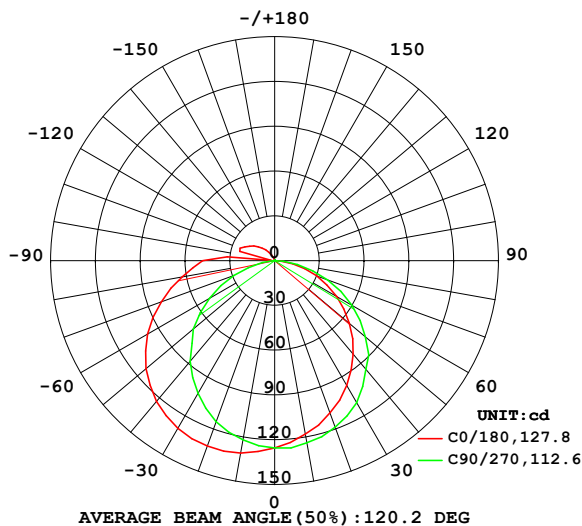


LUMINAIRE PHOTOMETRIC TEST REPORT

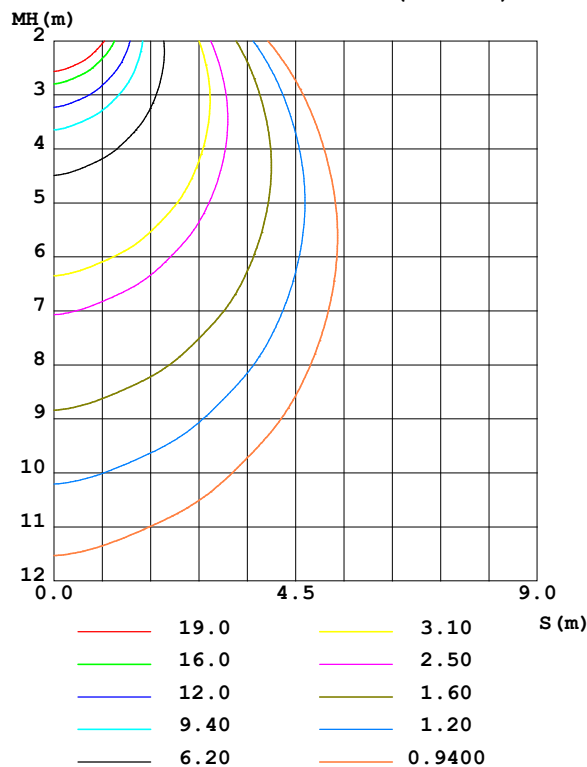
Test:U:119.97V I:0.0470A P:5.1371W PF:0.9107 Freq:60.01Hz		
Lamp Flux:442.727x1 lm		
NAME: ASD-UBN-12WH5000k		
MFR.: EVERFINE		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 86.18 lm/W
MODEL		I _{max} (cd)	132.1	S/MH(C0/180)		1.53
NOMINAL POWER(W)	5	LOR(%)	100.0	S/MH(C90/270)		1.23
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	442.73	η UP,DN(C0-180)		2.0,44.6
NOMINAL FLUX(lm)	442.727	CIE CLASS	DIRECT	η UP,DN(C180-360)		4.5,48.9
LAMPS INSIDE	1	η up(%)	6.4	CIBSE SHR NOM		1.50
TEST VOLTAGE(V)	120	η down(%)	93.6	CIBSE SHR MAX		1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2024-02-02

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity: 65.0%
Test Distance: 26.000m [K=1.2950]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

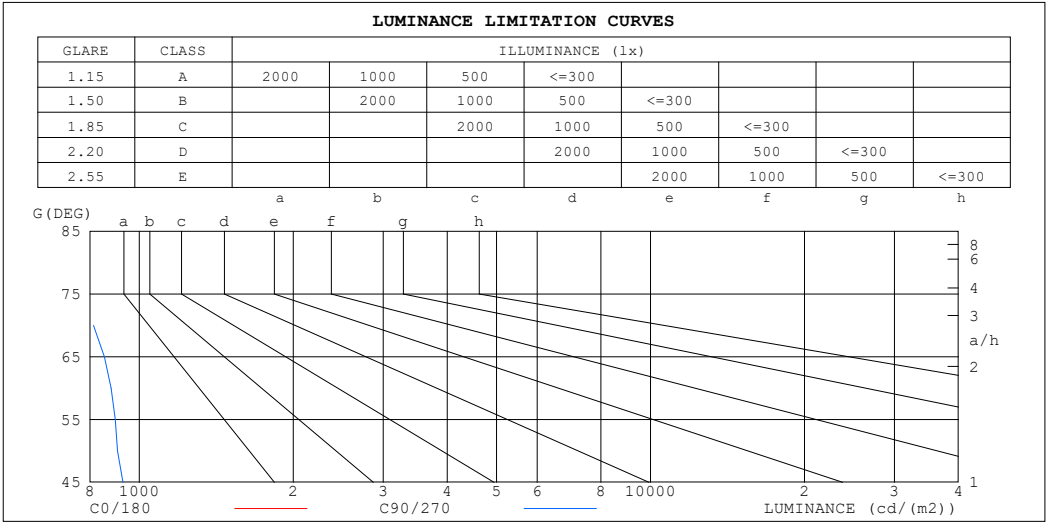
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	118.0	119.1	123.8	130.1	130.9	127.6	121.9	117.6	0- 10	11.88	11.88	2.68,2.68
20	108.4	108.9	118.8	130.5	132.1	125.8	114.9	107.0	10- 20	34.30	46.18	10.4,10.4
30	96.60	96.97	109.9	126.7	129.7	119.8	102.8	94.06	20- 30	52.75	98.93	22.3,22.3
40	82.00	82.44	95.04	118.9	123.1	110.2	88.04	78.75	30- 40	64.94	163.9	37,37
50	65.31	65.43	79.28	106.4	112.7	97.13	71.06	61.70	40- 50	69.55	233.4	52.7,52.7
60	48.11	47.63	59.86	91.06	98.41	80.57	50.36	43.63	50- 60	66.06	299.5	67.6,67.6
70	29.93	29.33	37.84	72.74	80.89	61.45	29.03	25.13	60- 70	54.91	354.4	80,80
80	12.43	11.79	15.45	53.28	62.84	42.35	8.619	8.493	70- 80	38.27	392.7	88.7,88.7
90	0.0162	0.0017	0.6457	37.15	48.36	28.34	0	0	80- 90	21.62	414.3	93.6,93.6
100	0	0	0	16.84	2.435	13.08	0	0	90-100	7.237	421.5	95.2,95.2
110	0	0	0	17.72	24.82	12.58	0	0	100-110	6.535	428.0	96.7,96.7
120	0	0	0	14.01	19.52	10.13	0	0	110-120	6.143	434.2	98.1,98.1
130	0	0	0	10.07	14.46	8.229	0	0	120-130	4.295	438.5	99,99
140	0	0	0	6.446	9.560	6.490	0	0	130-140	2.686	441.2	99.6,99.6
150	0	0	0	0.2416	4.498	3.562	0	0	140-150	1.296	442.5	99.9,99.9
160	0	0	0	0	0	0	0	0	150-160	0.2575	442.7	100,100
170	0	0	0	0	0	0	0	0	160-170	0	442.7	100,100
180	0	0	0	0	0	0	0	0	170-180	0	442.7	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-02

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 γ Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2950]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.97V I:0.0470A P:5.1371W PF:0.9107 Freq:60.01Hz		
Lamp Flux:442.727x1 lm		
NAME: ASD-UBN-12WH5000k		
MFR.: EVERFINE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	413	523
80	524	654
75	594	753
70	640	813
65	671	855
60	704	880
55	723	898
50	743	906
45	767	928

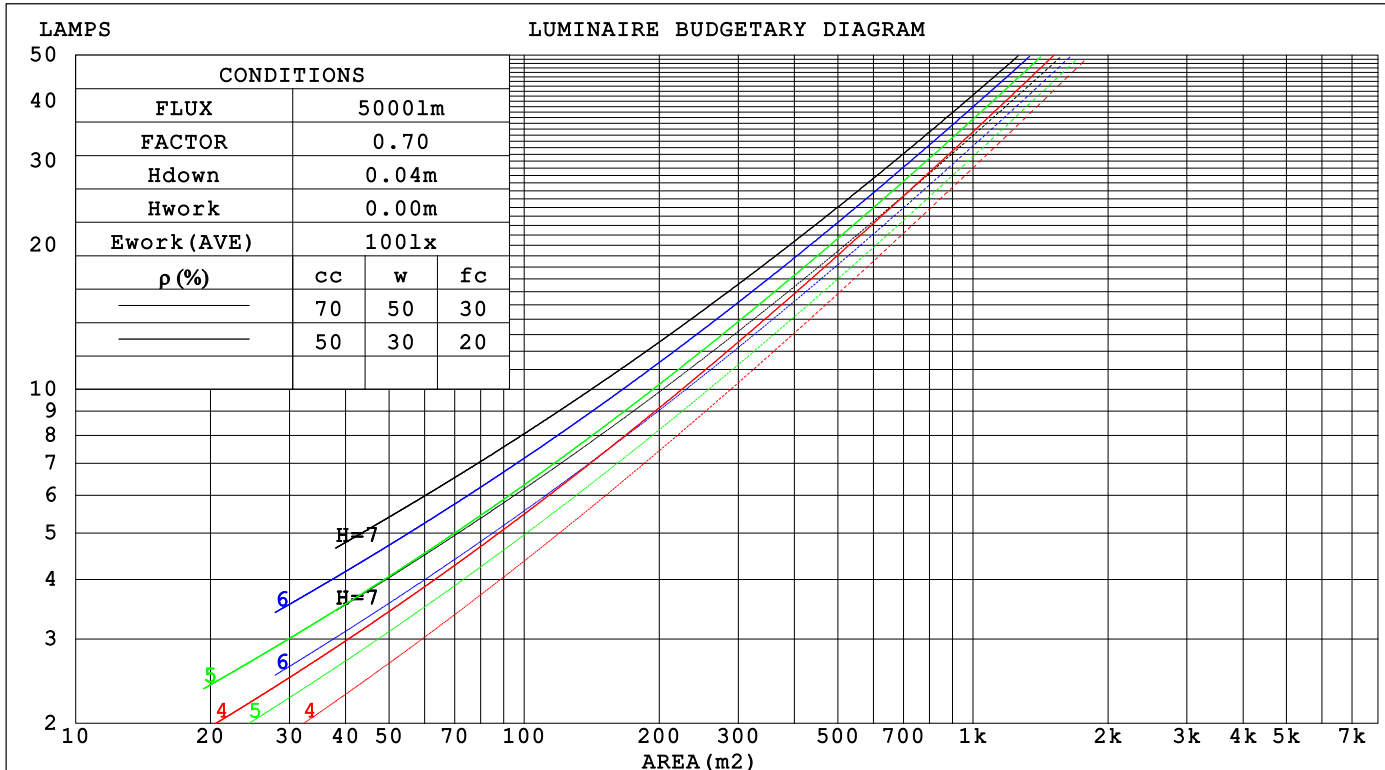
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-02

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2950]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.97V I:0.0470A P:5.1371W PF:0.9107 Freq:60.01Hz		
Lamp Flux:442.727x1 lm		
NAME: ASD-UBN-12WH5000k		
MFR.: EVERFINE		

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	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.96	.96	.96	.94
1.0	1.00	.95	.91	.97	.93	.89	.92	.88	.85	.87	.84	.81	.82	.80	.77	.75
2.0	.86	.79	.73	.84	.77	.71	.79	.73	.68	.75	.70	.66	.71	.67	.64	.61
3.0	.75	.66	.59	.73	.65	.59	.69	.62	.57	.65	.60	.55	.62	.57	.53	.51
4.0	.66	.57	.50	.64	.56	.49	.61	.54	.48	.58	.52	.46	.55	.50	.45	.43
5.0	.59	.50	.43	.57	.49	.42	.55	.47	.41	.52	.45	.40	.49	.44	.39	.37
6.0	.53	.44	.37	.52	.43	.37	.49	.41	.36	.47	.40	.35	.45	.39	.34	.32
7.0	.48	.39	.32	.47	.38	.32	.45	.37	.31	.42	.36	.31	.41	.35	.30	.28
8.0	.44	.35	.29	.43	.34	.28	.41	.33	.28	.39	.32	.27	.37	.31	.27	.25
9.0	.40	.31	.26	.39	.31	.26	.37	.30	.25	.36	.29	.25	.34	.28	.24	.22
10.0	.37	.29	.23	.36	.28	.23	.34	.27	.23	.33	.27	.22	.32	.26	.22	.20



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-02

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2950]
Remarks:

WEC AND CCEC

Test:U:119.97V I:0.0470A P:5.1371W PF:0.9107 Freq:60.01Hz											
Lamp Flux:442.727x1 lm											
NAME: ASD-UBN-12WH5000k											
MFR.: EVERFINE											

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	.353	.201	.064	.344	.196	.062	.326	.187	.060	.311	.179	.058	.296	.172	.055	
2.0	.317	.174	.053	.309	.170	.052	.293	.163	.051	.279	.157	.049	.266	.151	.047	
3.0	.287	.153	.046	.279	.150	.045	.266	.144	.044	.253	.139	.043	.241	.134	.041	
4.0	.261	.136	.040	.254	.133	.039	.242	.128	.038	.231	.124	.037	.220	.120	.036	
5.0	.239	.122	.035	.233	.120	.035	.222	.116	.034	.212	.112	.033	.202	.108	.032	
6.0	.220	.110	.032	.215	.109	.031	.205	.105	.031	.196	.102	.030	.187	.098	.029	
7.0	.204	.101	.029	.199	.099	.028	.190	.096	.028	.182	.093	.027	.174	.090	.027	
8.0	.190	.093	.026	.185	.091	.026	.177	.088	.025	.169	.086	.025	.162	.083	.024	
9.0	.177	.086	.024	.173	.084	.024	.166	.082	.023	.159	.080	.023	.152	.077	.022	
10.0	.166	.080	.022	.162	.078	.022	.156	.076	.021	.149	.074	.021	.143	.072	.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	.239	.239	.239	.205	.205	.205	.140	.140	.140	.080	.080	.080	.026	.026	.026	
1.0	.233	.205	.180	.199	.176	.155	.136	.121	.107	.078	.070	.062	.025	.023	.020	
2.0	.225	.181	.145	.193	.156	.125	.132	.108	.087	.076	.063	.051	.024	.020	.017	
3.0	.218	.164	.122	.187	.142	.106	.128	.099	.074	.074	.058	.044	.024	.019	.014	
4.0	.210	.151	.107	.180	.131	.093	.124	.091	.065	.072	.053	.039	.023	.017	.013	
5.0	.202	.141	.096	.174	.122	.084	.120	.085	.059	.069	.050	.035	.022	.016	.012	
6.0	.195	.133	.089	.168	.115	.077	.116	.081	.055	.067	.047	.032	.022	.016	.011	
7.0	.188	.126	.083	.162	.109	.072	.112	.077	.051	.065	.045	.031	.021	.015	.010	
8.0	.181	.121	.079	.156	.105	.069	.108	.073	.049	.063	.043	.029	.020	.014	.010	
9.0	.175	.116	.076	.151	.100	.066	.104	.071	.047	.061	.042	.028	.020	.014	.009	
10.0	.169	.111	.073	.146	.097	.064	.101	.068	.045	.059	.040	.027	.019	.013	.009	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-02

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2950]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.97V I:0.0470A P:5.1371W PF:0.9107 Freq:60.01Hz		
Lamp Flux:442.727x1 lm		
NAME: ASD-UBN-12WH5000k		
MFR.: EVERFINE		

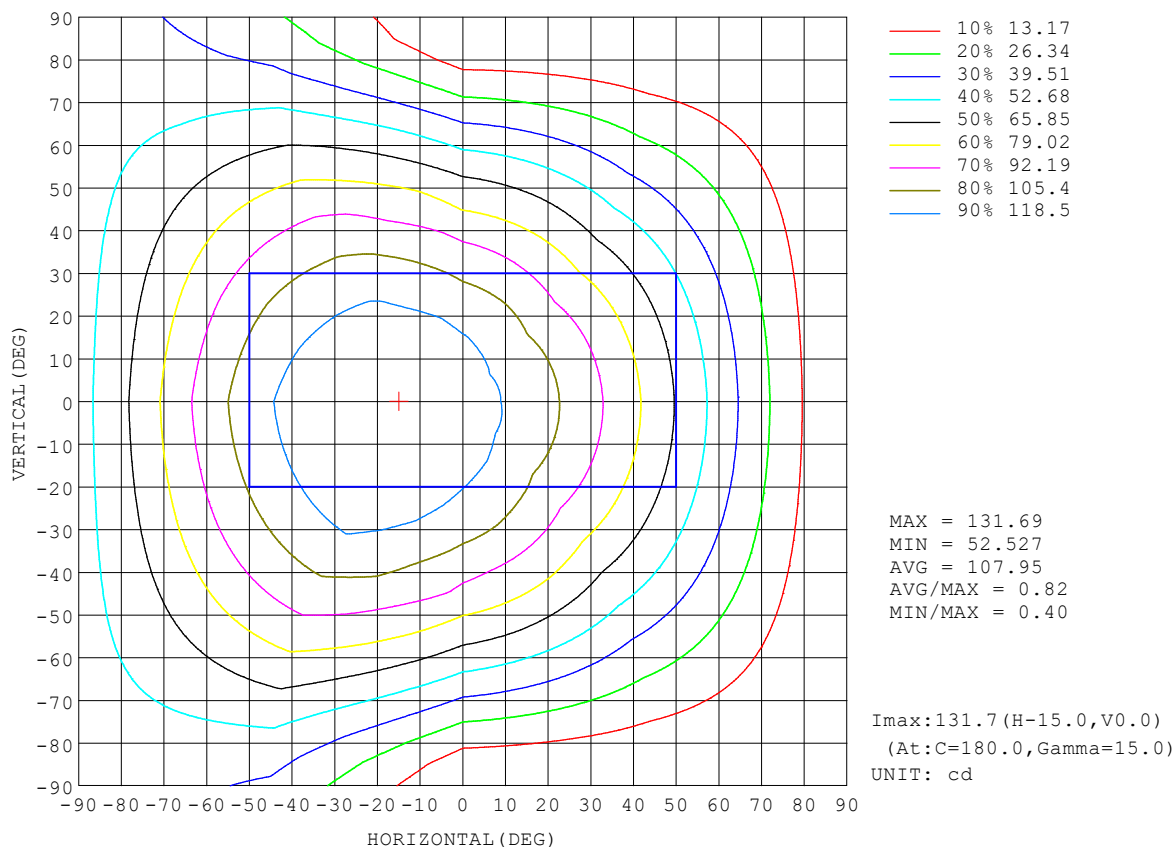
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	34	52	41	34	51	40	33	27
0.80	63	50	43	61	50	42	59	49	42	34
1.00	71	59	51	69	58	51	67	59	50	42
1.25	78	66	58	76	65	58	73	63	57	48
1.50	83	72	64	81	71	63	77	68	62	53
2.00	90	80	73	88	79	72	83	76	70	60
2.50	94	85	78	92	84	77	87	80	75	65
3.00	98	90	83	95	88	82	90	84	79	69
4.00	102	95	90	99	93	88	94	89	85	74
5.00	105	99	94	102	97	92	96	92	88	77
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2024-02-02

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity: 65.0%
 Test Distance: 26.000m [K=1.2950]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:119.97V I:0.0470A P:5.1371W PF:0.9107 Freq:60.01Hz		
Lamp Flux:442.727x1 lm		
NAME: ASD-UBN-12WH5000k		
MFR.: EVERFINE		

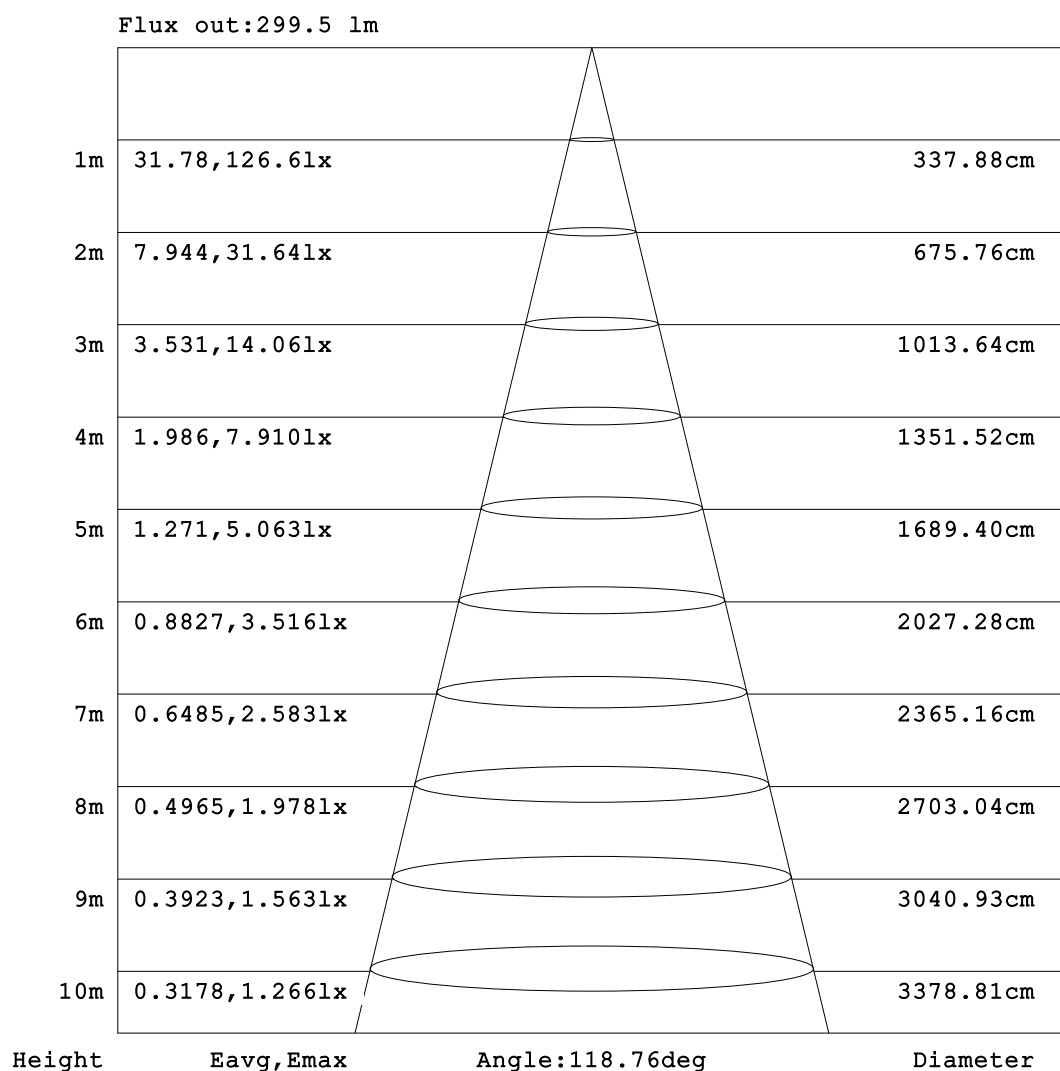


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-02

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2950]
Remarks:

AAI Figure

Test:U:119.97V I:0.0470A P:5.1371W PF:0.9107 Freq:60.01Hz		
Lamp Flux:442.727x1 lm		
NAME: ASD-UBN-12WH5000k		
MFR.: EVERFINE		



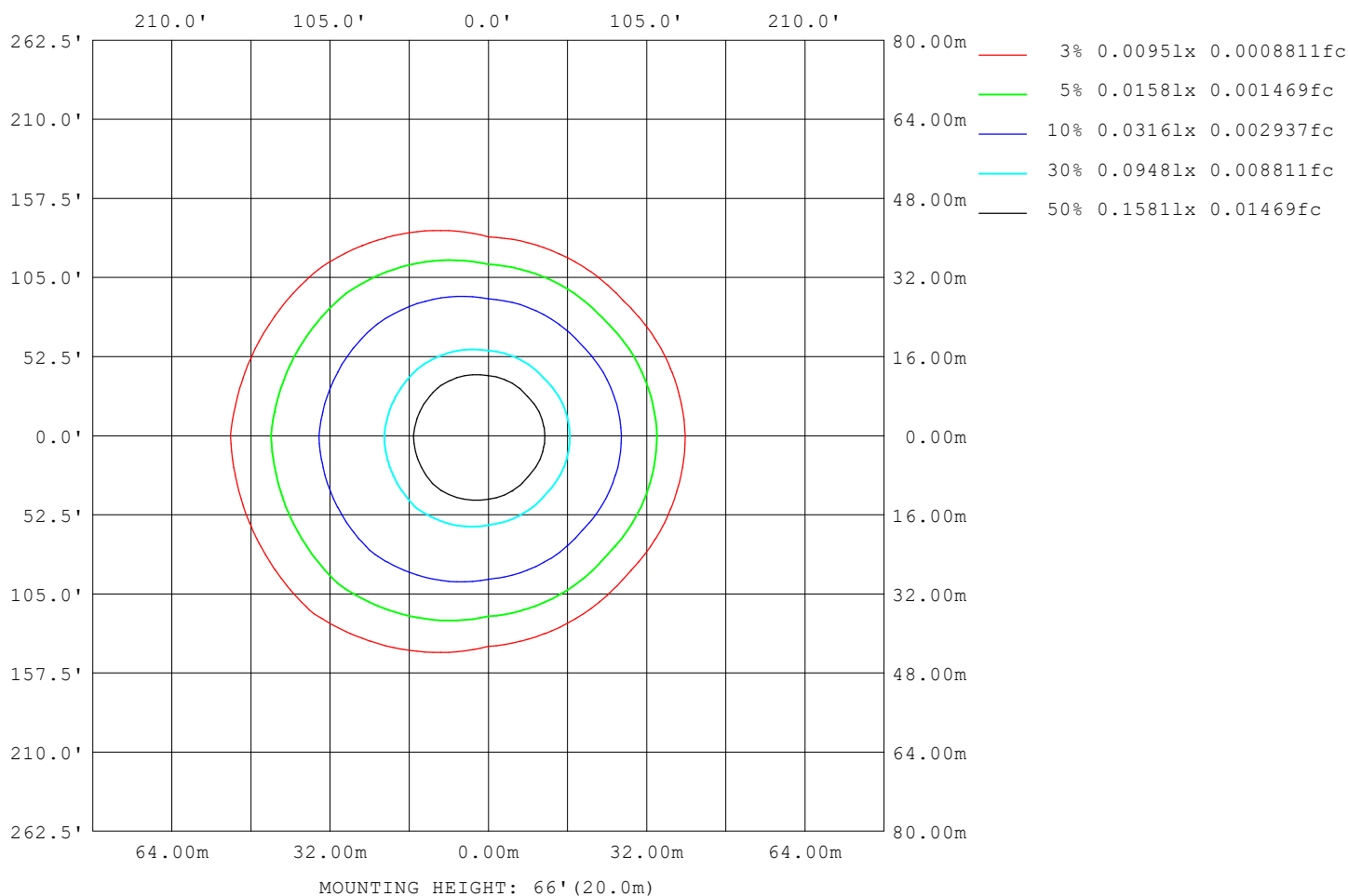
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2024-02-02

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity:65.0%
 Test Distance:26.000m [K=1.2950]
 Remarks:

ISOLUX DIAGRAM

Test:U:119.97V I:0.0470A P:5.1371W PF:0.9107 Freq:60.01Hz Lamp Flux:442.727x1 lm		
NAME: ASD-UBN-12WH5000k		
MFR.: EVERFINE		



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-02

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2950]
Remarks:

LED Avg.L Report

Test:U:119.97V I:0.0470A P:5.1371W PF:0.9107 Freq:60.01Hz		
Lamp Flux:442.727x1 lm		
NAME: ASD-UBN-12WH5000k		
MFR.: EVERFINE		

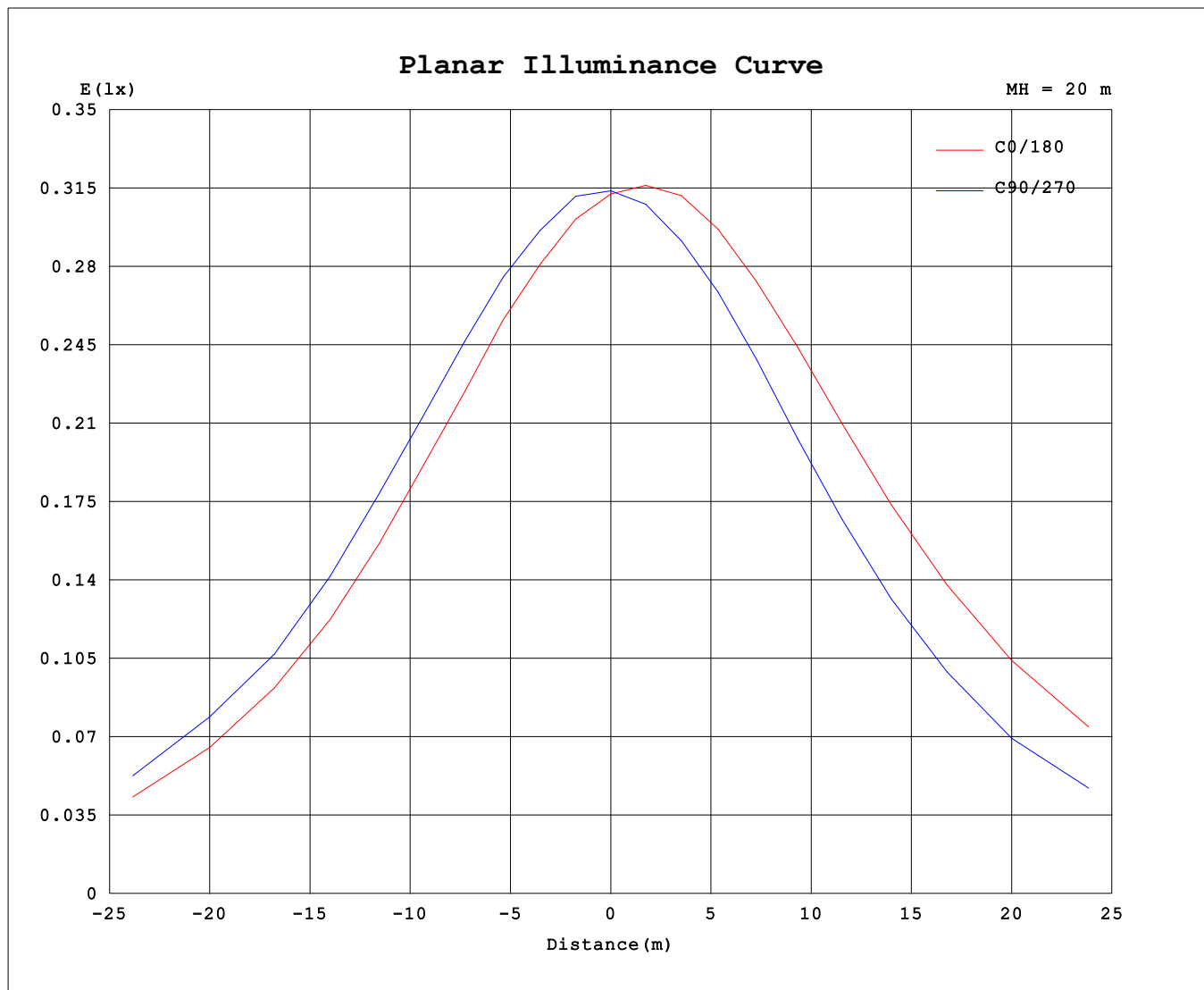
AvgL	cd/m2
L_0~180 (65) av	1118
L_0~180 (75) av	1318
L_0~180 (85) av	2524
L_90~270 (65) av	774
L_90~270 (75) av	636
L_90~270 (85) av	314
L_45 (65) av	981
L_45 (75) av	1073
L_45 (85) av	1792

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-02

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2950]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2024-02-02

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity: 65.0%
Test Distance: 26.000m [K=1.2950]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.97V I:0.0470A P:5.1371W PF:0.9107 Freq:60.01Hz		
Lamp Flux:442.727x1 lm		
NAME: ASD-UBN-12WH5000k		
MFR.: EVERFINE		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	125	125	125	125	125	125	125	125										
5	122	122	126	128	128	126	124	121										
10	118	119	124	130	131	128	122	118										
15	114	115	122	130	132	127	119	113										
20	108	109	119	131	132	126	115	107										
25	103	104	115	129	132	123	109	102										
30	96.6	97.0	110	127	130	120	103	94.1										
35	89.4	89.8	103	123	127	115	95.7	86.4										
40	82.0	82.4	95.0	119	123	110	88.0	78.8										
45	74.1	74.0	89.3	114	118	103	78.4	70.2										
50	65.3	65.4	79.3	106	113	97.1	71.1	61.7										
55	56.7	57.0	70.1	99.2	106	88.9	60.9	52.7										
60	48.1	47.6	59.9	91.1	98.4	80.6	50.4	43.6										
65	38.8	38.2	49.1	82.1	90.0	71.3	39.9	34.4										
70	29.9	29.3	37.8	72.7	80.9	61.5	29.0	25.1										
75	21.0	20.1	26.5	62.9	71.9	51.9	18.3	16.4										
80	12.4	11.8	15.4	53.3	62.8	42.4	8.62	8.49										
85	4.92	4.42	6.21	44.6	55.0	34.5	1.24	1.55										
90	0.02	0.00	0.65	37.1	48.4	28.3	0.00	0.00										
95	0.00	0.00	0.00	0.53	32.0	0.19	0.00	0.00										
100	0.00	0.00	0.00	16.8	2.43	13.1	0.00	0.00										
105	0.00	0.00	0.00	17.7	24.4	13.2	0.00	0.00										
110	0.00	0.00	0.00	17.7	24.8	12.6	0.00	0.00										
115	0.00	0.00	0.00	16.2	22.2	11.2	0.00	0.00										
120	0.00	0.00	0.00	14.0	19.5	10.1	0.00	0.00										
125	0.00	0.00	0.00	12.0	17.2	9.10	0.00	0.00										
130	0.00	0.00	0.00	10.1	14.5	8.23	0.00	0.00										
135	0.00	0.00	0.00	8.21	12.0	7.52	0.00	0.00										
140	0.00	0.00	0.00	6.45	9.56	6.49	0.00	0.00										
145	0.00	0.00	0.00	4.83	6.99	5.38	0.00	0.00										
150	0.00	0.00	0.00	0.24	4.50	3.56	0.00	0.00										
155	0.00	0.00	0.00	0.00	2.39	1.98	0.00	0.00										
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										

C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:2024-02-02

γ Range: 0 - 180DEG

γ Interval: 5.0DEG

Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464

Humidity:65.0%

Test Distance:26.000m [K=1.2950]

Remarks: