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Nata

Client:
LumCAT: 2-2756-L
Luminaire: 92.70.411.00
Report No: 2024911-B013
Ballast type: AC

Test No: 2024911-C013	Voltage(V): 33.770
LampCAT: NICHIA NFCWJ120B-V3	Current(A): 0.580
Lamp flux(lm): 2595.0	Power (W): 19.580
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2400.61, Efficiency(%): 92.51% , Luminous Efficacy(lm/W): 122.61
Central intensity(cd): 5060.573, Maximum intensity(cd): 5060.573
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=37.8
[C90/270]Total=37.8
Field angle(10%Imax): [C0/180]Total=68.4
[C90/270]Total=68.4
Maximum s/h(1/2): C0_180=0.61 C90_270=0.61
Maximum s/h(1/4): C0_180=0.64 C90_270=0.64
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.51%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.406%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5060.573	0.000	0	0.00%	0.00%
1.0	5054.318	4.840	4.84	0.19%	0.20%
2.0	5013.996	14.451	19.291	0.56%	0.80%
3.0	4964.403	23.865	43.156	0.92%	1.80%
4.0	4905.205	33.037	76.193	1.27%	3.17%
5.0	4811.111	41.799	117.992	1.61%	4.92%
6.0	4704.074	50.005	167.996	1.93%	7.00%
7.0	4579.468	57.623	225.619	2.22%	9.40%
8.0	4441.439	64.561	290.18	2.49%	12.09%
9.0	4291.768	70.778	360.958	2.73%	15.04%
10.0	4129.849	76.213	437.171	2.94%	18.21%
11.0	3958.521	80.819	517.99	3.11%	21.58%
12.0	3779.244	84.585	602.575	3.26%	25.10%
13.0	3598.862	87.560	690.134	3.37%	28.75%
14.0	3417.509	89.809	779.943	3.46%	32.49%
15.0	3232.108	91.289	871.232	3.52%	36.29%
16.0	3045.675	91.987	963.219	3.54%	40.12%
17.0	2858.815	91.949	1055.168	3.54%	43.95%
18.0	2678.296	91.295	1146.463	3.52%	47.76%
19.0	2509.544	90.258	1236.721	3.48%	51.52%
20.0	2325.332	88.492	1325.213	3.41%	55.20%
21.0	2157.500	86.079	1411.292	3.32%	58.79%
22.0	2019.734	83.943	1495.235	3.23%	62.29%
23.0	1848.741	81.171	1576.406	3.13%	65.67%
24.0	1704.162	77.679	1654.086	2.99%	68.90%
25.0	1566.179	74.360	1728.446	2.87%	72.00%
26.0	1446.527	71.115	1799.561	2.74%	74.96%
27.0	1313.320	67.520	1867.081	2.60%	77.78%
28.0	1208.418	63.845	1930.926	2.46%	80.43%
29.0	1062.925	59.425	1990.351	2.29%	82.91%
30.0	970.849	54.912	2045.263	2.12%	85.20%
31.0	858.451	50.907	2096.17	1.96%	87.32%
32.0	749.357	46.062	2142.231	1.78%	89.24%
33.0	633.115	40.728	2182.959	1.57%	90.93%
34.0	527.544	35.125	2218.084	1.35%	92.40%
35.0	433.910	29.859	2247.944	1.15%	93.64%
36.0	364.994	25.437	2273.381	0.98%	94.70%
37.0	271.111	20.746	2294.127	0.80%	95.56%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	206.505	15.942	2310.069	0.61%	96.23%
39.0	164.455	12.662	2322.731	0.49%	96.76%
40.0	119.737	9.912	2332.643	0.38%	97.17%
41.0	101.012	7.861	2340.503	0.30%	97.50%
42.0	69.238	6.185	2346.689	0.24%	97.75%
43.0	57.339	4.689	2351.378	0.18%	97.95%
44.0	49.001	4.014	2355.391	0.15%	98.12%
45.0	43.206	3.544	2358.935	0.14%	98.26%
46.0	38.088	3.179	2362.114	0.12%	98.40%
47.0	33.844	2.861	2364.975	0.11%	98.52%
48.0	30.131	2.586	2367.561	0.10%	98.62%
49.0	26.978	2.345	2369.907	0.09%	98.72%
50.0	24.172	2.133	2372.039	0.08%	98.81%
51.0	21.866	1.948	2373.987	0.08%	98.89%
52.0	19.869	1.791	2375.778	0.07%	98.97%
53.0	18.141	1.653	2377.431	0.06%	99.03%
54.0	16.636	1.533	2378.964	0.06%	99.10%
55.0	15.388	1.429	2380.394	0.06%	99.16%
56.0	14.231	1.338	2381.732	0.05%	99.21%
57.0	13.272	1.258	2382.989	0.05%	99.27%
58.0	12.339	1.184	2384.174	0.05%	99.32%
59.0	11.583	1.118	2385.292	0.04%	99.36%
60.0	10.854	1.060	2386.352	0.04%	99.41%
61.0	10.217	1.006	2387.358	0.04%	99.45%
62.0	9.520	0.951	2388.309	0.04%	99.49%
63.0	9.014	0.901	2389.21	0.03%	99.53%
64.0	8.489	0.859	2390.069	0.03%	99.56%
65.0	8.009	0.816	2390.886	0.03%	99.60%
66.0	7.569	0.777	2391.663	0.03%	99.63%
67.0	7.142	0.740	2392.403	0.03%	99.66%
68.0	6.715	0.702	2393.105	0.03%	99.69%
69.0	6.340	0.666	2393.771	0.03%	99.72%
70.0	5.953	0.631	2394.402	0.02%	99.74%
71.0	5.611	0.598	2395	0.02%	99.77%
72.0	5.256	0.565	2395.565	0.02%	99.79%
73.0	4.928	0.533	2396.097	0.02%	99.81%
74.0	4.606	0.501	2396.598	0.02%	99.83%
75.0	4.277	0.469	2397.068	0.02%	99.85%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	3.955	0.437	2397.505	0.02%	99.87%
77.0	3.660	0.406	2397.911	0.02%	99.89%
78.0	3.325	0.374	2398.285	0.01%	99.90%
79.0	3.016	0.341	2398.625	0.01%	99.92%
80.0	2.707	0.309	2398.934	0.01%	99.93%
81.0	2.444	0.279	2399.212	0.01%	99.94%
82.0	2.175	0.250	2399.463	0.01%	99.95%
83.0	1.912	0.222	2399.685	0.01%	99.96%
84.0	1.675	0.195	2399.88	0.01%	99.97%
85.0	1.459	0.171	2400.052	0.01%	99.98%
86.0	1.262	0.149	2400.2	0.01%	99.98%
87.0	1.058	0.127	2400.327	0.00%	99.99%
88.0	0.900	0.107	2400.434	0.00%	99.99%
89.0	0.762	0.091	2400.525	0.00%	100.00%
90.0	0.710	0.081	2400.606	0.00%	100.00%

Zonal flux distribution table

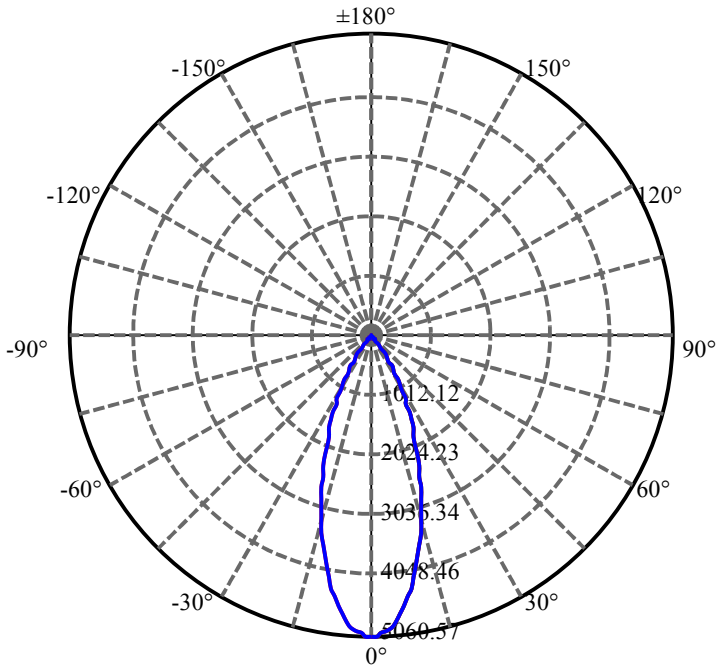
ZONAL LUMEN SUMMARY

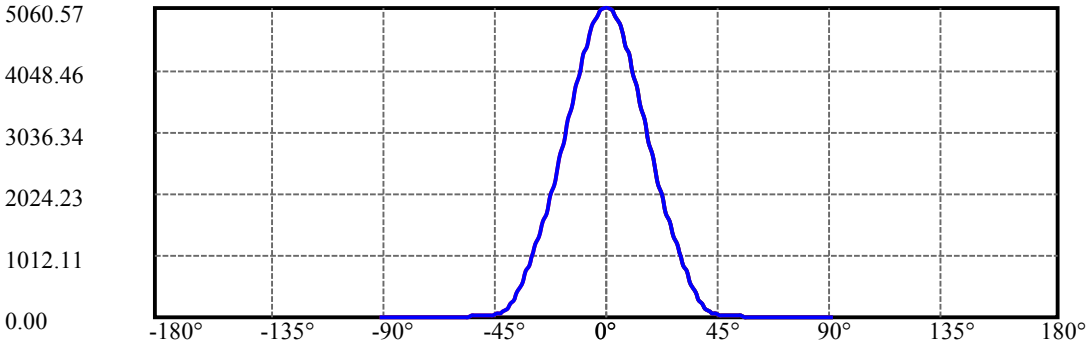
Zone	Lumens	%Lamp	%Fixt
0-30	2045.26	78.82%	85.20%
0-40	2332.64	89.89%	97.17%
0-60	2386.35	91.96%	99.41%
0-90	2400.53	92.51%	100.00%
0-120	2400.53	92.51%	100.00%
0-180	2400.61	92.51%	100.00%
60-90	14.17	0.55%	0.59%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.84	1920.49	74.01%	80.00%

ZONAL LUMEN SUMMARY

0-10	437.17
10-20	888.04
20-30	720.05
30-40	287.38
40-50	39.40
50-60	14.31
60-70	8.05
70-80	4.53
80-90	1.59
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):

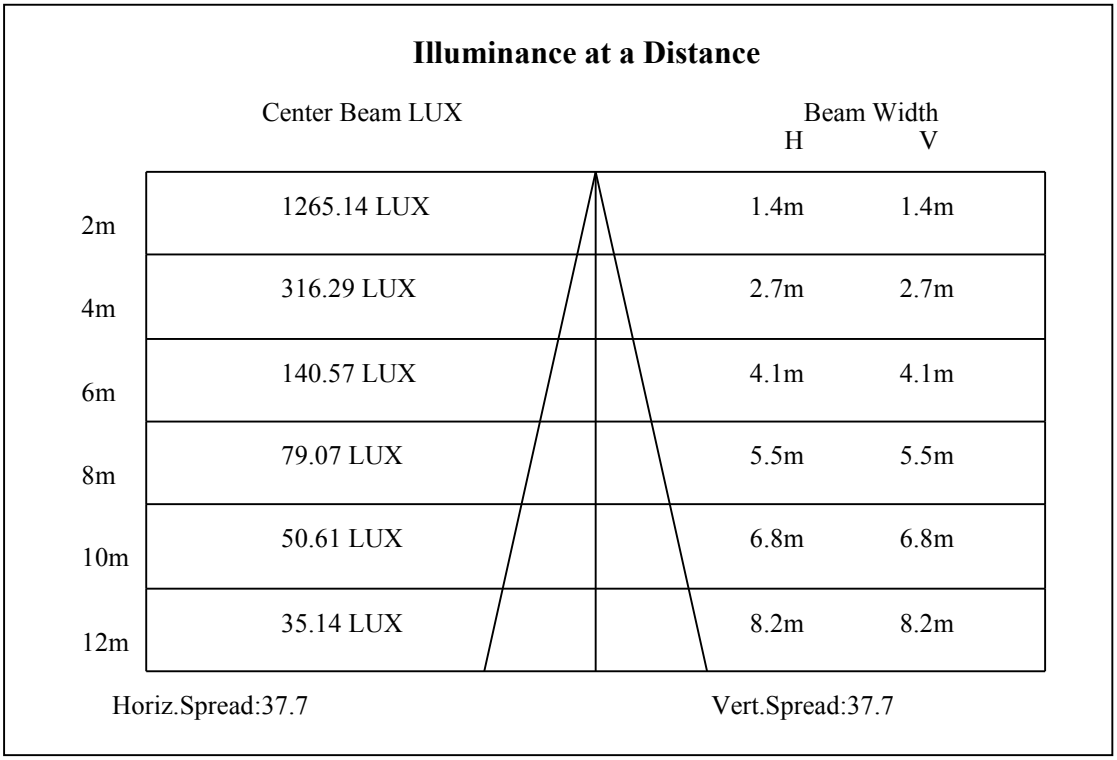
C0/C180:

C90/C270:

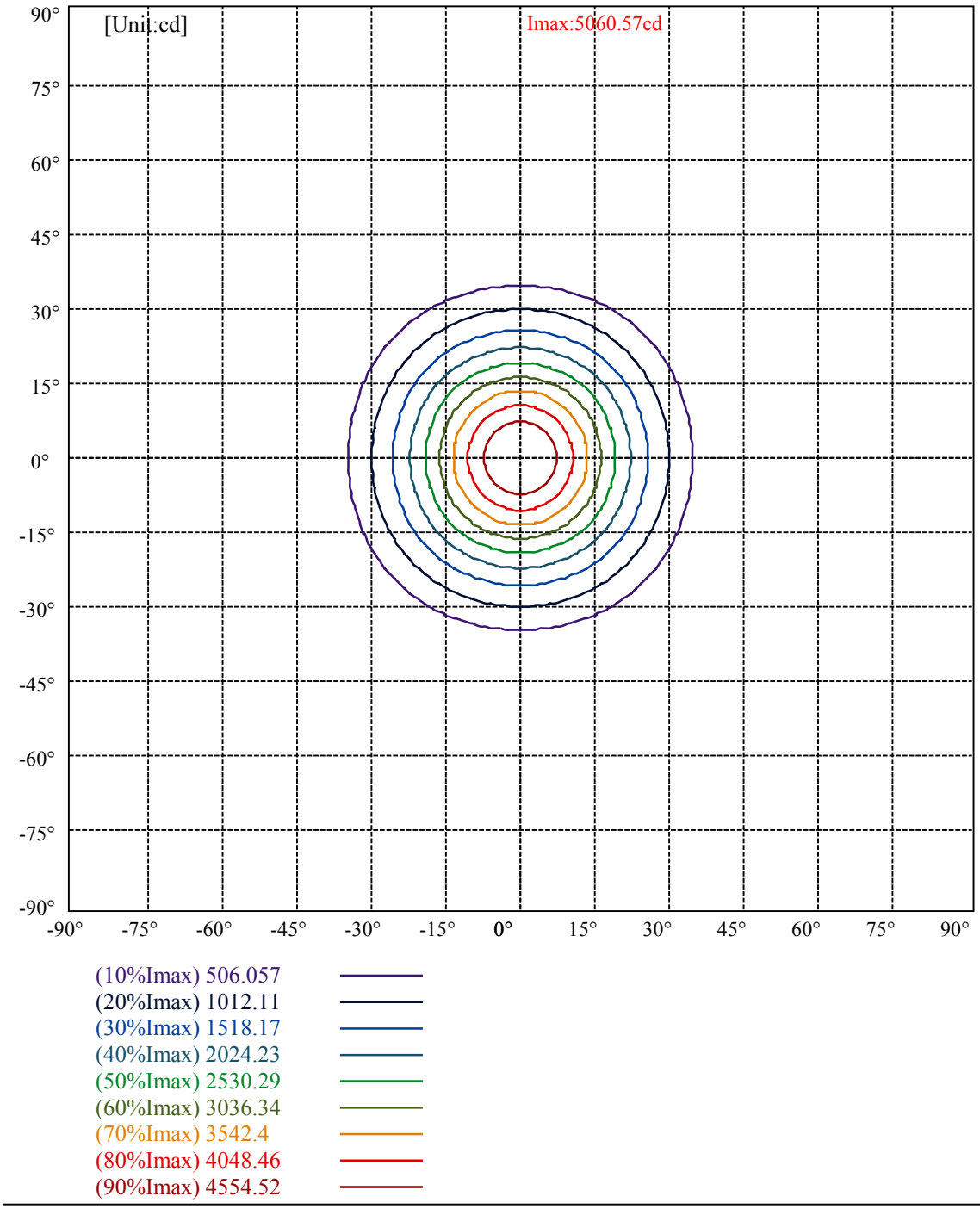
Field angle(10%Imax):C0/180Left:34.2 Right:34.2
:C90/270Left:34.2 Right:34.2

Beam Angle(50%Imax):C0/180Left:18.9 Right:18.9
:C90/270Left:18.9 Right:18.9

Lux distance Curve



ISO-Intensity(V-H)

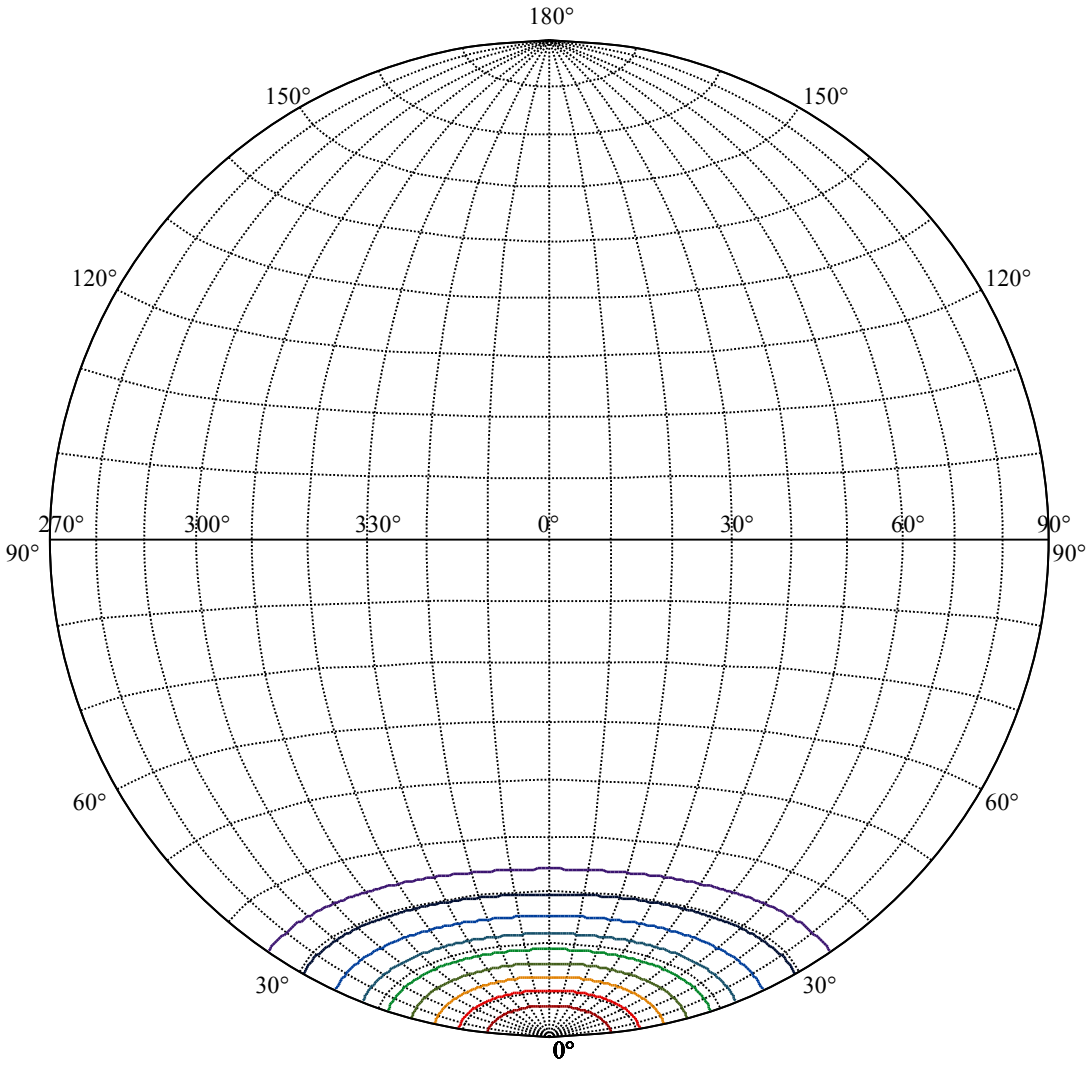


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/11
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:5060.57

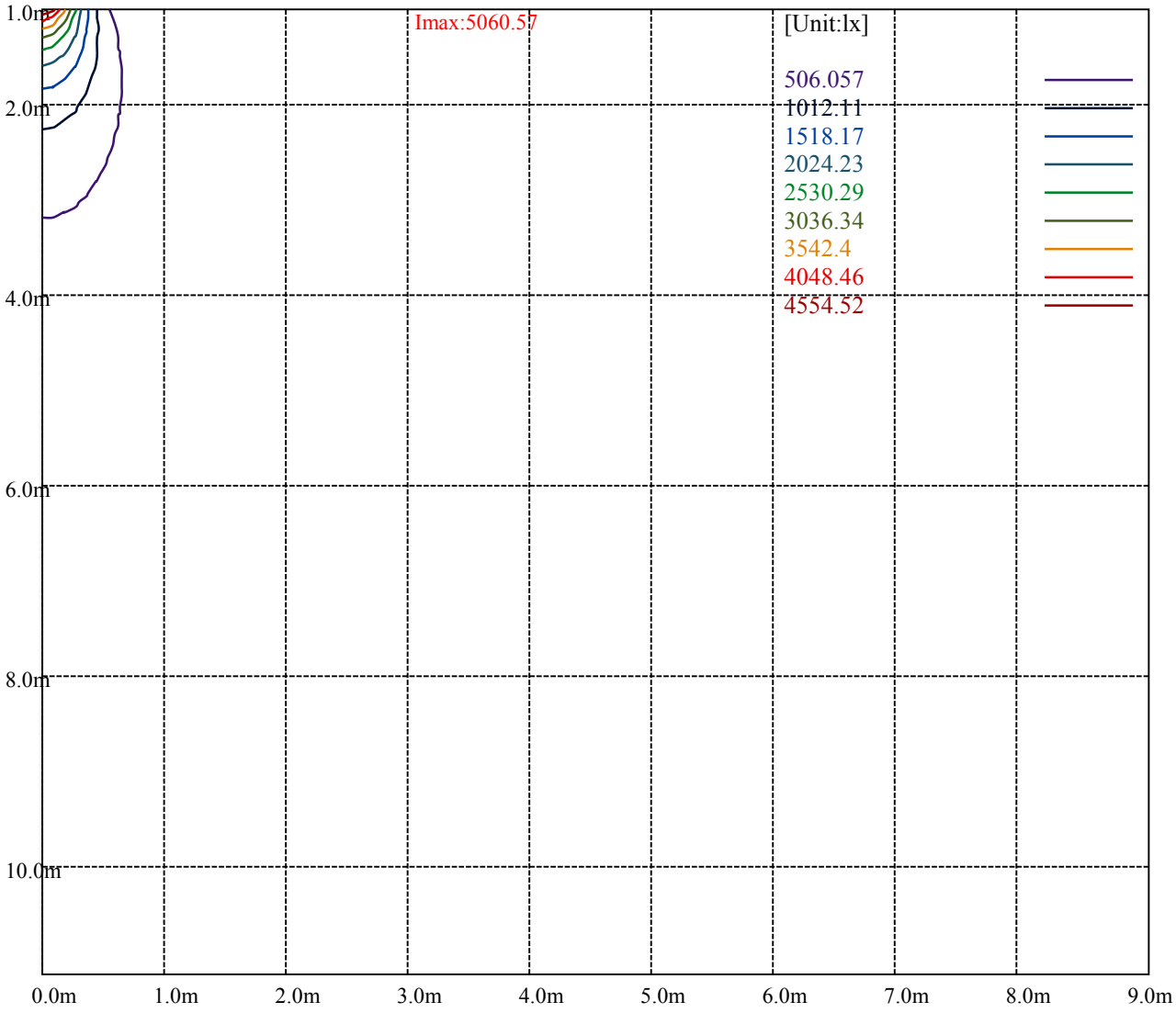
(10%Imax) 506.057
(20%Imax) 1012.11
(30%Imax) 1518.17
(40%Imax) 2024.23
(50%Imax) 2530.29
(60%Imax) 3036.34
(70%Imax) 3542.4
(80%Imax) 4048.46
(90%Imax) 4554.52

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/11
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/11
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2756-L

Luminance Limitting Curve(no luminous side)

Luminance Table

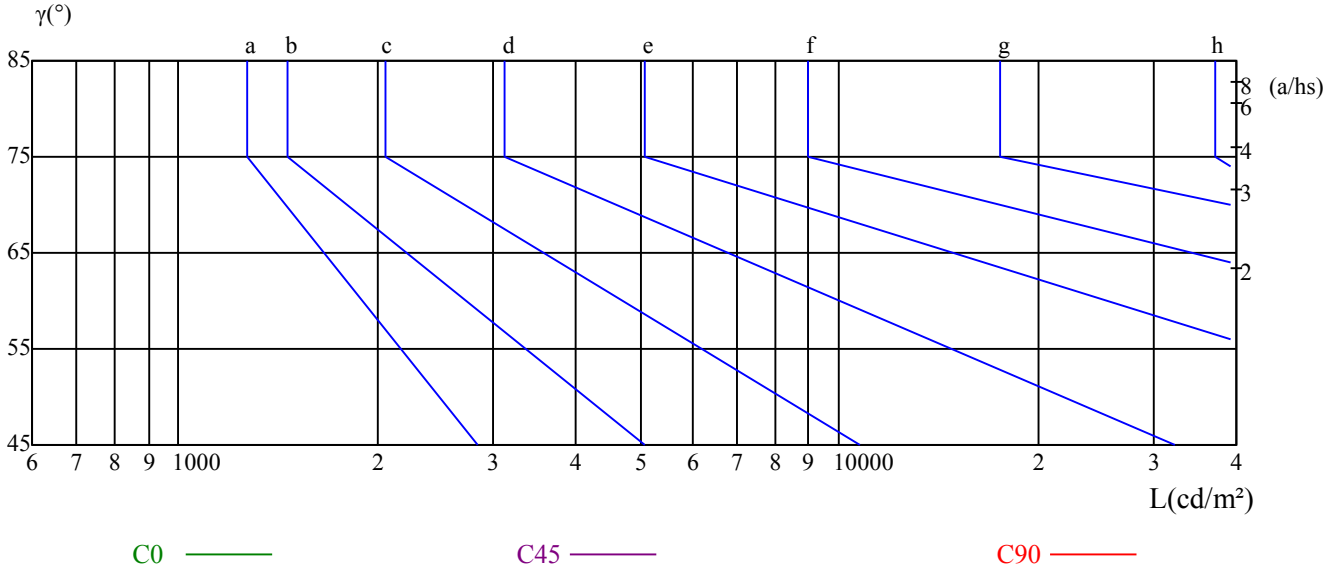
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

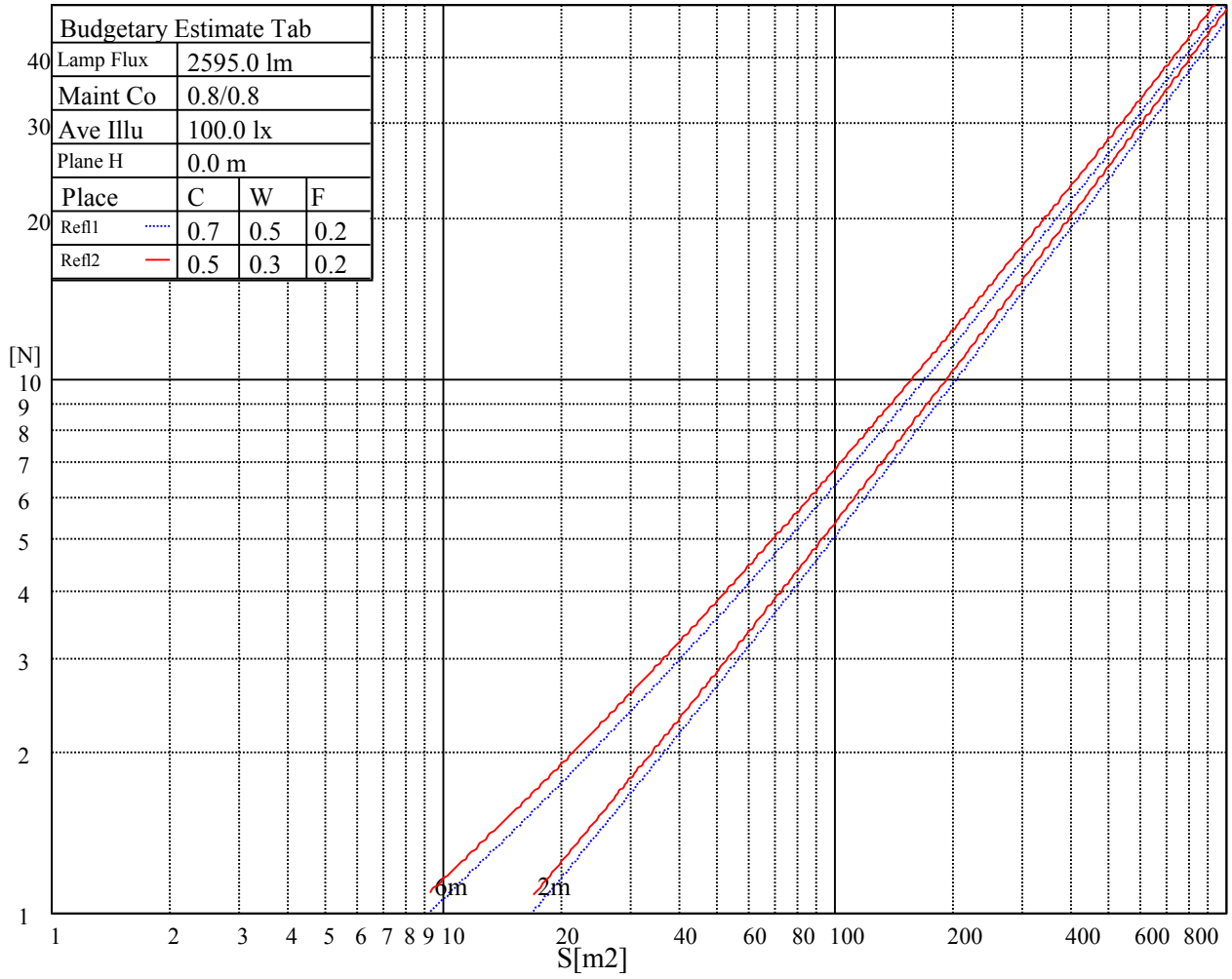
Date: 2024/9/11
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

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

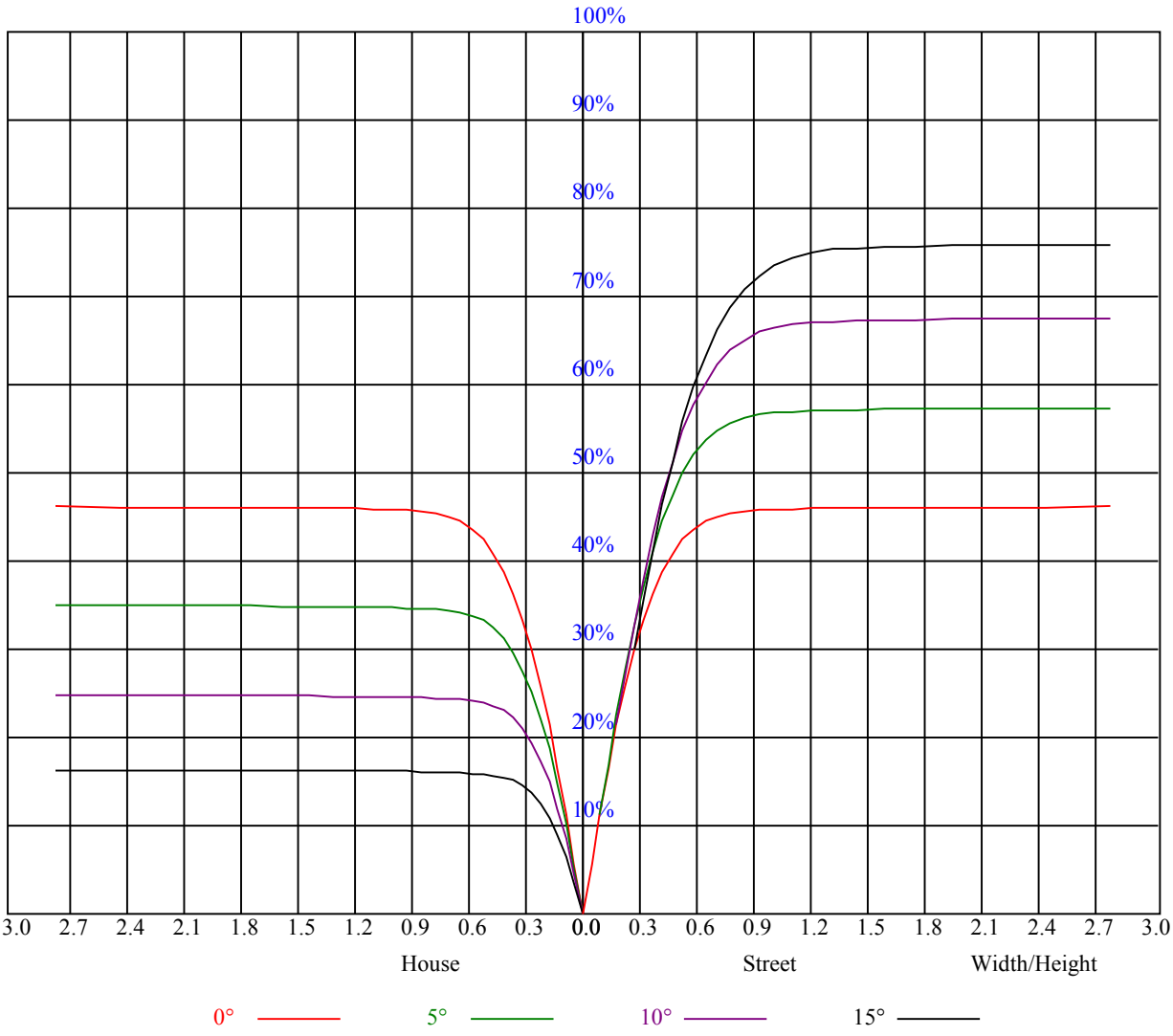
Date: 2024/9/11
Humidity(%): 60.0%

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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.93
1	1.03	1.01	0.99	1.01	0.99	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88
2	0.97	0.94	0.91	0.96	0.93	0.90	0.93	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.84	0.83
3	0.92	0.88	0.84	0.90	0.87	0.84	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.79
4	0.87	0.82	0.79	0.86	0.82	0.78	0.84	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.74
5	0.82	0.78	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
6	0.78	0.73	0.70	0.78	0.73	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.68	0.67
7	0.75	0.70	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.64
8	0.71	0.66	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61
9	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.58
10	0.65	0.60	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.56

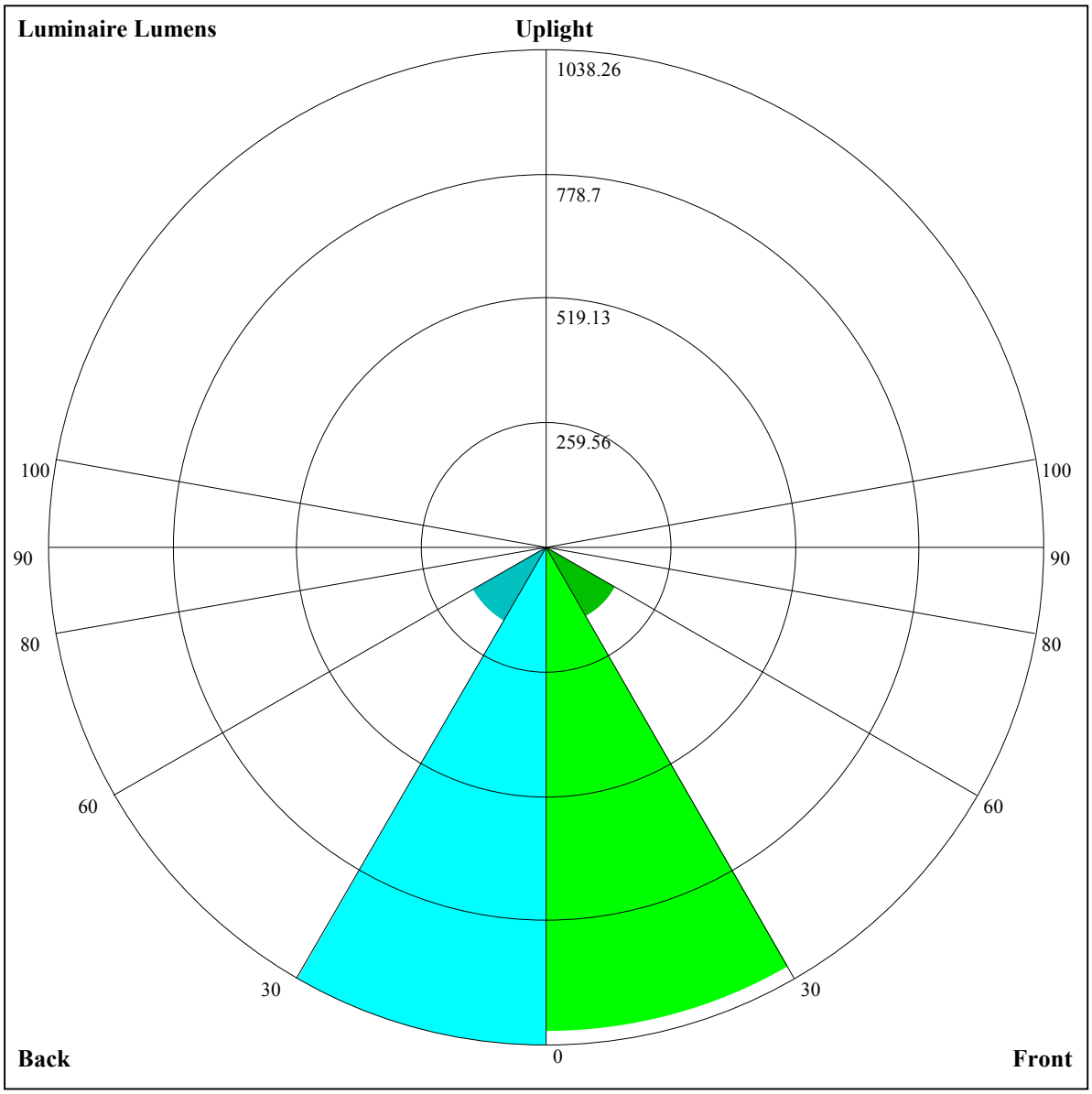
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/11
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=1009.43,FM=166.98,FH=6.3,FVH=0.86
BL=1038.26,BM=179.49,BH=6.29,BVH=0.84
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	5067.13	5030.91	4937.30	4891.62	4796.33	4674.91	4539.51	4387.39	4217.46
45.0	5094.41	5052.62	4975.20	4897.20	4801.90	4668.76	4518.90	4365.68	4200.16
90.0	4996.91	4947.34	4809.73	4695.51	4618.04	4467.60	4301.03	4134.99	3963.95
135.0	5083.85	5048.21	5010.31	4904.97	4853.20	4747.87	4623.08	4472.07	4317.75
180.0	5067.13	5077.17	5082.16	5055.99	5009.21	4943.98	4865.45	4765.16	4638.69
225.0	5094.41	5107.81	5099.46	5078.27	5034.28	4962.37	4901.66	4796.33	4677.69
270.0	4996.91	5074.91	5107.81	5129.52	5122.85	5091.10	5038.69	4979.09	4898.88
315.0	5083.85	5095.57	5089.99	5062.14	5005.84	4932.31	4844.27	4735.04	4616.93
360.0	5067.13	5030.91	4937.30	4891.62	4796.33	4674.91	4539.51	4387.39	4217.46

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4048.63	3876.48	3699.30	3513.75	3335.46	3145.50	2967.21	2784.45	2607.26
45.0	4019.09	3846.37	3674.22	3489.78	3304.81	3118.74	2938.19	2751.02	2573.25
90.0	3795.70	3614.62	3435.22	3253.57	3071.38	2888.05	2700.29	2520.32	2333.67
135.0	4157.85	3989.60	3808.52	3623.50	3438.53	3256.35	3068.02	2881.37	2688.62
180.0	4503.29	4346.18	4178.46	4001.27	3814.62	3633.54	3436.85	3243.00	3049.10
225.0	4540.03	4375.14	4201.85	4014.09	3834.12	3646.37	3458.61	3270.28	3069.70
270.0	4798.01	4676.54	4528.36	4370.68	4197.96	4036.38	3849.15	3661.98	3475.33
315.0	4471.54	4313.86	4142.24	3967.31	3794.01	3615.14	3438.53	3252.99	3073.59
360.0	4048.63	3876.48	3699.30	3513.75	3335.46	3145.50	2967.21	2784.45	2607.26

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2435.64	2269.60	2109.18	1961.53	1842.84	1684.58	1588.75	1476.80	1343.08
45.0	2398.90	2296.93	2133.67	1978.24	1832.22	1701.29	1576.51	1462.29	1353.06
90.0	2167.10	2003.84	1851.72	1709.65	1627.23	1457.82	1336.35	1093.77	1093.77
135.0	2493.62	2309.18	2129.78	1958.74	1799.95	1711.33	1525.78	1451.72	1333.04
180.0	2846.26	2727.05	2451.83	2256.82	2142.61	1965.94	1799.37	1654.51	1528.04
225.0	2865.76	2666.34	2469.07	2271.28	2155.38	1906.91	1750.91	1657.87	1481.79
270.0	3296.46	3104.81	2906.44	2752.70	2561.00	2334.25	2189.39	2006.10	1841.74
315.0	2922.63	2698.61	2550.96	2371.04	2196.64	2027.81	1866.23	1726.36	1597.69
360.0	2435.64	2269.60	2109.18	1961.53	1842.84	1684.58	1588.75	1476.80	1343.08

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1071.22	1071.22	991.28	854.04	727.15	607.89	498.19	398.00	306.02
45.0	1238.32	1111.85	980.34	848.83	719.58	601.47	495.61	393.64	300.60
90.0	993.75	863.71	739.76	618.45	507.02	404.57	310.59	227.86	157.79
135.0	1219.34	1101.24	981.45	854.98	736.87	622.66	514.53	410.93	316.74
180.0	1405.99	1301.82	1194.27	1091.20	978.66	862.24	751.33	642.16	534.61
225.0	1408.78	1302.39	1099.40	1099.40	985.07	871.49	760.84	651.41	544.60
270.0	1692.93	1557.58	1435.01	1318.00	1208.20	1093.98	974.19	854.98	736.87
315.0	1476.22	1357.53	1081.89	1081.89	1005.05	930.57	759.63	641.37	574.04
360.0	1071.22	1071.22	991.28	854.04	727.15	607.89	498.19	398.00	306.02

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	226.23	159.95	111.70	93.88	72.75	62.65	57.71	50.78	45.20
45.0	300.60	210.88	104.91	83.05	69.75	59.55	51.83	45.89	40.79
90.0	108.75	80.47	66.49	56.87	52.19	43.99	40.89	36.43	30.85
135.0	316.74	147.49	116.48	77.63	69.38	58.03	47.46	44.21	39.21
180.0	432.12	335.72	298.92	298.92	125.52	90.83	74.27	62.71	53.72
225.0	443.47	345.13	256.45	180.82	125.73	93.72	79.79	66.75	57.03
270.0	624.34	520.11	418.19	324.57	306.18	306.18	129.30	90.09	71.91
315.0	467.70	369.15	278.90	199.90	136.40	93.14	72.64	61.87	53.30
360.0	226.23	159.95	111.70	93.88	72.75	62.65	57.71	50.78	45.20

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	40.32	36.06	32.22	28.96	26.18	23.71	21.60	19.82	18.19
45.0	36.37	32.54	28.91	25.76	23.29	21.18	19.24	17.71	16.19
90.0	28.86	25.86	23.34	21.03	19.13	17.50	16.14	14.88	13.82
135.0	34.69	30.70	27.28	24.44	22.13	19.92	18.24	16.82	15.40
180.0	47.67	42.31	37.48	33.27	29.70	26.49	23.97	21.66	19.76
225.0	50.41	44.42	39.16	34.48	30.54	27.28	24.44	22.02	20.03
270.0	60.66	51.41	45.52	40.37	35.74	31.75	28.33	25.28	22.76
315.0	46.68	41.42	36.85	32.75	29.12	25.55	22.97	20.76	18.98
360.0	40.32	36.06	32.22	28.96	26.18	23.71	21.60	19.82	18.19

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	16.82	15.51	14.35	13.46	12.56	11.72	11.14	10.30	9.67
45.0	14.98	14.30	13.30	12.46	11.62	10.83	10.25	9.62	9.04
90.0	12.83	11.98	11.20	10.51	9.83	9.30	8.78	8.46	7.78
135.0	14.24	13.25	12.35	11.51	10.78	10.41	9.57	8.99	8.67
180.0	18.03	16.56	15.19	14.09	13.46	12.51	11.67	10.88	9.93
225.0	18.19	16.71	15.35	14.19	13.19	12.19	11.30	10.88	9.93
270.0	20.66	18.87	17.24	16.14	14.61	13.67	12.93	12.04	11.20
315.0	17.35	15.93	14.88	13.82	12.67	12.04	11.20	10.57	9.93
360.0	16.82	15.51	14.35	13.46	12.56	11.72	11.14	10.30	9.67

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.20	8.67	8.09	7.62	7.25	6.78	6.36	5.94	5.62
45.0	8.52	7.99	7.62	7.25	6.83	6.41	6.04	5.78	5.47
90.0	7.57	7.04	6.62	6.41	6.04	5.68	5.31	4.99	4.73
135.0	7.94	7.67	7.25	6.89	6.52	6.15	5.78	5.47	5.15
180.0	9.51	8.99	8.46	7.88	7.41	6.99	6.62	6.20	5.78
225.0	9.51	8.94	8.41	7.88	7.41	6.99	6.62	6.15	5.78
270.0	10.51	9.88	9.30	8.78	8.25	7.78	7.36	6.89	6.52
315.0	9.36	8.73	8.30	7.83	7.41	6.94	6.62	6.20	5.83
360.0	9.20	8.67	8.09	7.62	7.25	6.78	6.36	5.94	5.62

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.20	4.84	4.52	4.15	3.84	3.47	3.15	2.84	2.52
45.0	5.05	4.73	4.47	4.10	3.84	3.63	3.26	2.94	2.63
90.0	4.36	4.05	3.73	3.42	3.15	2.84	2.42	2.21	1.94
135.0	4.78	4.52	4.21	3.89	3.57	3.21	3.00	2.63	2.26
180.0	5.47	5.15	4.78	4.47	4.15	3.89	3.47	3.26	2.89
225.0	5.52	5.15	4.78	4.47	4.10	3.84	3.47	3.15	2.84
270.0	6.15	5.78	5.47	5.05	4.78	4.52	4.10	3.84	3.47
315.0	5.52	5.20	4.89	4.68	4.21	3.89	3.73	3.26	3.10
360.0	5.20	4.84	4.52	4.15	3.84	3.47	3.15	2.84	2.52

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.26	2.05	1.84	1.47	1.37	1.21	1.05	0.89	0.63
45.0	2.31	1.94	1.79	1.47	1.37	1.16	0.95	0.79	0.58
90.0	1.73	1.52	1.31	1.16	1.00	0.84	0.63	0.58	0.63
135.0	2.05	1.84	1.68	1.37	1.16	1.00	0.79	0.58	0.58
180.0	2.52	2.31	1.94	1.84	1.52	1.31	1.10	0.95	0.79
225.0	2.63	2.31	2.00	1.79	1.58	1.37	1.16	1.00	0.84
270.0	3.26	2.94	2.52	2.37	2.00	1.79	1.52	1.31	1.10
315.0	2.79	2.47	2.21	1.94	1.68	1.42	1.26	1.10	0.95
360.0	2.26	2.05	1.84	1.47	1.37	1.21	1.05	0.89	0.63

Intensity data(cd)

C/γ(°)	90.0
0.0	0.68
45.0	0.63
90.0	0.63
135.0	0.53
180.0	0.53
225.0	0.79
270.0	1.00
315.0	0.89
360.0	0.68