.85	.82
2.0	.90	.83	.78	.88	.82	.77	.84	.79	.75	.81	.76	.73	.78	.74	.71	.68
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.71	.66	.61	.68	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.63	.54	.47	.61	.53	.47	.59	.52	.46	.57	.50	.45	.55	.49	.45	.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	.34	.28	.40	.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:2024-07-13

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:119.80V I:0.0930A P:10.900W PF:0.9770 Freq:60.00Hz Lamp Flux:1003.78x1 lm					
NAME: ASD-JBR-4D12WH			TYPE:		WEIGHT:
SPEC.:5000K			DIM.:		SERIAL No.:
MFR.: EVERFINE			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	.307	.174	.055	.299	.171	.054	.285	.163	.052	.272	.157	.050	.260	.151	.049		
2.0	.290	.159	.049	.283	.156	.048	.271	.151	.047	.259	.145	.045	.248	.140	.044		
3.0	.269	.143	.043	.263	.141	.042	.252	.136	.041	.241	.132	.041	.232	.128	.040		
4.0	.248	.129	.038	.243	.127	.038	.233	.124	.037	.224	.120	.036	.215	.117	.036		
5.0	.230	.117	.034	.225	.115	.034	.216	.112	.033	.208	.110	.033	.200	.107	.032		
6.0	.213	.107	.031	.209	.105	.030	.201	.103	.030	.193	.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	.090	.025	.182	.090	.025	.175	.088	.025	.169	.086	.025	.164	.084	.024		
9.0	.174	.084	.023	.171	.083	.023	.165	.081	.023	.159	.080	.023	.154	.078	.023		
10.0	.163	.078	.022	.160	.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	.148	.165	.145	.127	.113	.100	.088	.065	.058	.051	.021	.019	.017	
2.0	.185	.145	.111	.158	.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	.139	.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	.148	.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	.015	.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:2024-07-13

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:119.80V I:0.0930A P:10.900W PF:0.9770 Freq:60.00Hz Lamp Flux:1003.78x1 lm										
NAME: ASD-JBR-4D12WH					TYPE:			WEIGHT:		
SPEC.:5000K					DIM.:			SERIAL No.:		
MFR.: EVERFINE					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	27.0	28.4	27.2	28.7	28.9	26.9	28.4	27.2	28.6	28.8
3H	28.4	29.8	28.7	30.1	30.3	28.3	29.7	28.7	30.0	30.3
4H	29.0	30.3	29.3	30.6	30.9	28.9	30.2	29.2	30.5	30.8
6H	29.3	30.6	29.7	30.9	31.2	29.2	30.4	29.6	30.7	31.1
8H	29.4	30.6	29.7	30.9	31.2	29.2	30.4	29.6	30.7	31.1
12H	29.3	30.5	29.7	30.8	31.2	29.2	30.3	29.6	30.7	31.0
4H 2H	27.5	28.8	27.8	29.1	29.4	27.4	28.8	27.8	29.0	29.3
3H	29.2	30.3	29.5	30.6	31.0	29.1	30.2	29.5	30.6	30.9
4H	29.8	30.9	30.2	31.2	31.6	29.8	30.8	30.2	31.2	31.5
6H	30.3	31.2	30.7	31.6	32.0	30.2	31.1	30.6	31.5	31.9
8H	30.4	31.2	30.8	31.6	32.0	30.2	31.1	30.7	31.5	31.9
12H	30.4	31.1	30.8	31.6	32.0	30.2	31.0	30.7	31.4	31.9
8H 4H	30.1	30.9	30.5	31.3	31.7	30.0	30.8	30.4	31.2	31.7
6H	30.6	31.3	31.1	31.8	32.2	30.5	31.2	31.0	31.6	32.1
8H	30.7	31.4	31.2	31.8	32.3	30.6	31.2	31.1	31.7	32.2
12H	30.7	31.3	31.2	31.8	32.3	30.6	31.1	31.1	31.6	32.1
12H 4H	30.0	30.8	30.5	31.3	31.7	30.0	30.8	30.4	31.2	31.6
6H	30.6	31.3	31.1	31.7	32.2	30.5	31.2	31.0	31.6	32.1
8H	30.8	31.3	31.3	31.8	32.3	30.6	31.2	31.1	31.7	32.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 1004 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:2024-07-13

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:119.80V I:0.0930A P:10.900W PF:0.9770 Freq:60.00Hz Lamp Flux:1003.78x1 lm		
NAME: ASD-JBR-4D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	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) $k(RI) \times RCR = 5$									
$k = 0.60$	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	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	94	86	79	93	85	79	89	82	77	69
2.50	98	91	85	96	89	84	92	86	82	73
3.00	102	95	89	100	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	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		

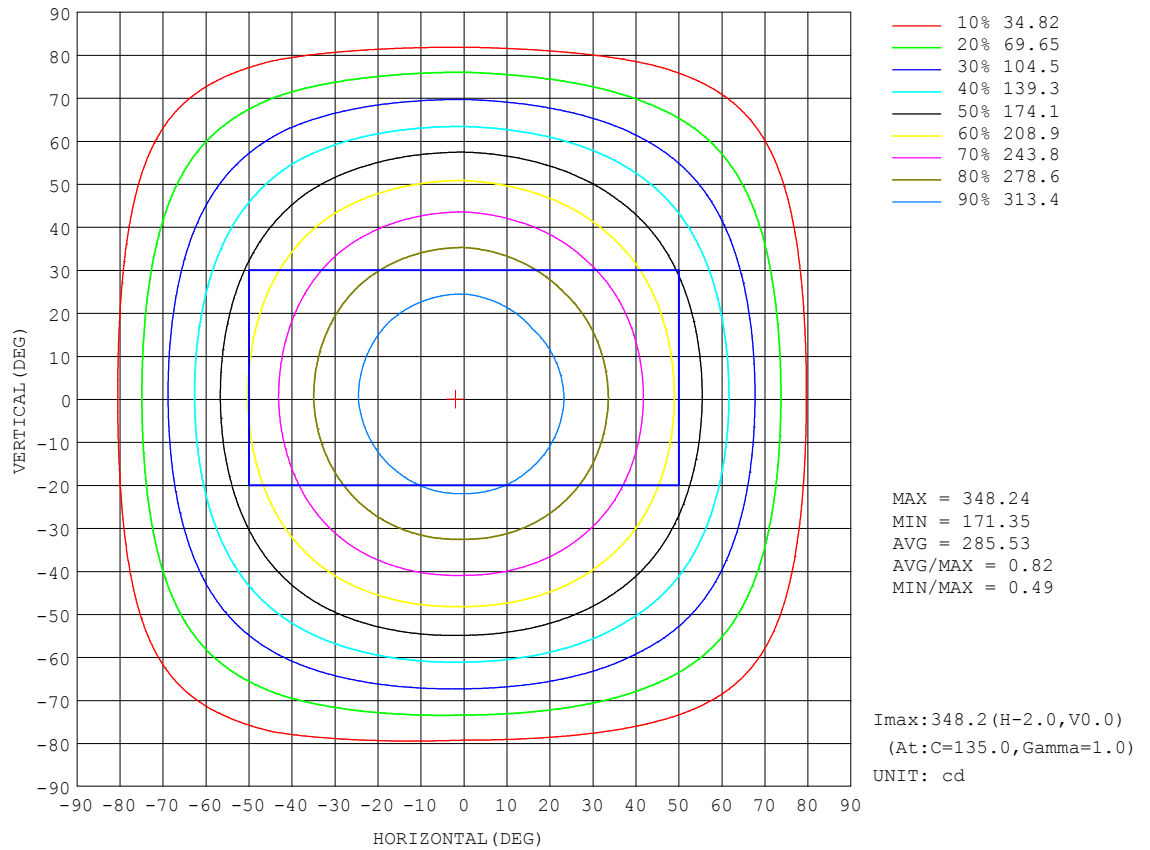
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 Humidity:65.0%
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 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:119.80V I:0.0930A P:10.900W PF:0.9770 Freq:60.00Hz Lamp Flux:1003.78x1 lm		
NAME: ASD-JBR-4D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.08	Shielding Angle:



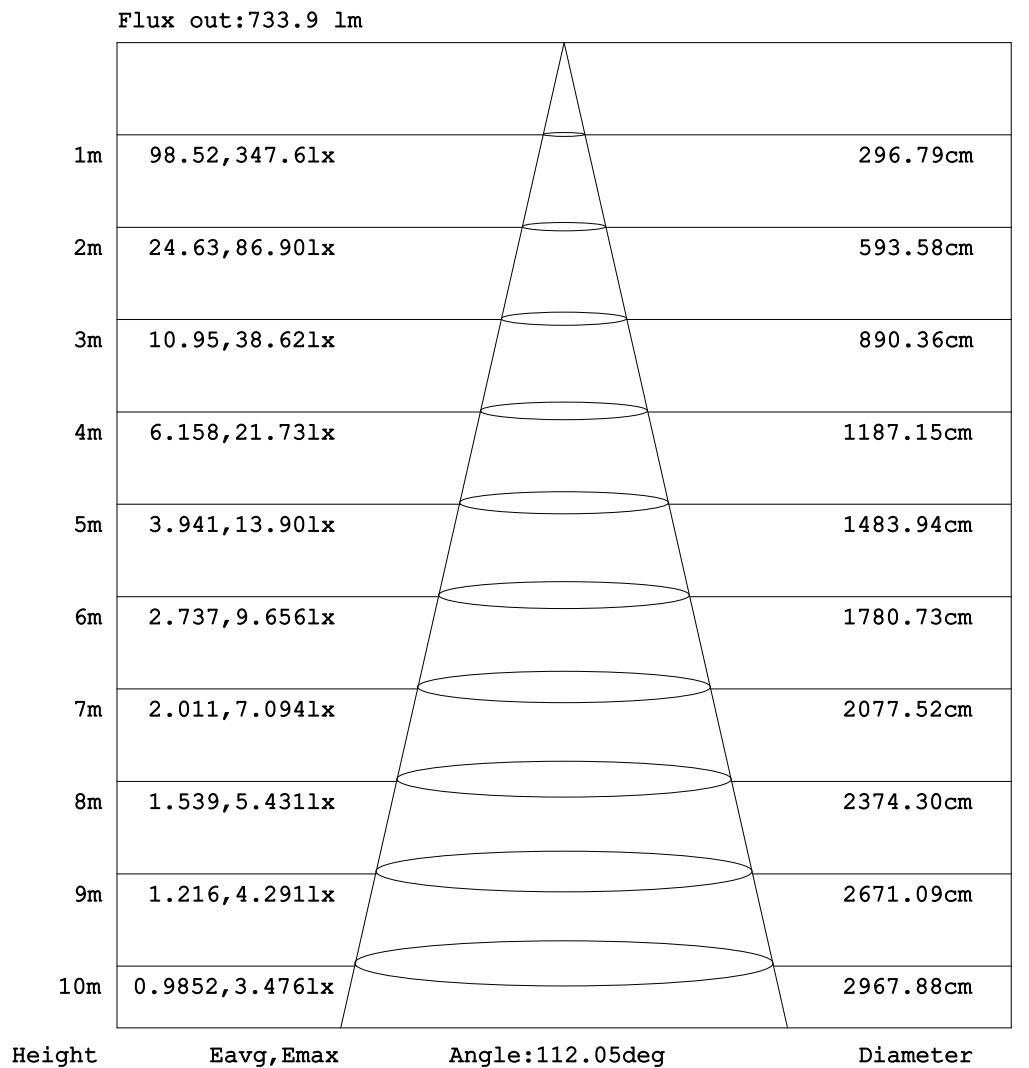
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Humidity:65.0%
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:119.80V I:0.0930A P:10.900W PF:0.9770 Freq:60.00Hz Lamp Flux:1003.78x1 lm		
NAME: ASD-JBR-4D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.08	Shielding Angle:



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

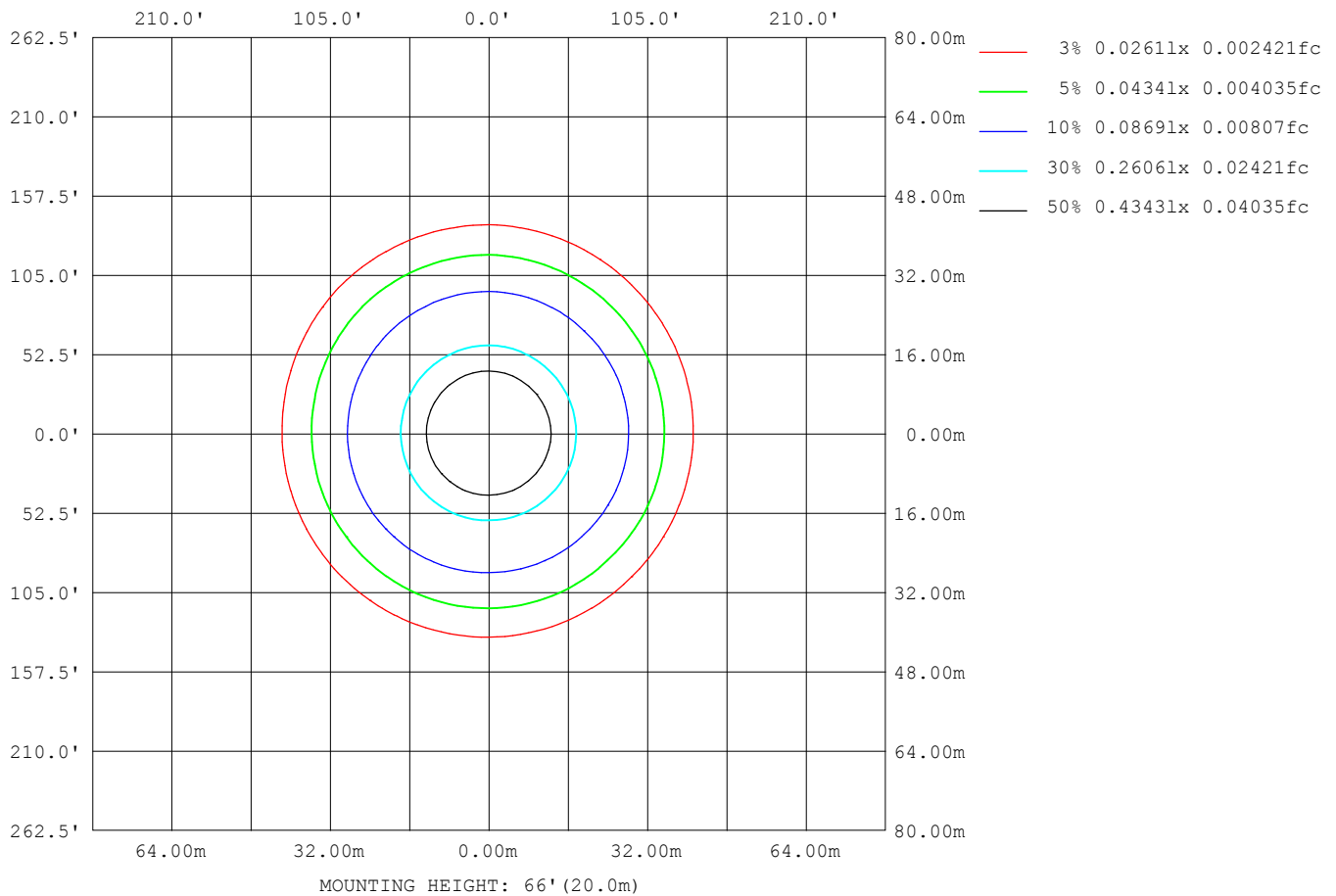
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Humidity:65.0%
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:119.80V I:0.0930A P:10.900W PF:0.9770 Freq:60.00Hz Lamp Flux:1003.78x1 lm		
NAME: ASD-JBR-4D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.08	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-13

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:119.80V I:0.0930A P:10.900W PF:0.9770 Freq:60.00Hz Lamp Flux:1003.78x1 lm		
NAME: ASD-JBR-4D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.08	Shielding Angle:

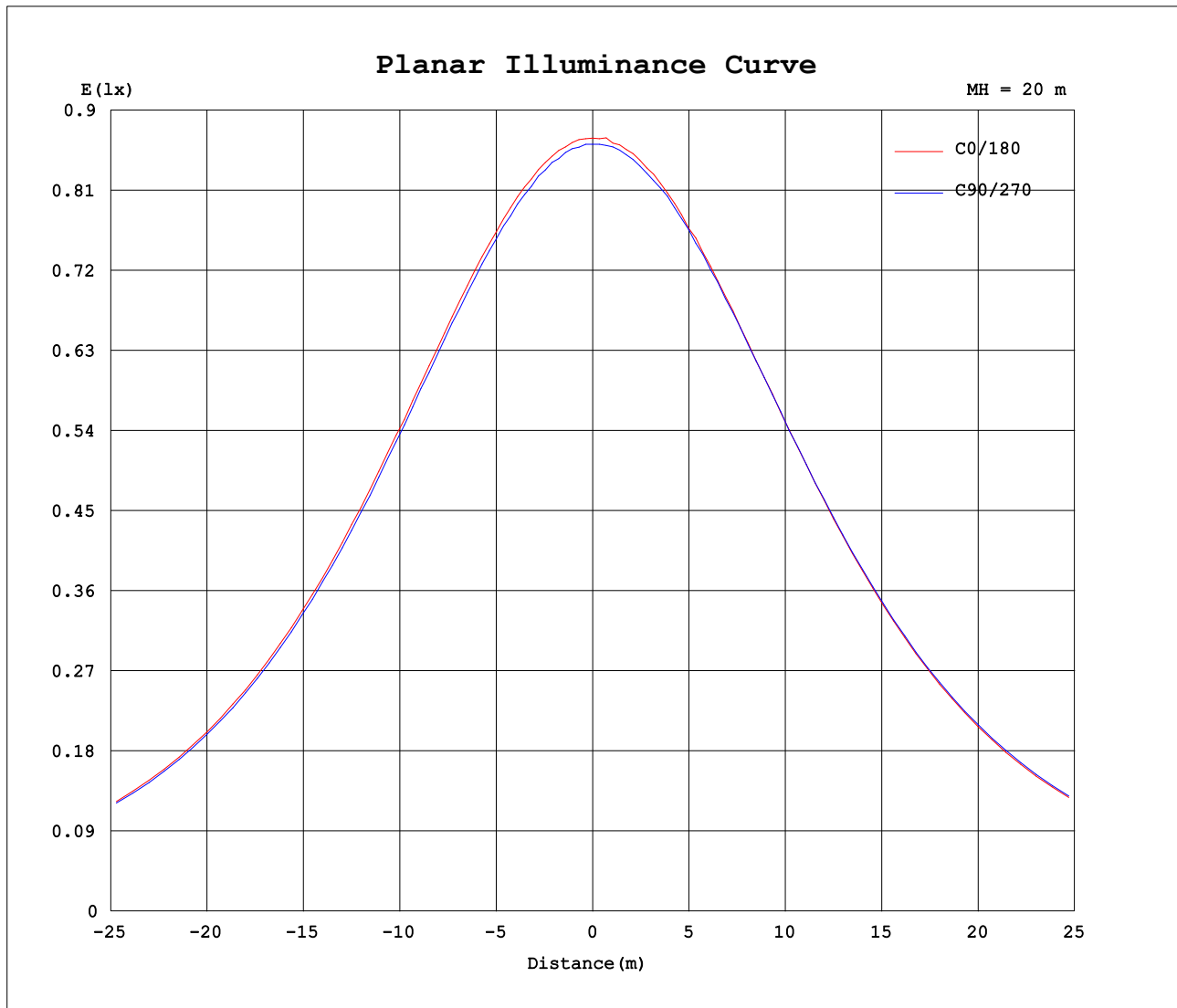
AvgL	cd/m2
L_0~180 (65) av	57859
L_0~180 (75) av	50555
L_0~180 (85) av	14624
L_90~270 (65) av	58841
L_90~270 (75) av	52455
L_90~270 (85) av	22006
L_45 (65) av	58455
L_45 (75) av	52051
L_45 (85) av	29614

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-13

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: 2024-07-13

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:119.80V I:0.0930A P:10.900W PF:0.9770 Freq:60.00Hz Lamp Flux:1003.78x1 lm		
NAME: ASD-JBR-4D12WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.08	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	345	345	345	345	345	345	345	345										
5	344	343	343	345	344	345	344	344										
10	339	338	338	340	340	341	341	340										
15	331	330	330	332	334	334	334	333										
20	320	319	319	322	323	325	325	322										
25	306	305	305	309	310	313	312	309										
30	290	289	288	293	294	297	297	293										
35	271	270	270	275	277	280	280	275										
40	250	248	249	254	256	259	260	253										
45	227	225	225	232	233	237	238	231										
50	202	200	200	206	209	213	213	206										
55	175	172	174	180	183	187	188	180										
60	148	143	146	150	153	160	158	153										
65	119	115	118	123	125	132	131	124										
70	91.2	87.4	89.2	94.9	97.0	103	103	96.0										
75	62.2	59.9	60.5	67.6	68.6	74.4	75.2	67.6										
80	32.4	31.0	30.5	40.5	37.7	46.2	46.1	41.2										
85	4.18	6.13	3.49	14.6	8.57	17.2	15.7	13.6										
90	2.11	2.14	2.12	2.15	1.33	2.24	1.49	1.31										
95	2.19	2.23	2.22	2.23	1.42	1.38	1.42	1.44										
100	2.32	2.35	2.35	2.34	1.60	1.56	1.59	1.62										
105	2.44	2.47	2.48	2.46	1.79	1.75	1.78	1.80										
110	2.56	2.59	2.60	2.59	2.00	1.94	1.97	2.00										
115	2.69	2.72	2.71	2.72	2.20	2.15	2.19	2.21										
120	2.79	2.84	2.84	2.82	2.40	2.34	2.39	2.41										
125	2.88	2.92	2.92	2.93	2.58	2.53	2.58	2.60										
130	2.98	3.04	3.03	3.03	2.77	2.72	2.77	2.80										
135	3.10	3.16	3.16	3.15	2.97	2.92	2.96	3.00										
140	3.24	3.31	3.31	3.29	3.17	3.11	3.16	3.20										
145	3.40	3.46	3.47	3.45	3.36	3.31	3.37	3.39										
150	3.55	3.62	3.61	3.60	3.56	3.50	3.55	3.57										
155	3.71	3.77	3.76	3.76	3.74	3.69	3.73	3.74										
160	3.85	3.91	3.92	3.91	3.91	3.85	3.90	3.89										
165	4.01	4.04	4.06	4.04	4.07	3.99	4.05	4.03										
170	4.15	4.15	4.16	4.16	4.20	4.12	4.19	4.15										
175	4.24	4.24	4.25	4.25	4.30	4.22	4.27	4.24										
180	4.30	4.28	4.30	4.30	4.32	4.27	4.31	4.29										

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