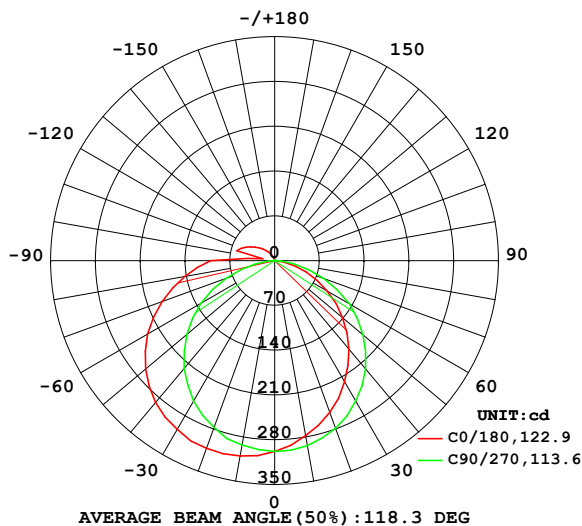


LUMINAIRE PHOTOMETRIC TEST REPORT

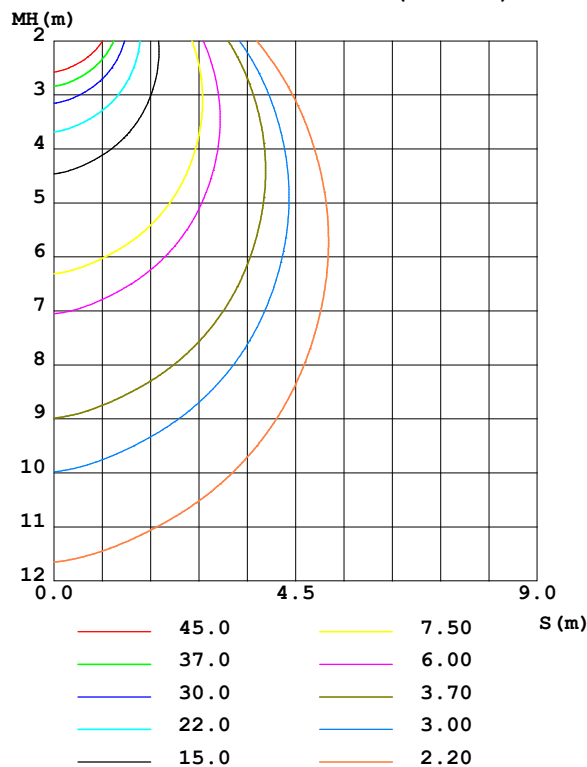
Test:U:120.06V I:0.1076A P:12.141W PF:0.9402 Freq:60.01Hz		
Lamp Flux:1023.11x1 lm		
NAME: ASD-UBN-24WH5000k		
MFR.: EVERFINE		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 84.27 lm/W
MODEL		I _{max} (cd)	312.4	S/MH(C0/180)	1.52	
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.26	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1023.1	η UP,DN(C0-180)	1.6,42.7	
NOMINAL FLUX(lm)	1023.11	CIE CLASS	DIRECT	η UP,DN(C180-360)	4.4,51.3	
LAMPS INSIDE	1	η up (%)	6.0	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	120	η down (%)	94.0	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: 2024-02-03

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:

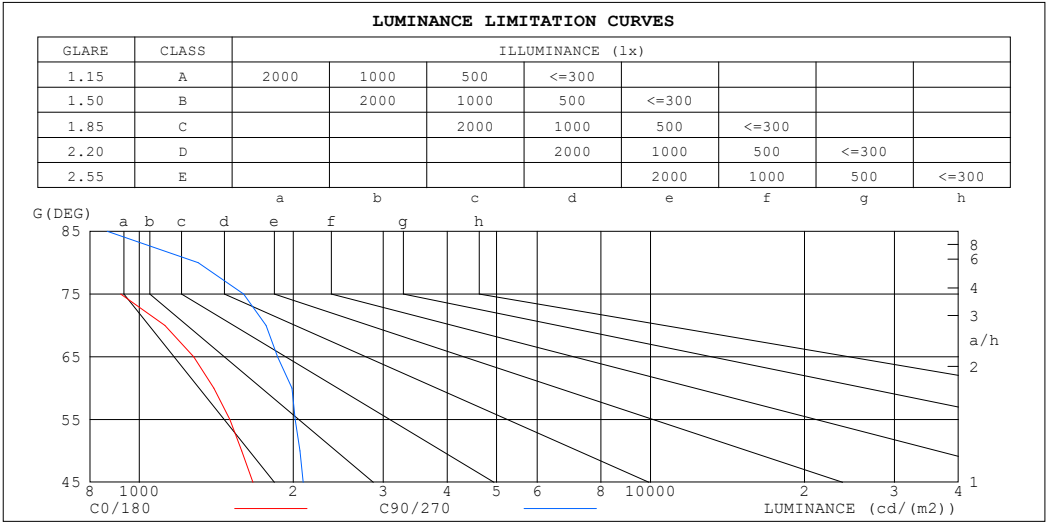
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	278.0	282.8	293.9	307.5	309.9	306.2	292.9	283.2	0- 10	28.30	28.30	2.77,2.77
20	252.5	258.3	279.2	306.1	312.1	305.0	277.7	258.0	10- 20	81.55	109.8	10.7,10.7
30	218.9	227.6	253.4	293.2	304.4	291.2	253.5	226.7	20- 30	125.0	234.8	23,23
40	180.8	190.3	221.0	270.7	289.8	270.5	220.6	188.9	30- 40	153.3	388.1	37.9,37.9
50	138.8	150.2	180.5	240.7	263.1	239.7	179.2	146.5	40- 50	163.2	551.2	53.9,53.9
60	95.22	101.8	135.4	202.7	229.3	201.3	133.3	101.7	50- 60	153.5	704.7	68.9,68.9
70	52.24	57.02	82.31	157.3	186.8	156.1	80.74	56.61	60- 70	125.6	830.4	81.2,81.2
80	14.08	17.16	30.80	108.9	142.6	107.9	30.02	17.29	70- 80	85.40	915.8	89.5,89.5
90	0.6504	0.7288	0.4822	67.51	100.0	66.05	0.0138	0.0016	80- 90	46.06	961.8	94,94
100	0.1607	0	0	36.28	19.25	32.91	0	0	90-100	14.15	976.0	95.4,95.4
110	0.1607	0	0	32.86	56.74	29.08	0	0	100-110	15.51	991.5	96.9,96.9
120	0.1607	0	0	24.62	43.56	22.92	0	0	110-120	13.02	1005	98.2,98.2
130	0	0	0	17.52	31.49	19.44	0	0	120-130	8.950	1013	99.1,99.1
140	0	0	0	11.14	20.71	15.80	0	0	130-140	5.653	1019	99.6,99.6
150	0	0	0	5.733	11.49	10.21	0	0	140-150	2.971	1022	99.9,99.9
160	0	0	0	0	3.832	3.730	0	0	150-160	0.9553	1023	100,100
170	0	0	0	0	0	0	0	0	160-170	0.0793	1023	100,100
180	0	0	0	0	0	0	0	0	170-180	0	1023	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:2024-02-03

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:120.06V I:0.1076A P:12.141W PF:0.9402 Freq:60.01Hz		
Lamp Flux:1023.11x1 lm		
NAME: ASD-UBN-24WH5000k		
MFR.: EVERFINE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	266	865
80	596	1303
75	919	1601
70	1122	1768
65	1277	1863
60	1399	1990
55	1504	2018
50	1587	2063
45	1667	2092

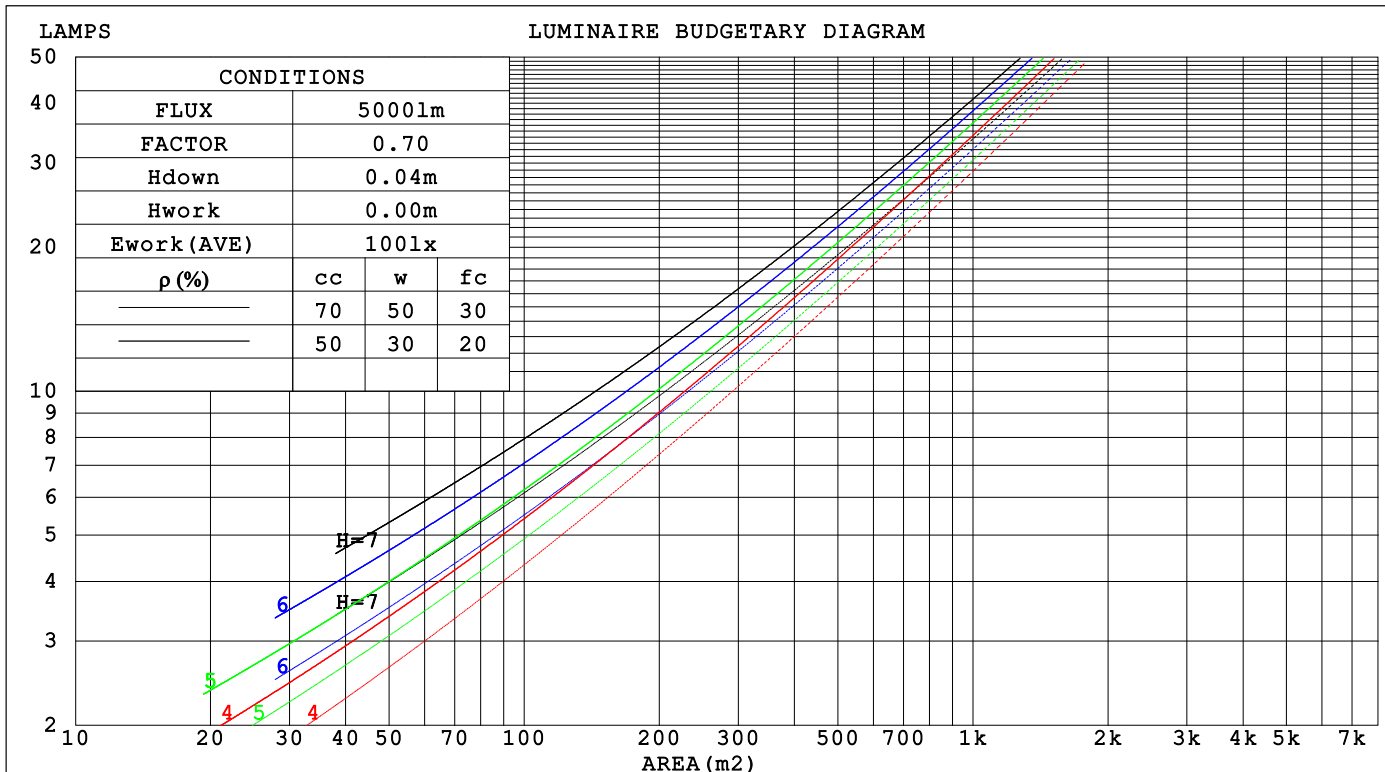
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-03

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:120.06V I:0.1076A P:12.141W PF:0.9402 Freq:60.01Hz		
Lamp Flux:1023.11x1 lm		
NAME: ASD-UBN-24WH5000k		
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	.97	.97	.97	.94
1.0	1.01	.96	.91	.98	.93	.89	.92	.89	.85	.87	.84	.82	.83	.80	.78	.76
2.0	.87	.79	.73	.84	.78	.72	.80	.74	.69	.76	.71	.67	.72	.68	.64	.62
3.0	.76	.67	.60	.74	.66	.59	.70	.63	.57	.66	.60	.56	.63	.58	.54	.51
4.0	.67	.58	.51	.65	.56	.50	.62	.54	.49	.59	.52	.47	.56	.50	.46	.43
5.0	.59	.50	.43	.58	.49	.43	.55	.47	.42	.52	.46	.41	.50	.44	.40	.37
6.0	.53	.44	.38	.52	.43	.37	.50	.42	.36	.47	.41	.35	.45	.39	.35	.32
7.0	.48	.39	.33	.47	.39	.33	.45	.37	.32	.43	.36	.31	.41	.35	.31	.29
8.0	.44	.35	.29	.43	.35	.29	.41	.34	.28	.39	.33	.28	.38	.32	.27	.25
9.0	.40	.32	.26	.39	.31	.26	.38	.31	.26	.36	.30	.25	.35	.29	.25	.23
10.0	.37	.29	.24	.36	.29	.23	.35	.28	.23	.34	.27	.23	.32	.27	.22	.21



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-03

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:120.06V I:0.1076A P:12.141W PF:0.9402 Freq:60.01Hz											
Lamp Flux:1023.11x1 lm											
NAME: ASD-UBN-24WH5000k											
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	.347	.197	.062	.338	.193	.061	.321	.184	.059	.305	.176	.056	.291	.169	.054	
2.0	.313	.172	.053	.305	.168	.052	.290	.161	.050	.276	.155	.048	.263	.149	.047	
3.0	.284	.151	.045	.277	.148	.045	.263	.143	.043	.251	.138	.042	.239	.133	.041	
4.0	.259	.135	.040	.253	.132	.039	.241	.128	.038	.229	.123	.037	.219	.119	.036	
5.0	.237	.121	.035	.232	.119	.035	.221	.115	.034	.211	.111	.033	.201	.108	.032	
6.0	.219	.110	.031	.214	.108	.031	.204	.105	.030	.195	.101	.030	.186	.098	.029	
7.0	.203	.100	.028	.198	.099	.028	.189	.096	.028	.181	.093	.027	.173	.090	.026	
8.0	.189	.092	.026	.185	.091	.026	.177	.088	.025	.169	.086	.025	.162	.083	.024	
9.0	.176	.085	.024	.173	.084	.024	.165	.082	.023	.159	.079	.023	.152	.077	.022	
10.0	.166	.079	.022	.162	.078	.022	.155	.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	.236	.236	.236	.202	.202	.202	.138	.138	.138	.079	.079	.079	.025	.025	.025	
1.0	.229	.202	.177	.196	.173	.153	.134	.119	.106	.077	.069	.061	.025	.022	.020	
2.0	.221	.178	.142	.190	.153	.123	.130	.106	.085	.075	.062	.050	.024	.020	.016	
3.0	.214	.161	.119	.183	.139	.103	.126	.096	.072	.073	.056	.043	.023	.018	.014	
4.0	.206	.148	.104	.177	.128	.090	.122	.089	.063	.070	.052	.038	.023	.017	.012	
5.0	.198	.138	.093	.170	.119	.081	.117	.083	.057	.068	.049	.034	.022	.016	.011	
6.0	.191	.130	.085	.164	.112	.074	.113	.079	.053	.066	.046	.031	.021	.015	.010	
7.0	.184	.123	.080	.158	.106	.070	.109	.075	.049	.064	.044	.029	.021	.014	.010	
8.0	.178	.117	.076	.153	.102	.066	.106	.071	.047	.062	.042	.028	.020	.014	.009	
9.0	.171	.112	.072	.148	.097	.063	.102	.068	.045	.060	.040	.027	.019	.013	.009	
10.0	.166	.108	.070	.143	.094	.061	.099	.066	.043	.058	.039	.026	.019	.013	.009	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-03

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:120.06V I:0.1076A P:12.141W PF:0.9402 Freq:60.01Hz Lamp Flux:1023.11x1 lm		
NAME: ASD-UBN-24WH5000k		
MFR.: EVERFINE		

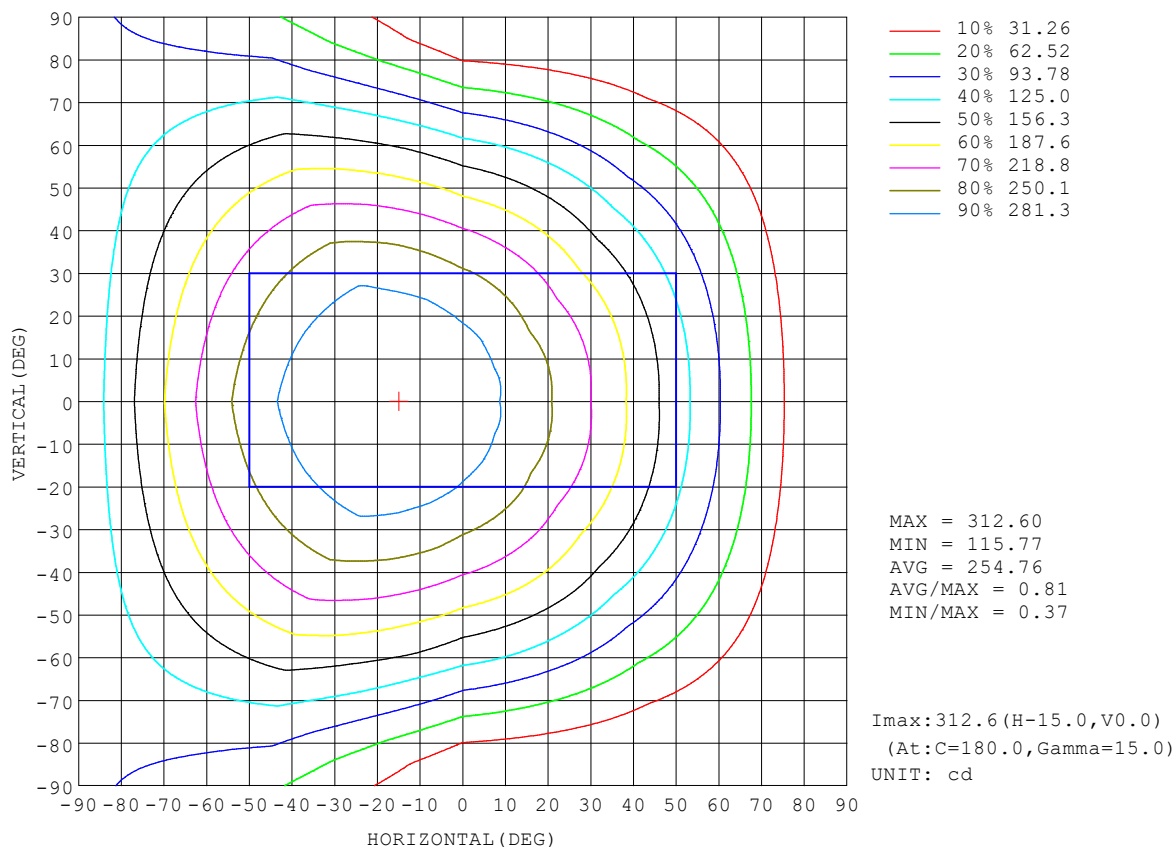
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	34	53	41	34	51	41	34	27
0.80	63	51	43	62	50	43	60	49	42	35
1.00	71	60	52	70	59	51	67	60	51	43
1.25	78	67	59	77	66	59	73	64	58	49
1.50	84	73	65	81	72	64	78	69	63	54
2.00	91	81	74	88	79	73	84	77	71	61
2.50	95	86	79	92	84	78	88	81	76	66
3.00	98	90	84	96	89	83	91	85	80	70
4.00	103	96	91	100	94	89	94	90	85	75
5.00	105	100	95	102	97	93	97	93	89	78
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: 2024-02-03

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:

ISOCANDELA DIAGRAM

Test:U:120.06V I:0.1076A P:12.141W PF:0.9402 Freq:60.01Hz Lamp Flux:1023.11x1 lm		
NAME: ASD-UBN-24WH5000k		
MFR.: EVERFINE		

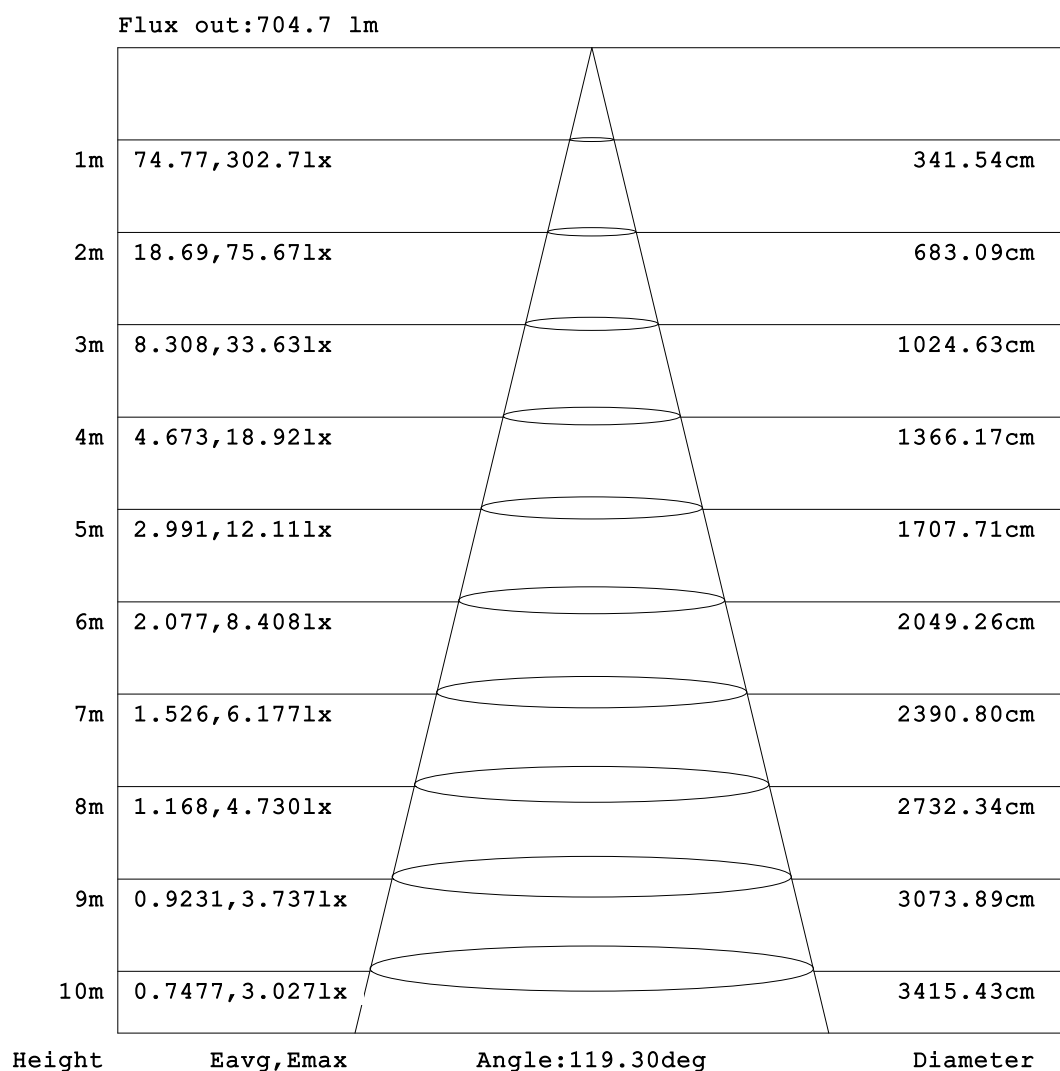


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-03

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:120.06V I:0.1076A P:12.141W PF:0.9402 Freq:60.01Hz		
Lamp Flux:1023.11x1 lm		
NAME: ASD-UBN-24WH5000k		
MFR.: EVERFINE		



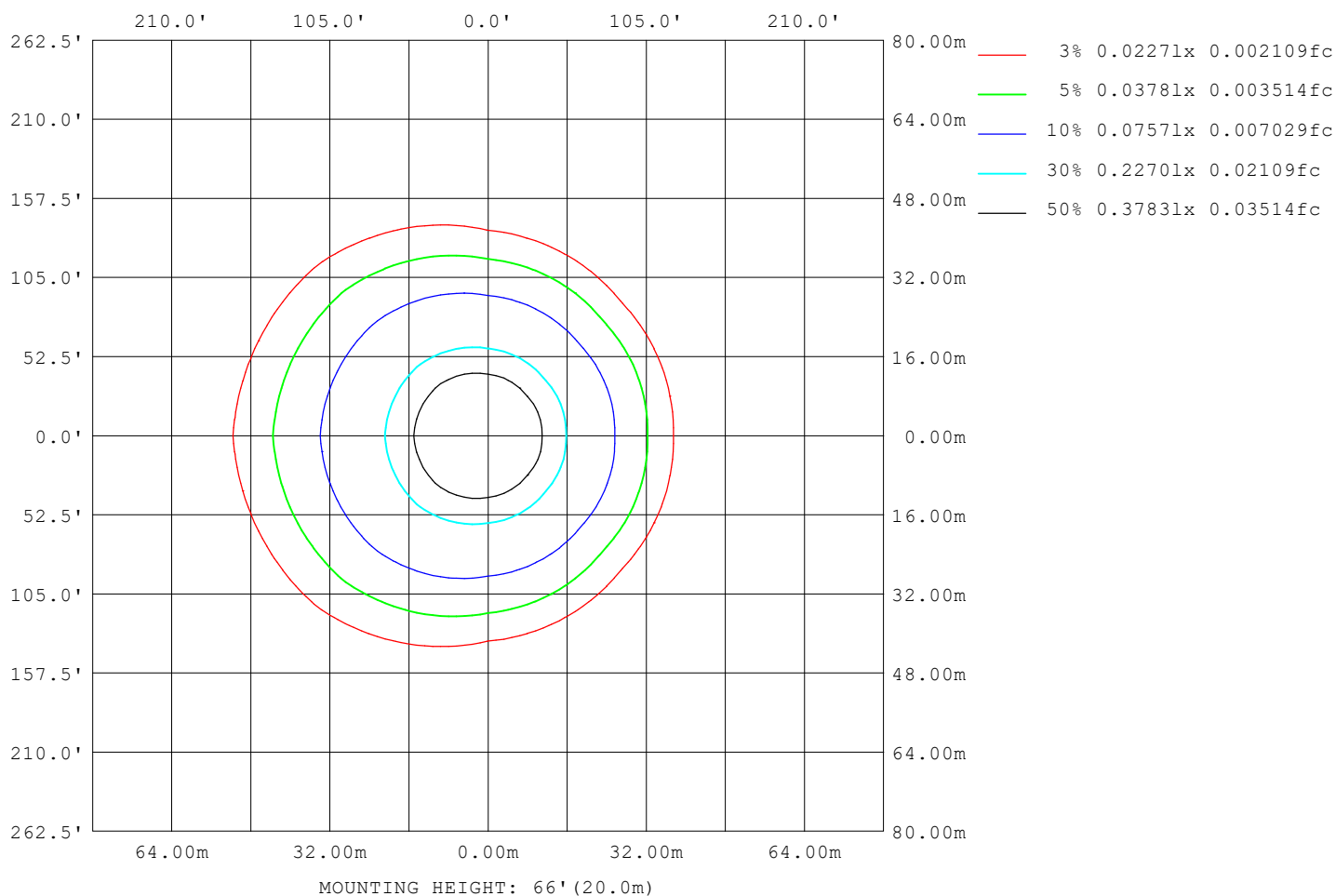
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-03

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:120.06V I:0.1076A P:12.141W PF:0.9402 Freq:60.01Hz		
Lamp Flux:1023.11x1 lm		
NAME: ASD-UBN-24WH5000k		
MFR.: EVERFINE		



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2024-02-03

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:120.06V I:0.1076A P:12.141W PF:0.9402 Freq:60.01Hz Lamp Flux:1023.11x1 lm		
NAME: ASD-UBN-24WH5000k		
MFR.: EVERFINE		

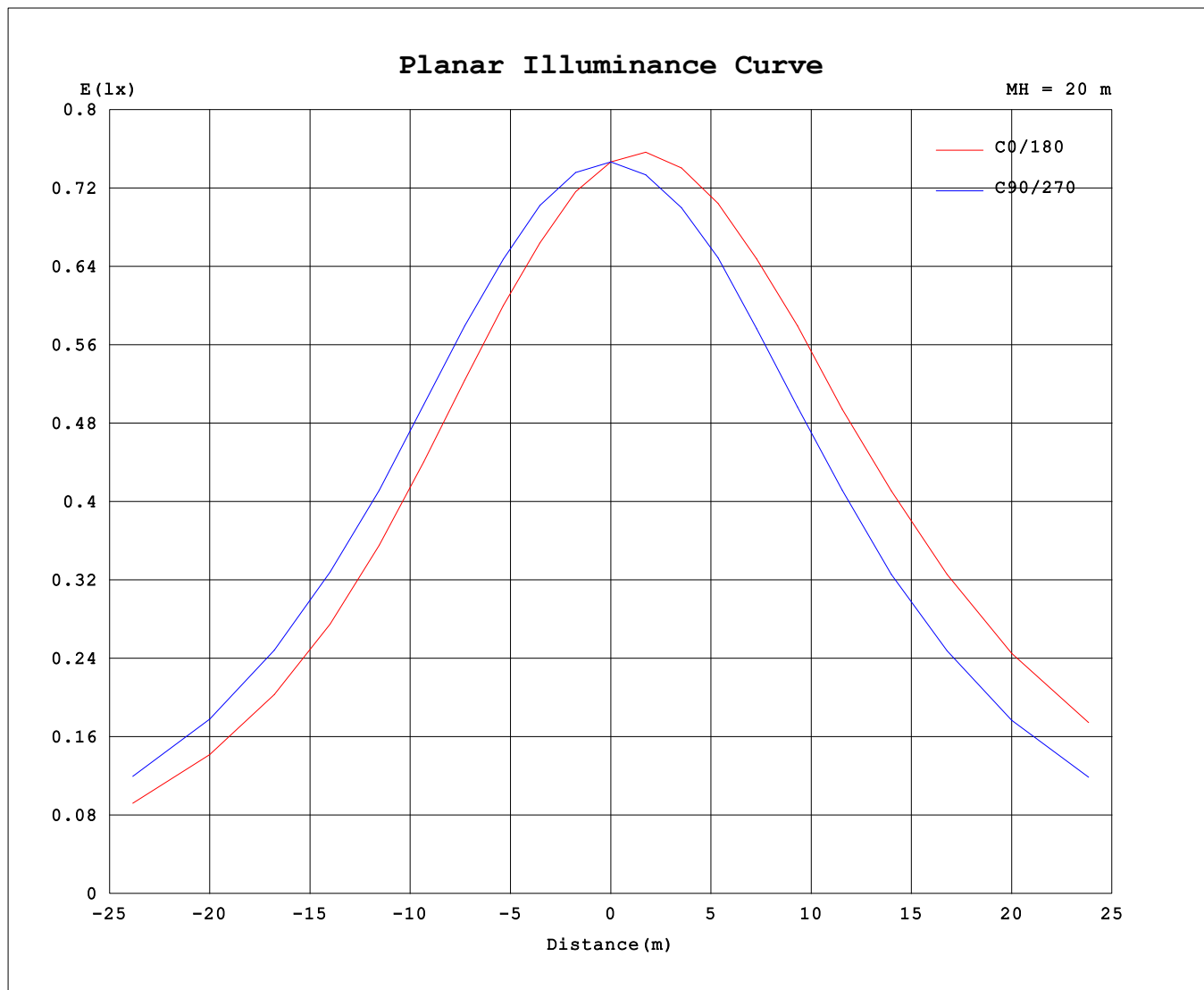
AvgL	cd/m2
L_0~180 (65) av	2451
L_0~180 (75) av	2795
L_0~180 (85) av	5238
L_90~270 (65) av	1863
L_90~270 (75) av	1574
L_90~270 (85) av	831
L_45 (65) av	2246
L_45 (75) av	2388
L_45 (85) av	3785

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-03

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: 2024-02-03

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:120.06V I:0.1076A P:12.141W PF:0.9402 Freq:60.01Hz		
Lamp Flux:1023.11x1 lm		
NAME: ASD-UBN-24WH5000k		
MFR.: EVERFINE		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	298	298	298	298	298	298	298	298										
5	290	291	297	304	306	303	297	291										
10	278	283	294	307	310	306	293	283										
15	266	272	287	308	312	306	288	270										
20	252	258	279	306	312	305	278	258										
25	237	245	268	300	311	300	267	242										
30	219	228	253	293	304	291	253	227										
35	200	210	239	283	299	283	237	209										
40	181	190	221	271	290	271	221	189										
45	160	172	201	256	277	256	200	168										
50	139	150	180	241	263	240	179	146										
55	117	125	158	223	247	221	157	125										
60	95.2	102	135	203	229	201	133	102										
65	73.4	79.2	107	180	209	179	107	78.4										
70	52.2	57.0	82.3	157	187	156	80.7	56.6										
75	32.4	35.9	56.4	133	165	132	54.6	35.9										
80	14.1	17.2	30.8	109	143	108	30.0	17.3										
85	3.15	3.95	10.3	86.8	121	85.7	9.47	3.27										
90	0.65	0.73	0.48	67.5	100	66.1	0.01	0.00										
95	0.24	0.00	0.24	1.21	42.3	1.25	0.00	0.00										
100	0.16	0.00	0.00	36.3	19.2	32.9	0.00	0.00										
105	0.16	0.00	0.00	37.0	61.2	32.8	0.00	0.00										
110	0.16	0.00	0.00	32.9	56.7	29.1	0.00	0.00										
115	0.16	0.00	0.00	28.8	49.9	25.7	0.00	0.00										
120	0.16	0.00	0.00	24.6	43.6	22.9	0.00	0.00										
125	0.16	0.00	0.00	20.9	37.4	21.0	0.00	0.00										
130	0.00	0.00	0.00	17.5	31.5	19.4	0.00	0.00										
135	0.00	0.00	0.00	14.3	26.0	18.0	0.00	0.00										
140	0.00	0.00	0.00	11.1	20.7	15.8	0.00	0.00										
145	0.00	0.00	0.00	8.32	16.0	13.2	0.00	0.00										
150	0.00	0.00	0.00	5.73	11.5	10.2	0.00	0.00										
155	0.00	0.00	0.00	0.08	7.55	6.97	0.00	0.00										
160	0.00	0.00	0.00	0.00	3.83	3.73	0.00	0.00										
165	0.00	0.00	0.00	0.00	0.08	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:2024-02-03

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: