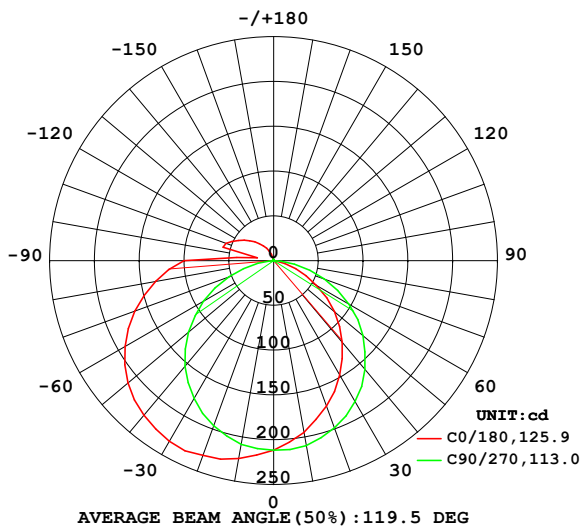


LUMINAIRE PHOTOMETRIC TEST REPORT

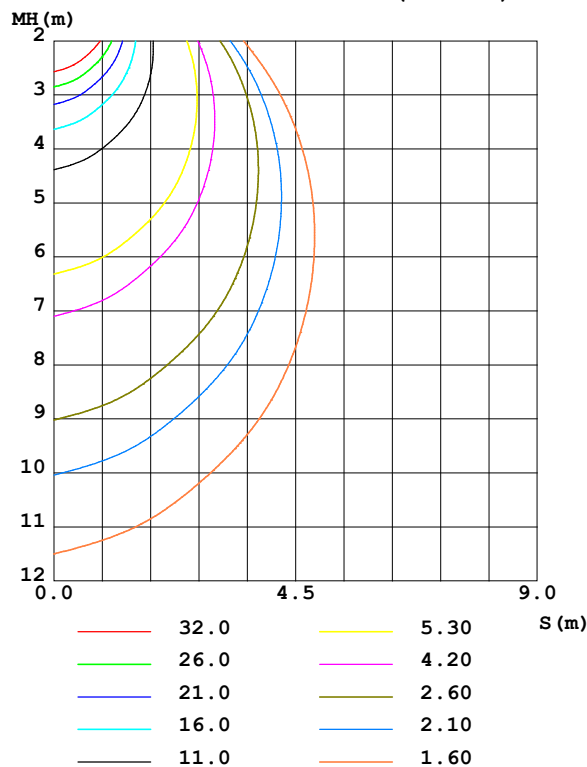
Test:U:120.01V I:0.0854A P:9.7221W PF:0.9485 Freq:60.01Hz		
Lamp Flux:777.536x1 lm		
NAME: ASD-UBN-18WH5000k		
MFR.: EVERFINE		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 79.98 lm/W
MODEL		I _{max} (cd)	234.4	S/MH(C0/180)		1.63
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)		1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	777.54	η UP,DN(C0-180)		2.2,40.6
NOMINAL FLUX(lm)	777.536	CIE CLASS	DIRECT	η UP,DN(C180-360)		6.3,51.0
LAMPS INSIDE	1	η up(%)	8.5	CIBSE SHR NOM		1.50
TEST VOLTAGE(V)	120	η down(%)	91.5	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:

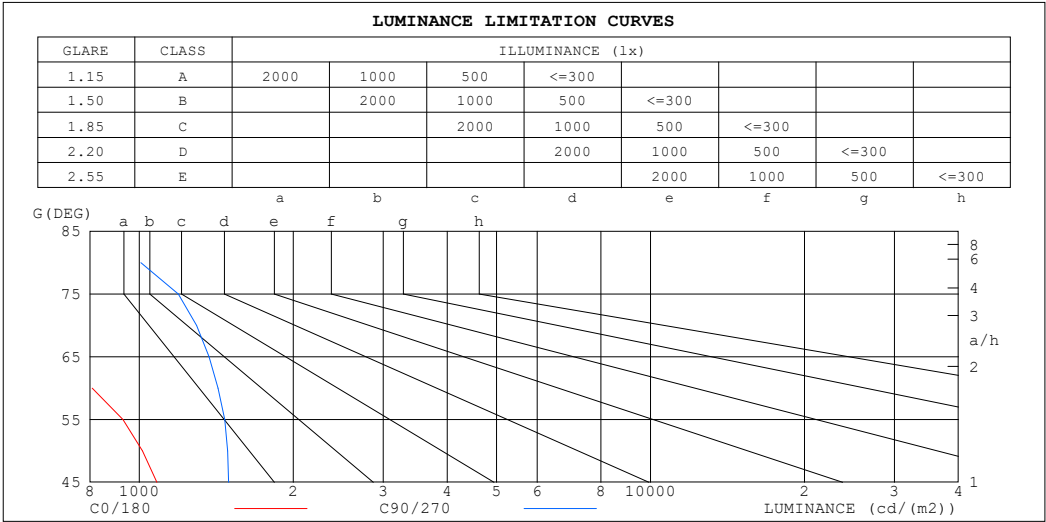
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	194.9	198.7	209.6	219.2	224.4	219.5	208.2	197.7	0- 10	20.07	20.07	2.58,2.58
20	172.9	180.2	198.7	221.9	231.1	222.7	196.2	177.0	10- 20	58.00	78.08	10,10
30	147.8	157.5	181.7	217.7	232.9	217.1	177.8	152.9	20- 30	89.37	167.4	21.5,21.5
40	119.0	129.5	158.7	206.3	225.5	204.9	154.2	124.8	30- 40	110.3	277.8	35.7,35.7
50	88.71	99.06	130.4	189.3	212.5	186.9	124.2	93.38	40- 50	118.4	396.2	51,51
60	55.03	66.62	97.21	164.9	191.7	160.9	90.51	61.52	50- 60	112.9	509.1	65.5,65.5
70	26.26	33.67	60.40	134.8	165.3	130.6	53.17	28.94	60- 70	94.33	603.4	77.6,77.6
80	1.506	7.335	23.86	100.1	133.7	97.22	17.85	4.273	70- 80	67.17	670.6	86.2,86.2
90	0	0	0.0829	66.81	100.3	65.23	0	0	80- 90	41.25	711.8	91.5,91.5
100	0	0	0	30.10	18.57	35.36	0	0	90-100	13.81	725.6	93.3,93.3
110	0	0	0	32.03	56.93	32.77	0	0	100-110	15.31	741.0	95.3,95.3
120	0	0	0	26.15	45.60	26.17	0	0	110-120	13.66	754.6	97.1,97.1
130	0	0	0	20.44	34.97	23.09	0.4146	0	120-130	9.907	764.5	98.3,98.3
140	0	0	0	14.81	25.03	20.41	2.071	0	130-140	6.901	771.4	99.2,99.2
150	0	0	0	9.351	16.29	15.00	1.988	0	140-150	4.148	775.6	99.7,99.7
160	0	0	0	2.730	7.923	7.260	1.403	0	150-160	1.668	777.2	100,100
170	0	0	0	0.0007	0.6578	0.5835	0	0	160-170	0.2947	777.5	100,100
180	0	0	0	0	0	0	0	0	170-180	0.0056	777.5	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
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:120.01V I:0.0854A P:9.7221W PF:0.9485 Freq:60.01Hz		
Lamp Flux:777.536x1 lm		
NAME: ASD-UBN-18WH5000k		
MFR.: EVERFINE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	751
80	64	1007
75	377	1192
70	564	1295
65	694	1369
60	808	1426
55	929	1469
50	1014	1488
45	1083	1496

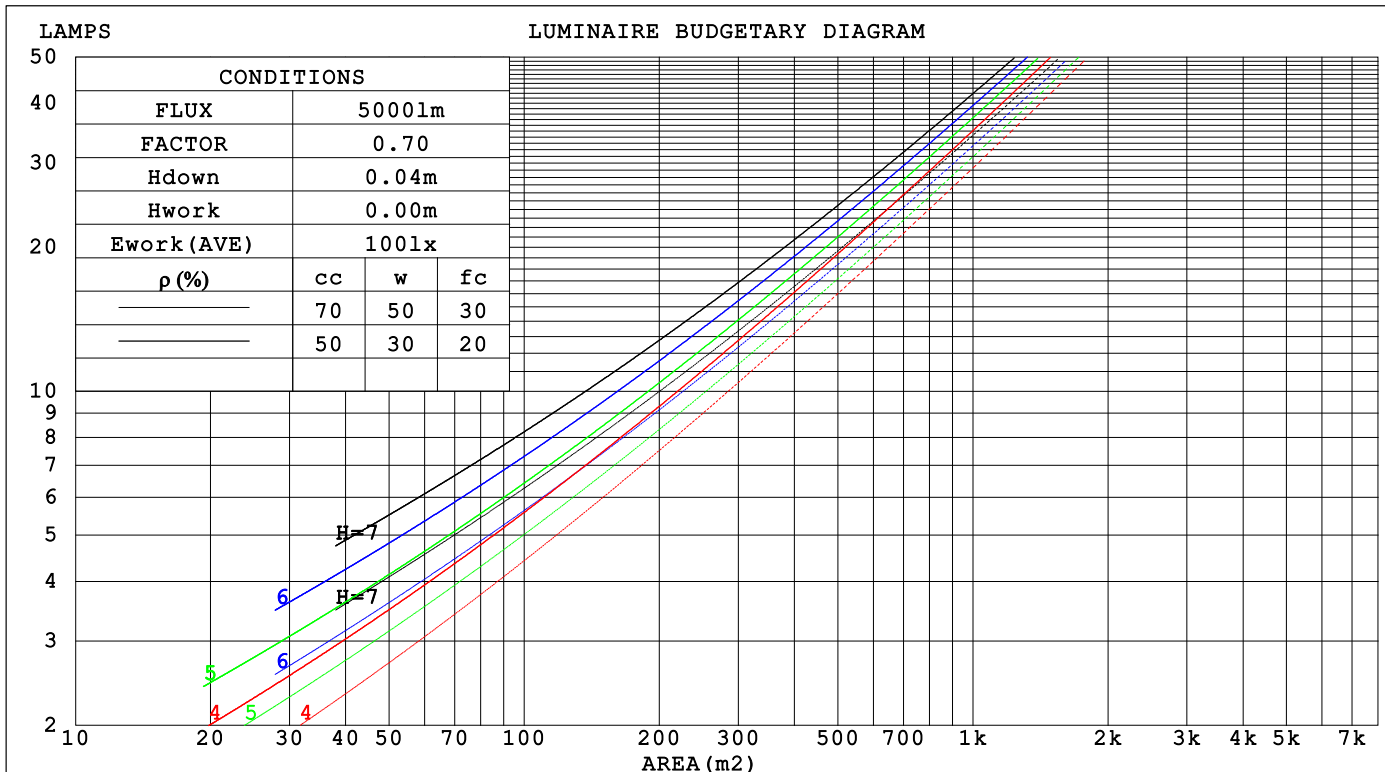
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-03

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:120.01V I:0.0854A P:9.7221W PF:0.9485 Freq:60.01Hz		
Lamp Flux:777.536x1 lm		
NAME: ASD-UBN-18WH5000k		
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															



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:120.01V I:0.0854A P:9.7221W PF:0.9485 Freq:60.01Hz		
Lamp Flux:777.536x1 lm		
NAME: ASD-UBN-18WH5000k		
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	.357	.203	.064	.347	.198	.063	.329	.189	.060	.312	.180	.058	.297	.172	.055		
2.0	.319	.175	.054	.310	.171	.053	.294	.163	.051	.279	.156	.049	.265	.150	.047		
3.0	.288	.153	.046	.280	.150	.045	.265	.144	.044	.252	.138	.042	.239	.132	.041		
4.0	.261	.136	.040	.254	.133	.039	.241	.128	.038	.229	.123	.037	.217	.118	.036		
5.0	.239	.122	.035	.233	.120	.035	.221	.115	.034	.210	.111	.033	.199	.107	.032		
6.0	.220	.110	.032	.214	.108	.031	.204	.104	.030	.194	.101	.030	.184	.097	.029		
7.0	.204	.101	.029	.199	.099	.028	.189	.095	.027	.180	.092	.027	.171	.089	.026		
8.0	.189	.093	.026	.185	.091	.026	.176	.088	.025	.168	.085	.024	.160	.082	.024		
9.0	.177	.086	.024	.173	.084	.024	.165	.081	.023	.157	.079	.023	.150	.076	.022		
10.0	.166	.080	.022	.162	.078	.022	.155	.076	.021	.148	.073	.021	.141	.071	.020		

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	.255	.255	.255	.218	.218	.218	.149	.149	.149	.085	.085	.085	.027	.027	.027		
1.0	.248	.221	.196	.213	.189	.168	.145	.130	.116	.084	.075	.068	.027	.024	.022		
2.0	.241	.197	.160	.207	.170	.138	.142	.117	.097	.082	.068	.057	.026	.022	.018		
3.0	.234	.180	.138	.200	.155	.119	.137	.108	.084	.079	.063	.049	.026	.020	.016		
4.0	.226	.167	.122	.194	.145	.106	.133	.101	.075	.077	.059	.044	.025	.019	.015		
5.0	.218	.157	.112	.187	.136	.098	.129	.095	.069	.075	.056	.041	.024	.018	.013		
6.0	.211	.149	.105	.181	.129	.091	.125	.090	.064	.073	.053	.038	.023	.017	.013		
7.0	.204	.142	.099	.175	.123	.086	.121	.086	.061	.070	.051	.036	.023	.017	.012		
8.0	.197	.137	.095	.170	.118	.083	.117	.083	.059	.068	.049	.035	.022	.016	.012		
9.0	.191	.132	.092	.165	.114	.080	.114	.080	.057	.066	.047	.034	.022	.016	.011		
10.0	.185	.127	.089	.160	.111	.078	.111	.078	.055	.065	.046	.033	.021	.015	.011		

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:120.01V I:0.0854A P:9.7221W PF:0.9485 Freq:60.01Hz		
Lamp Flux:777.536x1 lm		
NAME: ASD-UBN-18WH5000k		
MFR.: EVERFINE		

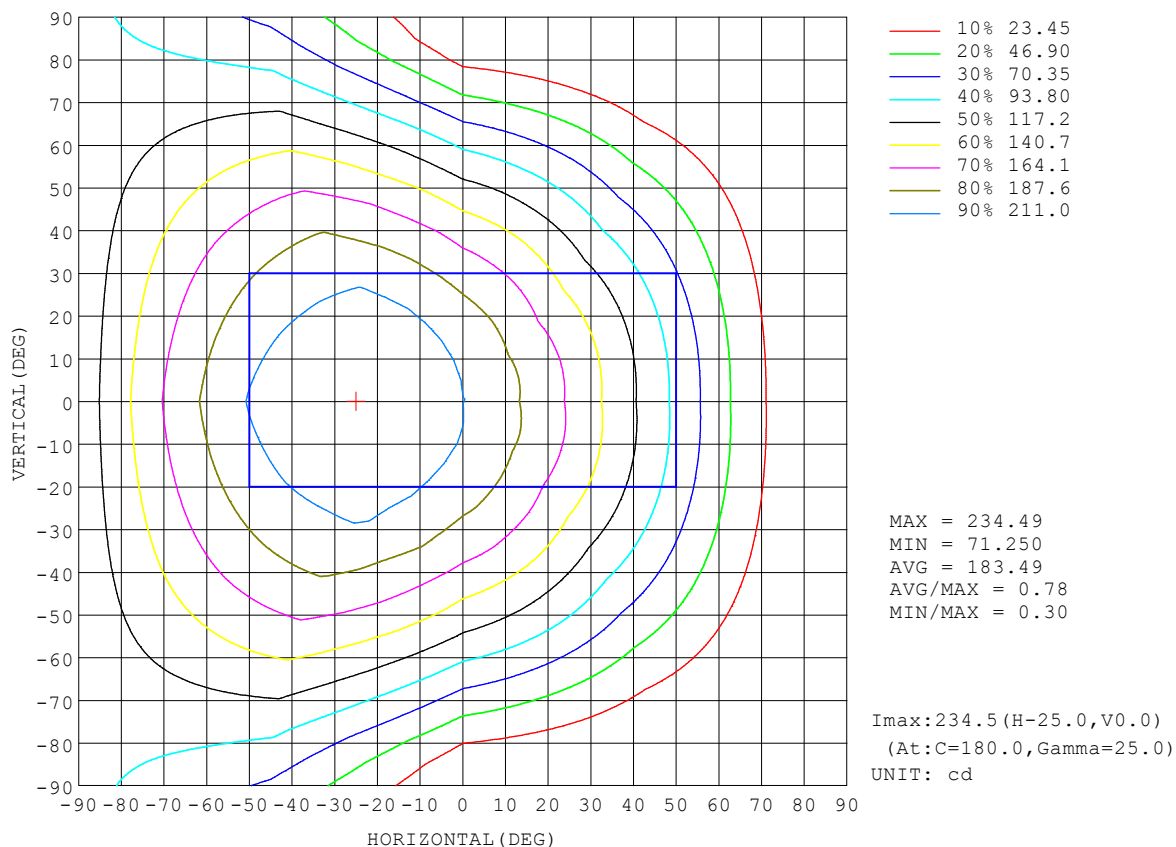
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	40	33	51	40	33	50	39	32	26
0.80	62	49	42	60	49	41	58	48	41	33
1.00	70	58	50	68	57	49	65	58	49	40
1.25	77	65	57	75	64	57	71	62	55	47
1.50	82	71	63	80	70	62	76	67	61	51
2.00	89	79	72	87	78	71	82	74	68	59
2.50	93	84	77	91	82	76	86	79	73	63
3.00	97	89	82	94	87	81	89	83	78	67
4.00	101	95	89	98	92	87	93	87	83	71
5.00	104	98	93	101	96	91	95	91	87	75
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:120.01V I:0.0854A P:9.7221W PF:0.9485 Freq:60.01Hz Lamp Flux:777.536x1 lm		
NAME: ASD-UBN-18WH5000k		
MFR.: EVERFINE		

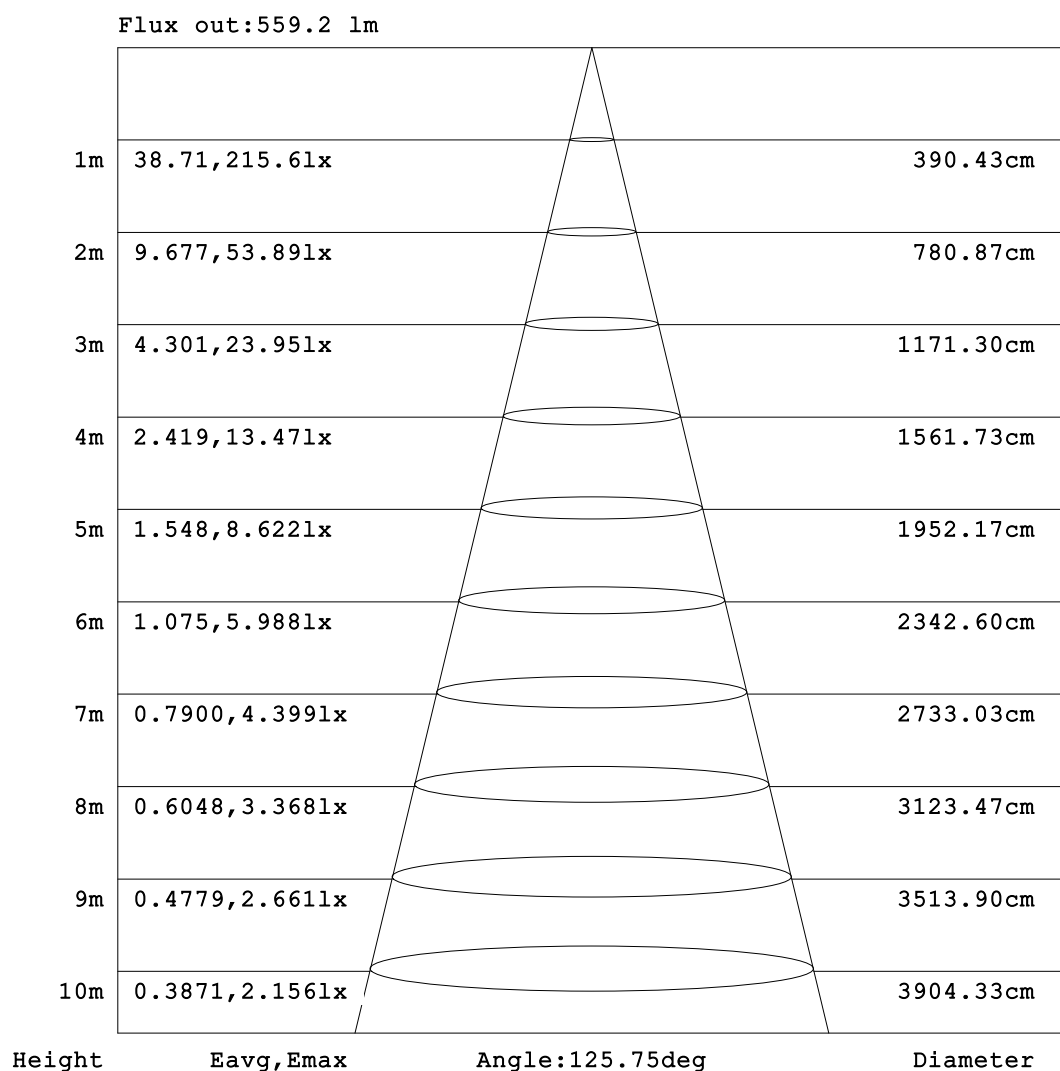


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-03

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:120.01V I:0.0854A P:9.7221W PF:0.9485 Freq:60.01Hz Lamp Flux:777.536x1 lm		
NAME: ASD-UBN-18WH5000k		
MFR.: EVERFINE		



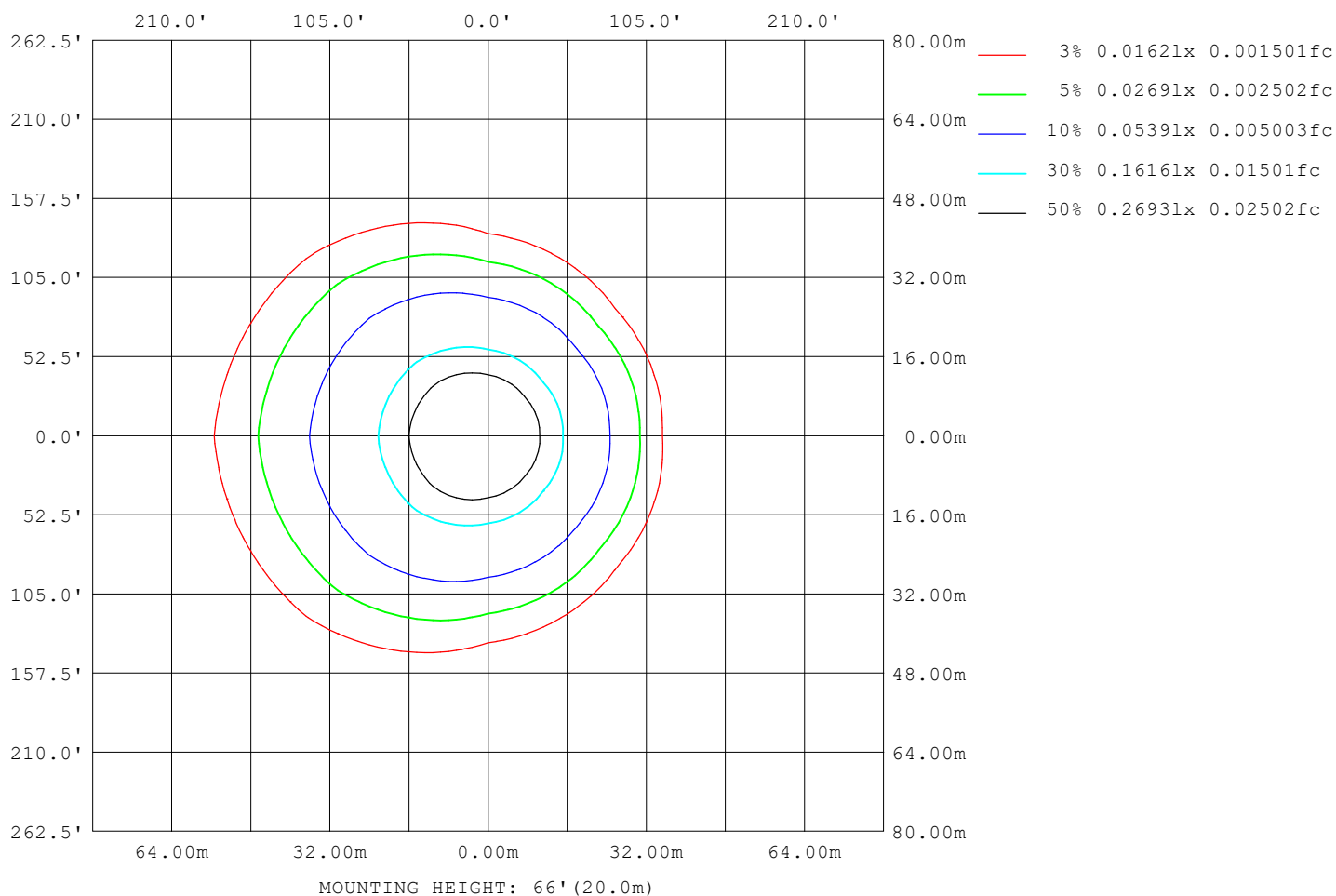
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.01V I:0.0854A P:9.7221W PF:0.9485 Freq:60.01Hz		
Lamp Flux:777.536x1 lm		
NAME: ASD-UBN-18WH5000k		
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:

LED Avg.L Report

Test:U:120.01V I:0.0854A P:9.7221W PF:0.9485 Freq:60.01Hz Lamp Flux:777.536x1 lm		
NAME: ASD-UBN-18WH5000k		
MFR.: EVERFINE		

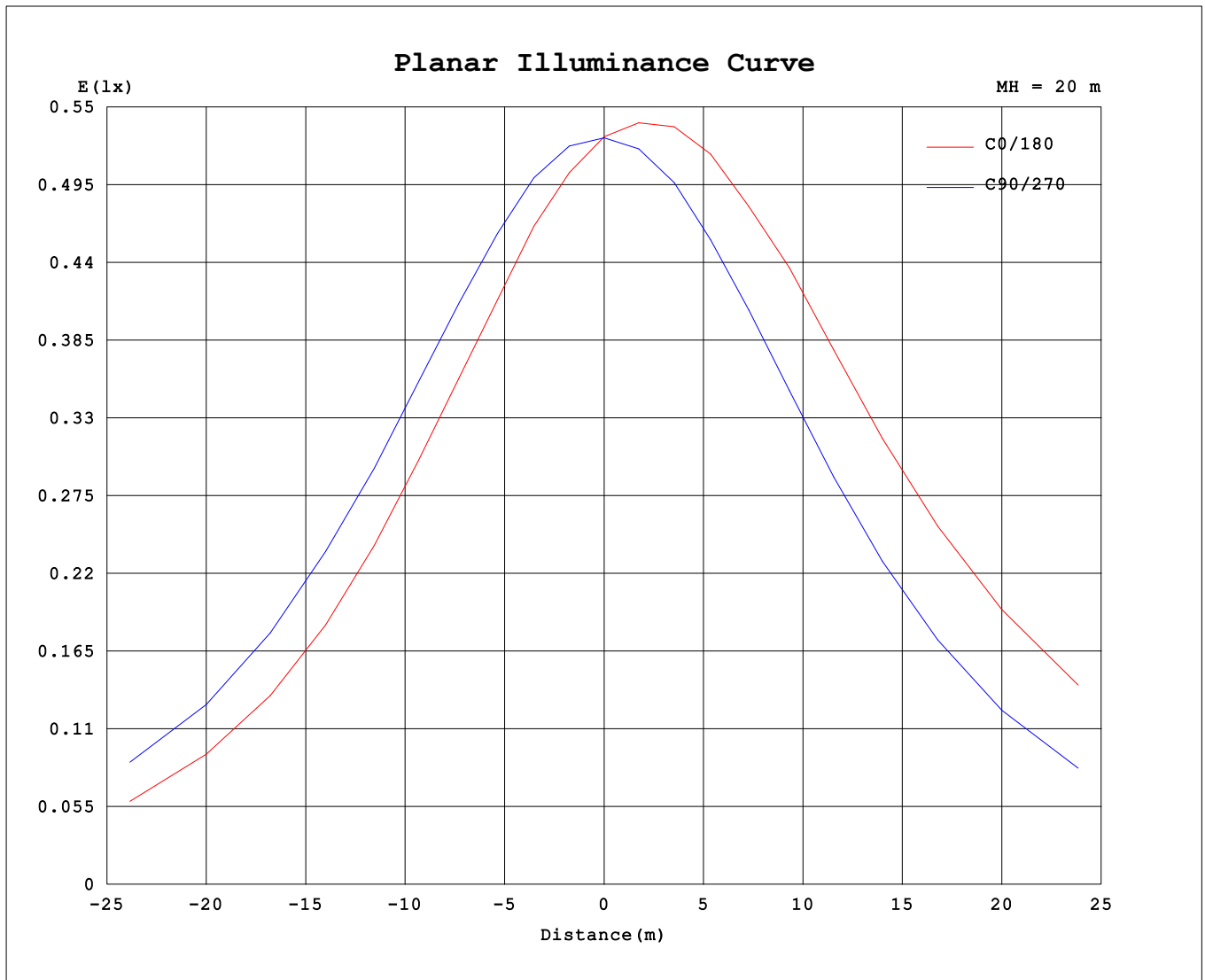
AvgL	cd/m2
L_0~180 (65) av	1903
L_0~180 (75) av	2310
L_0~180 (85) av	4957
L_90~270 (65) av	1313
L_90~270 (75) av	1094
L_90~270 (85) av	560
L_45 (65) av	1702
L_45 (75) av	1899
L_45 (85) av	3471

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:120.01V I:0.0854A P:9.7221W PF:0.9485 Freq:60.01Hz																	
Lamp Flux:777.536x1 lm																	
NAME: ASD-UBN-18WH5000k																	
MFR.: EVERFINE																	

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315									
0	212	212	212	212	212	212	212	212									
5	204	206	212	217	218	216	211	205									
10	195	199	210	219	224	220	208	198									
15	184	191	205	222	229	223	203	188									
20	173	180	199	222	231	223	196	177									
25	161	169	191	221	234	221	188	165									
30	148	158	182	218	233	217	178	153									
35	134	144	172	215	229	212	167	139									
40	119	129	159	206	225	205	154	125									
45	104	114	144	199	220	196	140	110									
50	88.7	99.1	130	189	212	187	124	93.4									
55	72.6	82.9	115	178	203	174	107	77.6									
60	55.0	66.6	97.2	165	192	161	90.5	61.5									
65	39.9	49.8	78.9	151	179	146	72.3	45.0									
70	26.3	33.7	60.4	135	165	131	53.2	28.9									
75	13.3	19.8	42.1	118	150	114	35.1	15.7									
80	1.51	7.34	23.9	100	134	97.2	17.8	4.27									
85	0.00	0.27	8.92	83.5	118	81.1	4.37	0.00									
90	0.00	0.00	0.08	66.8	100	65.2	0.00	0.00									
95	0.00	0.00	0.00	1.32	41.5	1.00	0.00	0.00									
100	0.00	0.00	0.00	30.1	18.6	35.4	0.00	0.00									
105	0.00	0.00	0.00	34.1	58.6	36.2	0.00	0.00									
110	0.00	0.00	0.00	32.0	56.9	32.8	0.00	0.00									
115	0.00	0.00	0.00	29.3	51.4	29.3	0.00	0.00									
120	0.00	0.00	0.00	26.2	45.6	26.2	0.00	0.00									
125	0.00	0.00	0.00	23.2	40.3	24.3	0.00	0.00									
130	0.00	0.00	0.00	20.4	35.0	23.1	0.41	0.00									
135	0.00	0.00	0.00	17.7	30.0	22.2	1.66	0.00									
140	0.00	0.00	0.00	14.8	25.0	20.4	2.07	0.00									
145	0.00	0.00	0.00	12.0	20.5	18.0	2.07	0.00									
150	0.00	0.00	0.00	9.35	16.3	15.0	1.99	0.00									
155	0.00	0.00	0.00	0.02	12.0	11.7	1.91	0.00									
160	0.00	0.00	0.00	2.73	7.92	7.26	1.40	0.00									
165	0.00	0.00	0.00	1.65	1.40	1.50	0.33	0.00									
170	0.00	0.00	0.00	0.00	0.66	0.58	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: