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Nata

Client:
LumCAT: 2-2518-L
Luminaire: 92.70.411.00
Report No: 2024910-B018
Ballast type: AC

Test No: 2024910-C018	Voltage(V): 33.820
LampCAT: NICHIA NFCWJ120B-V3	Current(A): 0.580
Lamp flux(lm): 2597.0	Power (W): 19.610
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2403.69, Efficiency(%): 92.56% , Luminous Efficacy(lm/W): 122.57
Central intensity(cd): 11771.270, Maximum intensity(cd): 11810.330
Angle of maximum intensity: C=0.0 γ=1.0
Beam Angle(50%Imax): [C0/180]Total=19.4
[C90/270]Total=19.4
Field angle(10%Imax): [C0/180]Total=48.4
[C90/270]Total=48.4
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(%): 92.56%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.053%

Nata 2-2518-L

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11771.267	0.000	0	0.00%	0.00%
1.0	11810.334	11.283	11.283	0.43%	0.47%
2.0	11594.361	33.593	44.876	1.29%	1.87%
3.0	11143.828	54.382	99.258	2.09%	4.13%
4.0	10458.065	72.308	171.567	2.78%	7.14%
5.0	9768.399	87.013	258.58	3.35%	10.76%
6.0	9030.724	98.794	357.374	3.80%	14.87%
7.0	8146.432	106.618	463.993	4.11%	19.30%
8.0	7295.018	110.512	574.504	4.26%	23.90%
9.0	6454.399	111.432	685.936	4.29%	28.54%
10.0	5634.956	109.404	795.34	4.21%	33.09%
11.0	4952.432	105.790	901.13	4.07%	37.49%
12.0	4304.514	101.192	1002.321	3.90%	41.70%
13.0	3792.831	96.095	1098.416	3.70%	45.70%
14.0	3358.382	91.535	1189.951	3.52%	49.51%
15.0	3039.059	87.827	1277.778	3.38%	53.16%
16.0	2642.429	83.250	1361.028	3.21%	56.62%
17.0	2400.142	78.526	1439.554	3.02%	59.89%
18.0	2148.610	74.999	1514.553	2.89%	63.01%
19.0	1953.321	71.365	1585.919	2.75%	65.98%
20.0	1768.294	68.116	1654.034	2.62%	68.81%
21.0	1582.926	64.350	1718.385	2.48%	71.49%
22.0	1438.557	60.718	1779.103	2.34%	74.02%
23.0	1312.643	57.728	1836.83	2.22%	76.42%
24.0	1206.198	55.071	1891.901	2.12%	78.71%
25.0	1058.819	51.502	1943.403	1.98%	80.85%
26.0	985.521	48.257	1991.66	1.86%	82.86%
27.0	883.792	45.733	2037.393	1.76%	84.76%
28.0	790.619	42.393	2079.785	1.63%	86.52%
29.0	699.436	38.984	2118.769	1.50%	88.15%
30.0	599.055	35.059	2153.828	1.35%	89.60%
31.0	511.840	30.915	2184.743	1.19%	90.89%
32.0	432.090	27.042	2211.785	1.04%	92.02%
33.0	366.630	23.531	2235.316	0.91%	93.00%
34.0	278.568	19.526	2254.842	0.75%	93.81%
35.0	230.263	15.802	2270.644	0.61%	94.46%
36.0	193.016	13.477	2284.121	0.52%	95.03%
37.0	147.858	11.117	2295.239	0.43%	95.49%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	130.900	9.305	2304.543	0.36%	95.88%
39.0	100.046	7.883	2312.426	0.30%	96.20%
40.0	87.687	6.547	2318.974	0.25%	96.48%
41.0	78.193	5.907	2324.881	0.23%	96.72%
42.0	69.474	5.365	2330.246	0.21%	96.94%
43.0	62.490	4.888	2335.134	0.19%	97.15%
44.0	55.762	4.463	2339.597	0.17%	97.33%
45.0	50.079	4.068	2343.665	0.16%	97.50%
46.0	45.637	3.743	2347.408	0.14%	97.66%
47.0	41.636	3.471	2350.879	0.13%	97.80%
48.0	37.812	3.212	2354.091	0.12%	97.94%
49.0	34.764	2.980	2357.071	0.11%	98.06%
50.0	32.149	2.790	2359.861	0.11%	98.18%
51.0	29.790	2.621	2362.481	0.10%	98.29%
52.0	27.681	2.466	2364.947	0.09%	98.39%
53.0	25.874	2.330	2367.277	0.09%	98.48%
54.0	24.350	2.214	2369.491	0.09%	98.58%
55.0	22.832	2.106	2371.597	0.08%	98.66%
56.0	21.721	2.013	2373.61	0.08%	98.75%
57.0	20.605	1.935	2375.545	0.07%	98.83%
58.0	19.672	1.863	2377.408	0.07%	98.91%
59.0	18.811	1.799	2379.207	0.07%	98.98%
60.0	17.976	1.738	2380.945	0.07%	99.05%
61.0	17.227	1.680	2382.625	0.06%	99.12%
62.0	16.537	1.627	2384.252	0.06%	99.19%
63.0	15.611	1.564	2385.815	0.06%	99.26%
64.0	14.737	1.489	2387.305	0.06%	99.32%
65.0	13.890	1.417	2388.721	0.05%	99.38%
66.0	12.845	1.334	2390.055	0.05%	99.43%
67.0	12.083	1.253	2391.309	0.05%	99.48%
68.0	11.150	1.177	2392.486	0.05%	99.53%
69.0	10.164	1.087	2393.573	0.04%	99.58%
70.0	9.415	1.006	2394.578	0.04%	99.62%
71.0	8.614	0.932	2395.51	0.04%	99.66%
72.0	7.871	0.857	2396.367	0.03%	99.70%
73.0	7.227	0.790	2397.157	0.03%	99.73%
74.0	6.643	0.729	2397.886	0.03%	99.76%
75.0	6.097	0.673	2398.559	0.03%	99.79%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.572	0.619	2399.179	0.02%	99.81%
77.0	5.118	0.570	2399.749	0.02%	99.84%
78.0	4.665	0.524	2400.272	0.02%	99.86%
79.0	4.264	0.480	2400.752	0.02%	99.88%
80.0	3.883	0.439	2401.191	0.02%	99.90%
81.0	3.495	0.399	2401.59	0.02%	99.91%
82.0	3.173	0.362	2401.952	0.01%	99.93%
83.0	2.786	0.324	2402.276	0.01%	99.94%
84.0	2.503	0.288	2402.564	0.01%	99.95%
85.0	2.181	0.256	2402.82	0.01%	99.96%
86.0	1.905	0.223	2403.043	0.01%	99.97%
87.0	1.662	0.195	2403.238	0.01%	99.98%
88.0	1.459	0.171	2403.409	0.01%	99.99%
89.0	1.275	0.150	2403.559	0.01%	99.99%
90.0	1.196	0.135	2403.695	0.01%	100.00%

Zonal flux distribution table

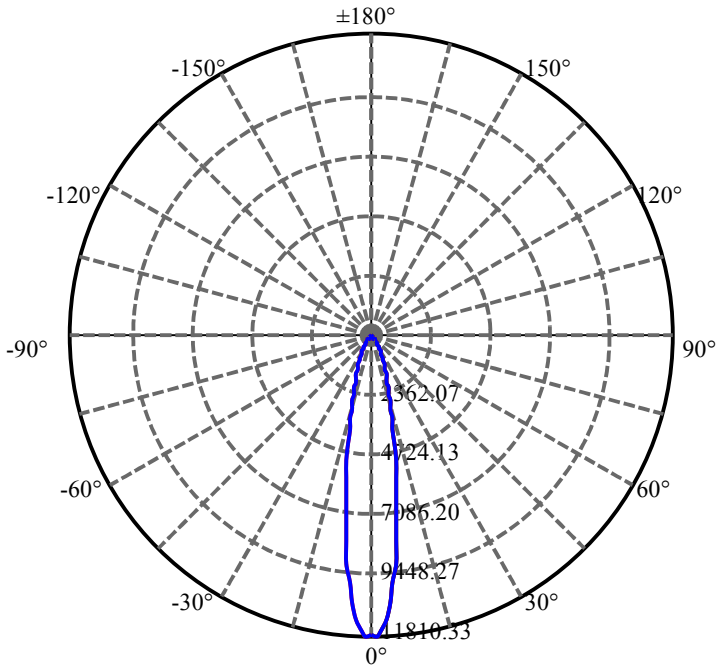
ZONAL LUMEN SUMMARY

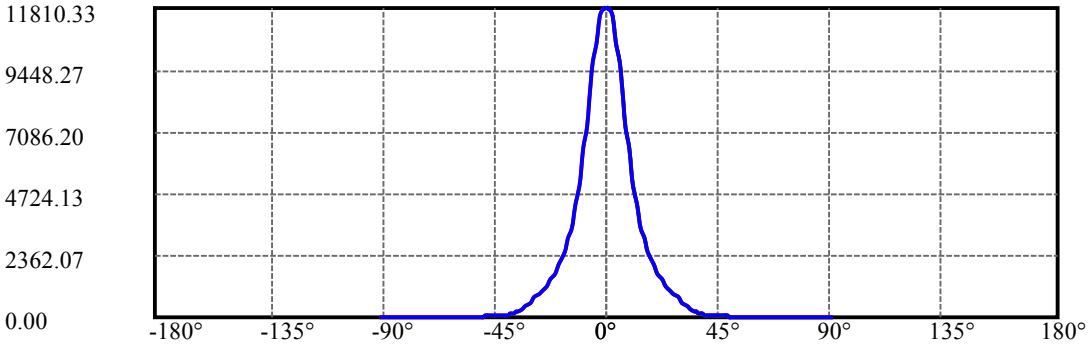
Zone	Lumens	%Lamp	%Fixt
0-30	2153.83	82.94%	89.60%
0-40	2318.97	89.29%	96.48%
0-60	2380.94	91.68%	99.05%
0-90	2403.56	92.55%	99.99%
0-120	2403.56	92.55%	99.99%
0-180	2403.69	92.56%	100.00%
60-90	22.61	0.87%	0.94%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.60	1922.96	74.05%	80.00%

ZONAL LUMEN SUMMARY

0-10	795.34
10-20	858.69
20-30	499.79
30-40	165.15
40-50	40.89
50-60	21.08
60-70	13.63
70-80	6.61
80-90	2.37
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):

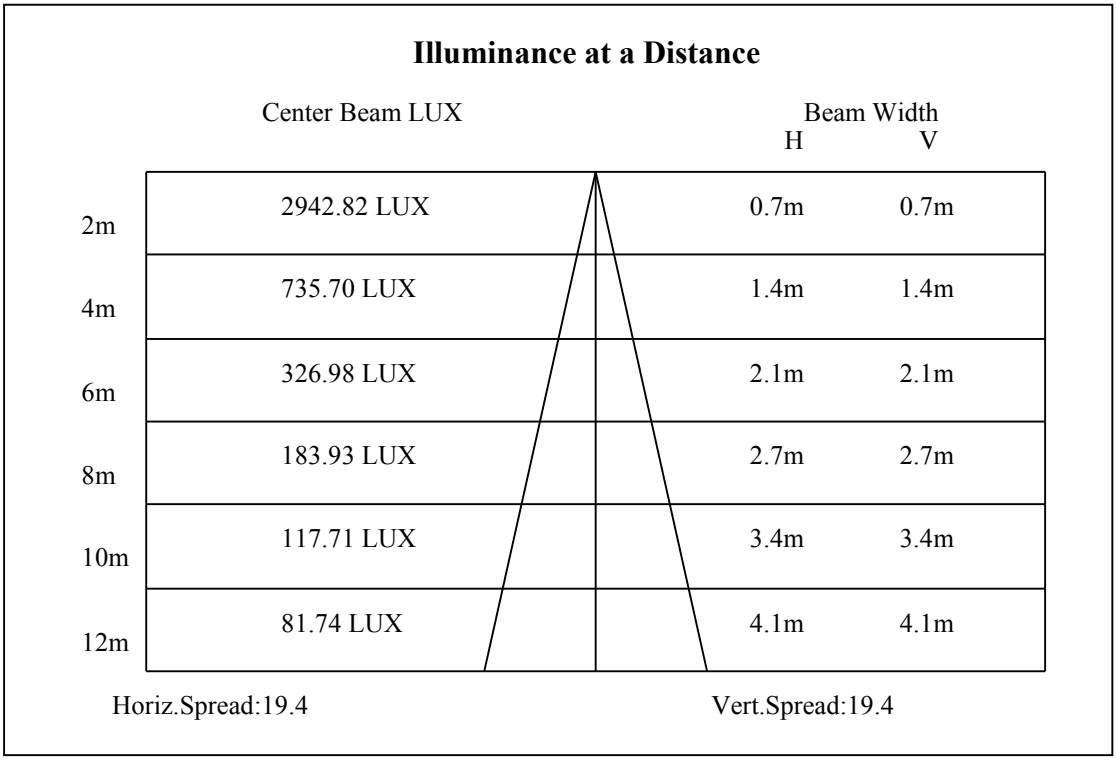
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:25.2 Right:23.2
:C90/270Left:25.2 Right:23.2

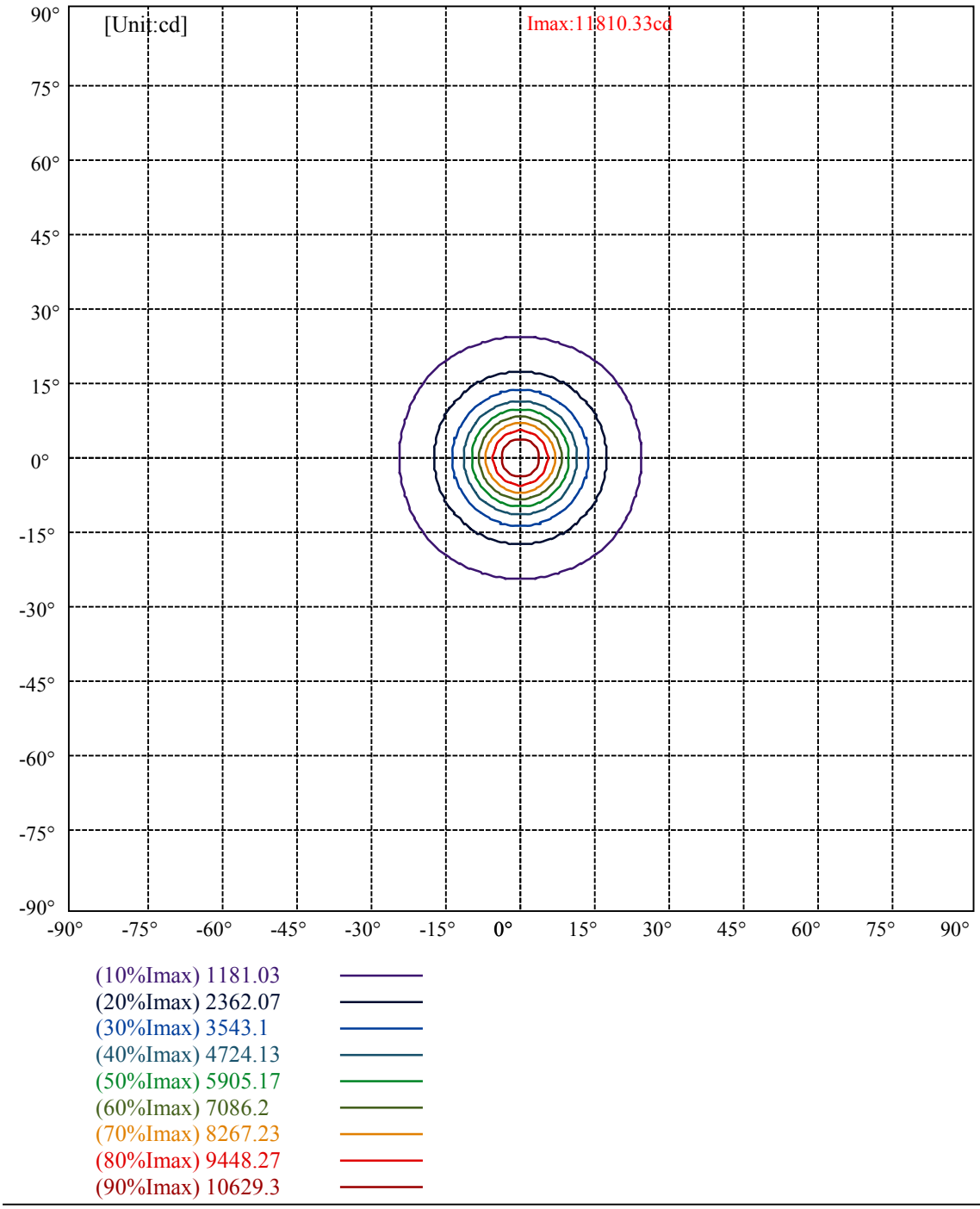
Beam Angle(50%Imax):C0/180Left:10.7 Right:8.7
:C90/270Left:10.7 Right:8.7

Lux distance Curve



Equipment: GMS 1800 Date: 2024/9/10 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.25

ISO-Intensity(V-H)

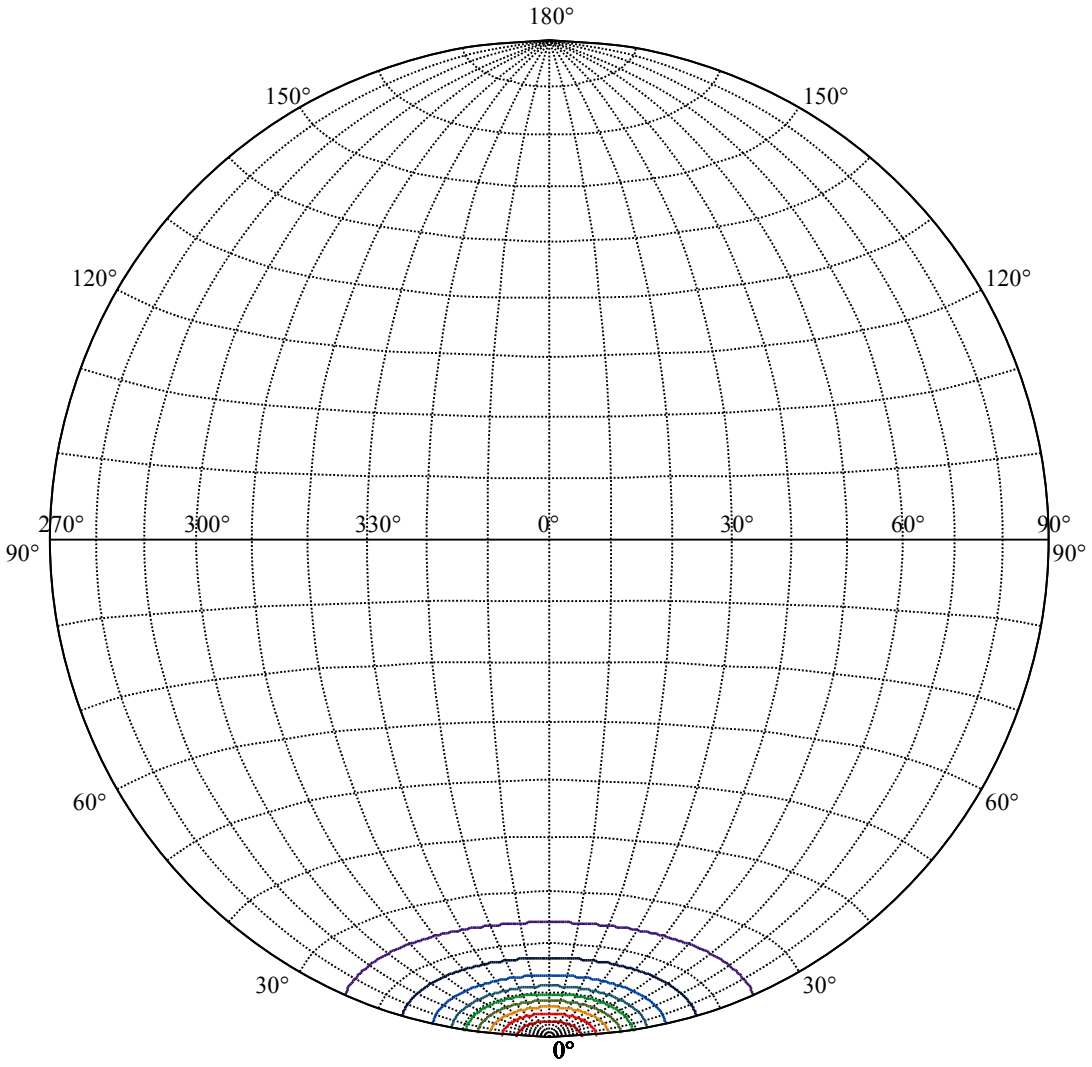


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/10
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web

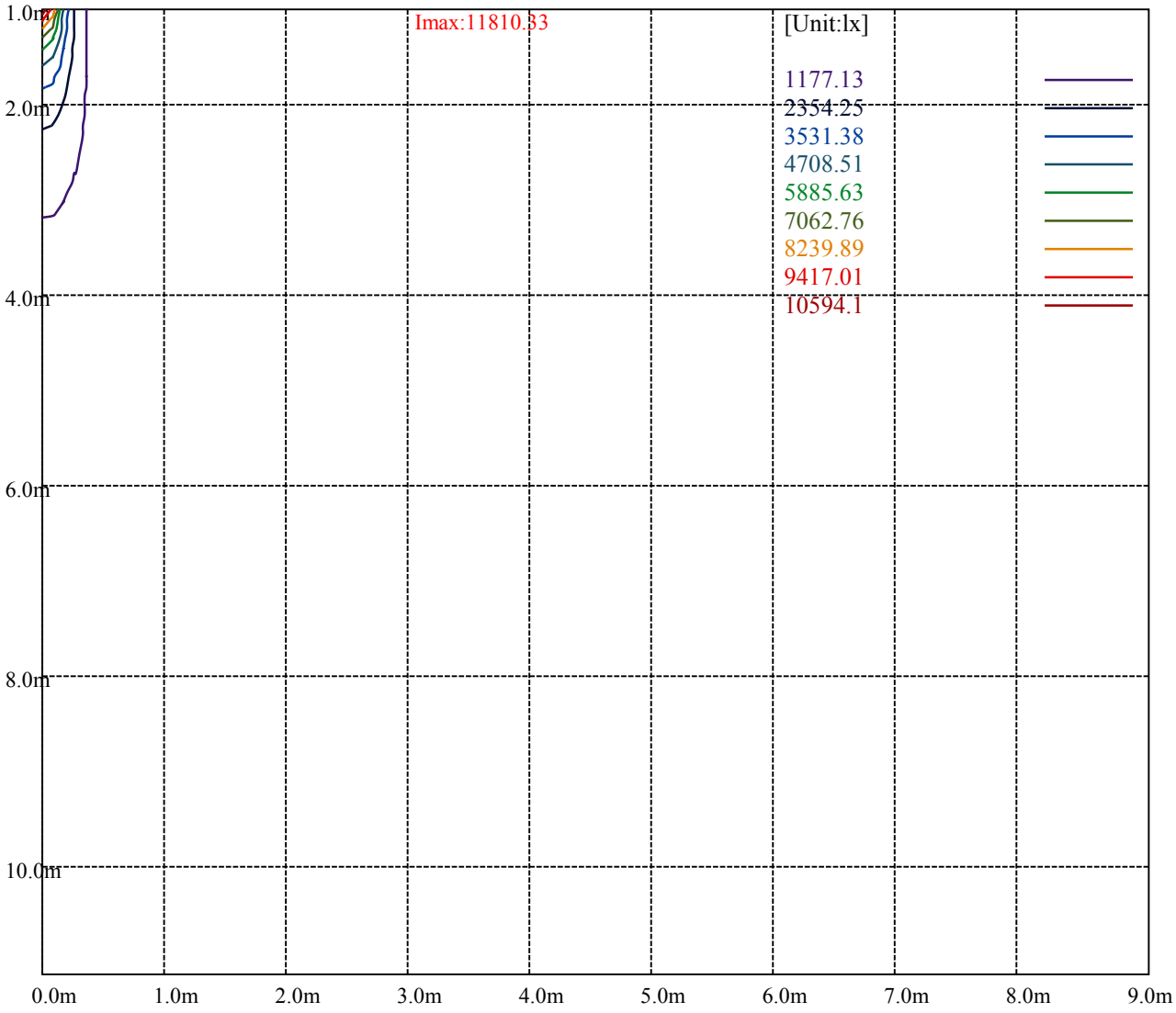


House [Unit:cd] Road

Imax:11810.33

(10%Imax) 1181.03
(20%Imax) 2362.07
(30%Imax) 3543.1
(40%Imax) 4724.13
(50%Imax) 5905.17
(60%Imax) 7086.2
(70%Imax) 8267.23
(80%Imax) 9448.27
(90%Imax) 10629.3

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/10
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2518-L

Luminance Limitting Curve(no luminous side)

Luminance Table

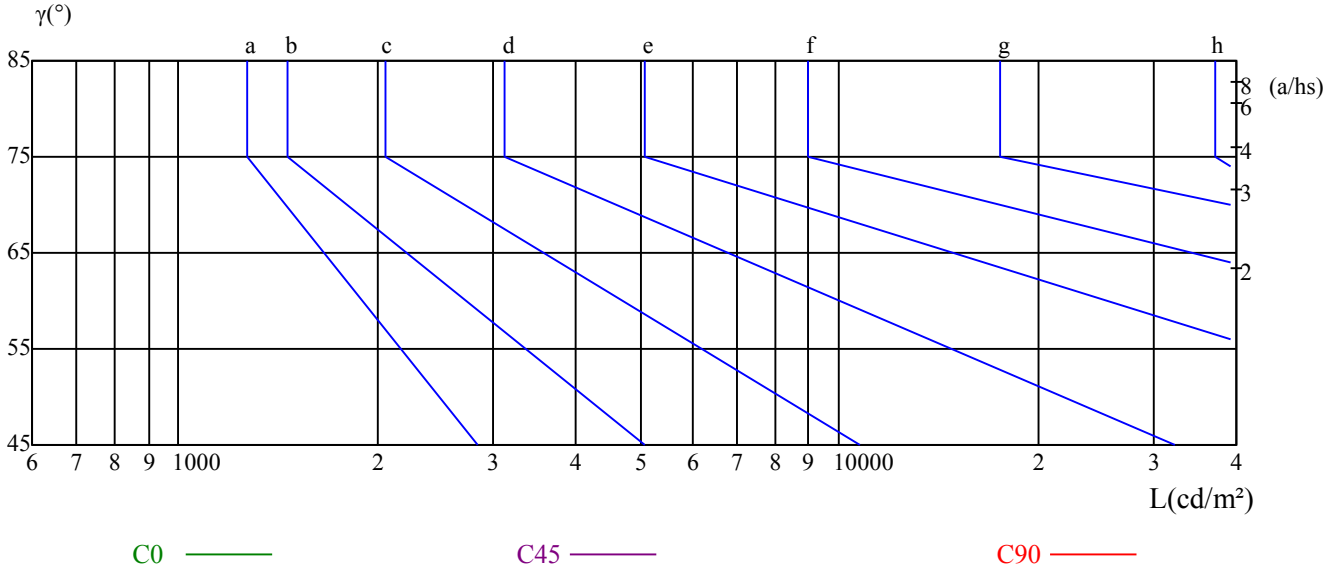
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

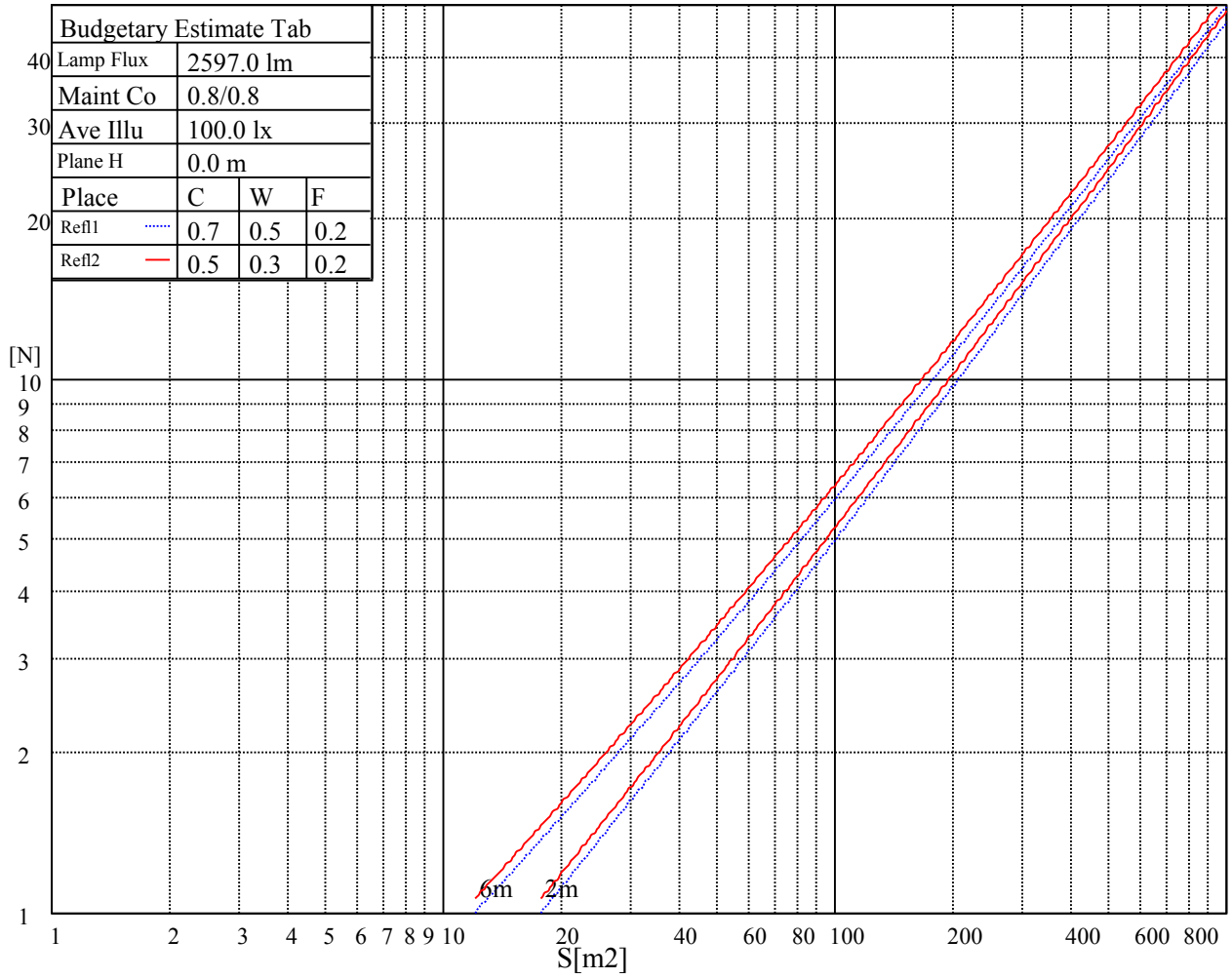
Date: 2024/9/10
Humidity(%): 60.0%

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

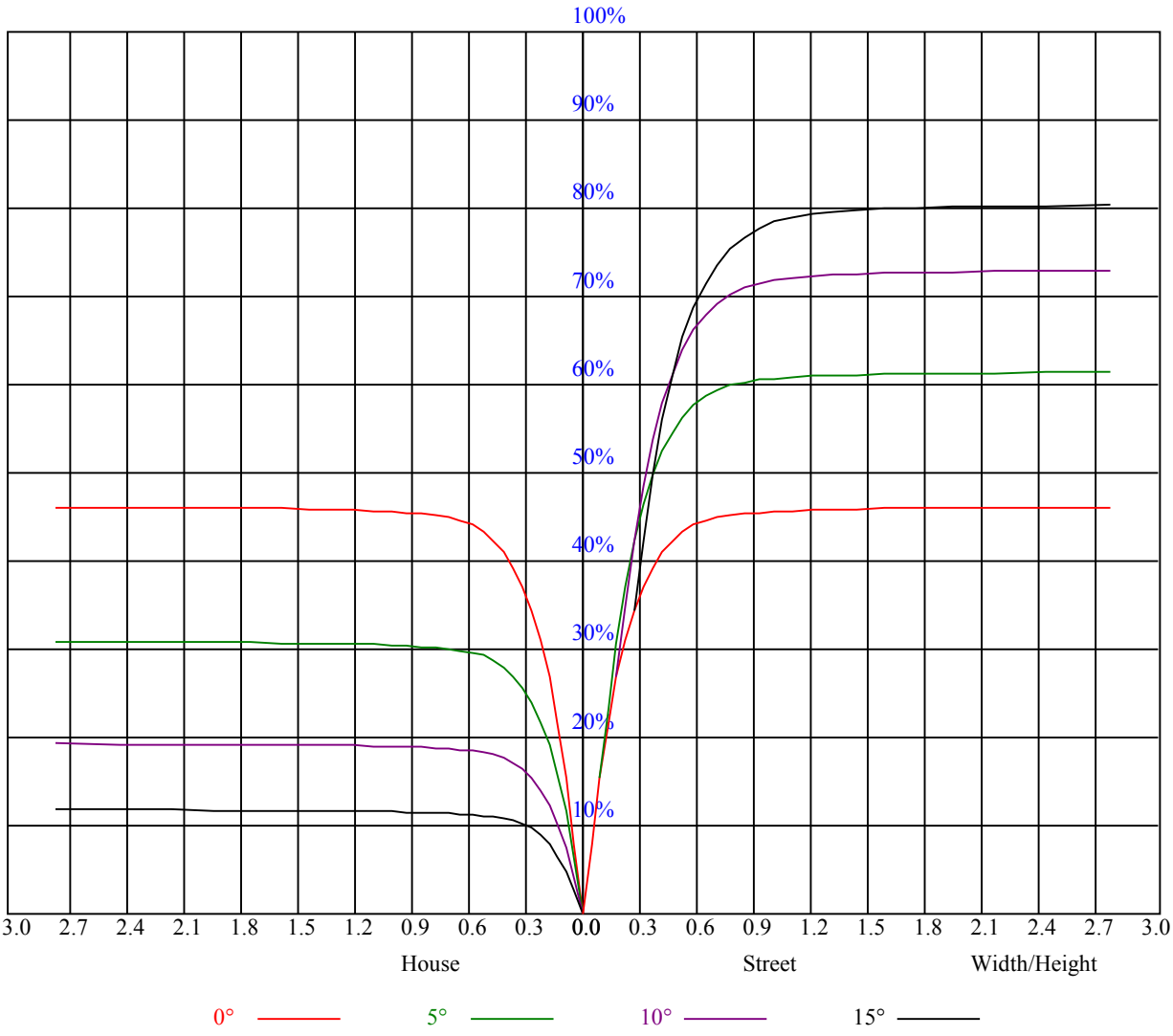
Date: 2024/9/10
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

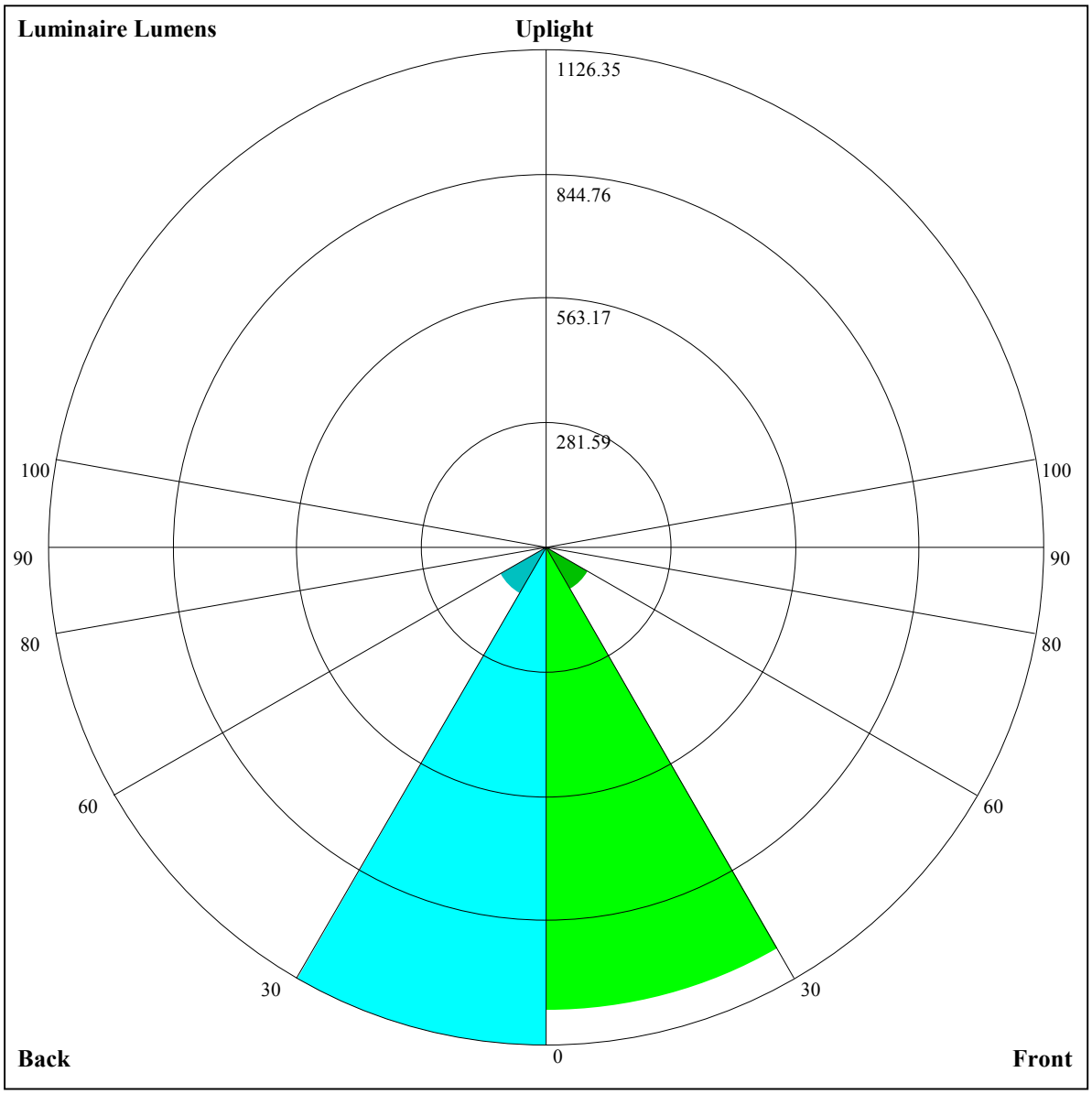
Utilization factor table for indoor luminaire

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	1.04	1.02	1.00	1.02	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89
2	0.99	0.96	0.93	0.97	0.94	0.92	0.94	0.92	0.90	0.91	0.90	0.88	0.89	0.88	0.86	0.85
3	0.94	0.90	0.87	0.93	0.89	0.87	0.90	0.87	0.85	0.88	0.86	0.84	0.86	0.84	0.83	0.81
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	0.83	0.81	0.79	0.78
5	0.86	0.82	0.79	0.85	0.81	0.78	0.84	0.80	0.78	0.82	0.79	0.77	0.81	0.78	0.76	0.75
6	0.83	0.78	0.75	0.82	0.78	0.75	0.81	0.77	0.75	0.79	0.76	0.74	0.78	0.76	0.74	0.73
7	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
8	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.69	0.68
9	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.72	0.69	0.67	0.66
10	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.70	0.67	0.65	0.64

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2024/9/10	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25



Luminaire Lumens:
FL=1047.22,FM=110.69,FH=9.95,FVH=1.25
BL=1126.35,BM=122.93,BH=10.27,BVH=1.29
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	11937.78	11093.95	11093.95	10380.78	9705.51	8564.43	7782.77	6838.33	5732.94
45.0	12110.51	11798.49	11219.05	10450.16	9553.13	8578.09	7552.92	6572.31	5669.71
90.0	10837.13	10837.13	9950.66	8976.20	7951.02	7116.38	5957.49	5265.50	4511.07
135.0	12199.65	11859.78	11341.62	10650.74	9809.42	9090.68	8104.51	6917.75	6160.01
180.0	11937.78	12071.50	12010.22	11781.78	11358.34	10751.03	9982.14	9107.40	8171.37
225.0	12110.51	12366.80	12377.94	12238.65	12038.07	11003.70	10691.69	9817.52	8867.56
270.0	10837.13	12110.51	12467.09	12600.81	12545.09	12338.94	11965.64	11369.48	10929.32
315.0	12199.65	12344.51	12294.37	12071.50	10703.93	10703.93	10208.64	9283.17	8318.17
360.0	11937.78	11093.95	11093.95	10380.78	9705.51	8564.43	7782.77	6838.33	5732.94

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5078.27	4355.64	3786.23	3338.82	2978.35	2683.58	2422.82	2207.20	2011.67
45.0	4861.82	4198.80	3663.92	3240.48	2900.61	2833.75	2833.75	2225.02	1929.20
90.0	3921.06	3441.90	3061.35	2745.97	2479.11	2244.00	2040.06	1853.98	1681.26
135.0	5296.41	4538.67	3925.79	3441.06	3067.76	2750.18	2750.18	2266.28	2058.45
180.0	7591.92	6254.73	5391.13	4917.54	4248.94	3708.49	3273.91	2922.90	2922.90
225.0	7883.59	6902.98	5954.70	5096.67	4386.81	3813.51	3344.39	2969.41	2655.19
270.0	9670.13	8656.10	8054.36	7023.61	6043.01	5162.69	4416.09	3814.36	3346.34
315.0	7332.00	6730.84	5781.98	4631.97	4238.06	3670.86	3231.28	2880.27	2596.11
360.0	5078.27	4355.64	3786.23	3338.82	2978.35	2683.58	2422.82	2207.20	2011.67

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1836.69	1672.33	1506.86	1357.01	1092.88	1073.43	1073.43	975.56	874.01
45.0	1813.30	1635.59	1472.33	1321.32	1194.85	1096.24	1003.73	907.33	808.20
90.0	1516.90	1366.99	1107.28	1088.57	1088.57	952.01	890.62	784.02	680.21
135.0	1869.02	1689.04	1591.54	1380.92	1299.03	1187.07	1090.67	990.38	888.41
180.0	2337.61	2121.95	1924.16	1751.44	1594.90	1442.79	1300.13	1183.13	1091.78
225.0	2491.94	2156.53	2033.38	1842.26	1674.59	1513.54	1361.42	1083.31	1083.31
270.0	2973.04	2844.89	2564.89	2149.81	1954.27	1781.55	1619.40	1466.18	1377.61
315.0	2350.38	2139.24	1945.92	1772.09	1609.36	1454.51	1310.17	1080.63	1080.63
360.0	1836.69	1672.33	1506.86	1357.01	1092.88	1073.43	1073.43	975.56	874.01

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	769.99	669.59	571.72	477.32	387.18	302.44	230.28	173.93	138.77
45.0	712.91	615.98	524.05	432.64	345.76	282.79	282.79	166.15	138.87
90.0	579.61	479.74	386.49	299.66	226.02	170.51	138.45	120.79	106.70
135.0	786.44	686.15	586.44	489.46	398.69	314.53	314.53	167.73	136.82
180.0	1036.06	902.92	844.94	743.55	642.16	544.07	447.15	355.74	303.97
225.0	1010.88	917.06	823.39	728.67	633.33	577.24	446.68	357.48	308.02
270.0	1189.28	1129.10	1035.48	897.87	838.27	737.98	639.90	544.07	448.83
315.0	985.18	924.42	822.97	723.26	623.34	527.15	433.27	342.65	260.13
360.0	769.99	669.59	571.72	477.32	387.18	302.44	230.28	173.93	138.77

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	122.52	109.59	98.03	87.57	78.00	70.01	63.13	57.82	51.35
45.0	123.26	109.54	97.40	86.20	76.43	68.17	61.03	54.51	49.09
90.0	94.24	82.94	72.80	64.23	56.82	50.62	45.26	41.21	36.43
135.0	119.26	110.49	97.56	81.89	75.85	66.91	59.66	53.19	47.83
180.0	303.97	148.23	121.16	106.44	94.88	86.47	75.11	66.96	61.39
225.0	232.22	173.25	136.87	117.85	104.81	93.46	83.26	74.53	66.70
270.0	357.43	306.18	306.18	152.12	121.79	106.49	93.93	85.10	73.38
315.0	191.22	142.65	117.21	104.07	92.93	83.42	74.43	66.60	59.92
360.0	122.52	109.59	98.03	87.57	78.00	70.01	63.13	57.82	51.35

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	47.46	43.05	39.68	36.53	33.48	31.12	29.01	26.96	25.18
45.0	44.05	40.05	37.00	33.59	30.96	28.80	27.44	25.49	23.86
90.0	33.27	30.85	28.33	26.28	24.39	22.60	21.24	20.03	18.98
135.0	43.10	39.00	35.85	32.90	30.33	28.23	26.12	24.23	22.65
180.0	53.98	49.72	45.26	40.89	37.37	34.64	31.96	29.70	27.86
225.0	59.87	54.14	49.51	44.57	40.47	37.63	34.43	31.75	29.70
270.0	64.70	58.87	52.35	46.62	41.94	37.63	34.32	31.96	29.44
315.0	54.19	49.41	45.10	41.10	39.16	36.53	33.80	31.33	29.33
360.0	47.46	43.05	39.68	36.53	33.48	31.12	29.01	26.96	25.18

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	23.76	22.44	21.24	20.13	19.34	18.61	17.77	16.87	16.19
45.0	22.44	21.08	20.03	19.13	18.40	17.66	16.93	16.29	15.40
90.0	18.08	17.40	16.82	16.24	15.66	15.24	14.56	13.67	12.98
135.0	21.39	20.13	19.50	18.24	17.77	17.03	16.40	15.82	15.14
180.0	25.91	24.18	22.76	21.60	20.34	19.24	18.55	17.87	17.35
225.0	28.44	25.76	24.70	23.39	21.97	20.76	19.76	19.24	18.66
270.0	27.33	25.97	24.49	23.23	22.18	21.24	20.08	19.13	18.40
315.0	27.44	25.70	24.23	22.86	21.71	20.71	19.76	18.92	18.19
360.0	23.76	22.44	21.24	20.13	19.34	18.61	17.77	16.87	16.19

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.24	14.14	13.04	11.93	11.25	9.93	9.41	8.57	7.83
45.0	14.40	13.46	12.51	11.41	10.51	9.67	8.88	8.20	7.52
90.0	12.09	11.20	10.35	9.51	8.94	8.25	7.31	6.94	6.41
135.0	14.24	13.40	12.56	11.51	10.57	9.72	8.88	8.09	7.41
180.0	16.14	15.45	14.93	13.56	13.09	12.19	11.14	10.30	9.46
225.0	17.66	16.71	15.87	14.93	13.93	12.93	11.98	10.88	9.88
270.0	17.77	16.93	16.19	15.35	14.88	13.93	12.56	12.04	10.99
315.0	17.35	16.61	15.66	14.56	13.51	12.56	11.14	10.30	9.41
360.0	15.24	14.14	13.04	11.93	11.25	9.93	9.41	8.57	7.83

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.25	6.68	6.15	5.62	5.20	4.84	4.31	3.94	3.57
45.0	7.15	6.52	5.89	5.52	5.05	4.57	4.26	3.84	3.42
90.0	5.89	5.47	4.99	4.57	4.15	3.78	3.42	3.05	2.68
135.0	6.78	6.20	5.68	5.20	4.78	4.52	3.99	3.57	3.31
180.0	8.57	7.88	7.31	6.68	6.10	5.57	5.15	4.73	4.31
225.0	8.99	8.09	7.78	6.99	6.25	5.73	5.26	4.89	4.52
270.0	10.04	9.25	8.30	7.67	7.10	6.52	5.99	5.52	5.10
315.0	8.30	7.73	7.04	6.52	5.94	5.41	4.94	4.57	4.15
360.0	7.25	6.68	6.15	5.62	5.20	4.84	4.31	3.94	3.57

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.21	2.89	2.52	2.26	1.94	1.73	1.47	1.31	1.10
45.0	3.05	2.73	2.31	2.05	1.79	1.47	1.26	1.10	1.05
90.0	2.37	2.16	1.79	1.58	1.42	1.21	1.00	1.00	1.00
135.0	2.94	2.68	2.31	2.05	1.73	1.47	1.31	1.05	0.89
180.0	3.89	3.47	3.05	2.79	2.37	2.10	1.84	1.52	1.31
225.0	3.99	3.68	3.31	2.94	2.52	2.21	1.94	1.68	1.42
270.0	4.68	4.31	3.84	3.47	3.15	2.79	2.52	2.26	1.89
315.0	3.84	3.47	3.15	2.89	2.52	2.26	1.94	1.73	1.52
360.0	3.21	2.89	2.52	2.26	1.94	1.73	1.47	1.31	1.10

Intensity data(cd)

C/γ(°)	90.0
0.0	1.10
45.0	1.00
90.0	1.00
135.0	0.89
180.0	1.16
225.0	1.26
270.0	1.73
315.0	1.42
360.0	1.10