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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:
LumCAT: 2-2689-L
Luminaire: 92.70.411.00
Report No: 2024416-B024
Ballast type: AC

Test No: 2024416-C024	Voltage(V): 33.730
LampCAT: NICHIA NFCWJ108B-V3	Current(A): 0.577
Lamp flux(lm): 2647.0	Power (W): 19.462
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2187.27, Efficiency(%): 82.63% , Luminous Efficacy(lm/W): 112.39
Central intensity(cd): 4060.935, Maximum intensity(cd): 4060.935
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=43.4
[C90/270]Total=43.4
Field angle(10%Imax): [C0/180]Total=65.6
[C90/270]Total=65.6
Maximum s/h(1/2): C0_180=0.69 C90_270=0.69
Maximum s/h(1/4): C0_180=0.68 C90_270=0.68
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.63%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.507%

Equipment: GMS1980	Date: 2024/4/16	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4060.935	0.000	0	0.00%	0.00%
1.0	4057.862	3.885	3.885	0.15%	0.18%
2.0	4047.036	11.633	15.518	0.44%	0.71%
3.0	4024.578	19.305	34.822	0.73%	1.59%
4.0	3991.951	26.834	61.656	1.01%	2.82%
5.0	3950.254	34.167	95.823	1.29%	4.38%
6.0	3897.876	41.244	137.067	1.56%	6.27%
7.0	3836.355	48.006	185.073	1.81%	8.46%
8.0	3761.812	54.379	239.452	2.05%	10.95%
9.0	3679.075	60.304	299.756	2.28%	13.70%
10.0	3580.319	65.695	365.451	2.48%	16.71%
11.0	3478.343	70.531	435.982	2.66%	19.93%
12.0	3361.371	74.768	510.75	2.82%	23.35%
13.0	3235.914	78.293	589.043	2.96%	26.93%
14.0	3107.530	81.196	670.238	3.07%	30.64%
15.0	2978.415	83.551	753.789	3.16%	34.46%
16.0	2846.593	85.353	839.142	3.22%	38.36%
17.0	2701.750	86.403	925.544	3.26%	42.32%
18.0	2562.686	86.799	1012.343	3.28%	46.28%
19.0	2422.232	86.727	1099.071	3.28%	50.25%
20.0	2276.072	85.992	1185.063	3.25%	54.18%
21.0	2132.399	84.652	1269.714	3.20%	58.05%
22.0	1978.046	82.601	1352.315	3.12%	61.83%
23.0	1834.812	80.004	1432.319	3.02%	65.48%
24.0	1684.702	76.949	1509.269	2.91%	69.00%
25.0	1498.322	72.375	1581.644	2.73%	72.31%
26.0	1371.138	67.734	1649.378	2.56%	75.41%
27.0	1206.390	63.060	1712.437	2.38%	78.29%
28.0	1090.274	58.147	1770.584	2.20%	80.95%
29.0	927.955	52.803	1823.387	1.99%	83.36%
30.0	765.218	45.715	1869.102	1.73%	85.45%
31.0	621.004	38.577	1907.678	1.46%	87.22%
32.0	489.958	31.828	1939.506	1.20%	88.67%
33.0	381.062	25.661	1965.167	0.97%	89.85%
34.0	297.258	20.528	1985.695	0.78%	90.78%
35.0	229.613	16.363	2002.057	0.62%	91.53%
36.0	186.365	13.245	2015.302	0.50%	92.14%
37.0	153.497	11.084	2026.387	0.42%	92.64%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	118.259	9.071	2035.457	0.34%	93.06%
39.0	106.167	7.660	2043.118	0.29%	93.41%
40.0	96.825	7.080	2050.197	0.27%	93.73%
41.0	88.259	6.591	2056.788	0.25%	94.03%
42.0	81.258	6.159	2062.947	0.23%	94.32%
43.0	74.989	5.788	2068.735	0.22%	94.58%
44.0	69.554	5.455	2074.19	0.21%	94.83%
45.0	64.682	5.159	2079.349	0.19%	95.07%
46.0	60.307	4.888	2084.237	0.18%	95.29%
47.0	56.328	4.639	2088.876	0.18%	95.50%
48.0	52.773	4.410	2093.287	0.17%	95.70%
49.0	49.495	4.200	2097.486	0.16%	95.90%
50.0	46.372	3.997	2101.483	0.15%	96.08%
51.0	43.482	3.802	2105.285	0.14%	96.25%
52.0	40.856	3.619	2108.904	0.14%	96.42%
53.0	38.574	3.455	2112.359	0.13%	96.58%
54.0	36.328	3.301	2115.66	0.12%	96.73%
55.0	34.280	3.152	2118.812	0.12%	96.87%
56.0	32.429	3.014	2121.827	0.11%	97.01%
57.0	30.812	2.892	2124.718	0.11%	97.14%
58.0	29.269	2.778	2127.496	0.10%	97.27%
59.0	27.915	2.673	2130.17	0.10%	97.39%
60.0	26.555	2.573	2132.743	0.10%	97.51%
61.0	25.384	2.479	2135.222	0.09%	97.62%
62.0	24.177	2.388	2137.61	0.09%	97.73%
63.0	22.948	2.292	2139.902	0.09%	97.83%
64.0	21.931	2.202	2142.104	0.08%	97.93%
65.0	20.841	2.117	2144.221	0.08%	98.03%
66.0	20.044	2.040	2146.261	0.08%	98.13%
67.0	19.327	1.980	2148.241	0.07%	98.22%
68.0	18.983	1.941	2150.181	0.07%	98.30%
69.0	19.012	1.938	2152.12	0.07%	98.39%
70.0	19.269	1.966	2154.086	0.07%	98.48%
71.0	19.642	2.011	2156.097	0.08%	98.57%
72.0	20.066	2.065	2158.161	0.08%	98.67%
73.0	20.322	2.112	2160.273	0.08%	98.77%
74.0	20.498	2.146	2162.419	0.08%	98.86%
75.0	20.417	2.162	2164.581	0.08%	98.96%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	19.942	2.142	2166.724	0.08%	99.06%
77.0	19.108	2.082	2168.805	0.08%	99.16%
78.0	18.076	1.990	2170.796	0.08%	99.25%
79.0	16.847	1.876	2172.672	0.07%	99.33%
80.0	15.106	1.723	2174.395	0.07%	99.41%
81.0	14.002	1.574	2175.969	0.06%	99.48%
82.0	13.387	1.485	2177.454	0.06%	99.55%
83.0	13.014	1.435	2178.89	0.05%	99.62%
84.0	12.714	1.402	2180.291	0.05%	99.68%
85.0	12.004	1.349	2181.64	0.05%	99.74%
86.0	10.856	1.250	2182.89	0.05%	99.80%
87.0	10.256	1.155	2184.045	0.04%	99.85%
88.0	9.854	1.102	2185.147	0.04%	99.90%
89.0	9.685	1.071	2186.218	0.04%	99.95%
90.0	9.532	1.054	2187.271	0.04%	100.00%

Zonal flux distribution table

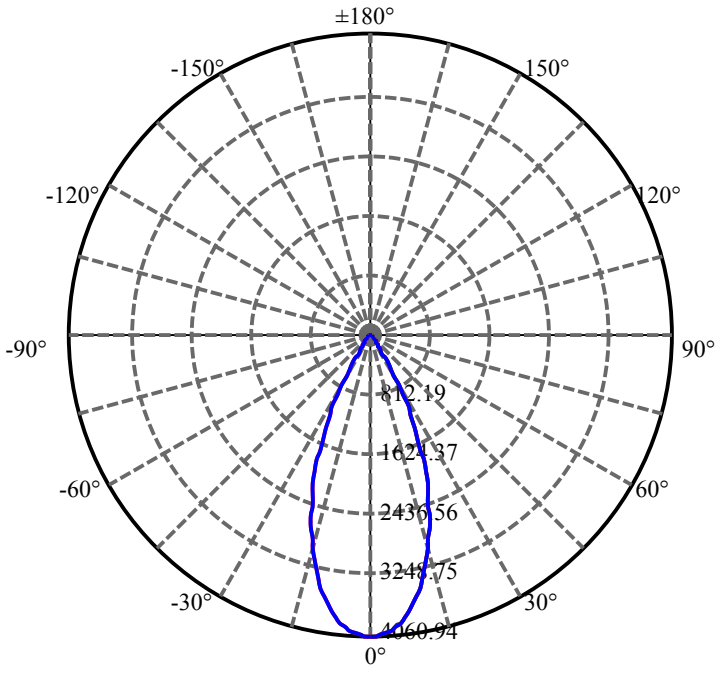
ZONAL LUMEN SUMMARY

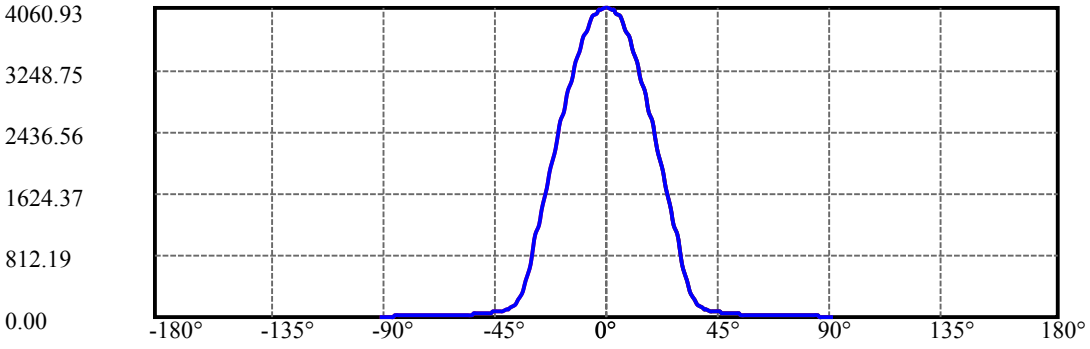
Zone	Lumens	%Lamp	%Fixt
0-30	1869.10	70.61%	85.45%
0-40	2050.20	77.45%	93.73%
0-60	2132.74	80.57%	97.51%
0-90	2186.22	82.59%	99.95%
0-120	2186.22	82.59%	99.95%
0-180	2187.27	82.63%	100.00%
60-90	53.47	2.02%	2.44%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.64	1749.82	66.11%	80.00%

ZONAL LUMEN SUMMARY

0-10	365.45
10-20	819.61
20-30	684.04
30-40	181.10
40-50	51.29
50-60	31.26
60-70	21.34
70-80	20.31
80-90	11.82
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):

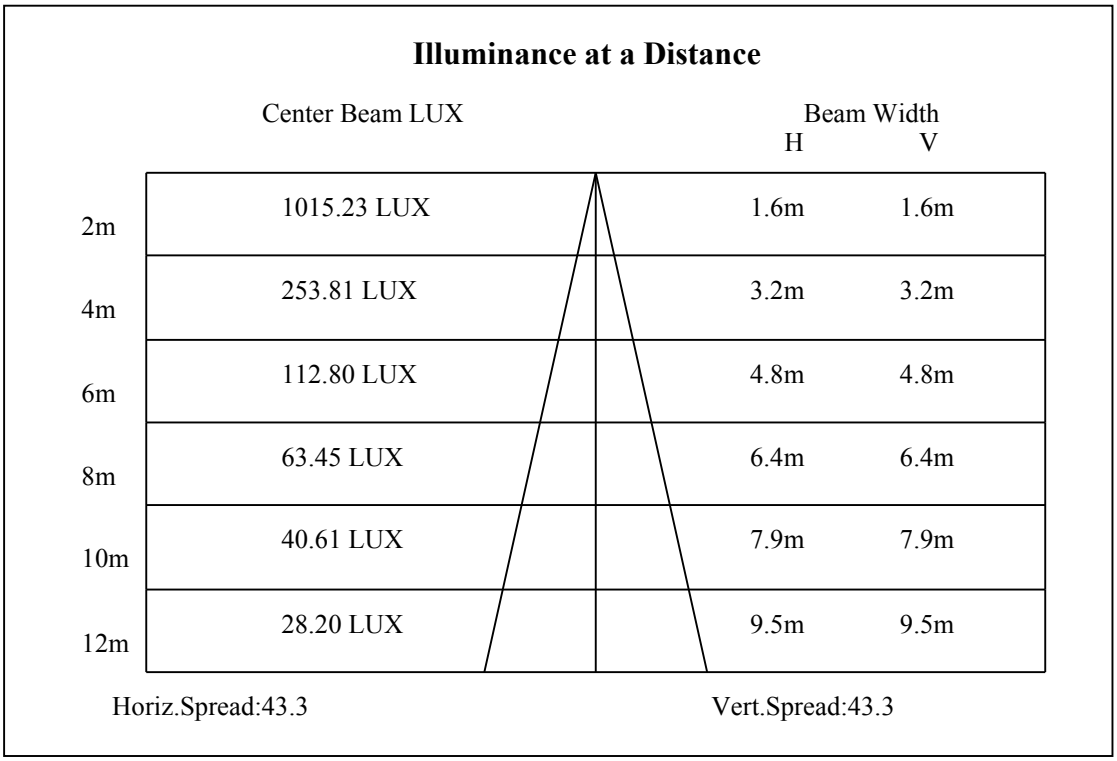
C0/C180:

C90/C270:

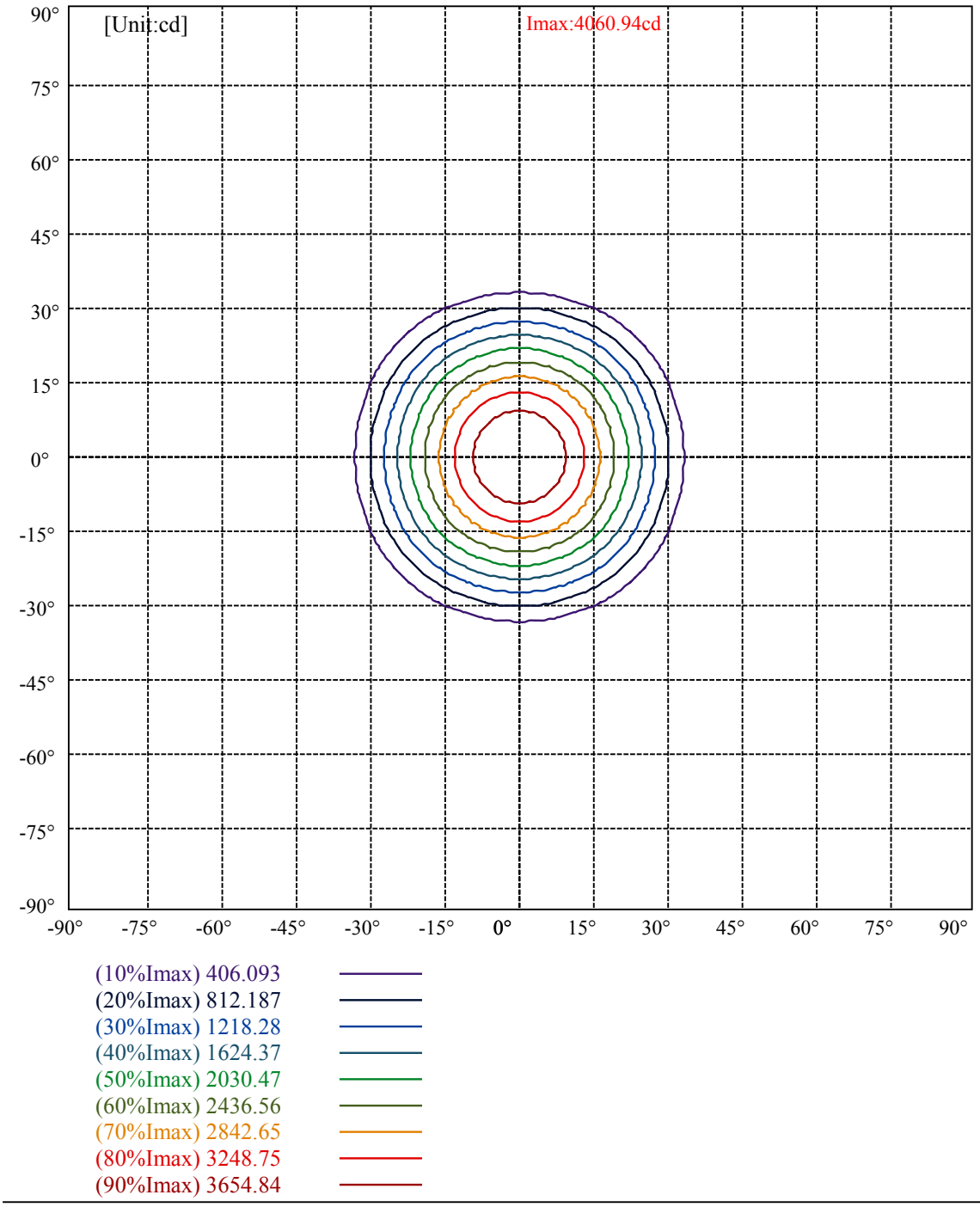
Field angle(10%Imax):C0/180Left:32.8 Right:32.8
:C90/270Left:32.8 Right:32.8

Beam Angle(50%Imax):C0/180Left:21.7 Right:21.7
:C90/270Left:21.7 Right:21.7

Lux distance Curve



ISO-Intensity(V-H)

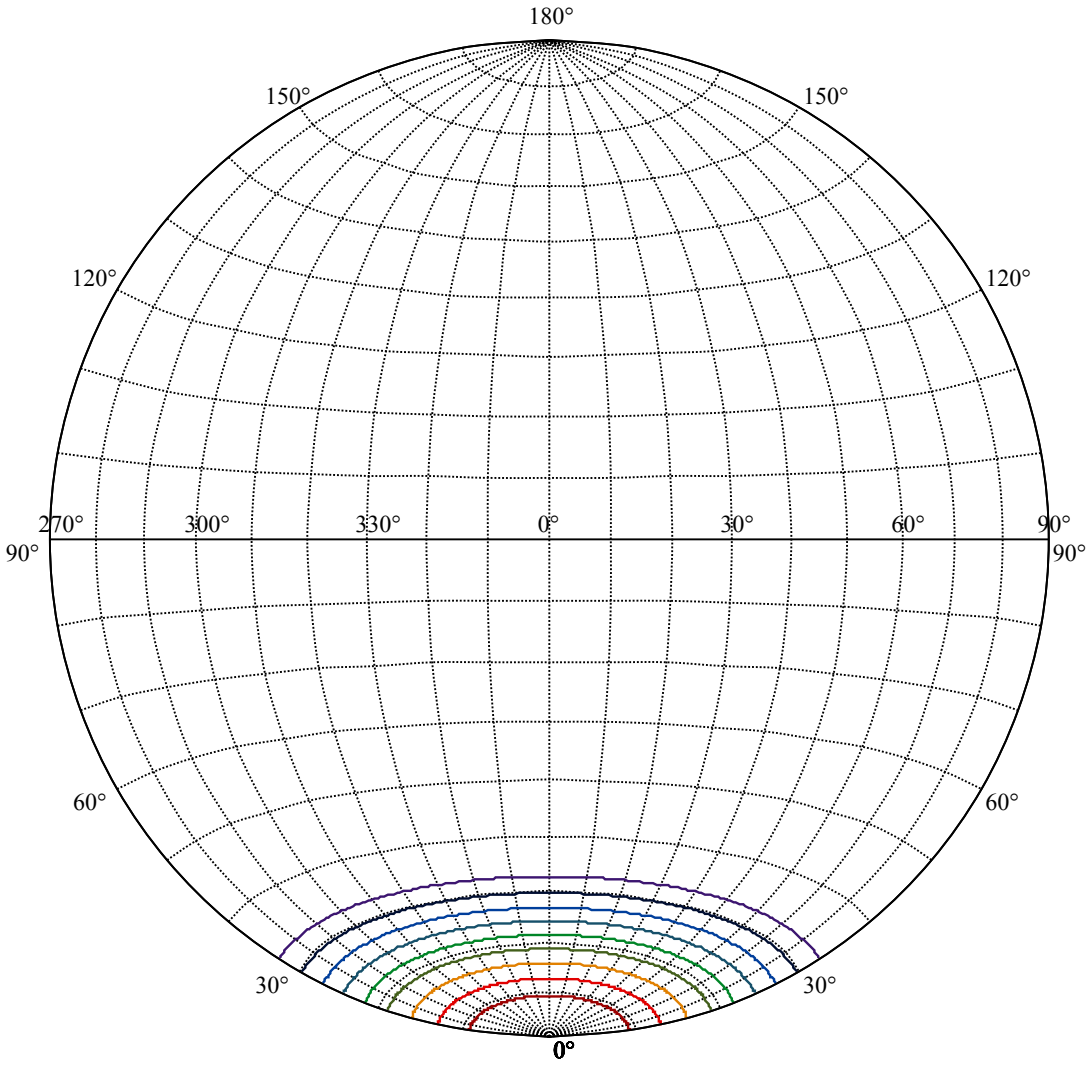


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/16
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



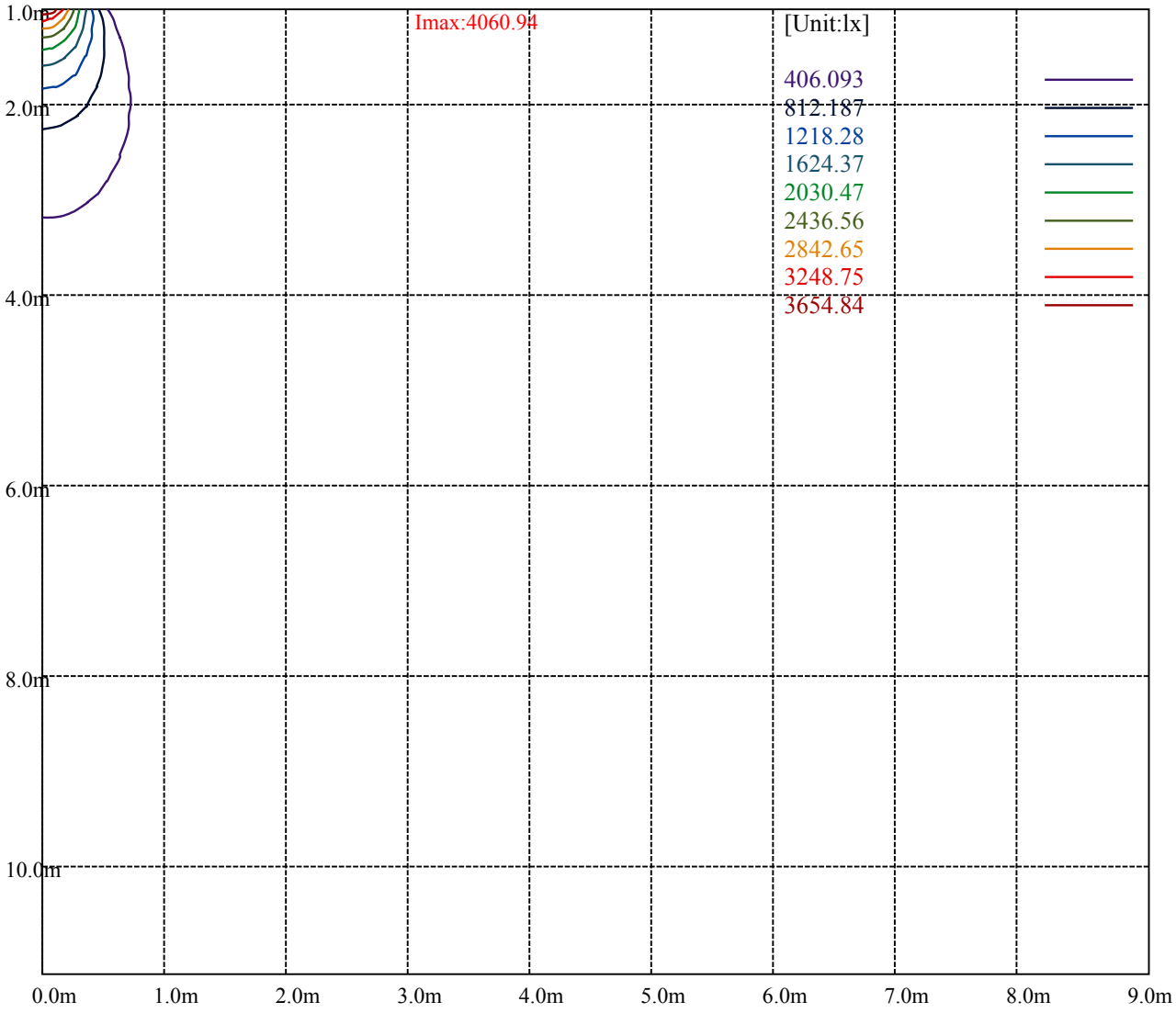
House [Unit:cd] Road

Imax:4060.94

(10%Imax) 406.093
(20%Imax) 812.187
(30%Imax) 1218.28
(40%Imax) 1624.37
(50%Imax) 2030.47
(60%Imax) 2436.56
(70%Imax) 2842.65
(80%Imax) 3248.75
(90%Imax) 3654.84

Equipment: GMS1980 Date: 2024/4/16 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/16
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

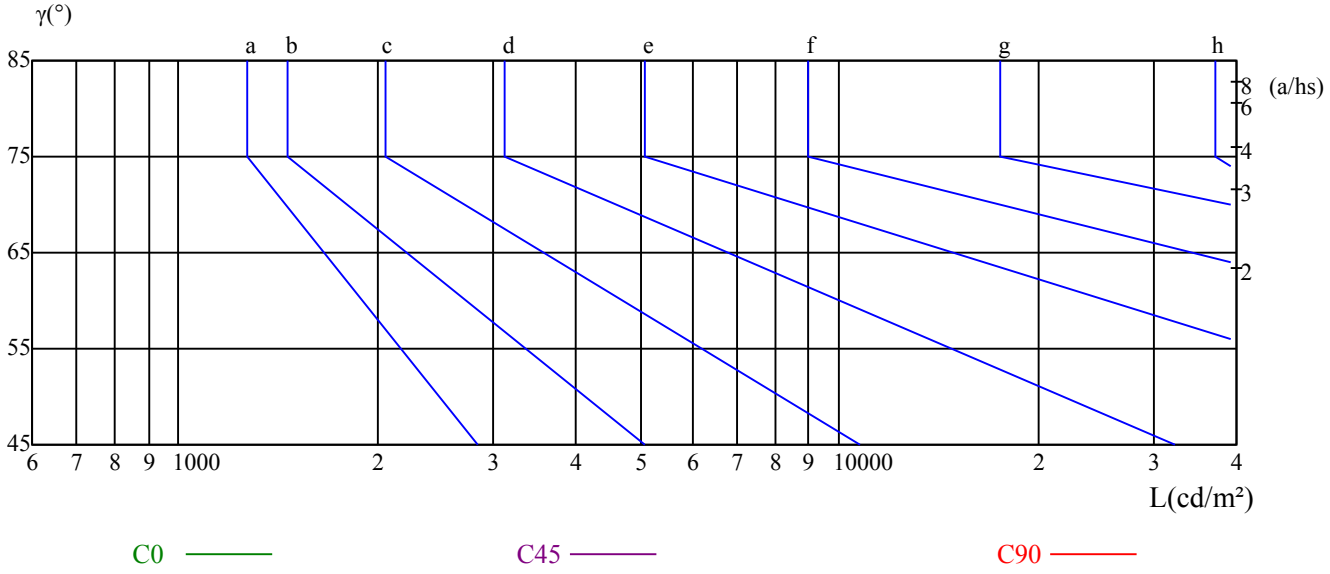
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

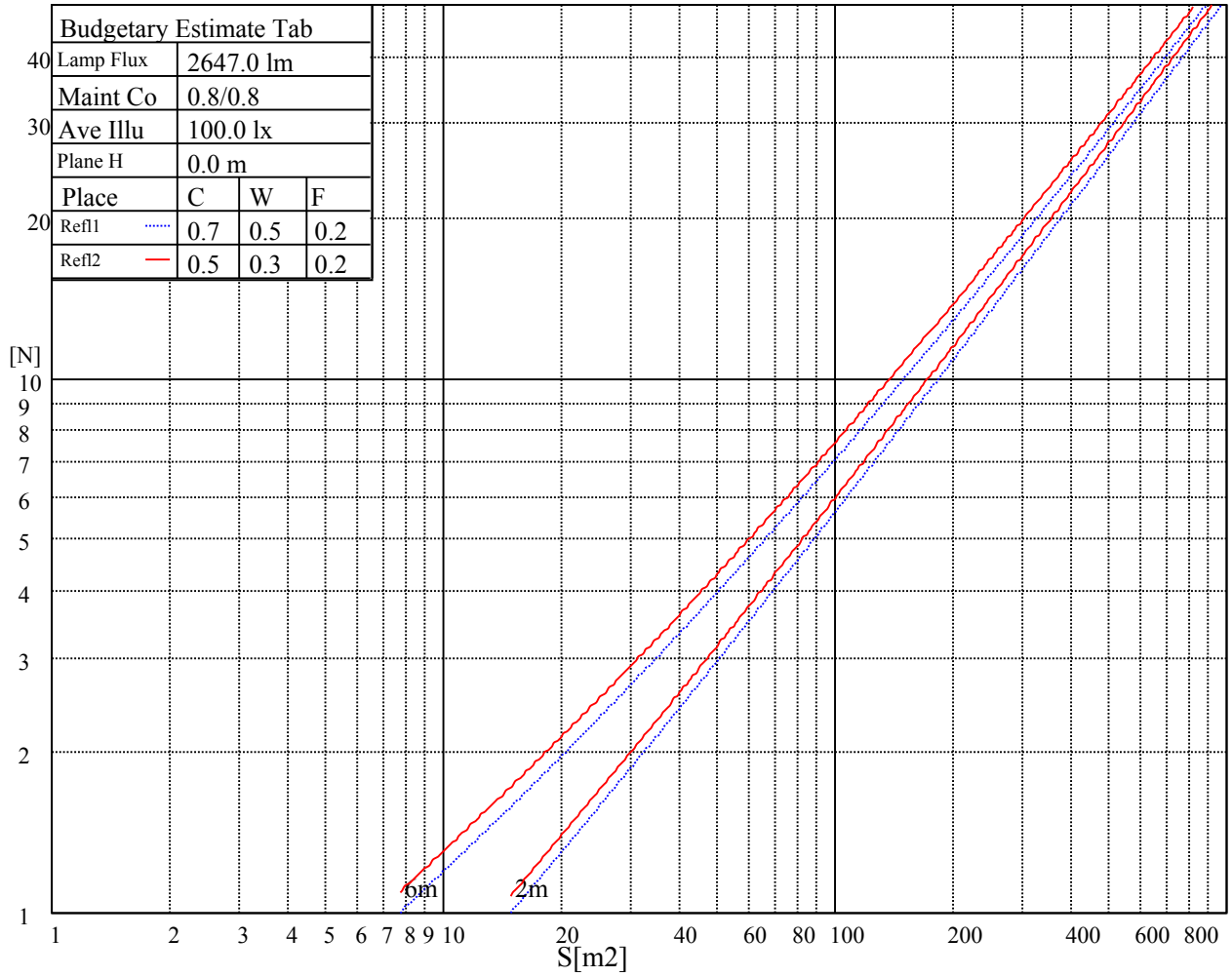
Luminance Limitting Curve



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

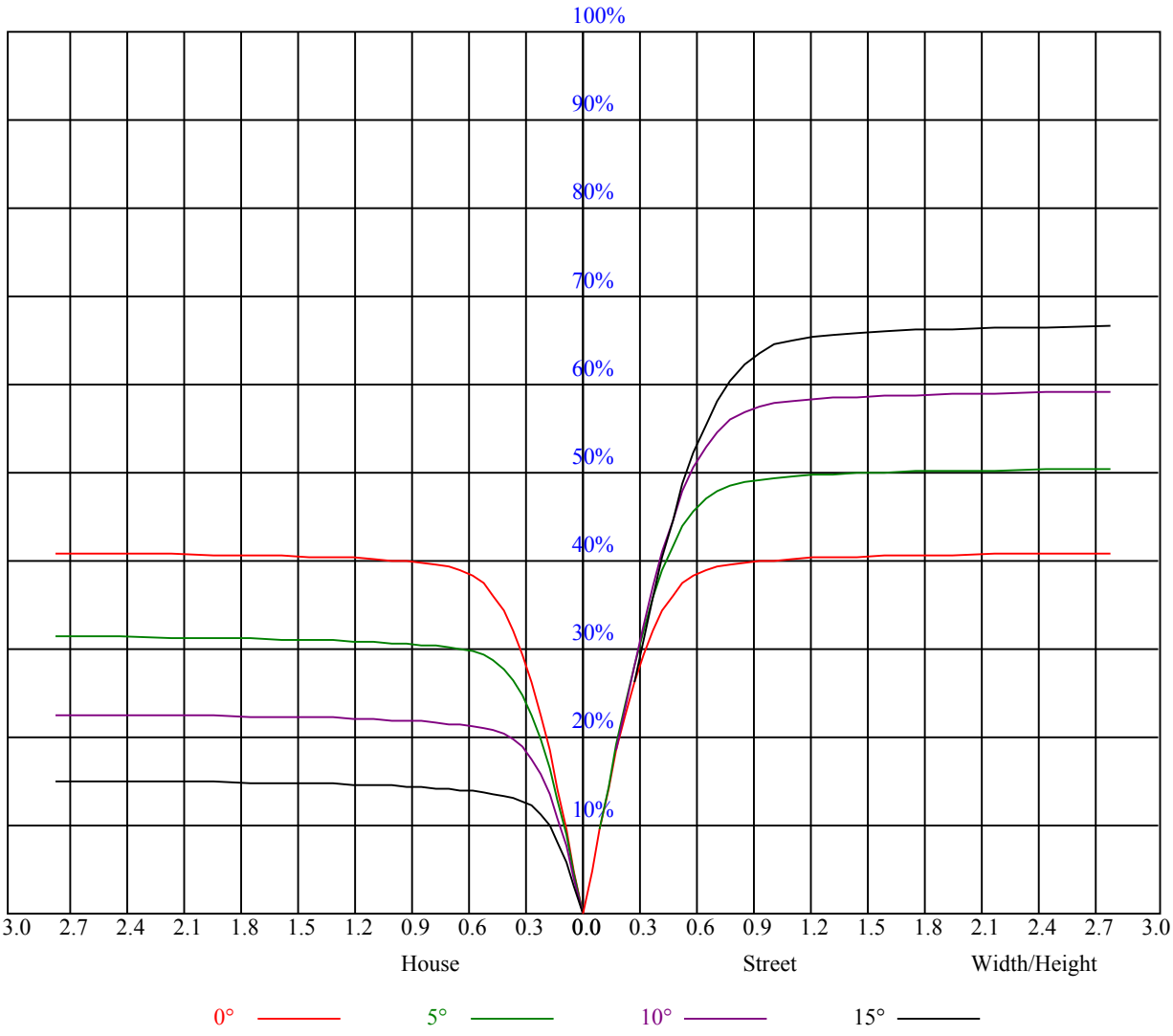


Equipment: GMS1980 Date: 2024/4/16 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

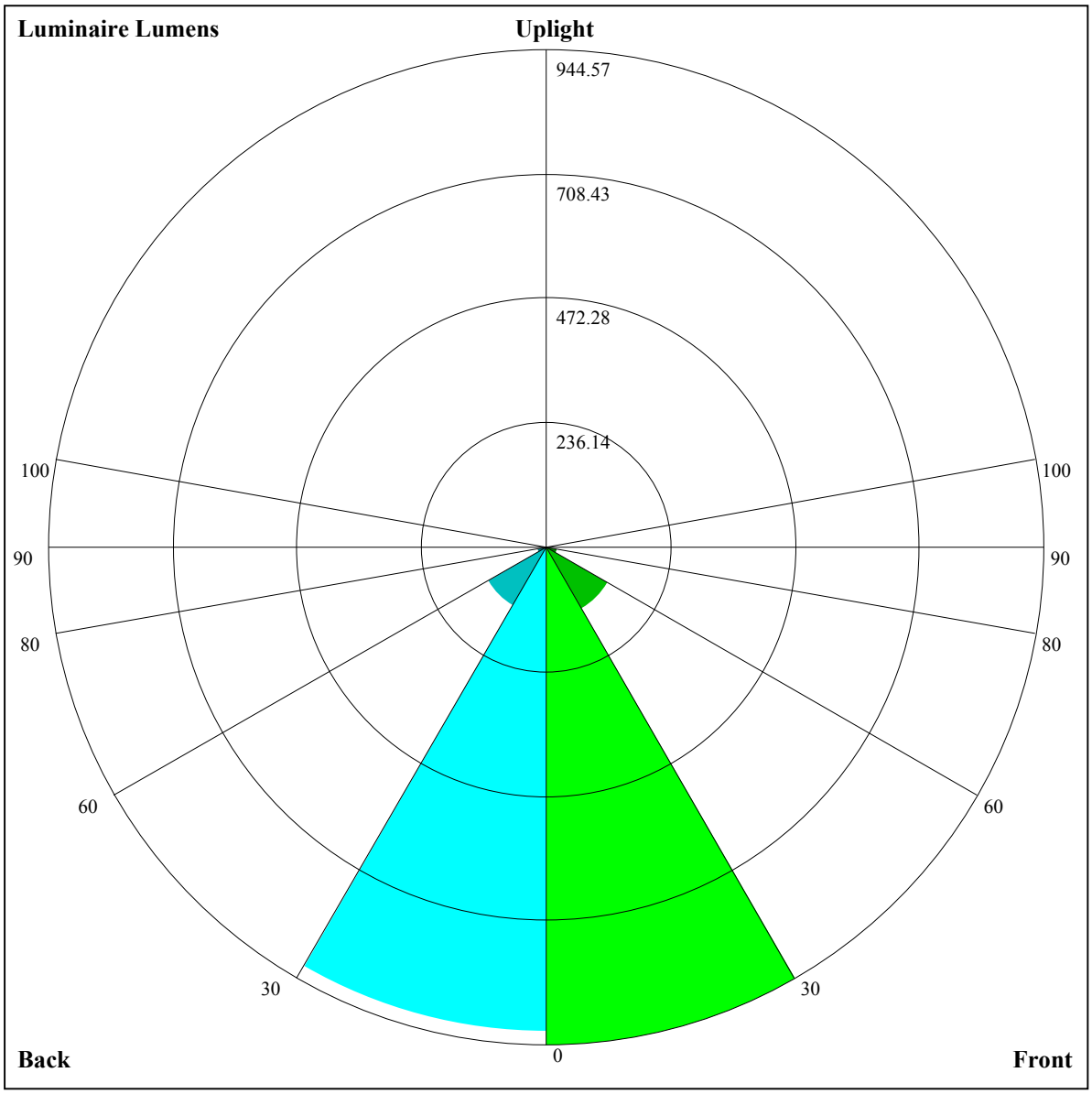
Utilization factor table for indoor luminaire

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	0.98	0.98	0.98	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.83
1	0.92	0.90	0.88	0.90	0.88	0.87	0.87	0.85	0.84	0.84	0.82	0.81	0.81	0.80	0.79	0.78
2	0.86	0.83	0.80	0.85	0.82	0.79	0.82	0.80	0.78	0.79	0.78	0.76	0.77	0.76	0.74	0.73
3	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.76	0.73	0.71	0.74	0.72	0.70	0.69
4	0.76	0.72	0.69	0.76	0.72	0.69	0.74	0.70	0.68	0.72	0.69	0.67	0.71	0.68	0.66	0.65
5	0.72	0.68	0.65	0.72	0.68	0.65	0.70	0.67	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
6	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59
7	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.62	0.59	0.57	0.56
8	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.60	0.57	0.54	0.53
9	0.60	0.55	0.52	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.51
10	0.57	0.53	0.50	0.57	0.53	0.50	0.56	0.52	0.50	0.56	0.52	0.50	0.55	0.52	0.50	0.49

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/4/16	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=944.57,FM=135.76,FH=21.64,FVH=6.57
BL=919.75,BM=129.98,BH=19.87,BVH=6.46
UL=0,UH=0

BUG Rating:B2-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	4065.03	4064.45	4062.69	4050.99	4028.16	3990.71	3942.13	3884.20	3799.92
45.0	4052.74	4072.05	4081.42	4082.00	4074.98	4064.45	4042.21	4008.26	3952.67
90.0	4073.22	4079.08	4080.83	4074.39	4057.42	4030.50	4001.83	3957.94	3894.15
135.0	4052.74	4058.59	4061.52	4059.18	4040.45	4010.61	3979.00	3937.45	3874.83
180.0	4065.03	4060.35	4048.65	4021.14	3973.15	3936.28	3867.81	3803.44	3732.04
225.0	4052.74	4029.92	3993.63	3935.11	3883.61	3797.58	3719.16	3634.89	3543.60
270.0	4073.22	4059.18	4031.67	3993.63	3946.82	3889.46	3828.02	3733.21	3653.03
315.0	4052.74	4039.28	4015.87	3980.17	3931.01	3882.44	3802.85	3731.45	3644.25
360.0	4065.03	4064.45	4062.69	4050.99	4028.16	3990.71	3942.13	3884.20	3799.92

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3720.33	3628.45	3503.80	3396.12	3272.64	3119.31	2999.34	2875.85	2713.16
45.0	3899.41	3829.77	3753.69	3641.33	3538.33	3422.45	3274.39	3151.50	2991.73
90.0	3825.67	3722.67	3629.04	3519.60	3406.07	3249.81	3127.50	2997.00	2858.30
135.0	3813.38	3734.96	3646.60	3522.53	3421.28	3301.90	3140.38	3013.38	2882.29
180.0	3627.28	3532.48	3428.31	3315.36	3167.30	3047.91	2922.09	2799.77	2645.28
225.0	3421.28	3314.19	3202.41	3084.19	2936.72	2814.99	2697.95	2577.39	2418.21
270.0	3570.52	3452.30	3342.86	3204.17	3085.36	2966.56	2842.50	2694.43	2570.37
315.0	3554.72	3427.72	3320.04	3207.68	3059.61	2937.30	2823.18	2663.42	2534.67
360.0	3720.33	3628.45	3503.80	3396.12	3272.64	3119.31	2999.34	2875.85	2713.16

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2580.32	2449.23	2318.72	2148.42	2009.72	1871.02	1741.10	1573.14	1321.50
45.0	2858.88	2728.96	2596.70	2422.89	2278.92	2138.47	1992.16	1820.11	1683.17
90.0	2698.53	2568.03	2428.16	2285.36	2105.11	1961.73	1786.17	1650.39	1512.87
135.0	2720.77	2592.61	2429.91	2294.14	2146.66	2003.87	1861.07	1696.04	1561.44
180.0	2521.79	2384.27	2219.23	2088.73	1940.08	1768.61	1643.37	1478.34	1333.20
225.0	2281.85	2112.14	1974.02	1837.67	1674.39	1553.83	1320.91	1142.13	1104.32
270.0	2442.79	2310.53	2140.81	2017.91	1873.36	1712.43	1593.63	1466.05	1292.24
315.0	2396.55	2232.11	2101.02	1964.07	1796.11	1668.53	1539.20	1160.38	1160.38
360.0	2580.32	2449.23	2318.72	2148.42	2009.72	1871.02	1741.10	1573.14	1321.50

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1133.76	1094.84	949.82	768.11	632.63	509.03	396.43	274.12	201.96
45.0	1543.88	1401.09	1214.99	1065.75	876.14	728.08	595.82	444.83	340.07
90.0	1166.24	1166.24	1012.03	861.80	679.62	546.31	428.68	327.14	232.10
135.0	1419.81	1268.83	1080.97	928.81	781.92	611.62	490.48	355.88	309.06
180.0	1192.75	1048.20	900.13	714.62	582.94	465.31	359.97	313.15	313.15
225.0	960.00	812.76	672.37	510.73	400.00	301.16	207.81	161.17	136.88
270.0	1147.10	993.77	805.33	660.19	529.10	383.97	309.64	309.64	161.29
315.0	1087.58	936.48	788.01	611.74	485.68	374.19	259.66	192.13	142.39
360.0	1133.76	1094.84	949.82	768.11	632.63	509.03	396.43	274.12	201.96

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	155.79	130.62	111.78	101.24	93.23	84.62	78.71	73.33	67.42
45.0	316.67	316.67	146.54	127.05	113.12	102.71	92.11	84.97	78.71
90.0	184.52	155.20	130.97	117.22	106.86	96.09	88.78	82.11	74.85
135.0	309.06	162.11	135.36	120.21	109.38	98.67	91.35	84.62	78.71
180.0	151.51	128.16	115.23	105.40	95.33	88.08	80.18	74.62	69.47
225.0	118.63	107.74	98.90	89.42	82.63	76.55	70.99	64.96	60.75
270.0	132.26	117.98	107.27	98.43	90.59	81.99	76.02	69.23	64.55
315.0	122.49	109.50	100.01	90.36	83.45	77.37	71.92	66.07	61.98
360.0	155.79	130.62	111.78	101.24	93.23	84.62	78.71	73.33	67.42

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	63.20	59.34	55.13	52.09	49.16	46.47	43.48	41.20	39.03
45.0	71.92	66.95	62.68	57.94	54.43	51.09	47.40	44.77	42.25
90.0	69.64	64.96	60.75	56.06	52.55	49.28	46.35	42.96	40.56
135.0	72.16	67.48	63.15	59.22	54.72	51.32	47.46	44.77	42.25
180.0	64.96	59.75	56.18	52.79	49.57	46.00	43.31	40.79	38.45
225.0	56.94	53.43	49.45	46.58	43.89	40.73	38.45	35.70	33.71
270.0	60.28	55.54	52.14	49.04	46.29	43.01	40.56	38.33	35.82
315.0	58.35	55.01	51.15	48.46	45.35	43.07	40.85	38.33	36.52
360.0	63.20	59.34	55.13	52.09	49.16	46.47	43.48	41.20	39.03

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	36.99	34.70	33.01	31.43	29.67	28.44	26.92	25.98	25.22
45.0	39.50	37.45	35.52	33.71	31.78	30.31	28.91	27.62	26.10
90.0	38.33	35.76	33.88	31.72	30.26	28.85	27.21	25.93	24.70
135.0	39.44	37.28	35.35	33.59	31.60	30.08	28.79	27.45	25.75
180.0	35.82	33.88	31.72	30.02	28.62	26.92	25.75	24.58	23.41
225.0	31.95	30.02	28.62	27.39	26.16	25.05	23.58	22.41	21.30
270.0	33.94	32.19	30.26	28.91	27.62	26.28	25.22	24.11	23.12
315.0	34.65	32.95	31.08	29.73	28.44	27.39	26.04	24.99	23.82
360.0	36.99	34.70	33.01	31.43	29.67	28.44	26.92	25.98	25.22

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	24.46	24.05	23.82	23.70	23.82	24.29	25.16	25.98	27.15
45.0	24.87	23.53	22.30	21.24	19.96	18.90	17.85	17.09	16.50
90.0	23.64	22.18	21.01	19.90	18.73	17.50	16.85	16.39	15.98
135.0	24.46	23.23	21.77	20.72	19.66	18.38	17.62	17.03	16.68
180.0	21.95	20.83	19.78	18.67	17.67	17.79	18.49	19.72	20.83
225.0	20.01	18.96	17.79	17.21	16.74	16.33	16.04	15.74	15.45
270.0	21.77	20.95	19.78	18.96	18.38	18.55	19.14	20.25	21.36
315.0	22.41	21.71	20.48	19.96	19.66	20.13	20.95	21.95	23.17
360.0	24.46	24.05	23.82	23.70	23.82	24.29	25.16	25.98	27.15

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	27.68	27.51	26.80	25.93	24.99	23.99	23.06	20.83	16.74
45.0	16.09	15.74	15.45	15.04	14.75	14.46	14.16	13.93	13.69
90.0	16.15	16.62	17.44	17.91	18.08	17.97	17.56	17.15	16.68
135.0	16.74	17.50	18.55	19.02	19.14	19.08	18.55	17.91	17.26
180.0	21.59	21.71	21.42	20.95	20.31	19.72	19.14	18.14	14.98
225.0	15.16	14.92	14.69	14.51	14.34	14.16	14.16	13.64	13.11
270.0	22.77	23.64	24.35	24.58	23.58	21.24	18.67	16.68	14.40
315.0	24.35	24.93	25.28	25.40	24.35	22.24	19.31	16.50	13.99
360.0	27.68	27.51	26.80	25.93	24.99	23.99	23.06	20.83	16.74

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.99	12.76	12.52	12.29	11.65	11.06	10.53	10.24	9.54
45.0	13.46	13.34	13.11	12.82	12.70	12.17	11.18	10.48	10.24
90.0	15.63	13.69	12.93	12.70	12.11	11.18	10.71	10.42	9.95
135.0	15.98	14.63	13.52	13.17	12.35	11.12	10.53	10.30	9.83
180.0	13.11	12.76	12.58	11.70	10.53	10.30	10.12	9.42	9.25
225.0	12.87	13.05	12.87	11.94	10.53	9.71	9.25	9.36	9.66
270.0	13.64	13.58	13.40	14.22	13.23	10.71	9.89	9.31	9.48
315.0	13.34	13.28	13.17	12.87	12.93	10.59	9.83	9.31	9.54
360.0	13.99	12.76	12.52	12.29	11.65	11.06	10.53	10.24	9.54

Intensity data(cd)

C/γ(°)	90.0
0.0	9.31
45.0	9.71
90.0	9.60
135.0	9.36
180.0	9.42
225.0	9.60
270.0	9.66
315.0	9.60
360.0	9.31