NATA LIGHTING CO.,LTD.
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Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

Client:
LumCAT: 2-2561-L
Luminaire: 92.70.411.00
Report No: 2024910-B002
Ballast type: AC

Test No: 2024910-C002	Voltage(V): 33.610
LampCAT: NICHIA NFCWJ120B-V3	Current(A): 0.580
Lamp flux(lm): 2597.0	Power (W): 19.490
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2404.27, Efficiency(%): 92.58% , Luminous Efficacy(lm/W): 123.36
Central intensity(cd): 9874.194, Maximum intensity(cd): 9874.194
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=21.4
[C90/270]Total=21.4
Field angle(10%Imax): [C0/180]Total=55.4
[C90/270]Total=55.4
Maximum s/h(1/2): C0_180=0.36 C90_270=0.36
Maximum s/h(1/4): C0_180=0.40 C90_270=0.40
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.58%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.100%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9874.194	0.000	0	0.00%	0.00%
1.0	9832.400	9.429	9.429	0.36%	0.39%
2.0	9698.754	28.033	37.462	1.08%	1.56%
3.0	9452.137	45.803	83.265	1.76%	3.46%
4.0	9100.021	62.100	145.365	2.39%	6.05%
5.0	8657.346	76.391	221.756	2.94%	9.22%
6.0	8093.574	88.031	309.787	3.39%	12.88%
7.0	7424.072	96.318	406.104	3.71%	16.89%
8.0	6724.275	101.257	507.361	3.90%	21.10%
9.0	6050.877	103.536	610.897	3.99%	25.41%
10.0	5341.743	103.099	713.996	3.97%	29.70%
11.0	4765.494	100.992	814.988	3.89%	33.90%
12.0	4201.505	98.022	913.01	3.77%	37.97%
13.0	3740.183	94.248	1007.258	3.63%	41.89%
14.0	3325.590	90.441	1097.699	3.48%	45.66%
15.0	2954.223	86.212	1183.911	3.32%	49.24%
16.0	2647.369	82.079	1265.99	3.16%	52.66%
17.0	2377.573	78.252	1344.242	3.01%	55.91%
18.0	2158.952	74.797	1419.04	2.88%	59.02%
19.0	1939.221	71.300	1490.34	2.75%	61.99%
20.0	1778.065	68.037	1558.376	2.62%	64.82%
21.0	1629.030	65.423	1623.799	2.52%	67.54%
22.0	1503.439	62.948	1686.748	2.42%	70.16%
23.0	1393.195	60.779	1747.527	2.34%	72.68%
24.0	1284.759	58.550	1806.077	2.25%	75.12%
25.0	1191.322	56.301	1862.377	2.17%	77.46%
26.0	1115.547	54.454	1916.831	2.10%	79.73%
27.0	1046.178	52.887	1969.718	2.04%	81.93%
28.0	964.561	50.908	2020.626	1.96%	84.04%
29.0	867.794	47.940	2068.565	1.85%	86.04%
30.0	773.470	44.314	2112.879	1.71%	87.88%
31.0	670.067	40.172	2153.051	1.55%	89.55%
32.0	586.276	35.993	2189.043	1.39%	91.05%
33.0	491.275	31.745	2220.789	1.22%	92.37%
34.0	403.601	27.082	2247.87	1.04%	93.49%
35.0	328.305	22.730	2270.6	0.88%	94.44%
36.0	264.350	18.870	2289.471	0.73%	95.23%
37.0	203.699	15.265	2304.736	0.59%	95.86%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	139.231	11.447	2316.182	0.44%	96.34%
39.0	93.581	7.947	2324.129	0.31%	96.67%
40.0	73.831	5.839	2329.968	0.22%	96.91%
41.0	60.375	4.779	2334.747	0.18%	97.11%
42.0	52.208	4.090	2338.837	0.16%	97.28%
43.0	47.280	3.685	2342.522	0.14%	97.43%
44.0	42.346	3.383	2345.905	0.13%	97.57%
45.0	38.410	3.104	2349.009	0.12%	97.70%
46.0	34.987	2.870	2351.879	0.11%	97.82%
47.0	32.392	2.680	2354.559	0.10%	97.93%
48.0	30.223	2.531	2357.09	0.10%	98.04%
49.0	28.390	2.407	2359.497	0.09%	98.14%
50.0	26.912	2.306	2361.803	0.09%	98.23%
51.0	25.598	2.222	2364.024	0.09%	98.33%
52.0	24.580	2.153	2366.177	0.08%	98.42%
53.0	23.752	2.102	2368.28	0.08%	98.50%
54.0	23.167	2.068	2370.348	0.08%	98.59%
55.0	22.668	2.046	2372.394	0.08%	98.67%
56.0	22.405	2.037	2374.431	0.08%	98.76%
57.0	22.221	2.040	2376.471	0.08%	98.84%
58.0	22.149	2.052	2378.523	0.08%	98.93%
59.0	21.991	2.064	2380.586	0.08%	99.01%
60.0	21.459	2.053	2382.639	0.08%	99.10%
61.0	20.513	2.003	2384.642	0.08%	99.18%
62.0	19.172	1.912	2386.554	0.07%	99.26%
63.0	17.050	1.762	2388.316	0.07%	99.34%
64.0	15.131	1.579	2389.895	0.06%	99.40%
65.0	13.022	1.393	2391.288	0.05%	99.46%
66.0	11.262	1.212	2392.5	0.05%	99.51%
67.0	10.000	1.069	2393.569	0.04%	99.55%
68.0	9.100	0.968	2394.536	0.04%	99.60%
69.0	8.311	0.888	2395.425	0.03%	99.63%
70.0	7.700	0.822	2396.247	0.03%	99.67%
71.0	7.175	0.769	2397.016	0.03%	99.70%
72.0	6.715	0.722	2397.738	0.03%	99.73%
73.0	6.229	0.677	2398.415	0.03%	99.76%
74.0	5.815	0.633	2399.048	0.02%	99.78%
75.0	5.375	0.591	2399.639	0.02%	99.81%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.947	0.548	2400.187	0.02%	99.83%
77.0	4.553	0.507	2400.694	0.02%	99.85%
78.0	4.166	0.467	2401.161	0.02%	99.87%
79.0	3.798	0.428	2401.588	0.02%	99.89%
80.0	3.515	0.394	2401.983	0.02%	99.90%
81.0	3.180	0.362	2402.345	0.01%	99.92%
82.0	2.838	0.326	2402.671	0.01%	99.93%
83.0	2.562	0.294	2402.965	0.01%	99.95%
84.0	2.267	0.263	2403.228	0.01%	99.96%
85.0	2.024	0.234	2403.462	0.01%	99.97%
86.0	1.774	0.208	2403.669	0.01%	99.98%
87.0	1.551	0.182	2403.851	0.01%	99.98%
88.0	1.367	0.160	2404.011	0.01%	99.99%
89.0	1.170	0.139	2404.15	0.01%	100.00%
90.0	1.018	0.120	2404.27	0.00%	100.00%

Zonal flux distribution table

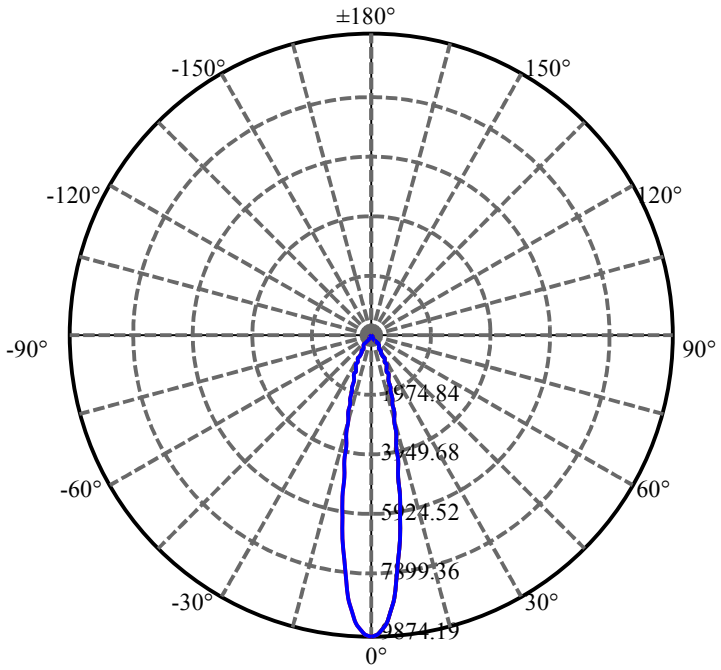
ZONAL LUMEN SUMMARY

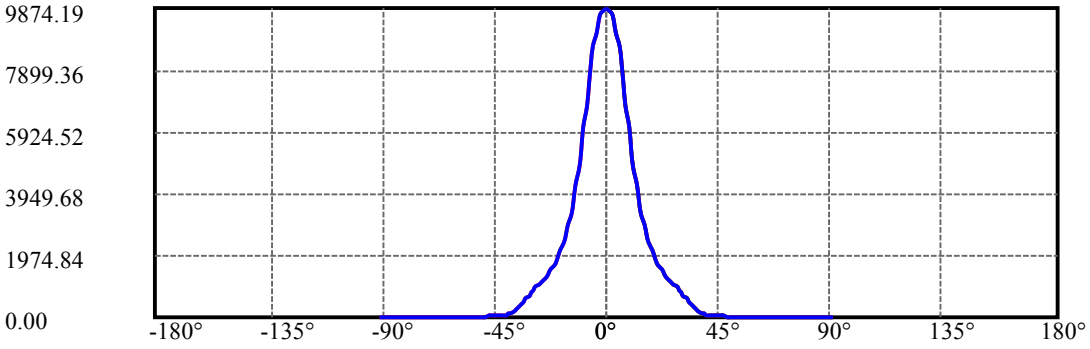
Zone	Lumens	%Lamp	%Fixt
0-30	2112.88	81.36%	87.88%
0-40	2329.97	89.72%	96.91%
0-60	2382.64	91.75%	99.10%
0-90	2404.15	92.57%	100.00%
0-120	2404.15	92.57%	100.00%
0-180	2404.27	92.58%	100.00%
60-90	21.51	0.83%	0.89%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.12	1923.42	74.06%	80.00%

ZONAL LUMEN SUMMARY

0-10	714.00
10-20	844.38
20-30	554.50
30-40	217.09
40-50	31.84
50-60	20.84
60-70	13.61
70-80	5.74
80-90	2.17
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:27.7 Right:27.7
:C90/270Left:27.7 Right:27.7

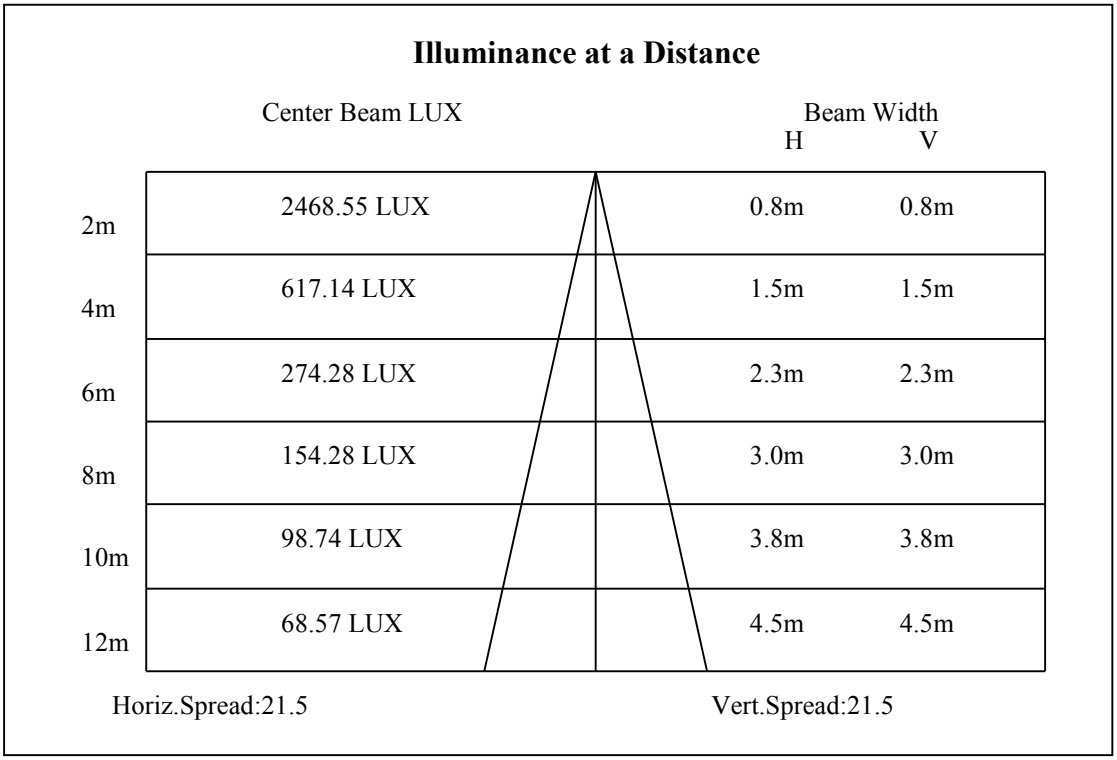
Beam Angle(50%Imax):C0/180Left:10.7 Right:10.7
:C90/270Left:10.7 Right:10.7

Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25

Lux distance Curve

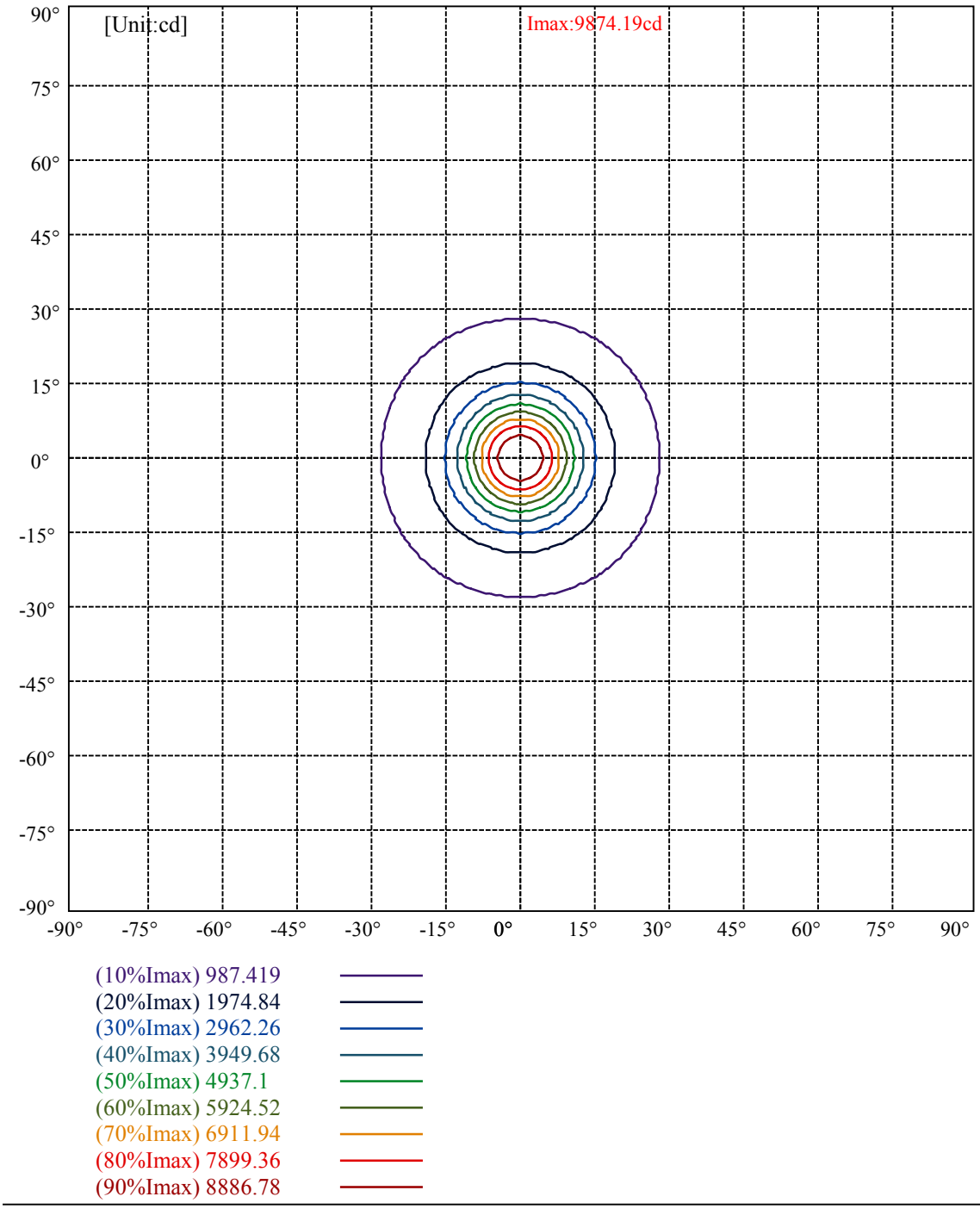


Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25

ISO-Intensity(V-H)



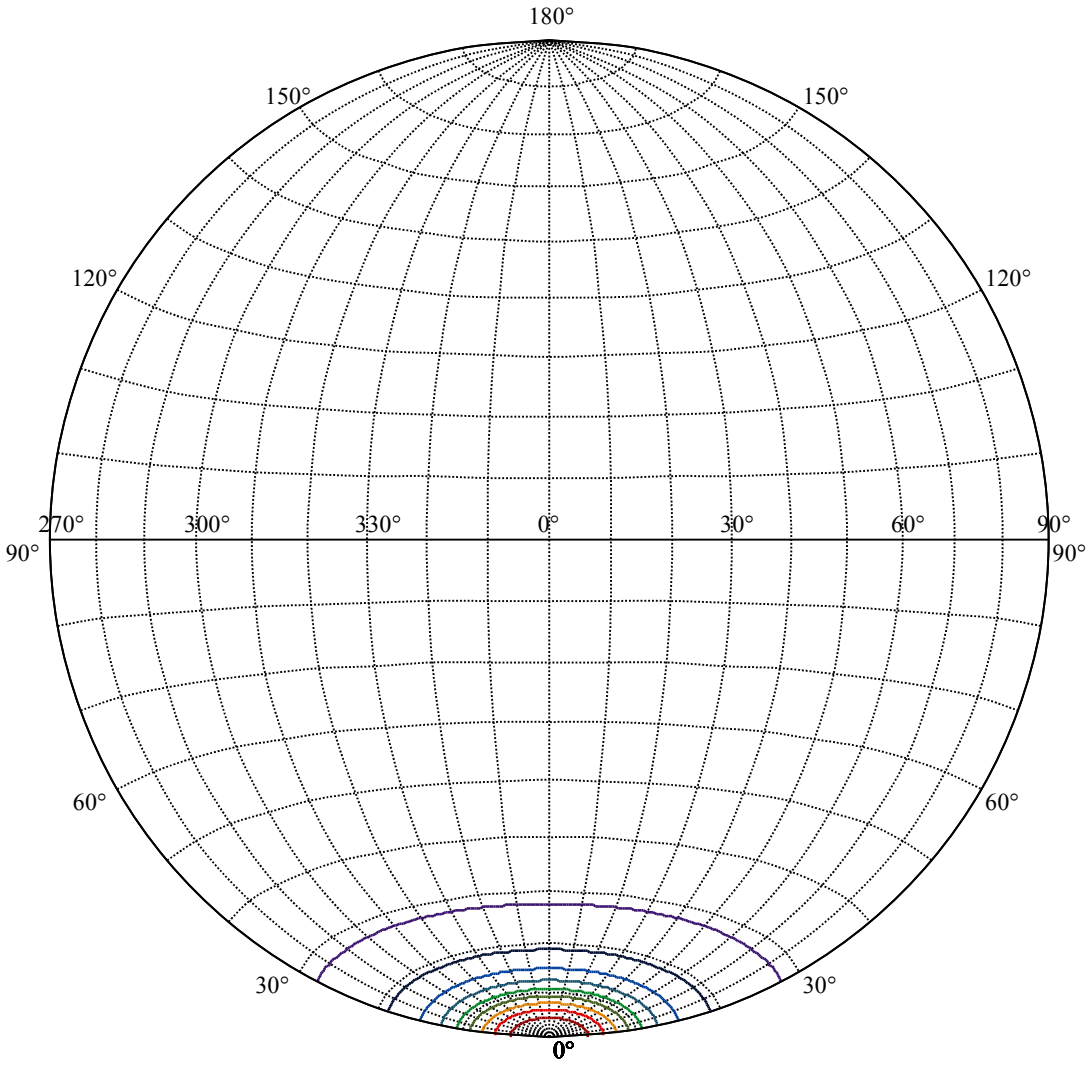
(10%Imax) 987.419
(20%Imax) 1974.84
(30%Imax) 2962.26
(40%Imax) 3949.68
(50%Imax) 4937.1
(60%Imax) 5924.52
(70%Imax) 6911.94
(80%Imax) 7899.36
(90%Imax) 8886.78

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:9874.19

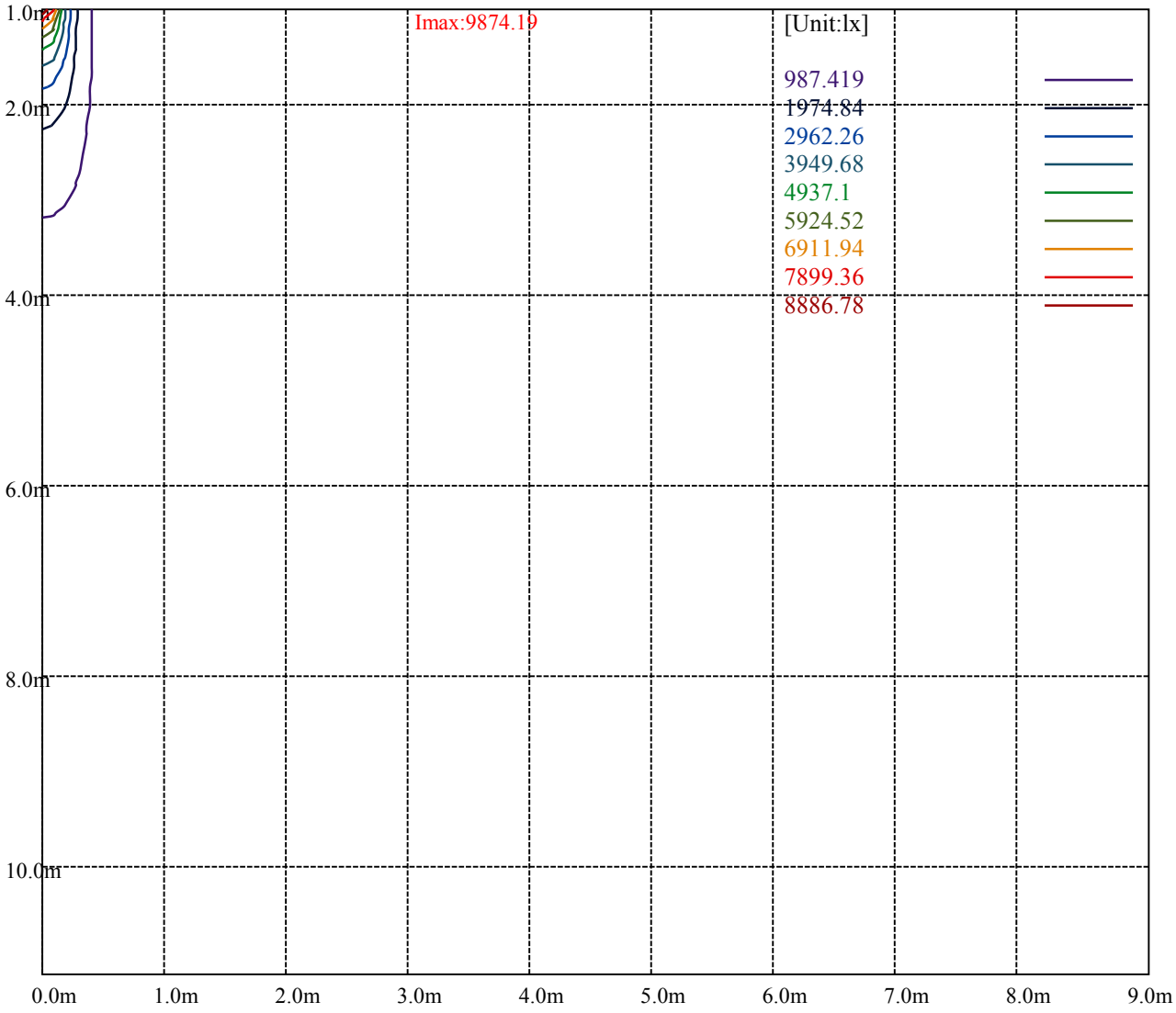
(10%Imax) 987.419
(20%Imax) 1974.84
(30%Imax) 2962.26
(40%Imax) 3949.68
(50%Imax) 4937.1
(60%Imax) 5924.52
(70%Imax) 6911.94
(80%Imax) 7899.36
(90%Imax) 8886.78

Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25

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 2-2561-L

Luminance Limitting Curve(no luminous side)

Luminance Table

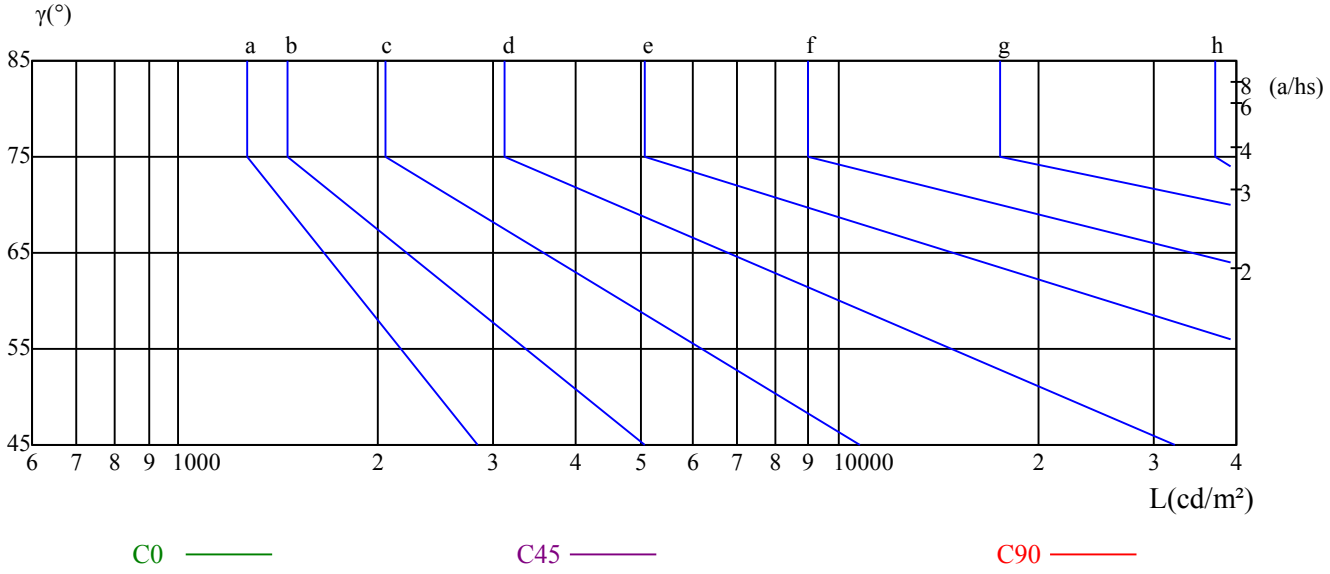
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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%

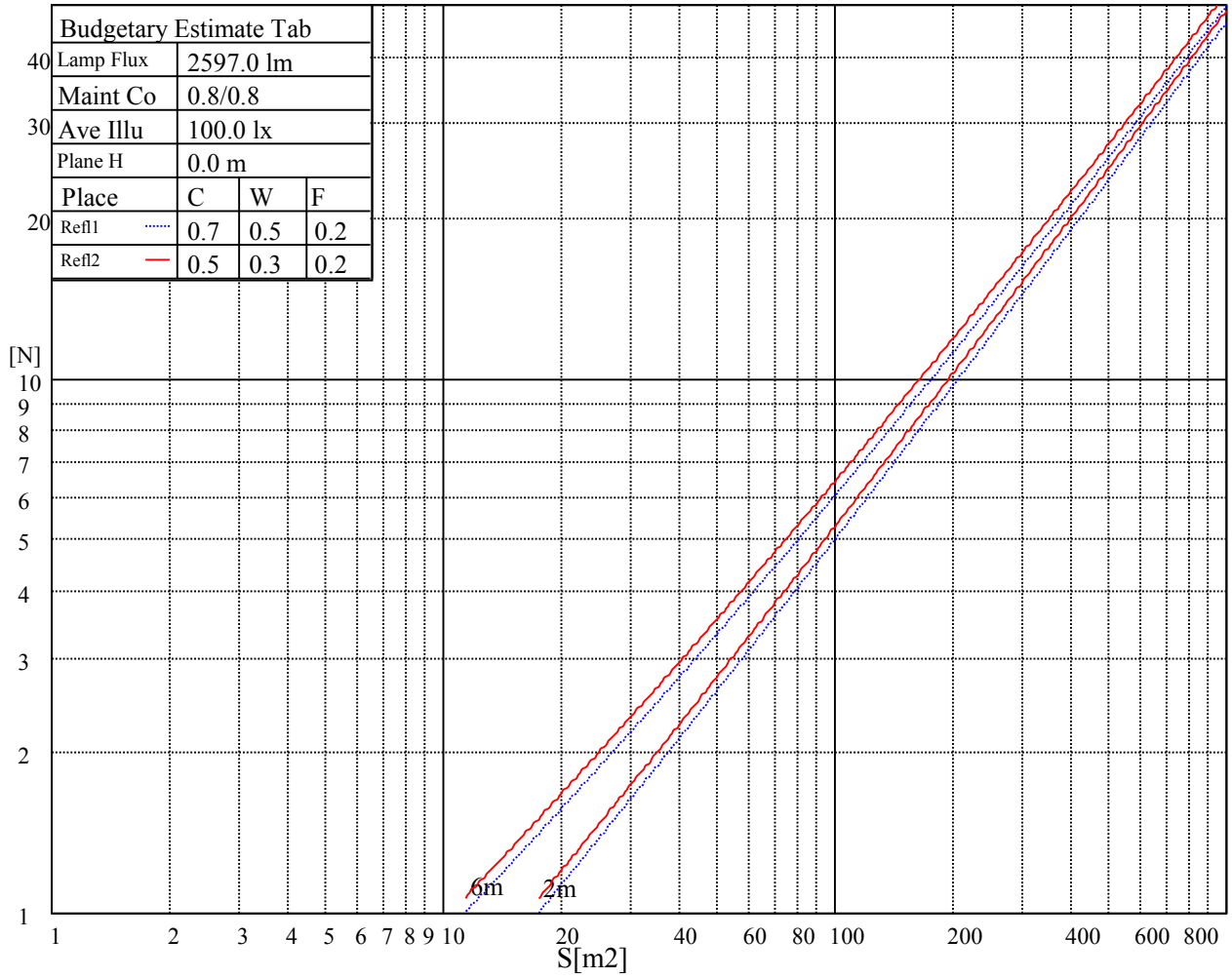
Operator: NT
Distance(m): 7.25

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

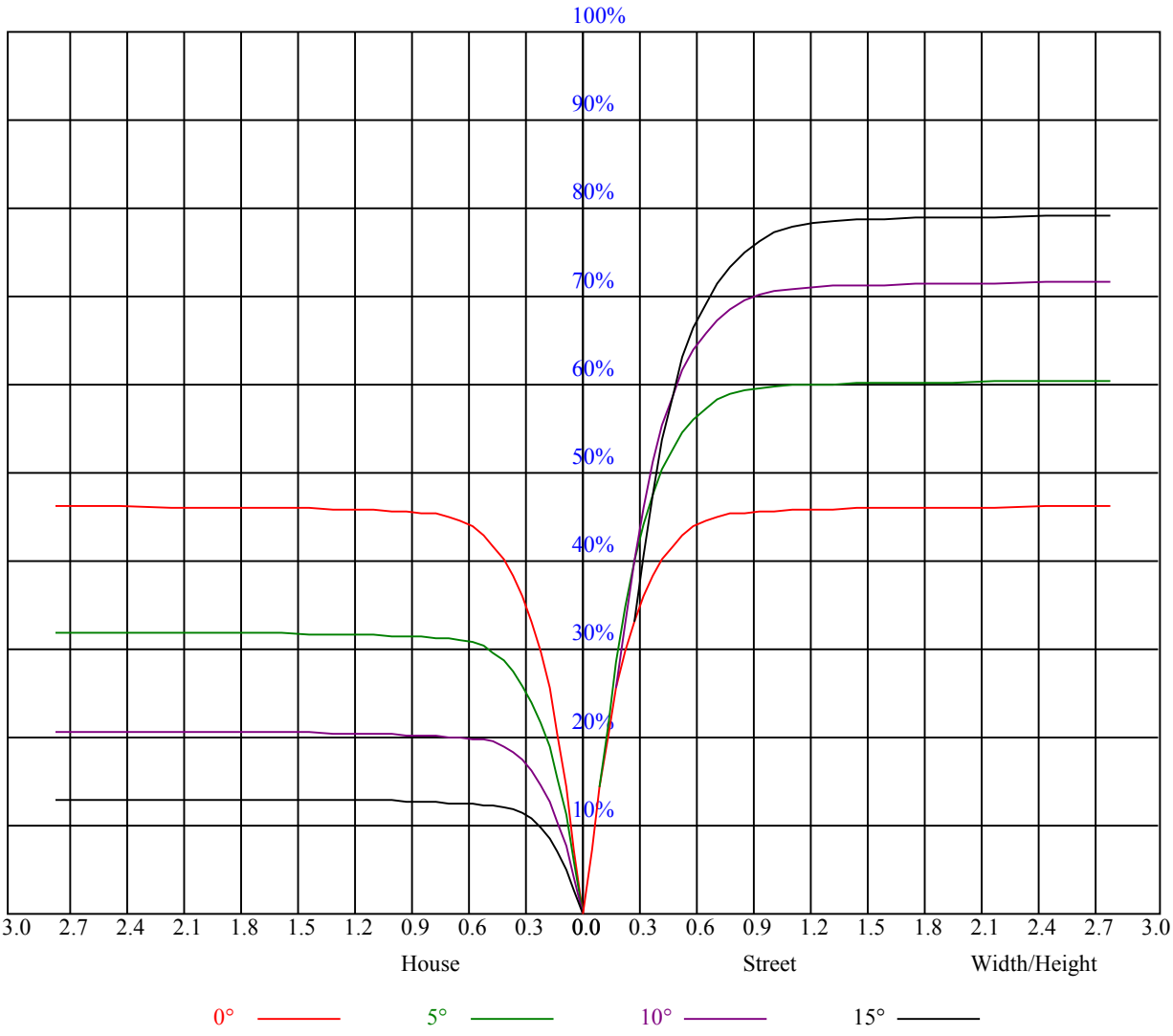
Date: 2024/9/10
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

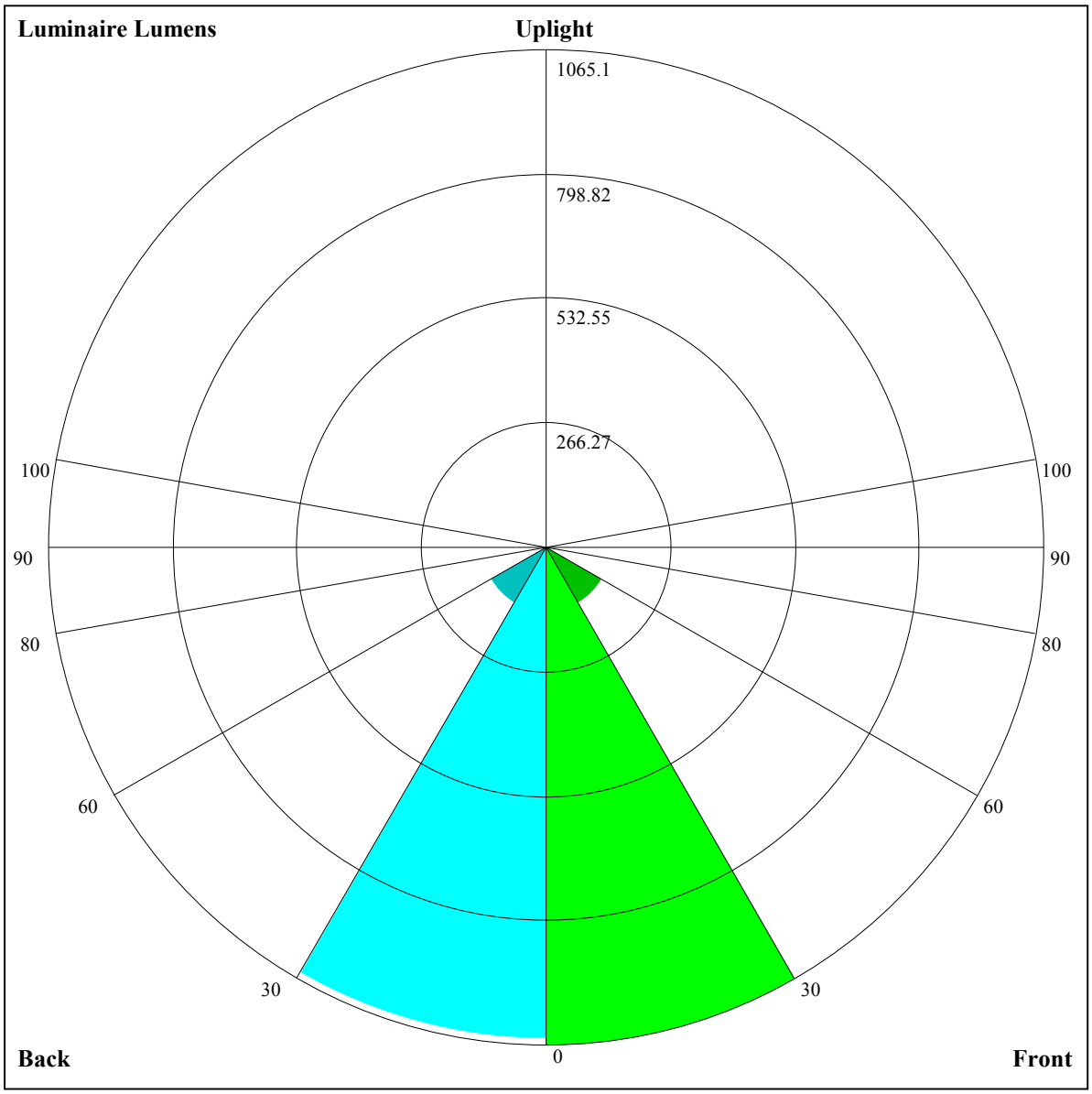
Utilization factor table for indoor luminaire

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	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.88
2	0.98	0.95	0.92	0.97	0.94	0.91	0.94	0.91	0.89	0.91	0.89	0.88	0.89	0.87	0.86	0.84
3	0.93	0.89	0.87	0.92	0.89	0.86	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.81
4	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.82	0.79	0.83	0.80	0.78	0.77
5	0.85	0.81	0.77	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.74
6	0.81	0.77	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
7	0.78	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.68
8	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
9	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
10	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.62

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=1065.1,FM=137.3,FH=9.54,FVH=1.16
BL=1051.38,BM=136.17,BH=9.65,BVH=1.14
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	9931.74	9900.51	9769.58	9518.86	9134.99	8587.82	7932.05	7198.85	6441.64
45.0	9886.01	9876.55	9819.15	9594.08	9265.35	8899.30	8308.71	7606.11	6870.65
90.0	9772.37	9560.07	9222.46	8749.40	8147.13	7460.14	6739.20	6024.35	5330.10
135.0	9906.66	9737.26	9449.21	9042.48	8525.43	7914.23	7515.86	6579.83	5902.87
180.0	9931.74	9873.76	9740.62	9509.92	9166.74	8894.26	8362.22	7748.76	7071.81
225.0	9886.01	9824.19	9670.40	9418.57	9048.63	8530.47	7910.92	7222.77	6505.19
270.0	9772.37	9891.05	9930.05	9888.27	9820.30	9624.72	9136.62	8833.55	8221.25
315.0	9906.66	9995.81	9988.56	9895.52	9691.58	9347.82	8843.01	8178.36	7450.68
360.0	9931.74	9900.51	9769.58	9518.86	9134.99	8587.82	7932.05	7198.85	6441.64

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5701.19	5003.63	4395.17	3887.05	3440.22	3051.88	2706.97	2409.47	2201.11
45.0	6113.49	5387.50	4727.26	4157.85	3683.16	3266.39	2907.02	2601.69	2332.04
90.0	4699.40	4148.39	3680.37	3278.64	2923.16	2614.51	2348.18	2122.53	1927.52
135.0	5503.40	4657.62	4339.45	3852.52	3429.07	3053.57	2736.51	2453.46	2216.14
180.0	6378.67	5687.79	5037.06	4459.82	3961.16	3536.04	3158.85	2832.33	2544.29
225.0	5801.48	5132.31	4536.14	4016.30	3575.04	3182.82	2842.37	2543.76	2283.00
270.0	7525.90	6780.40	6036.59	5334.57	4705.55	4160.64	3694.83	3276.96	2913.12
315.0	6683.48	5936.30	5371.89	4625.29	4204.11	3738.88	3239.06	2938.77	2603.37
360.0	5701.19	5003.63	4395.17	3887.05	3440.22	3051.88	2706.97	2409.47	2201.11

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1979.35	1757.58	1635.59	1506.86	1400.42	1300.13	1202.10	1097.45	1063.92
45.0	2101.34	1902.45	1738.08	1598.22	1476.80	1372.04	1281.79	1199.84	1152.49
90.0	1826.13	1674.01	1547.55	1436.11	1341.92	1260.03	1086.10	1086.10	991.28
135.0	2014.46	1842.26	1695.72	1563.16	1445.00	1339.71	1248.36	1167.57	1082.31
180.0	2296.35	2080.74	1891.88	1730.30	1594.33	1468.96	1365.36	1270.07	1218.82
225.0	2149.28	1874.59	1777.66	1632.80	1509.65	1397.64	1301.82	1104.23	1067.75
270.0	2597.22	2320.32	2082.95	1879.06	1711.33	1572.04	1452.83	1351.96	1280.63
315.0	2307.49	2061.82	1855.09	1685.73	1548.07	1435.01	1339.71	1253.35	1067.18
360.0	1979.35	1757.58	1635.59	1506.86	1400.42	1300.13	1202.10	1097.45	1063.92

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	976.09	880.84	784.13	686.20	589.07	534.93	410.51	359.74	278.42
45.0	1067.81	975.35	878.37	779.19	680.58	583.08	490.62	402.58	321.79
90.0	893.25	791.91	687.57	586.33	491.25	399.63	347.60	237.37	196.27
135.0	988.70	887.31	785.91	725.73	586.44	529.04	437.11	350.75	286.10
180.0	1138.03	1052.77	959.16	856.66	755.80	658.29	561.89	469.96	380.82
225.0	1049.67	954.17	854.93	755.17	654.88	577.50	466.81	381.03	316.11
270.0	1188.70	1125.78	1036.64	941.92	843.26	745.23	647.15	550.22	458.29
315.0	1067.18	1048.36	955.64	856.56	759.27	662.50	568.52	477.16	388.65
360.0	976.09	880.84	784.13	686.20	589.07	534.93	410.51	359.74	278.42

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	183.44	149.59	103.71	75.64	63.23	55.77	49.20	43.99	39.47
45.0	290.04	274.95	125.73	88.36	67.81	59.66	50.35	45.47	40.37
90.0	138.61	82.31	69.80	58.76	50.67	44.68	39.68	35.43	31.85
135.0	286.10	127.67	85.78	64.60	55.30	48.41	43.36	38.69	34.95
180.0	299.50	299.50	148.75	103.55	76.43	67.54	56.29	52.88	47.88
225.0	240.68	175.61	123.68	87.36	69.38	60.18	53.25	47.99	43.05
270.0	369.67	287.78	287.78	151.64	121.63	76.22	63.55	58.98	52.09
315.0	306.75	232.17	168.62	118.74	86.20	70.54	61.97	54.82	49.09
360.0	183.44	149.59	103.71	75.64	63.23	55.77	49.20	43.99	39.47

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	35.80	33.01	30.80	28.96	27.39	26.18	25.12	24.23	23.76
45.0	36.16	32.69	30.12	28.02	26.18	24.55	23.29	22.23	21.34
90.0	29.01	26.91	25.12	23.60	22.34	21.29	20.50	19.97	19.61
135.0	32.90	29.54	28.28	26.49	24.60	24.02	23.13	22.44	22.02
180.0	43.21	39.63	36.58	34.22	32.12	30.28	28.80	27.39	26.33
225.0	39.21	35.85	33.27	31.17	29.44	27.96	26.54	25.55	24.65
270.0	46.89	42.31	38.37	35.22	32.69	30.64	28.91	27.39	26.07
315.0	44.10	39.95	36.58	34.11	32.38	30.38	28.49	27.44	26.23
360.0	35.80	33.01	30.80	28.96	27.39	26.18	25.12	24.23	23.76

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	23.39	23.18	22.97	22.92	22.97	22.71	21.87	20.50	18.55
45.0	20.81	20.60	20.55	20.66	20.97	21.34	21.39	20.66	19.82
90.0	19.45	19.34	19.24	19.45	19.45	19.13	18.13	16.56	14.51
135.0	21.81	21.92	22.23	22.44	22.60	22.55	21.60	19.82	17.40
180.0	25.55	24.81	24.44	24.23	24.23	24.02	23.50	22.65	21.92
225.0	24.23	23.23	23.13	22.76	22.44	22.18	21.76	21.18	19.97
270.0	24.97	24.02	23.07	22.34	21.87	21.60	21.29	21.18	20.66
315.0	25.12	24.23	23.60	22.97	22.65	22.39	22.13	21.55	20.55
360.0	23.39	23.18	22.97	22.92	22.97	22.71	21.87	20.50	18.55

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.82	13.30	11.30	9.88	8.99	8.30	7.62	7.15	6.62
45.0	17.14	15.72	13.14	10.88	9.36	8.46	7.73	7.10	6.68
90.0	12.35	10.51	9.25	8.36	7.67	7.15	6.68	6.25	5.78
135.0	14.82	12.35	10.83	10.09	8.94	8.36	7.99	7.52	6.99
180.0	19.08	17.40	14.82	11.98	11.14	10.04	9.25	8.57	7.94
225.0	18.19	15.93	13.51	11.62	10.30	9.36	8.62	7.94	7.41
270.0	19.87	18.71	16.29	14.61	12.35	10.78	9.46	8.62	7.94
315.0	19.13	17.14	15.03	12.67	11.25	10.35	9.15	8.46	8.04
360.0	15.82	13.30	11.30	9.88	8.99	8.30	7.62	7.15	6.62

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.15	5.78	5.41	4.94	4.57	4.31	3.94	3.57	3.36
45.0	6.25	5.83	5.47	5.05	4.73	4.21	3.89	3.68	3.31
90.0	5.47	5.10	4.73	4.47	3.99	3.73	3.36	3.00	2.79
135.0	6.62	6.04	5.62	5.15	4.78	4.31	3.99	3.68	3.36
180.0	7.41	6.83	6.41	5.89	5.41	4.94	4.52	4.05	3.73
225.0	6.99	6.36	5.83	5.52	4.94	4.63	4.21	3.78	3.57
270.0	7.46	6.89	6.47	5.94	5.57	5.15	4.73	4.36	4.05
315.0	7.36	6.99	6.57	6.04	5.57	5.15	4.68	4.26	3.94
360.0	6.15	5.78	5.41	4.94	4.57	4.31	3.94	3.57	3.36

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.05	2.68	2.42	2.26	1.94	1.68	1.47	1.26	1.10
45.0	3.00	2.68	2.26	2.05	1.79	1.52	1.26	1.10	1.00
90.0	2.42	2.16	2.00	1.73	1.52	1.31	1.21	1.00	0.89
135.0	3.00	2.68	2.37	2.10	1.89	1.68	1.47	1.37	1.00
180.0	3.42	3.10	2.73	2.31	2.10	1.89	1.58	1.37	1.21
225.0	3.15	2.79	2.52	2.16	2.05	1.73	1.47	1.26	1.10
270.0	3.73	3.36	3.15	2.79	2.47	2.21	2.00	1.84	1.58
315.0	3.68	3.26	3.05	2.73	2.42	2.16	1.94	1.73	1.47
360.0	3.05	2.68	2.42	2.26	1.94	1.68	1.47	1.26	1.10

Intensity data(cd)

C/γ(°)	90.0
0.0	0.89
45.0	0.79
90.0	0.89
135.0	0.89
180.0	0.89
225.0	1.00
270.0	1.37
315.0	1.42
360.0	0.89