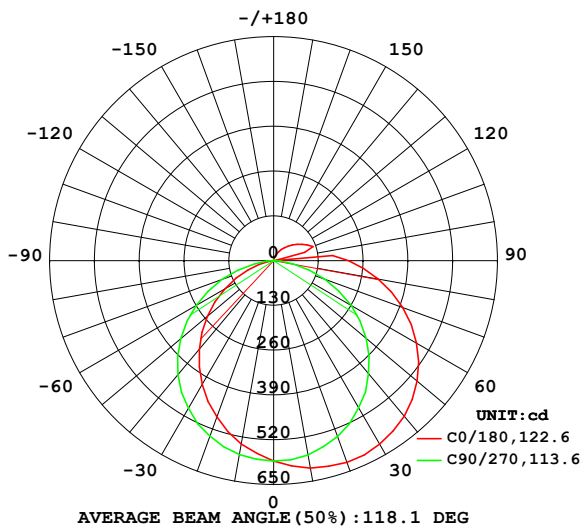


LUMINAIRE PHOTOMETRIC TEST REPORT

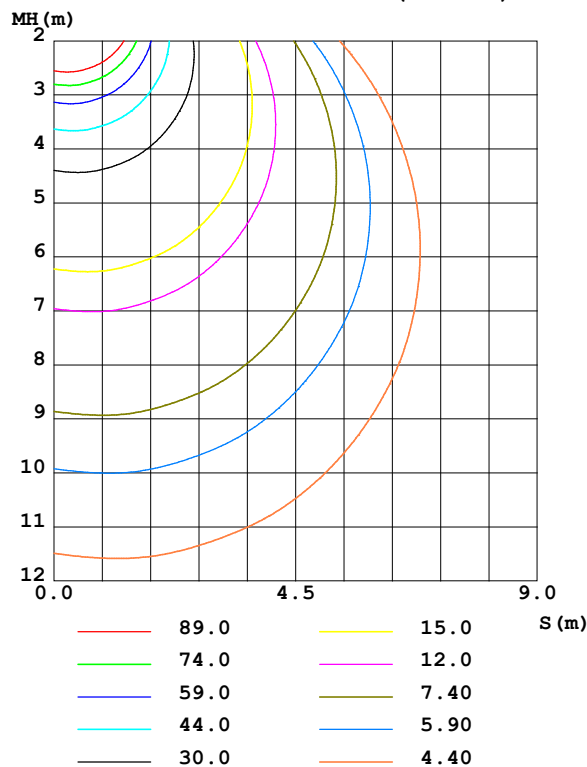
Test:U:119.98V I:0.1994A P:23.444W PF:0.9799 Freq:60.01Hz		
Lamp Flux:2029.92x1 lm		
NAME: ASD-UBN-48WH5000K		
MFR.: EVERFINE		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 86.59 lm/W
MODEL		I _{max} (cd)	623.5	S/MH(C0/180)		1.08
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)		1.27
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2029.9	η UP,DN(C0-180)		4.9,51.8
NOMINAL FLUX(lm)	2029.92	CIE CLASS	DIRECT	η UP,DN(C180-360)		1.7,41.6
LAMPS INSIDE	1	η up(%)	6.6	CIBSE SHR NOM		1.50
TEST VOLTAGE(V)	120	η down(%)	93.4	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: 2024-02-05

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:

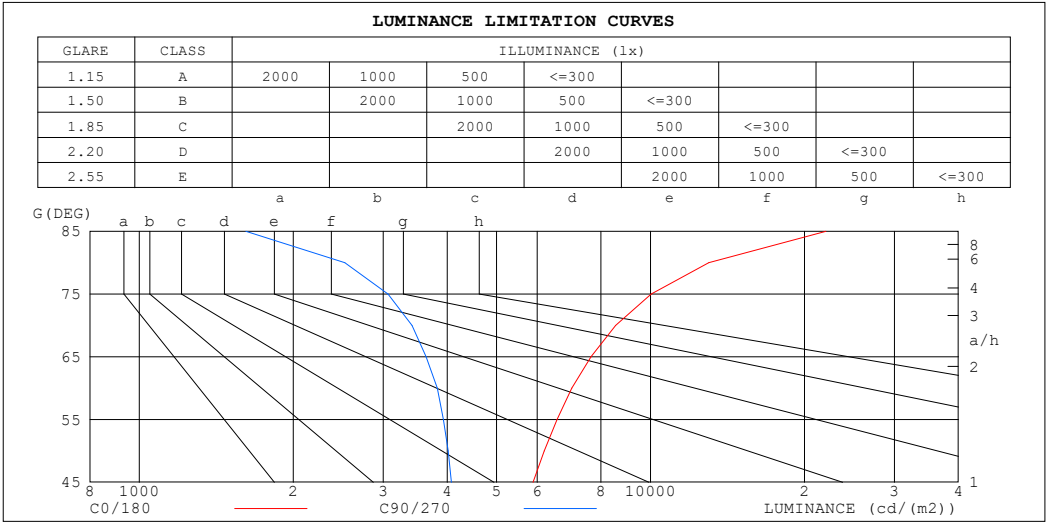
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	611.4	601.2	572.5	548.8	541.0	547.9	571.4	599.6	0- 10	55.18	55.18	2.72,2.72
20	623.5	603.8	543.2	499.9	483.0	496.8	542.1	597.6	10- 20	159.2	214.4	10.6,10.6
30	615.0	584.4	493.4	436.8	415.4	435.6	495.1	579.3	20- 30	244.4	458.8	22.6,22.6
40	589.8	541.9	428.9	360.8	336.5	362.6	432.0	541.2	30- 40	300.4	759.2	37.4,37.4
50	543.4	484.1	351.3	275.9	251.7	278.8	352.4	484.4	40- 50	320.2	1079	53.2,53.2
60	478.3	412.0	259.9	185.5	163.8	185.8	260.2	412.3	50- 60	301.9	1381	68.1,68.1
70	398.8	326.2	158.7	96.23	79.89	97.34	159.6	324.8	60- 70	247.8	1629	80.3,80.3
80	308.0	231.5	59.52	24.07	17.20	22.00	59.38	230.3	70- 80	170.3	1800	88.6,88.6
90	217.9	143.2	0.4634	0.2532	0.0820	0.1623	0.0795	144.2	80- 90	96.27	1896	93.4,93.4
100	3.690	31.50	0	0.1605	0.4855	0.0805	0	38.40	90-100	40.06	1936	95.4,95.4
110	121.6	68.11	0	0.1605	0.4053	0	0	71.14	100-110	27.00	1963	96.7,96.7
120	95.12	53.83	0	0.1605	0.2427	0	0.0812	53.07	110-120	28.83	1992	98.1,98.1
130	71.29	38.90	0	0.1605	0	0	0.2417	30.36	120-130	19.27	2011	99.1,99.1
140	49.00	27.85	0	0.1605	0	0	0.4804	12.17	130-140	11.16	2022	99.6,99.6
150	30.82	16.40	0	0.1605	0	0	0.4804	0	140-150	5.409	2027	99.9,99.9
160	13.95	5.930	0	0.1605	0	0	0.4812	0	150-160	1.991	2029	100,100
170	0.8925	0.8928	0	0.1605	0	0.7304	0.7206	0	160-170	0.3935	2030	100,100
180	0.9729	0.9739	0	0.1605	0	0.7304	0.7206	0	170-180	0.0398	2030	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:2024-02-05

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:119.98V I:0.1994A P:23.444W PF:0.9799 Freq:60.01Hz		
Lamp Flux:2029.92x1 lm		
NAME: ASD-UBN-48WH5000K		
MFR.: EVERFINE		



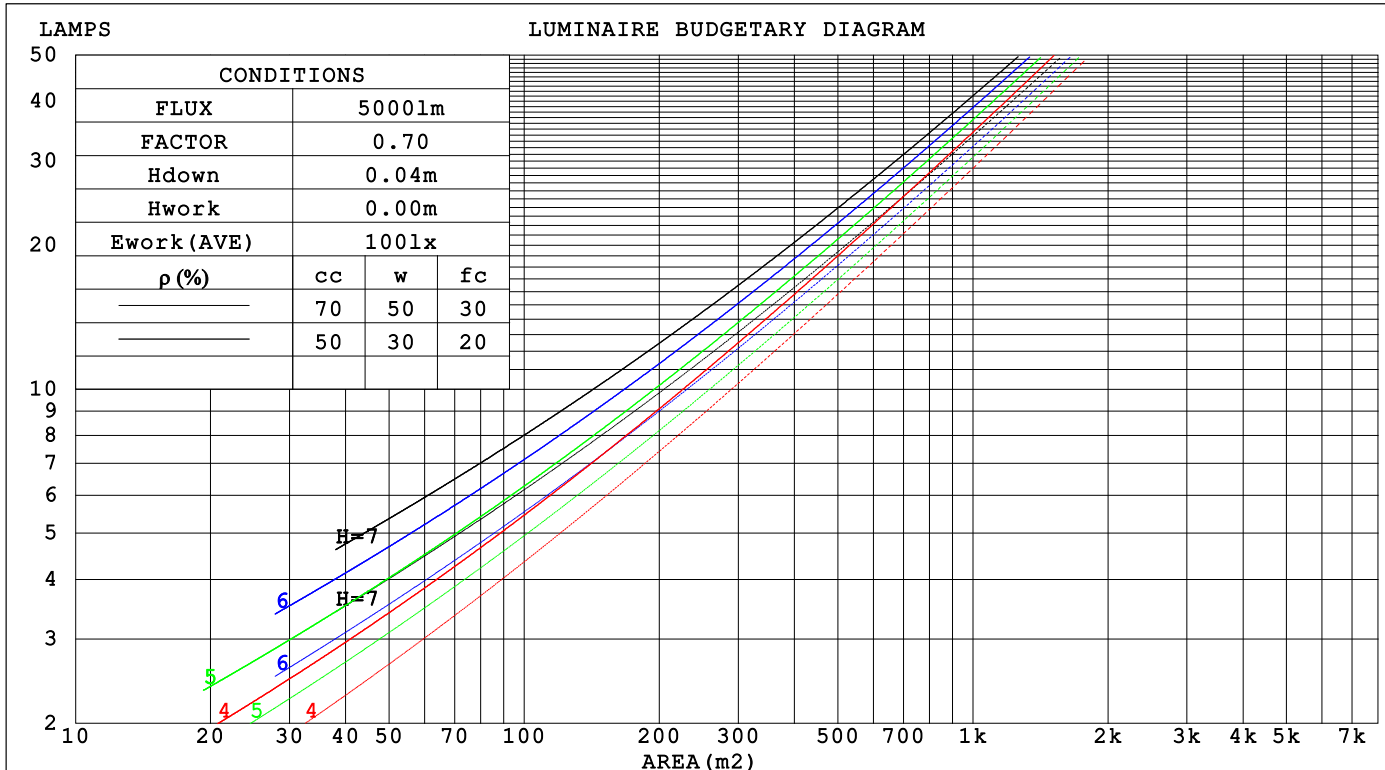
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	22019	1615
80	13000	2522
75	10030	3066
70	8546	3415
65	7645	3638
60	7011	3824
55	6562	3936
50	6196	4021
45	5893	4080

C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 45.0DEG	γ Interval: 5.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Temperature:25.3℃	Humidity:65.0%
Operators:DAMIN	Test Distance:26.000m [K=1.2950]
Test Date:2024-02-05	Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.98V I:0.1994A P:23.444W PF:0.9799 Freq:60.01Hz		
Lamp Flux:2029.92x1 lm		
NAME: ASD-UBN-48WH5000K		
MFR.: EVERFINE		

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	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:2024-02-05

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:119.98V I:0.1994A P:23.444W PF:0.9799 Freq:60.01Hz											
Lamp Flux:2029.92x1 lm											
NAME: ASD-UBN-48WH5000K											
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	.349	.199	.063	.340	.194	.062	.323	.185	.059	.307	.177	.057	.293	.170	.055			
2.0	.314	.172	.053	.306	.169	.052	.291	.162	.050	.277	.155	.049	.264	.149	.047			
3.0	.285	.152	.045	.278	.149	.045	.264	.143	.043	.251	.138	.042	.239	.132	.041			
4.0	.260	.135	.040	.253	.132	.039	.241	.128	.038	.229	.123	.037	.219	.119	.036			
5.0	.238	.121	.035	.232	.119	.035	.221	.115	.034	.211	.111	.033	.201	.107	.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	.176	.088	.025	.169	.085	.025	.161	.083	.024			
9.0	.177	.085	.024	.173	.084	.024	.165	.082	.023	.158	.079	.023	.151	.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	.241	.241	.241	.206	.206	.206	.140	.140	.140	.081	.081	.081	.026	.026	.026	
1.0	.234	.207	.182	.200	.177	.157	.137	.122	.108	.079	.071	.063	.025	.023	.020	
2.0	.226	.183	.146	.194	.157	.127	.133	.109	.088	.077	.063	.052	.025	.020	.017	
3.0	.219	.166	.124	.188	.143	.107	.129	.099	.075	.074	.058	.044	.024	.019	.015	
4.0	.211	.153	.108	.181	.132	.094	.125	.092	.066	.072	.054	.039	.023	.018	.013	
5.0	.203	.143	.098	.175	.123	.085	.120	.086	.060	.070	.051	.036	.022	.017	.012	
6.0	.196	.134	.090	.169	.116	.079	.116	.082	.056	.067	.048	.033	.022	.016	.011	
7.0	.189	.128	.085	.163	.111	.074	.112	.078	.052	.065	.046	.031	.021	.015	.010	
8.0	.182	.122	.080	.157	.106	.070	.109	.074	.050	.063	.044	.030	.020	.014	.010	
9.0	.176	.117	.077	.152	.102	.067	.105	.071	.048	.061	.042	.029	.020	.014	.009	
10.0	.170	.113	.075	.147	.098	.065	.102	.069	.046	.059	.041	.028	.019	.013	.009	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-05

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:119.98V I:0.1994A P:23.444W PF:0.9799 Freq:60.01Hz		
Lamp Flux:2029.92x1 lm		
NAME: ASD-UBN-48WH5000K		
MFR.: EVERFINE		

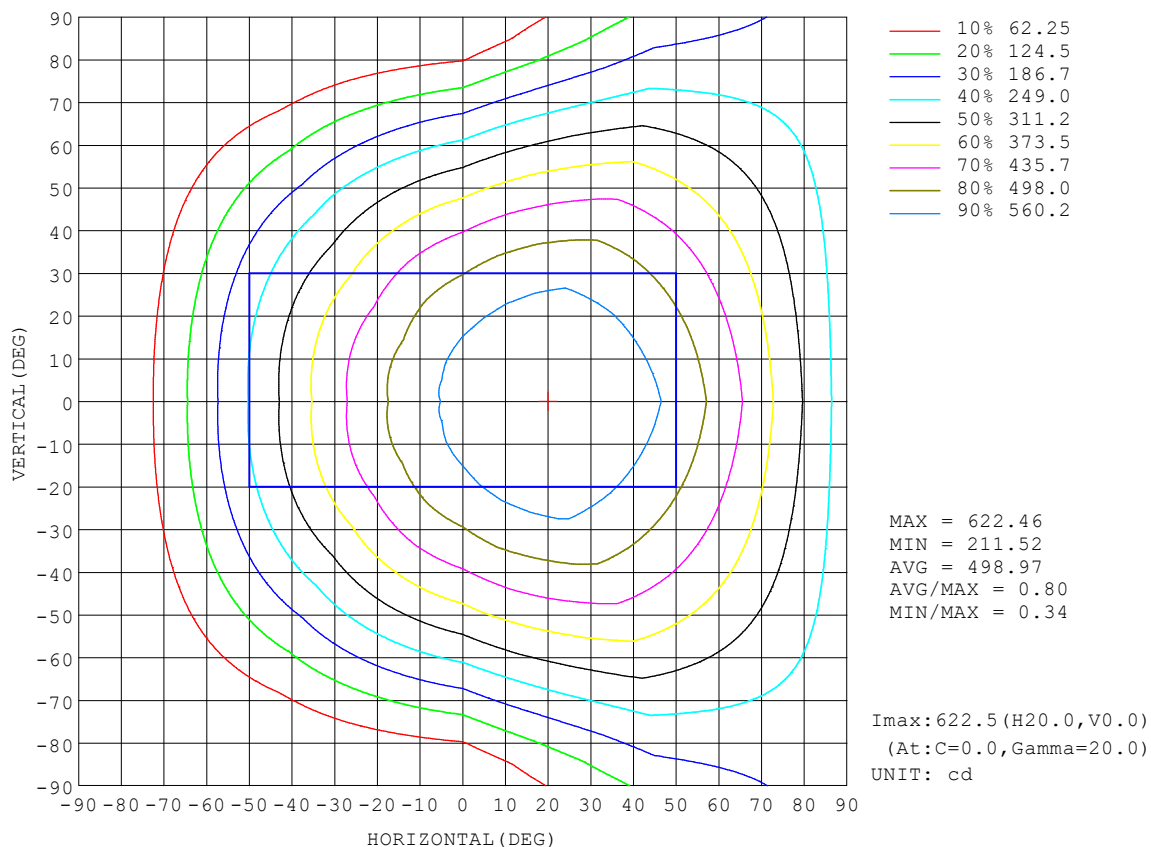
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	34	52	41	34	51	40	34	27
0.80	63	51	43	62	50	43	59	49	42	35
1.00	71	59	51	70	58	51	67	59	50	42
1.25	78	67	59	76	66	58	73	64	57	49
1.50	83	72	64	81	71	64	77	69	62	54
2.00	90	81	73	88	79	72	84	76	70	61
2.50	94	86	79	92	84	77	87	80	75	65
3.00	98	90	84	95	88	82	90	84	79	69
4.00	102	96	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: 2024-02-05

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:119.98V I:0.1994A P:23.444W PF:0.9799 Freq:60.01Hz Lamp Flux:2029.92x1 lm		
NAME: ASD-UBN-48WH5000K		
MFR.: EVERFINE		

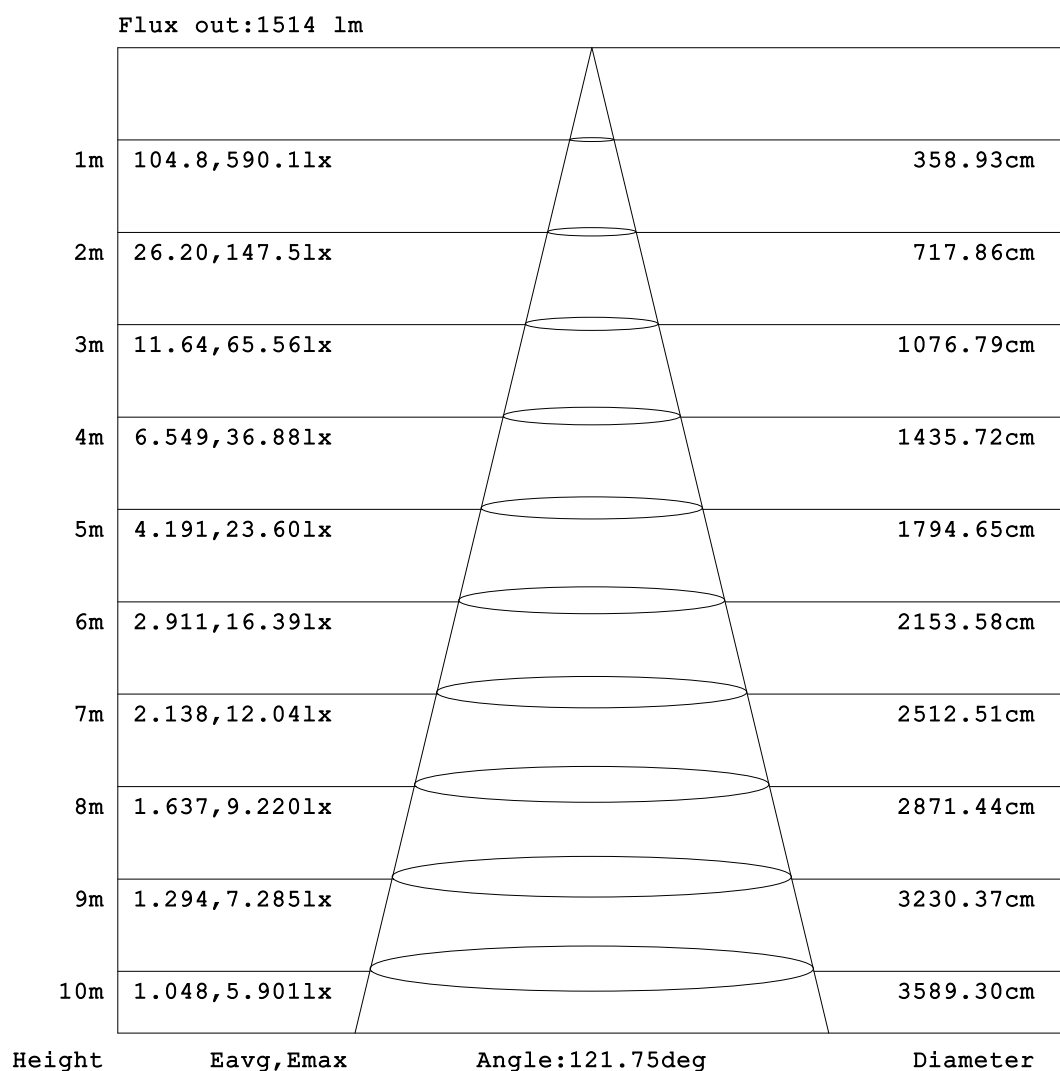


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2024-02-05

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:119.98V I:0.1994A P:23.444W PF:0.9799 Freq:60.01Hz Lamp Flux:2029.92x1 lm		
NAME: ASD-UBN-48WH5000K		
MFR.: EVERFINE		



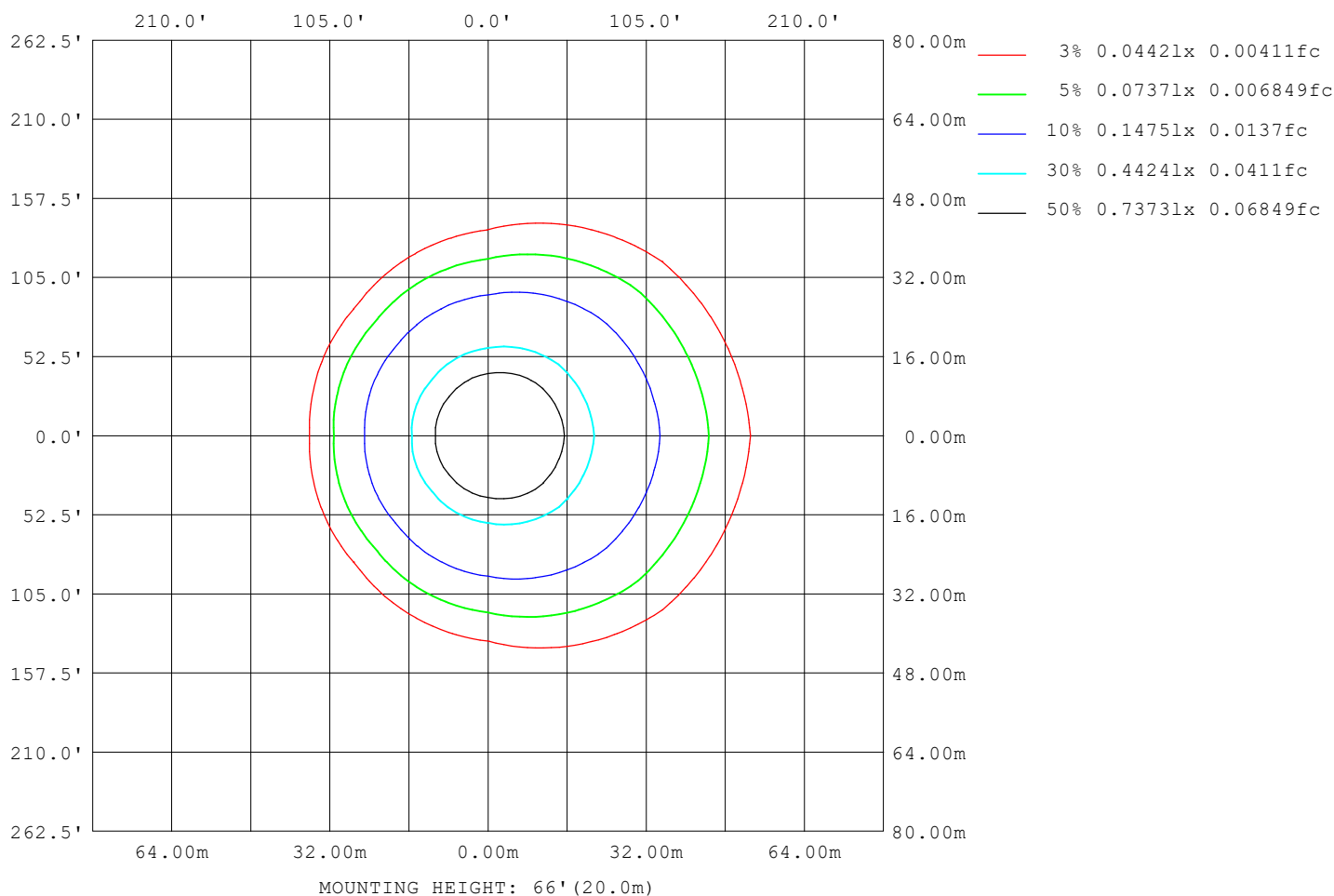
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-05

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:119.98V I:0.1994A P:23.444W PF:0.9799 Freq:60.01Hz		
Lamp Flux:2029.92x1 lm		
NAME: ASD-UBN-48WH5000K		
MFR.: EVERFINE		



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2024-02-05

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:119.98V I:0.1994A P:23.444W PF:0.9799 Freq:60.01Hz Lamp Flux:2029.92x1 lm		
NAME: ASD-UBN-48WH5000K		
MFR.: EVERFINE		

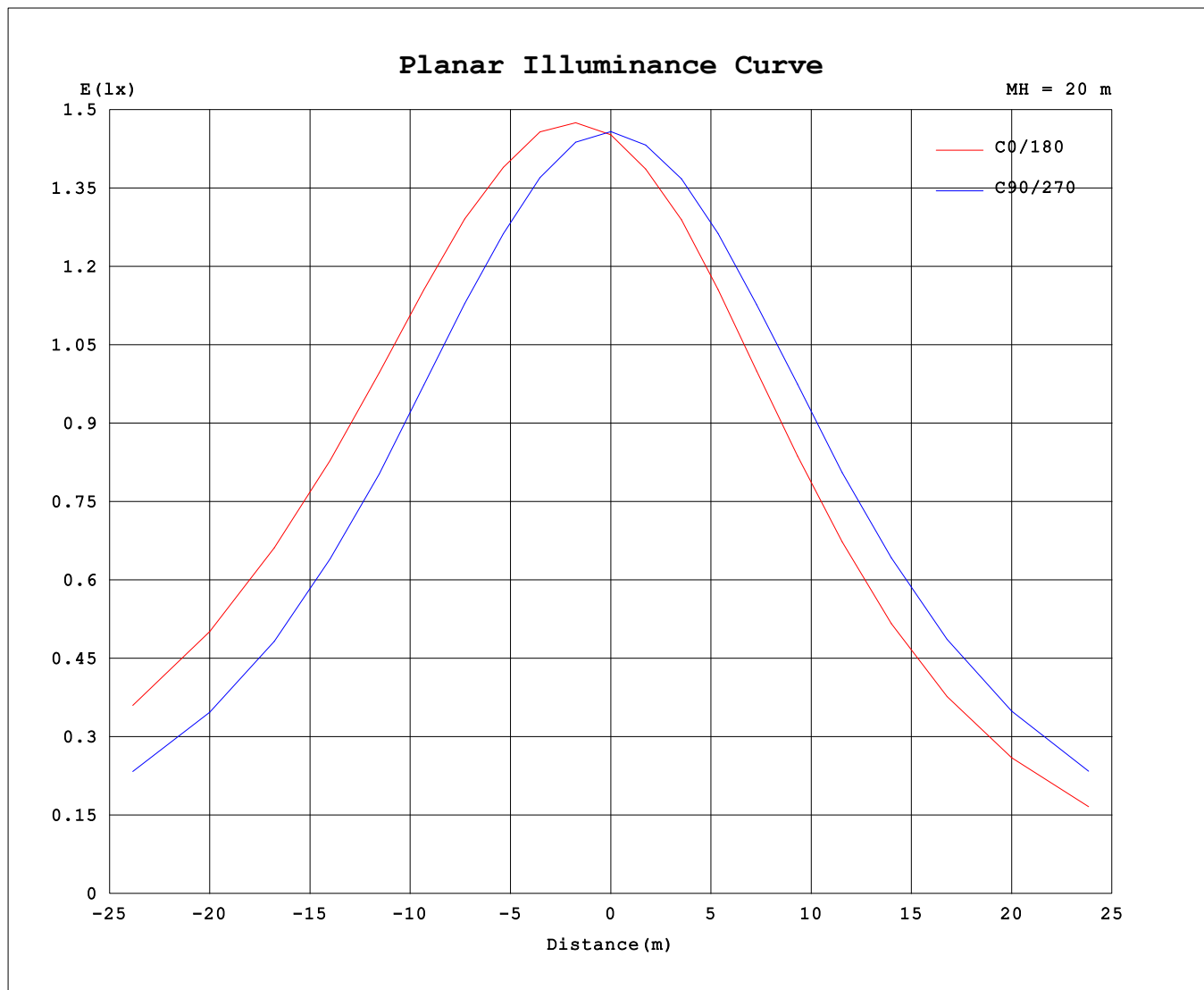
AvgL	cd/m2
L_0~180 (65) av	4873
L_0~180 (75) av	5651
L_0~180 (85) av	11140
L_90~270 (65) av	3647
L_90~270 (75) av	3062
L_90~270 (85) av	1655
L_45 (65) av	4438
L_45 (75) av	4745
L_45 (85) av	8014

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-05

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: 2024-02-05

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:119.98V I:0.1994A P:23.444W PF:0.9799 Freq:60.01Hz																	
Lamp Flux:2029.92x1 lm																	
NAME: ASD-UBN-48WH5000K																	
MFR.: EVERFINE																	

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315									
0	582	582	582	582	582	582	582	582									
5	598	594	580	569	562	567	578	593									
10	611	601	573	549	541	548	571	600									
15	618	605	559	527	514	526	559	601									
20	624	604	543	500	483	497	542	598									
25	622	597	522	469	451	468	523	590									
30	615	584	493	437	415	436	495	579									
35	604	566	465	401	377	401	467	562									
40	590	542	429	361	337	363	432	541									
45	569	516	392	320	295	321	395	514									
50	543	484	351	276	252	279	352	484									
55	514	450	307	231	208	237	308	451									
60	478	412	260	186	164	186	260	412									
65	441	370	209	141	120	140	211	371									
70	399	326	159	96.2	79.9	97.3	160	325									
75	354	279	108	56.6	44.3	55.0	108	278									
80	308	231	59.5	24.1	17.2	22.0	59.4	230									
85	262	186	19.1	4.64	2.65	3.47	20.2	186									
90	218	143	0.46	0.25	0.08	0.16	0.08	144									
95	172	62.0	0.24	0.16	0.49	0.16	0.00	62.3									
100	3.69	31.5	0.00	0.16	0.49	0.08	0.00	38.4									
105	94.0	68.9	0.00	0.16	0.41	0.00	0.00	78.5									
110	122	68.1	0.00	0.16	0.41	0.00	0.00	71.1									
115	108	61.5	0.00	0.16	0.32	0.00	0.00	62.6									
120	95.1	53.8	0.00	0.16	0.24	0.00	0.08	53.1									
125	82.9	46.2	0.00	0.16	0.00	0.00	0.16	41.8									
130	71.3	38.9	0.00	0.16	0.00	0.00	0.24	30.4									
135	59.8	33.4	0.00	0.16	0.00	0.00	0.48	20.4									
140	49.0	27.9	0.00	0.16	0.00	0.00	0.48	12.2									
145	39.9	22.0	0.00	0.16	0.00	0.00	0.48	5.27									
150	30.8	16.4	0.00	0.16	0.00	0.00	0.48	0.00									
155	21.7	11.0	0.00	0.16	0.00	0.00	0.48	0.00									
160	14.0	5.93	0.00	0.16	0.00	0.00	0.48	0.00									
165	6.69	0.90	0.00	0.16	0.00	0.41	0.72	0.00									
170	0.89	0.89	0.00	0.16	0.00	0.73	0.72	0.00									
175	0.81	0.81	0.00	0.16	0.00	0.73	0.72	0.00									
180	0.97	0.97	0.00	0.16	0.00	0.73	0.72	0.00									

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-02-05

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: