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Nata

Client:
LumCAT: 2-2748-L
Luminaire: 92.70.411.00
Report No: 2024909-B009
Ballast type: AC

Test No: 2024909-C009	Voltage(V): 34.560
LampCAT: NICHIA NFCWJ108B-V3	Current(A): 0.563
Lamp flux(lm): 2538.0	Power (W): 19.450
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2371.70, Efficiency(%): 93.45% , Luminous Efficacy(lm/W): 121.94
Central intensity(cd): 11053.920, Maximum intensity(cd): 11053.920
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=19.2
[C90/270]Total=19.2
Field angle(10%Imax): [C0/180]Total=50.6
[C90/270]Total=50.6
Maximum s/h(1/2): C0_180=0.33 C90_270=0.33
Maximum s/h(1/4): C0_180=0.36 C90_270=0.36
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.45%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.068%

Nata 2-2748-L

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11053.920	0.000	0	0.00%	0.00%
1.0	10954.255	10.530	10.53	0.41%	0.44%
2.0	10725.017	31.116	41.647	1.23%	1.76%
3.0	10357.388	50.422	92.069	1.99%	3.88%
4.0	9829.897	67.573	159.642	2.66%	6.73%
5.0	9116.729	81.507	241.15	3.21%	10.17%
6.0	8381.840	91.960	333.109	3.62%	14.05%
7.0	7560.787	98.956	432.065	3.90%	18.22%
8.0	6735.562	102.316	534.381	4.03%	22.53%
9.0	5937.979	102.712	637.093	4.05%	26.86%
10.0	5204.896	100.839	737.932	3.97%	31.11%
11.0	4552.524	97.497	835.429	3.84%	35.22%
12.0	4027.404	93.791	929.22	3.70%	39.18%
13.0	3540.649	89.814	1019.033	3.54%	42.97%
14.0	3123.474	85.300	1104.334	3.36%	46.56%
15.0	2860.629	82.152	1186.486	3.24%	50.03%
16.0	2635.188	80.529	1267.015	3.17%	53.42%
17.0	2325.956	77.258	1344.273	3.04%	56.68%
18.0	2127.434	73.427	1417.7	2.89%	59.78%
19.0	1926.054	70.522	1488.223	2.78%	62.75%
20.0	1741.566	67.128	1555.35	2.64%	65.58%
21.0	1611.882	64.393	1619.743	2.54%	68.29%
22.0	1466.270	61.857	1681.6	2.44%	70.90%
23.0	1340.317	58.890	1740.49	2.32%	73.39%
24.0	1251.178	56.659	1797.149	2.23%	75.77%
25.0	1130.219	54.148	1851.297	2.13%	78.06%
26.0	1055.639	51.597	1902.894	2.03%	80.23%
27.0	964.456	49.422	1952.316	1.95%	82.32%
28.0	866.499	46.356	1998.672	1.83%	84.27%
29.0	778.838	43.047	2041.719	1.70%	86.09%
30.0	678.542	39.349	2081.068	1.55%	87.75%
31.0	587.419	35.230	2116.298	1.39%	89.23%
32.0	499.186	31.130	2147.428	1.23%	90.54%
33.0	423.601	27.186	2174.613	1.07%	91.69%
34.0	351.242	23.449	2198.063	0.92%	92.68%
35.0	303.470	20.333	2218.395	0.80%	93.54%
36.0	266.433	18.146	2236.541	0.71%	94.30%
37.0	209.310	15.516	2252.057	0.61%	94.96%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	182.398	13.075	2265.132	0.52%	95.51%
39.0	147.359	11.256	2276.388	0.44%	95.98%
40.0	117.326	9.231	2285.619	0.36%	96.37%
41.0	97.287	7.642	2293.261	0.30%	96.69%
42.0	81.104	6.481	2299.742	0.26%	96.97%
43.0	67.306	5.498	2305.24	0.22%	97.20%
44.0	56.288	4.665	2309.905	0.18%	97.39%
45.0	48.121	4.013	2313.917	0.16%	97.56%
46.0	41.551	3.507	2317.424	0.14%	97.71%
47.0	36.656	3.110	2320.535	0.12%	97.84%
48.0	32.996	2.816	2323.35	0.11%	97.96%
49.0	30.329	2.600	2325.951	0.10%	98.07%
50.0	28.252	2.442	2328.393	0.10%	98.17%
51.0	26.426	2.313	2330.706	0.09%	98.27%
52.0	25.039	2.208	2332.915	0.09%	98.36%
53.0	24.120	2.138	2335.053	0.08%	98.45%
54.0	23.463	2.097	2337.151	0.08%	98.54%
55.0	22.963	2.072	2339.223	0.08%	98.63%
56.0	22.760	2.066	2341.289	0.08%	98.72%
57.0	22.608	2.074	2343.363	0.08%	98.81%
58.0	22.398	2.081	2345.445	0.08%	98.89%
59.0	22.103	2.080	2347.525	0.08%	98.98%
60.0	21.603	2.065	2349.59	0.08%	99.07%
61.0	20.723	2.020	2351.61	0.08%	99.15%
62.0	19.553	1.941	2353.55	0.08%	99.23%
63.0	18.009	1.827	2355.377	0.07%	99.31%
64.0	16.104	1.674	2357.051	0.07%	99.38%
65.0	14.100	1.495	2358.546	0.06%	99.45%
66.0	12.392	1.322	2359.868	0.05%	99.50%
67.0	10.782	1.165	2361.033	0.05%	99.55%
68.0	9.573	1.031	2362.064	0.04%	99.59%
69.0	8.587	0.926	2362.991	0.04%	99.63%
70.0	7.871	0.845	2363.836	0.03%	99.67%
71.0	7.254	0.782	2364.618	0.03%	99.70%
72.0	6.689	0.725	2365.343	0.03%	99.73%
73.0	6.183	0.673	2366.016	0.03%	99.76%
74.0	5.795	0.630	2366.645	0.02%	99.79%
75.0	5.427	0.593	2367.238	0.02%	99.81%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.033	0.555	2367.793	0.02%	99.84%
77.0	4.691	0.518	2368.312	0.02%	99.86%
78.0	4.336	0.483	2368.795	0.02%	99.88%
79.0	3.909	0.443	2369.238	0.02%	99.90%
80.0	3.555	0.402	2369.641	0.02%	99.91%
81.0	3.167	0.363	2370.004	0.01%	99.93%
82.0	2.753	0.321	2370.325	0.01%	99.94%
83.0	2.378	0.279	2370.604	0.01%	99.95%
84.0	2.050	0.241	2370.845	0.01%	99.96%
85.0	1.761	0.208	2371.053	0.01%	99.97%
86.0	1.465	0.176	2371.23	0.01%	99.98%
87.0	1.235	0.148	2371.377	0.01%	99.99%
88.0	1.038	0.125	2371.502	0.00%	99.99%
89.0	0.874	0.105	2371.607	0.00%	100.00%
90.0	0.775	0.090	2371.697	0.00%	100.00%

Zonal flux distribution table

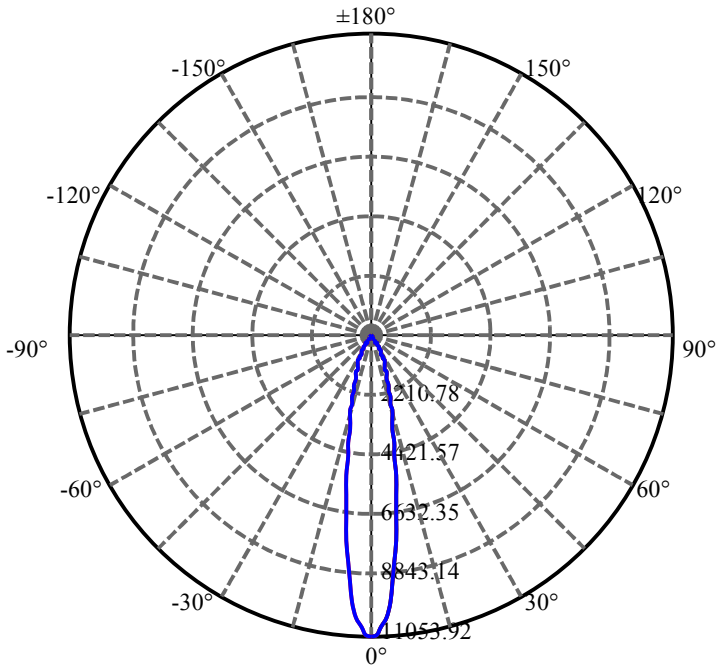
ZONAL LUMEN SUMMARY

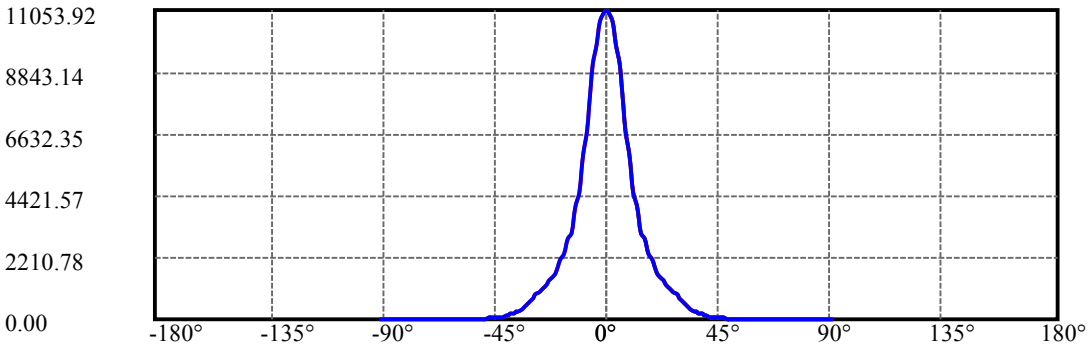
Zone	Lumens	%Lamp	%Fixt
0-30	2081.07	82.00%	87.75%
0-40	2285.62	90.06%	96.37%
0-60	2349.59	92.58%	99.07%
0-90	2371.61	93.44%	100.00%
0-120	2371.61	93.44%	100.00%
0-180	2371.70	93.45%	100.00%
60-90	22.02	0.87%	0.93%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.89	1897.36	74.76%	80.00%

ZONAL LUMEN SUMMARY

0-10	737.93
10-20	817.42
20-30	525.72
30-40	204.55
40-50	42.77
50-60	21.20
60-70	14.25
70-80	5.80
80-90	1.97
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

Light Distribution Curve [Unit:cd]





C0(Max):

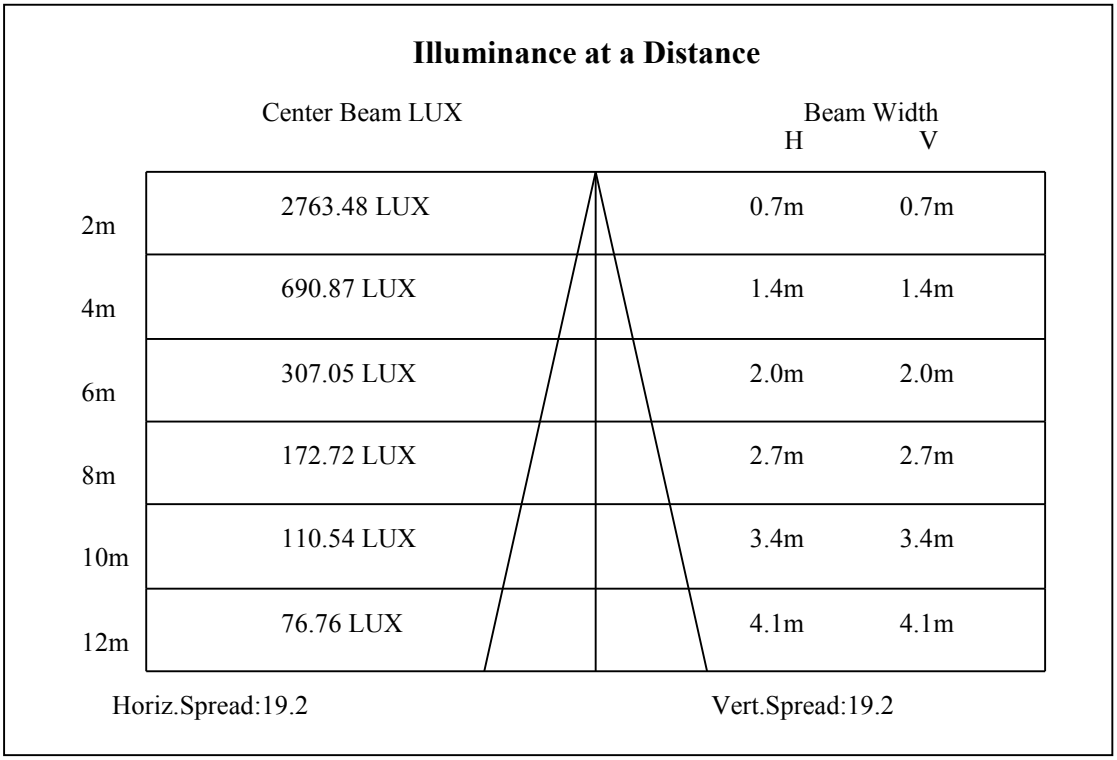
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:25.3 Right:25.3
:C90/270Left:25.3 Right:25.3

Beam Angle(50%Imax):C0/180Left:9.6 Right:9.6
:C90/270Left:9.6 Right:9.6

Lux distance Curve

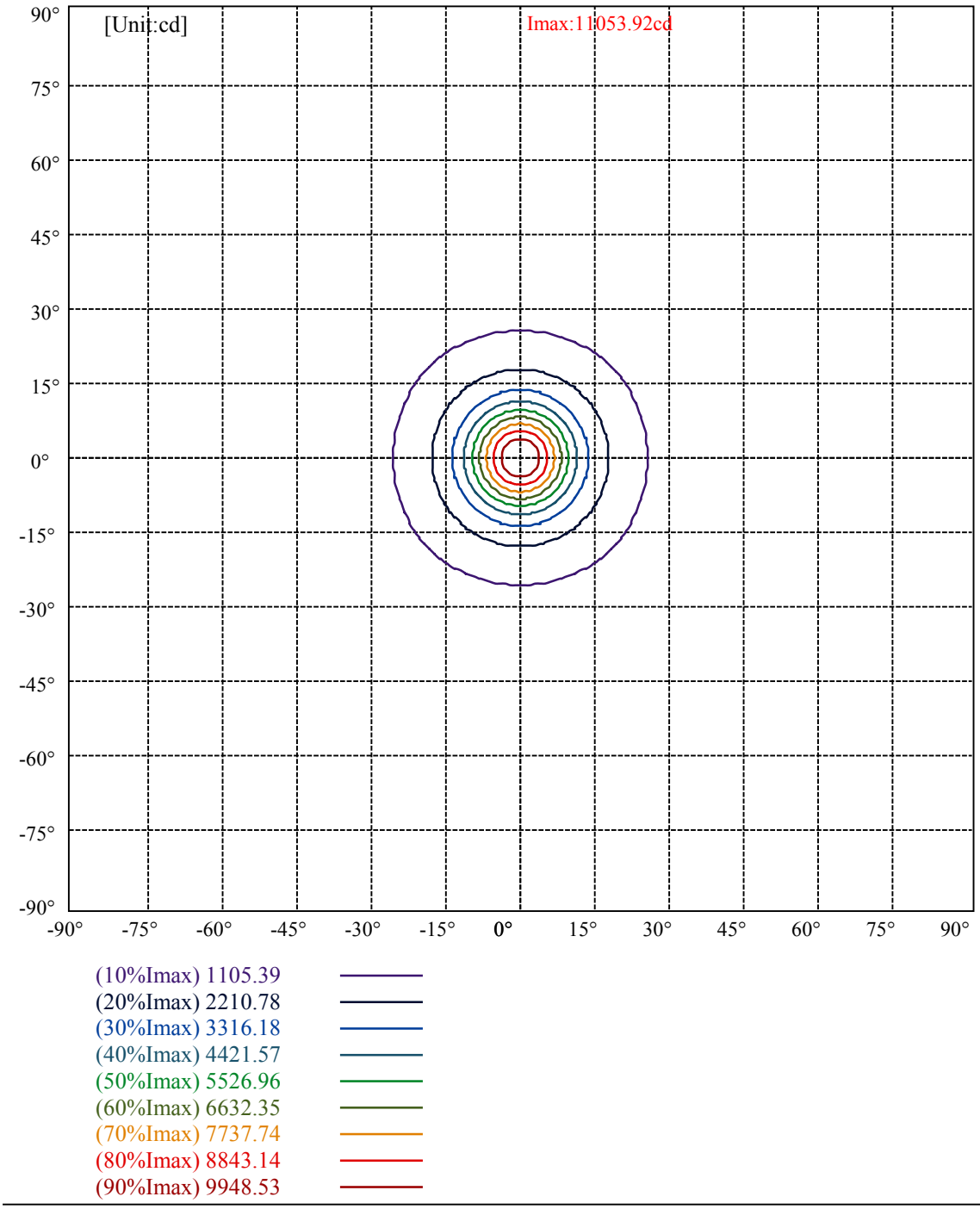


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/9
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO-Intensity(V-H)



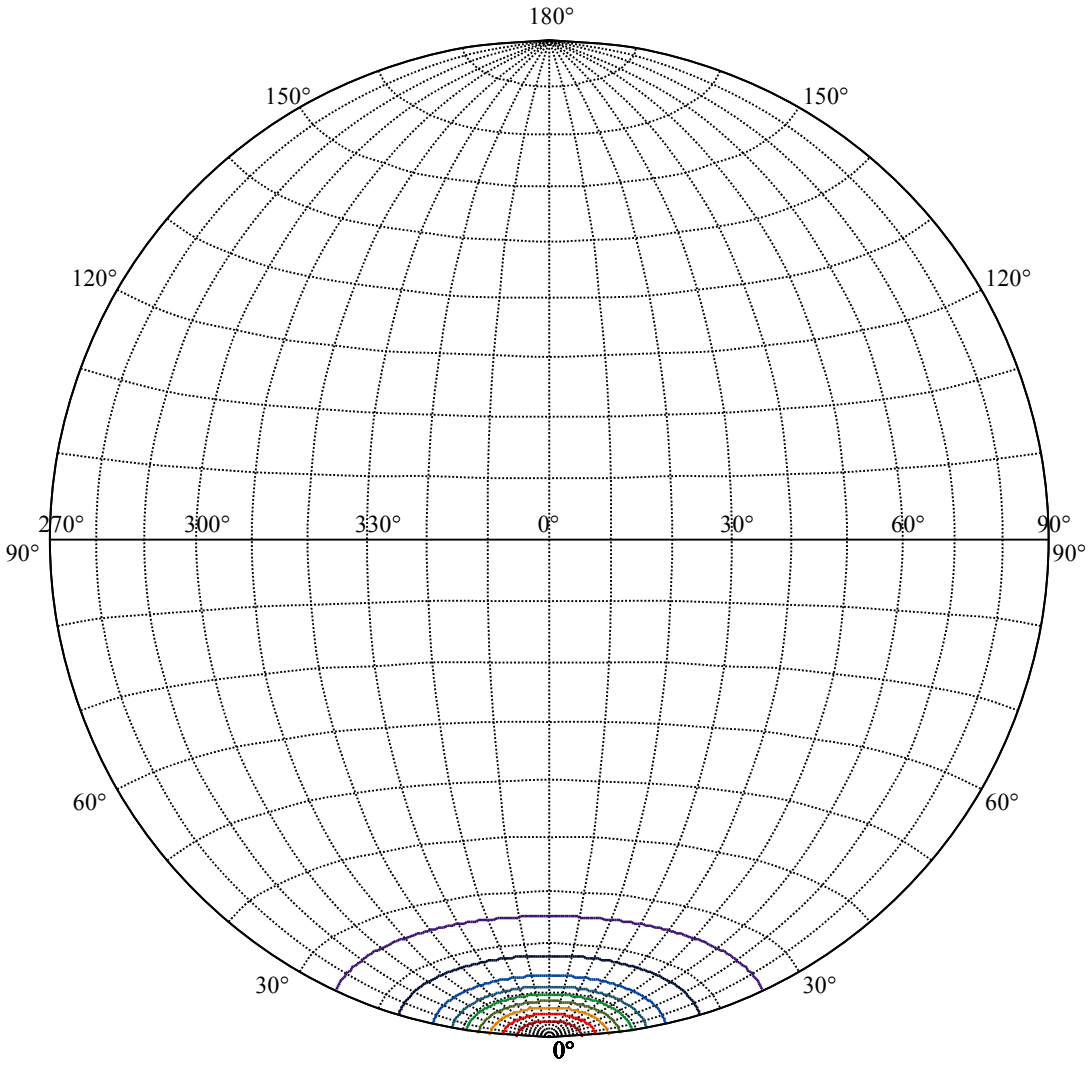
(10%Imax) 1105.39
(20%Imax) 2210.78
(30%Imax) 3316.18
(40%Imax) 4421.57
(50%Imax) 5526.96
(60%Imax) 6632.35
(70%Imax) 7737.74
(80%Imax) 8843.14
(90%Imax) 9948.53

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/9
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:11053.92

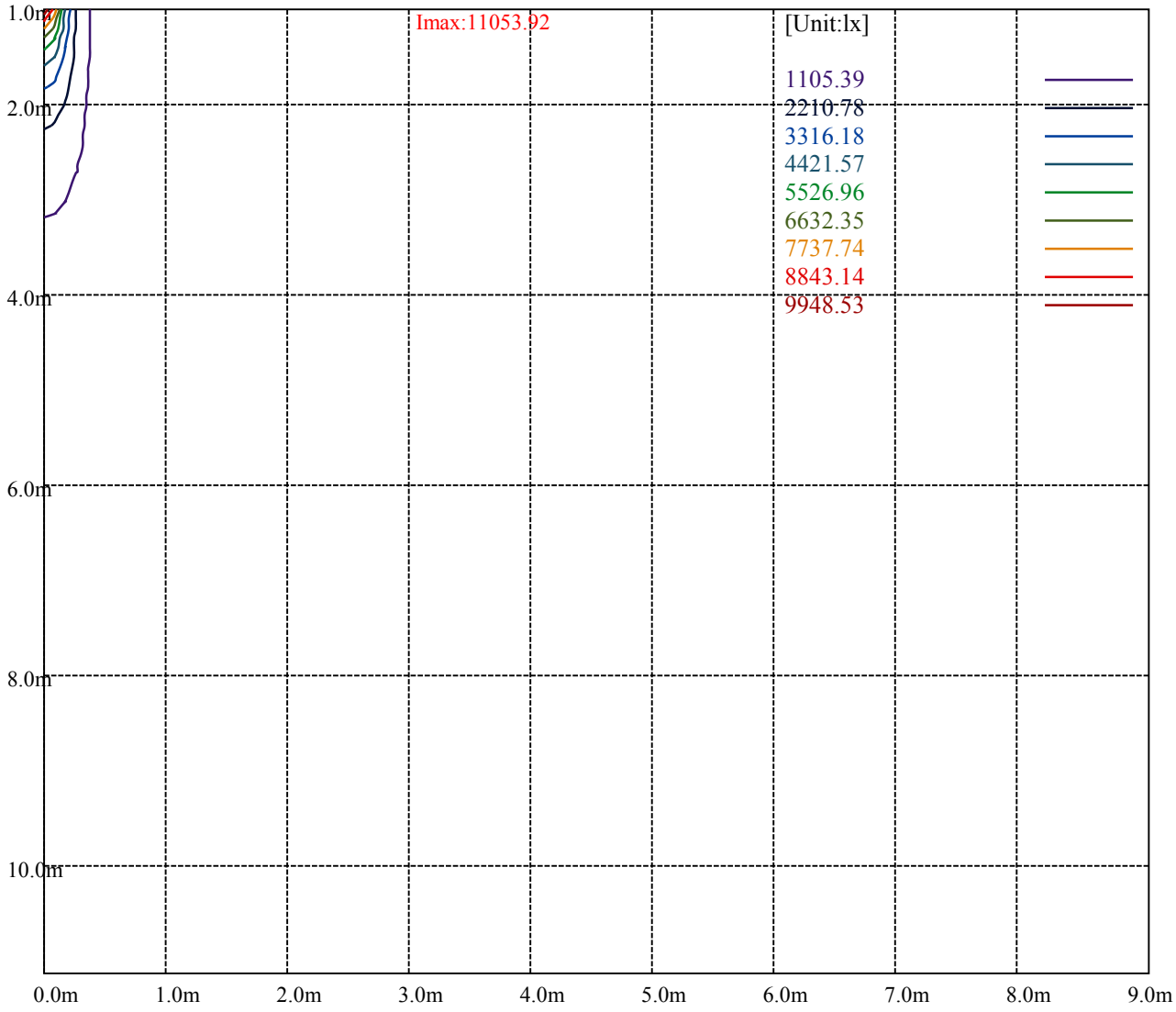
(10%Imax) 1105.39
(20%Imax) 2210.78
(30%Imax) 3316.18
(40%Imax) 4421.57
(50%Imax) 5526.96
(60%Imax) 6632.35
(70%Imax) 7737.74
(80%Imax) 8843.14
(90%Imax) 9948.53

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/9
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/9
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2748-L

Luminance Limitting Curve(no luminous side)

Luminance Table

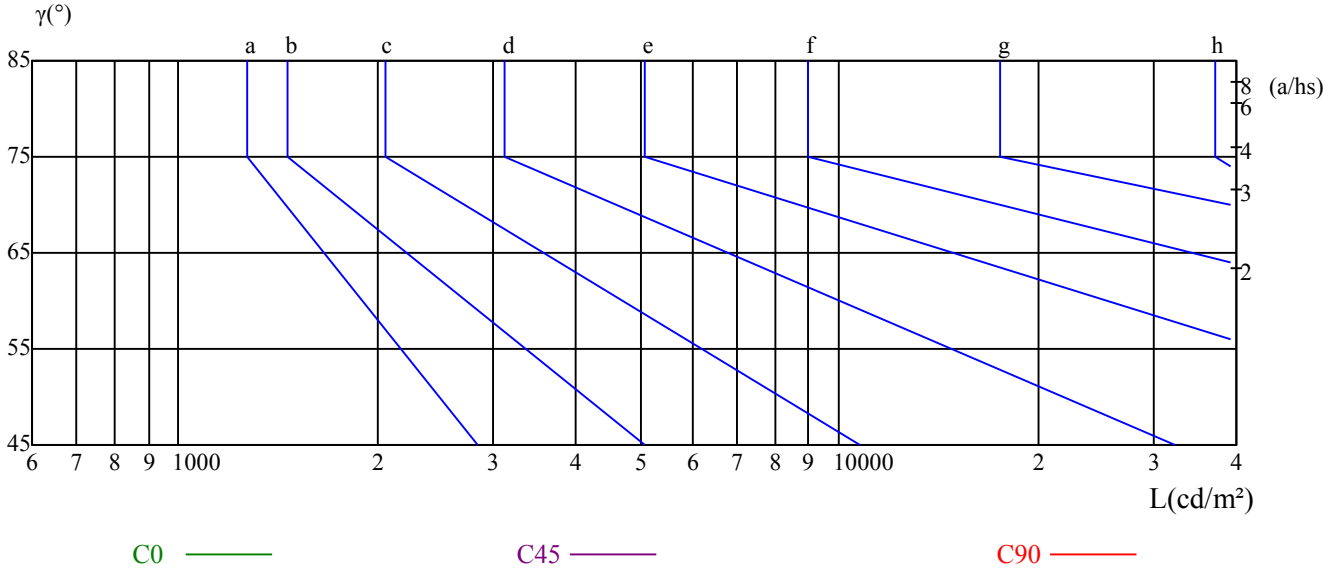
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limitting Curve



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/9
Humidity(%): 60.0%

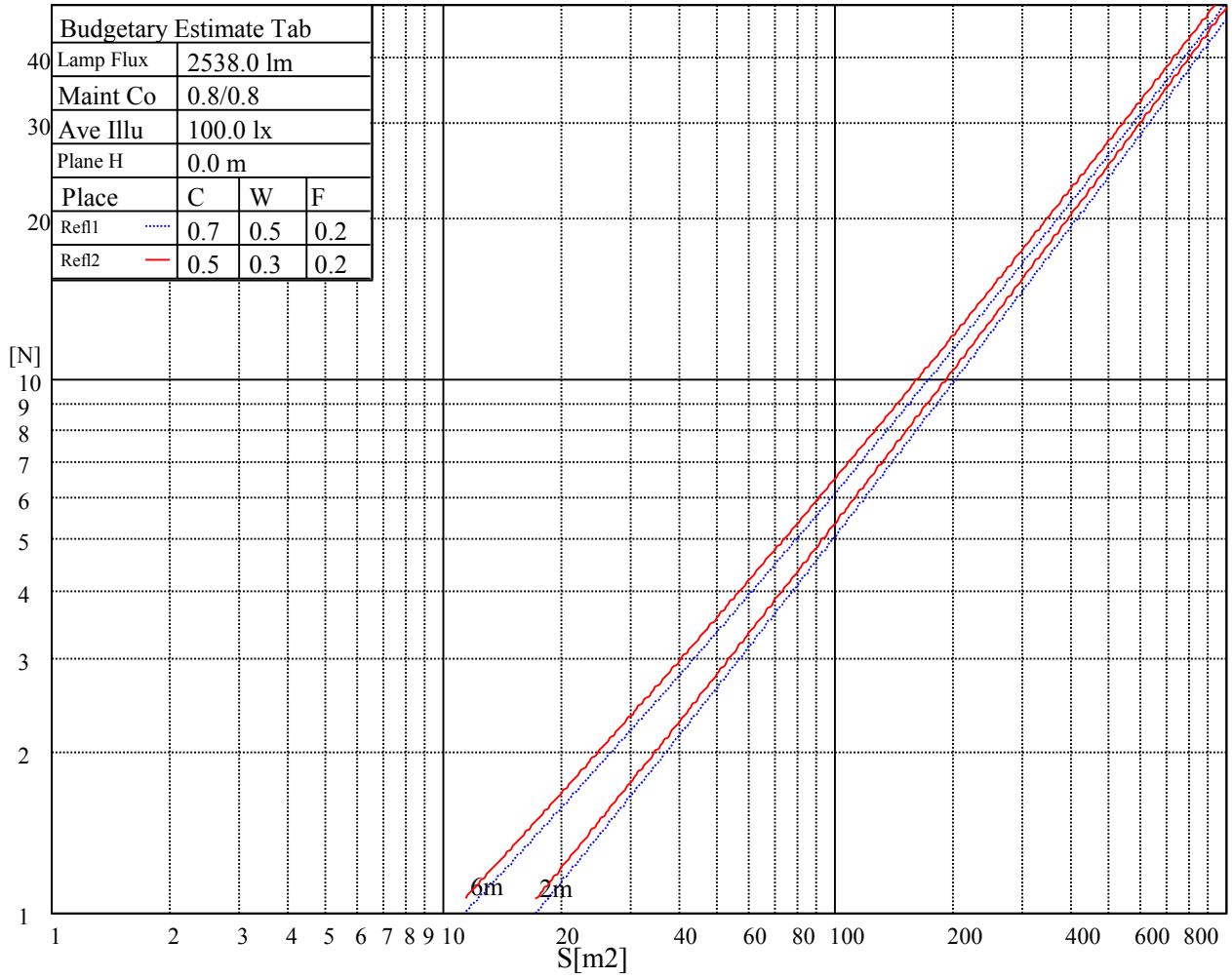
Operator: NT
Distance(m): 7.25

UGR Glare

Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
Variation with the observer position at spacings:											
S = 1.0H		非数字/非数字					非数字/非数字				
S = 1.5H		非数字/非数字					非数字/非数字				
S = 2.0H		非数字/非数字					非数字/非数字				
Standard tables:		BK0					BK0				
Uncorrected UGR		负无穷大					负无穷大				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

Budgetary Estimate Table



Equipment: GMS 1800
Temperature(°C): 25.0

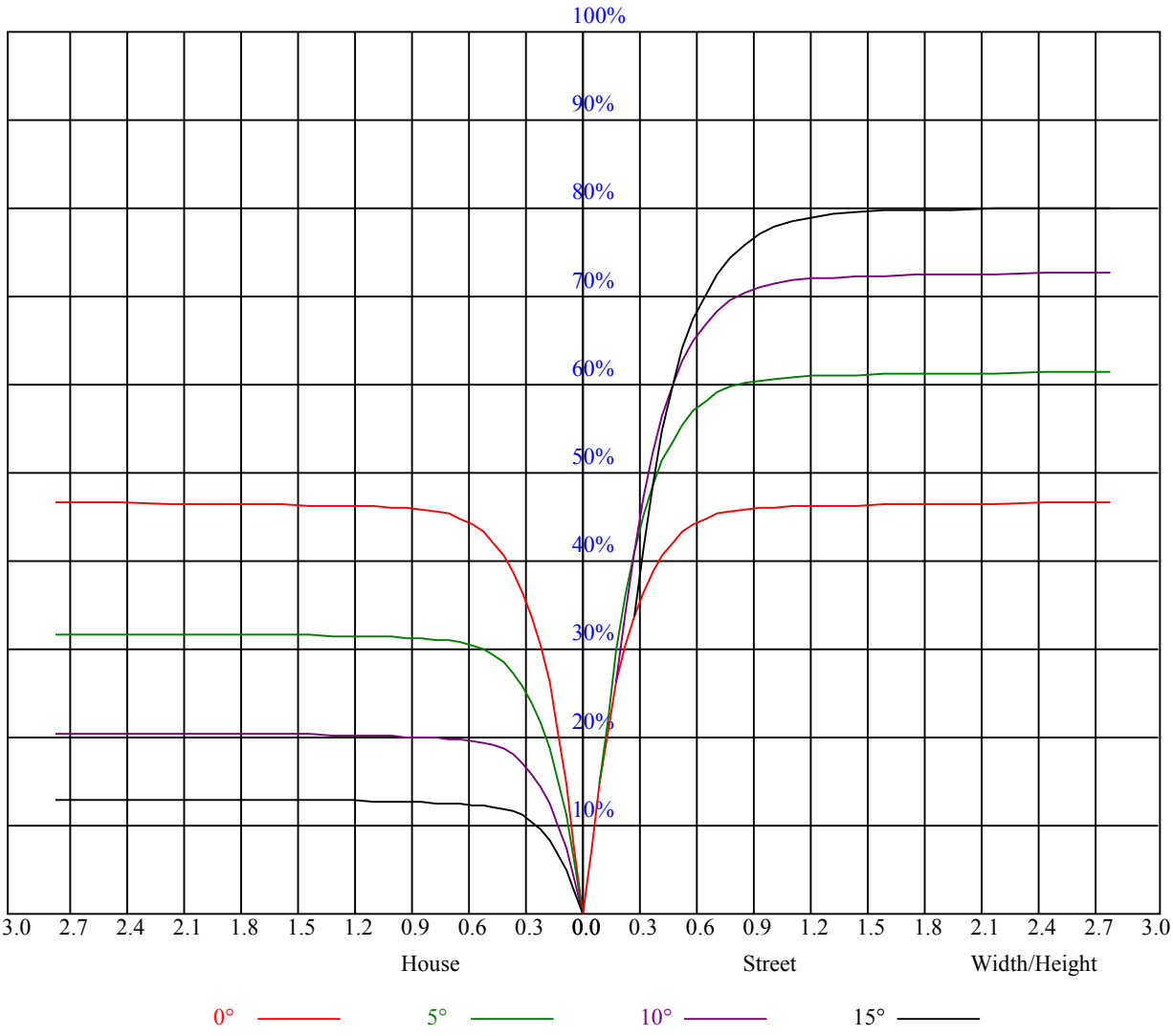
Date: 2024/9/9
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Utilization factor table for indoor luminaire

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.11	1.11	1.11	1.09	1.09	1.09	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.05	1.03	1.01	1.03	1.01	0.99	0.99	0.98	0.96	0.96	0.95	0.94	0.92	0.92	0.91	0.89
2	0.99	0.96	0.93	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.89	0.89	0.88	0.87	0.85
3	0.94	0.90	0.87	0.93	0.90	0.87	0.91	0.88	0.85	0.88	0.86	0.84	0.86	0.85	0.83	0.82
4	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.84	0.81	0.79	0.78
5	0.86	0.82	0.78	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.75
6	0.82	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
7	0.79	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.71	0.69
8	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
9	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.65
10	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63

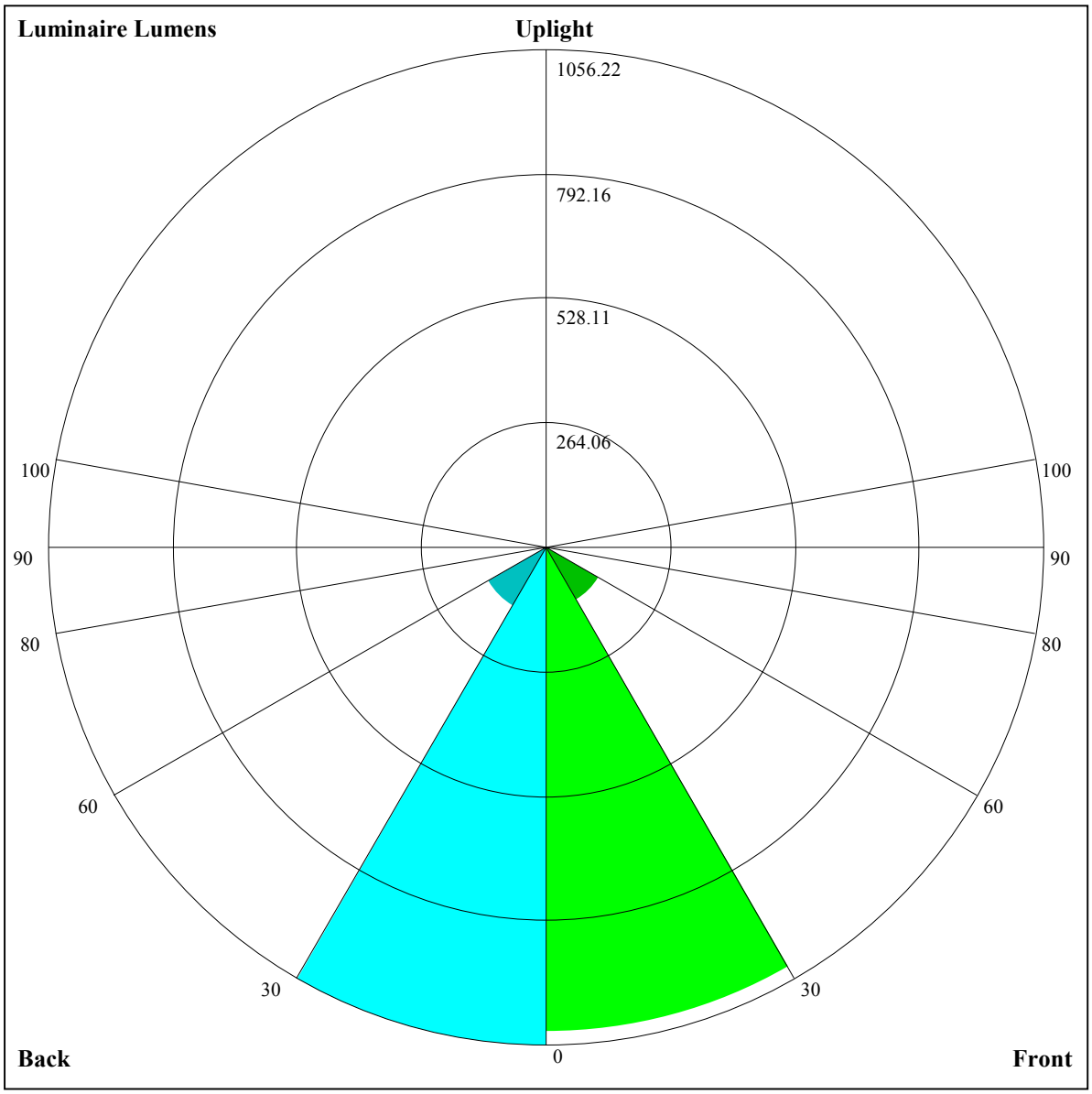
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/9
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=1028.44,FM=130.25,FH=10.09,FVH=1.06
BL=1056.22,BM=142.78,BH=10,BVH=1.03
UL=0,UH=0

BUG Rating:B3-U0-G0

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	11069.45	11020.99	10699.46	10209.74	9564.54	8791.76	7924.85	7026.13	6154.18
45.0	11048.85	11035.18	10739.89	10316.44	9709.13	8979.25	8149.08	7274.33	6394.02
90.0	10922.91	10508.93	9953.45	9258.10	8460.83	7596.65	6733.62	5911.81	5152.39
135.0	11174.47	10951.61	10556.02	10026.72	9346.98	8572.52	7736.78	6901.04	6093.15
180.0	11069.45	11069.45	10973.89	10661.88	10199.44	9592.13	8862.25	8065.51	7252.05
225.0	11048.85	11048.85	10770.27	10334.00	9984.09	9012.94	8543.82	7720.33	6902.98
270.0	10922.91	10989.19	11097.31	11163.33	10940.46	10556.02	10010.00	9335.84	8555.81
315.0	11174.47	11009.85	11009.85	10888.90	10433.71	9832.55	9094.31	8251.31	7379.93
360.0	11069.45	11020.99	10699.46	10209.74	9564.54	8791.76	7924.85	7026.13	6154.18

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5342.93	4624.19	4016.30	3509.86	3113.17	2781.66	2495.83	2250.10	2045.63
45.0	5569.42	4828.39	4193.23	3870.07	3396.48	2883.89	2822.61	2822.61	2215.56
90.0	4485.47	3918.27	3455.25	3145.50	2754.33	2474.12	2275.75	2064.60	1885.73
135.0	5335.41	4672.39	4104.08	3624.92	3212.62	2867.18	2867.18	2800.32	2184.92
180.0	6449.73	5686.42	4984.40	4371.52	3853.36	3413.20	3039.90	2772.46	2772.46
225.0	6107.34	5371.36	4711.12	4131.68	3646.94	3231.28	2881.37	2582.19	2325.31
270.0	7720.06	6873.18	6048.58	5301.98	4622.24	4042.79	3563.63	3151.33	2811.46
315.0	6493.47	5664.98	4907.24	4263.71	3726.05	3293.67	2938.77	2637.90	2366.57
360.0	5342.93	4624.19	4016.30	3509.86	3113.17	2781.66	2495.83	2250.10	2045.63

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1868.44	1715.80	1572.62	1470.07	1350.86	1078.90	1078.90	1038.06	936.98
45.0	2014.46	1841.74	1693.51	1555.32	1430.54	1317.43	1208.20	1104.60	1001.53
90.0	1730.30	1592.64	1463.97	1346.39	1106.39	1086.68	1046.62	949.28	854.30
135.0	1991.59	1824.44	1681.26	1549.75	1435.01	1323.00	1221.61	1121.84	1025.49
180.0	2264.02	2058.45	1881.84	1734.19	1599.90	1480.11	1368.67	1265.60	1168.67
225.0	2111.38	1925.84	1769.83	1630.54	1555.32	1398.22	1294.04	1111.12	1111.12
270.0	2811.46	2508.07	2030.02	1920.27	1759.79	1617.72	1488.46	1370.94	1266.70
315.0	2227.81	1941.45	1839.48	1688.52	1492.35	1420.50	1302.92	1080.32	1080.32
360.0	1868.44	1715.80	1572.62	1470.07	1350.86	1078.90	1078.90	1038.06	936.98

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	840.47	742.45	644.89	547.33	458.45	380.97	317.74	266.75	222.97
45.0	921.84	803.16	724.63	626.55	529.62	442.68	369.15	308.96	298.40
90.0	759.53	662.92	605.26	474.22	394.38	352.12	294.35	245.68	204.36
135.0	930.78	835.48	740.19	642.68	565.26	454.40	375.82	322.89	290.04
180.0	1075.64	983.71	892.30	797.06	700.08	601.47	544.07	422.08	375.82
225.0	1034.96	940.82	843.00	745.76	643.89	542.97	451.30	374.35	311.91
270.0	1170.36	1076.16	984.81	890.62	798.16	702.34	606.47	512.90	425.97
315.0	982.08	887.31	795.64	704.13	609.51	516.53	429.91	356.32	298.29
360.0	840.47	742.45	644.89	547.33	458.45	380.97	317.74	266.75	222.97

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	200.58	155.32	138.77	114.90	87.83	78.53	65.28	55.03	46.89
45.0	278.32	181.87	150.75	123.99	102.23	84.10	69.38	57.92	52.35
90.0	169.67	139.97	115.11	94.56	77.63	64.55	54.24	46.26	40.32
135.0	290.04	187.75	155.90	128.99	106.81	88.83	74.38	62.44	53.19
180.0	312.33	290.57	238.11	172.83	141.76	115.74	94.72	78.06	64.49
225.0	259.55	215.45	178.45	146.39	120.11	97.98	86.73	71.38	55.03
270.0	352.96	295.03	295.03	241.52	173.77	142.65	116.95	95.56	78.37
315.0	268.02	208.52	187.07	155.69	128.46	105.91	87.15	71.80	59.66
360.0	200.58	155.32	138.77	114.90	87.83	78.53	65.28	55.03	46.89

Intensity data(cd)

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	40.79	36.27	32.75	30.22	28.12	26.18	24.91	24.13	23.13
45.0	44.73	39.21	35.11	31.85	29.65	27.70	25.76	24.65	23.86
90.0	35.80	32.59	30.22	28.23	26.39	25.49	24.44	23.60	23.29
135.0	45.94	40.42	36.22	32.96	31.17	28.65	26.86	25.70	24.65
180.0	53.77	45.47	39.32	34.85	31.59	30.07	27.70	25.28	24.60
225.0	49.62	42.63	37.32	33.53	30.80	28.38	26.44	25.34	24.39
270.0	64.34	53.46	45.20	39.21	34.74	31.48	29.12	27.07	25.39
315.0	49.99	42.37	37.11	33.11	30.17	28.07	26.18	24.55	23.65
360.0	40.79	36.27	32.75	30.22	28.12	26.18	24.91	24.13	23.13

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.55	22.60	22.50	22.23	22.39	22.18	21.60	20.29	19.34
45.0	23.07	22.71	22.76	22.65	22.39	22.23	21.71	20.76	19.71
90.0	23.23	22.86	22.55	22.44	21.97	20.87	19.71	18.19	15.93
135.0	24.02	23.76	23.50	23.07	22.81	22.44	21.39	20.03	18.66
180.0	23.76	22.92	22.71	22.60	22.34	22.13	21.97	21.39	20.34
225.0	23.44	22.97	22.86	22.55	22.23	22.02	21.55	20.97	19.40
270.0	24.81	23.60	22.92	22.81	22.76	22.65	22.50	22.44	22.02
315.0	22.81	22.29	22.29	22.50	22.29	22.29	22.39	21.71	21.03
360.0	22.55	22.60	22.50	22.23	22.39	22.18	21.60	20.29	19.34

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.24	15.03	13.04	11.09	9.83	8.78	7.94	7.31	6.73
45.0	18.08	15.82	14.14	12.35	10.35	9.46	8.57	7.78	7.25
90.0	13.98	12.09	10.51	9.46	8.57	7.78	7.15	6.73	6.25
135.0	16.40	14.30	12.56	10.83	9.67	8.78	7.99	7.52	6.83
180.0	19.03	17.19	14.88	13.14	11.30	9.88	8.88	8.09	7.67
225.0	18.50	16.29	13.46	12.40	10.67	9.51	8.62	7.83	7.25
270.0	21.03	19.97	18.40	16.08	14.03	12.25	10.51	9.51	8.57
315.0	19.82	18.13	15.82	13.77	11.83	10.14	9.04	8.20	7.46
360.0	17.24	15.03	13.04	11.09	9.83	8.78	7.94	7.31	6.73

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.25	5.78	5.41	5.15	4.78	4.31	3.99	3.63	3.21
45.0	6.68	6.20	5.83	5.47	5.10	4.78	4.36	3.99	3.57
90.0	5.78	5.47	5.10	4.89	4.31	4.10	3.68	3.21	2.84
135.0	6.41	5.94	5.52	5.20	4.89	4.52	4.10	3.68	3.26
180.0	7.04	6.36	6.10	5.62	5.26	4.99	4.63	4.15	3.84
225.0	6.68	6.20	5.78	5.31	4.99	4.68	4.26	3.84	3.47
270.0	7.83	7.15	6.68	6.20	5.78	5.31	5.15	4.73	4.47
315.0	6.83	6.36	5.94	5.57	5.15	4.84	4.52	4.05	3.78
360.0	6.25	5.78	5.41	5.15	4.78	4.31	3.99	3.63	3.21

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.89	2.52	2.16	1.94	1.68	1.37	1.21	1.00	0.79
45.0	3.15	2.79	2.31	2.00	1.79	1.52	1.26	1.10	0.84
90.0	2.47	2.10	1.84	1.58	1.37	1.10	1.00	0.79	0.79
135.0	2.94	2.47	2.10	1.73	1.47	1.26	1.00	0.84	0.79
180.0	3.42	2.89	2.63	2.16	1.94	1.52	1.26	1.10	0.84
225.0	3.10	2.79	2.31	2.00	1.68	1.42	1.21	1.00	0.79
270.0	4.05	3.47	2.94	2.73	2.26	1.94	1.58	1.31	1.16
315.0	3.31	3.00	2.73	2.26	1.89	1.58	1.37	1.16	1.00
360.0	2.89	2.52	2.16	1.94	1.68	1.37	1.21	1.00	0.79

Intensity data(cd)

C/γ(°)	90.0
0.0	0.84
45.0	0.84
90.0	0.79
135.0	0.68
180.0	0.68
225.0	0.63
270.0	0.89
315.0	0.84
360.0	0.84