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NT

Client:
LumCAT: 2-2687-L
Luminaire: 92.70.411.00
Report No: 2024416-B021
Ballast type: AC

Test No: 2024416-C021	Voltage(V): 33.760
LampCAT: NICHIA NFCWJ108B-V3	Current(A): 0.577
Lamp flux(lm): 2647.0	Power (W): 19.479
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2195.35, Efficiency(%): 82.94% , Luminous Efficacy(lm/W): 112.70
Central intensity(cd): 8506.742, Maximum intensity(cd): 8506.742
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=22.6
[C90/270]Total=22.6
Field angle(10%Imax): [C0/180]Total=55.0
[C90/270]Total=55.0
Maximum s/h(1/2): C0_180=0.38 C90_270=0.38
Maximum s/h(1/4): C0_180=0.43 C90_270=0.43
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.94%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.775%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8506.743	0.000	0	0.00%	0.00%
1.0	8440.686	8.109	8.109	0.31%	0.37%
2.0	8259.851	23.970	32.079	0.91%	1.46%
3.0	7970.091	38.817	70.896	1.47%	3.23%
4.0	7598.547	52.113	123.009	1.97%	5.60%
5.0	7141.340	63.410	186.419	2.40%	8.49%
6.0	6696.715	72.723	259.142	2.75%	11.80%
7.0	6224.146	80.200	339.342	3.03%	15.46%
8.0	5741.774	85.638	424.979	3.24%	19.36%
9.0	5254.282	89.117	514.096	3.37%	23.42%
10.0	4813.680	91.111	605.208	3.44%	27.57%
11.0	4361.009	91.674	696.882	3.46%	31.74%
12.0	3964.373	91.008	787.89	3.44%	35.89%
13.0	3560.202	89.298	877.188	3.37%	39.96%
14.0	3217.187	86.750	963.938	3.28%	43.91%
15.0	2908.554	84.097	1048.035	3.18%	47.74%
16.0	2631.742	81.181	1129.216	3.07%	51.44%
17.0	2383.314	78.098	1207.314	2.95%	54.99%
18.0	2177.022	75.190	1282.504	2.84%	58.42%
19.0	1993.042	72.551	1355.054	2.74%	61.72%
20.0	1815.719	69.711	1424.765	2.63%	64.90%
21.0	1653.758	66.621	1491.386	2.52%	67.93%
22.0	1478.586	62.946	1554.332	2.38%	70.80%
23.0	1341.306	59.169	1613.501	2.24%	73.50%
24.0	1241.138	56.461	1669.962	2.13%	76.07%
25.0	1142.527	54.199	1724.162	2.05%	78.54%
26.0	1028.738	51.253	1775.415	1.94%	80.87%
27.0	910.910	47.454	1822.868	1.79%	83.03%
28.0	799.110	43.294	1866.163	1.64%	85.01%
29.0	693.996	39.064	1905.226	1.48%	86.78%
30.0	583.733	34.498	1939.725	1.30%	88.36%
31.0	494.010	29.992	1969.717	1.13%	89.72%
32.0	409.658	25.889	1995.606	0.98%	90.90%
33.0	338.136	22.030	2017.636	0.83%	91.91%
34.0	284.397	18.840	2036.476	0.71%	92.76%
35.0	237.192	16.199	2052.675	0.61%	93.50%
36.0	194.375	13.741	2066.416	0.52%	94.13%
37.0	138.530	10.858	2077.273	0.41%	94.62%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	109.174	8.268	2085.541	0.31%	95.00%
39.0	88.479	6.746	2092.288	0.25%	95.31%
40.0	71.632	5.584	2097.872	0.21%	95.56%
41.0	59.700	4.677	2102.548	0.18%	95.77%
42.0	50.212	3.993	2106.542	0.15%	95.95%
43.0	43.138	3.458	2110	0.13%	96.11%
44.0	38.244	3.072	2113.071	0.12%	96.25%
45.0	34.411	2.792	2115.864	0.11%	96.38%
46.0	31.470	2.576	2118.44	0.10%	96.50%
47.0	29.027	2.406	2120.846	0.09%	96.61%
48.0	27.096	2.269	2123.115	0.09%	96.71%
49.0	25.508	2.160	2125.275	0.08%	96.81%
50.0	24.133	2.070	2127.345	0.08%	96.90%
51.0	23.021	1.995	2129.34	0.08%	96.99%
52.0	22.217	1.941	2131.281	0.07%	97.08%
53.0	21.624	1.907	2133.188	0.07%	97.17%
54.0	21.185	1.887	2135.075	0.07%	97.25%
55.0	20.878	1.878	2136.953	0.07%	97.34%
56.0	20.688	1.878	2138.831	0.07%	97.43%
57.0	20.556	1.886	2140.717	0.07%	97.51%
58.0	20.541	1.900	2142.617	0.07%	97.60%
59.0	20.585	1.923	2144.54	0.07%	97.69%
60.0	20.658	1.948	2146.488	0.07%	97.77%
61.0	20.556	1.967	2148.455	0.07%	97.86%
62.0	20.278	1.968	2150.423	0.07%	97.95%
63.0	19.795	1.949	2152.372	0.07%	98.04%
64.0	19.071	1.907	2154.279	0.07%	98.13%
65.0	18.376	1.853	2156.132	0.07%	98.21%
66.0	17.710	1.800	2157.933	0.07%	98.30%
67.0	17.169	1.754	2159.687	0.07%	98.38%
68.0	16.906	1.726	2161.413	0.07%	98.45%
69.0	16.920	1.726	2163.138	0.07%	98.53%
70.0	17.206	1.753	2164.891	0.07%	98.61%
71.0	17.674	1.803	2166.694	0.07%	98.69%
72.0	18.179	1.864	2168.558	0.07%	98.78%
73.0	18.647	1.926	2170.484	0.07%	98.87%
74.0	18.939	1.976	2172.46	0.07%	98.96%
75.0	19.042	2.007	2174.466	0.08%	99.05%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	18.691	2.003	2176.469	0.08%	99.14%
77.0	17.901	1.951	2178.42	0.07%	99.23%
78.0	16.825	1.859	2180.279	0.07%	99.31%
79.0	15.567	1.740	2182.02	0.07%	99.39%
80.0	13.943	1.591	2183.61	0.06%	99.47%
81.0	12.465	1.428	2185.039	0.05%	99.53%
82.0	11.609	1.306	2186.344	0.05%	99.59%
83.0	11.244	1.242	2187.586	0.05%	99.65%
84.0	11.002	1.212	2188.798	0.05%	99.70%
85.0	10.841	1.192	2189.991	0.05%	99.76%
86.0	10.132	1.146	2191.137	0.04%	99.81%
87.0	9.773	1.089	2192.226	0.04%	99.86%
88.0	9.517	1.057	2193.283	0.04%	99.91%
89.0	9.386	1.036	2194.319	0.04%	99.95%
90.0	9.342	1.027	2195.346	0.04%	100.00%

Zonal flux distribution table

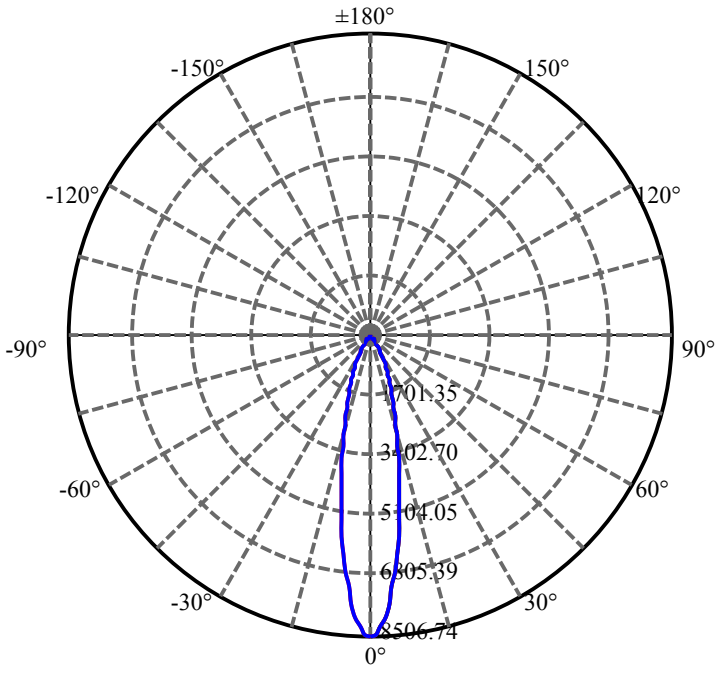
ZONAL LUMEN SUMMARY

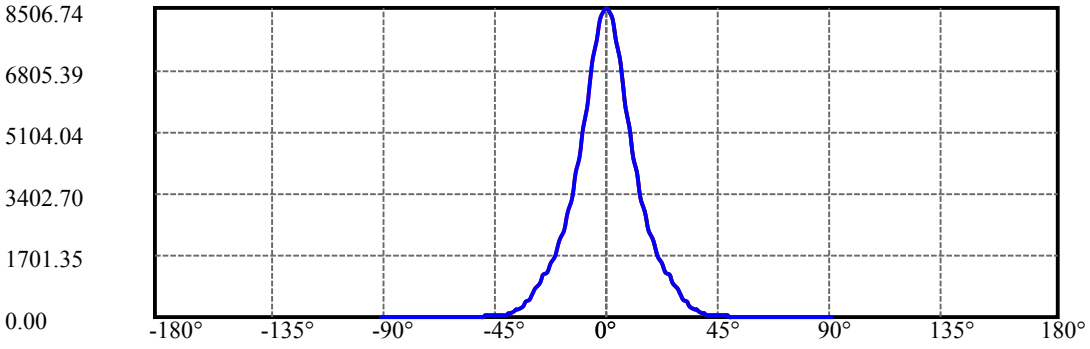
Zone	Lumens	%Lamp	%Fixt
0-30	1939.72	73.28%	88.36%
0-40	2097.87	79.25%	95.56%
0-60	2146.49	81.09%	97.77%
0-90	2194.32	82.90%	99.95%
0-120	2194.32	82.90%	99.95%
0-180	2195.35	82.94%	100.00%
60-90	47.83	1.81%	2.18%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.63	1756.28	66.35%	80.00%

ZONAL LUMEN SUMMARY

0-10	605.21
10-20	819.56
20-30	514.96
30-40	158.15
40-50	29.47
50-60	19.14
60-70	18.40
70-80	18.72
80-90	10.71
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):

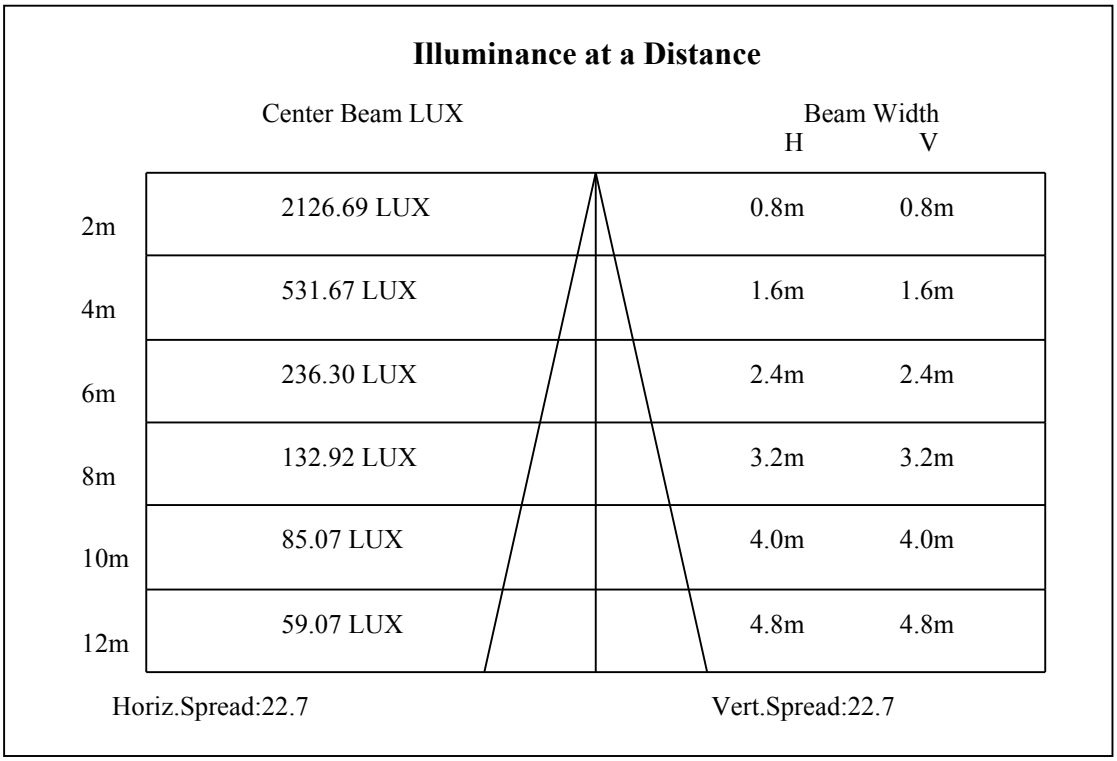
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:27.5 Right:27.5
:C90/270Left:27.5 Right:27.5

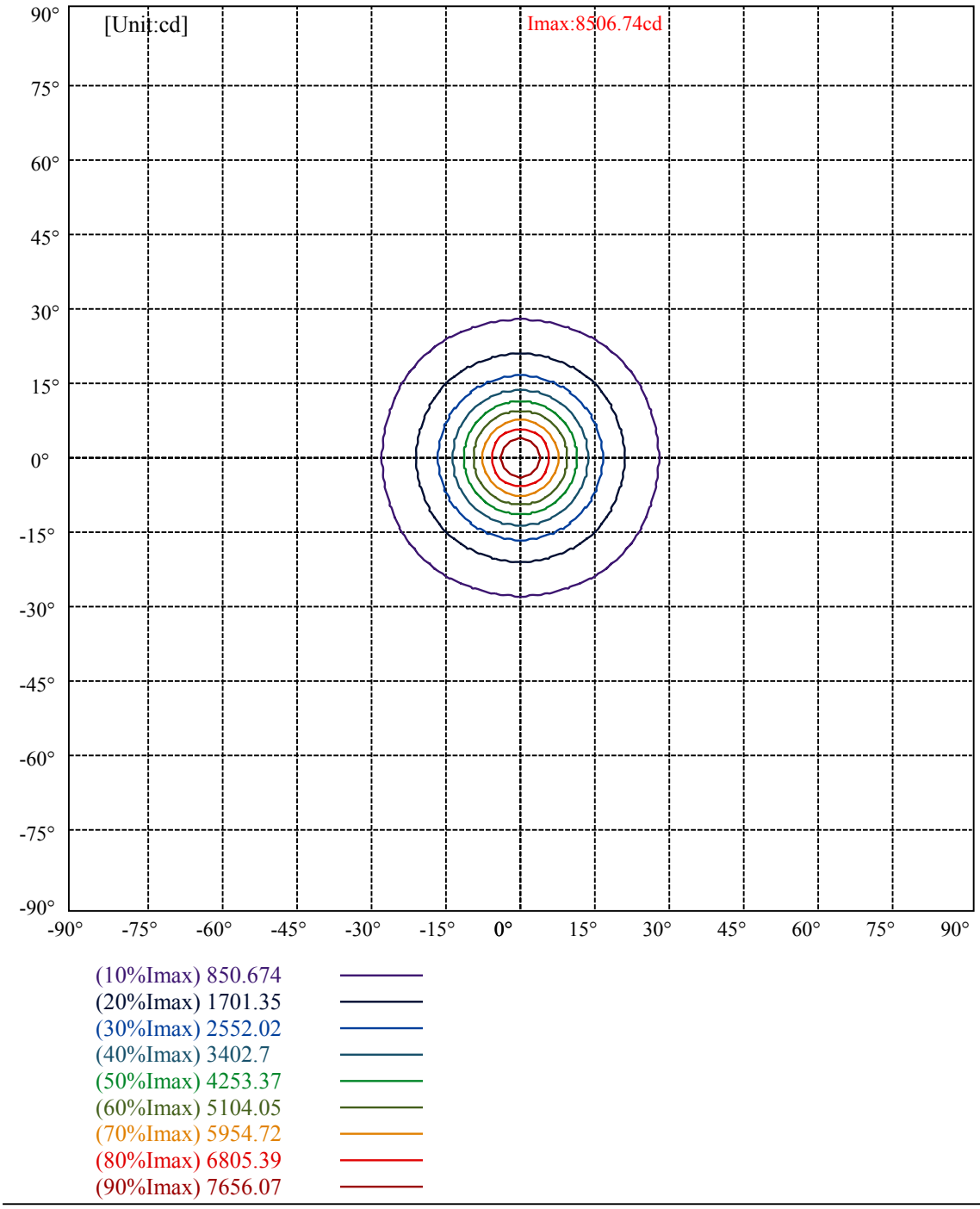
Beam Angle(50%Imax):C0/180Left:11.3 Right:11.3
:C90/270Left:11.3 Right:11.3

Lux distance Curve



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

ISO-Intensity(V-H)

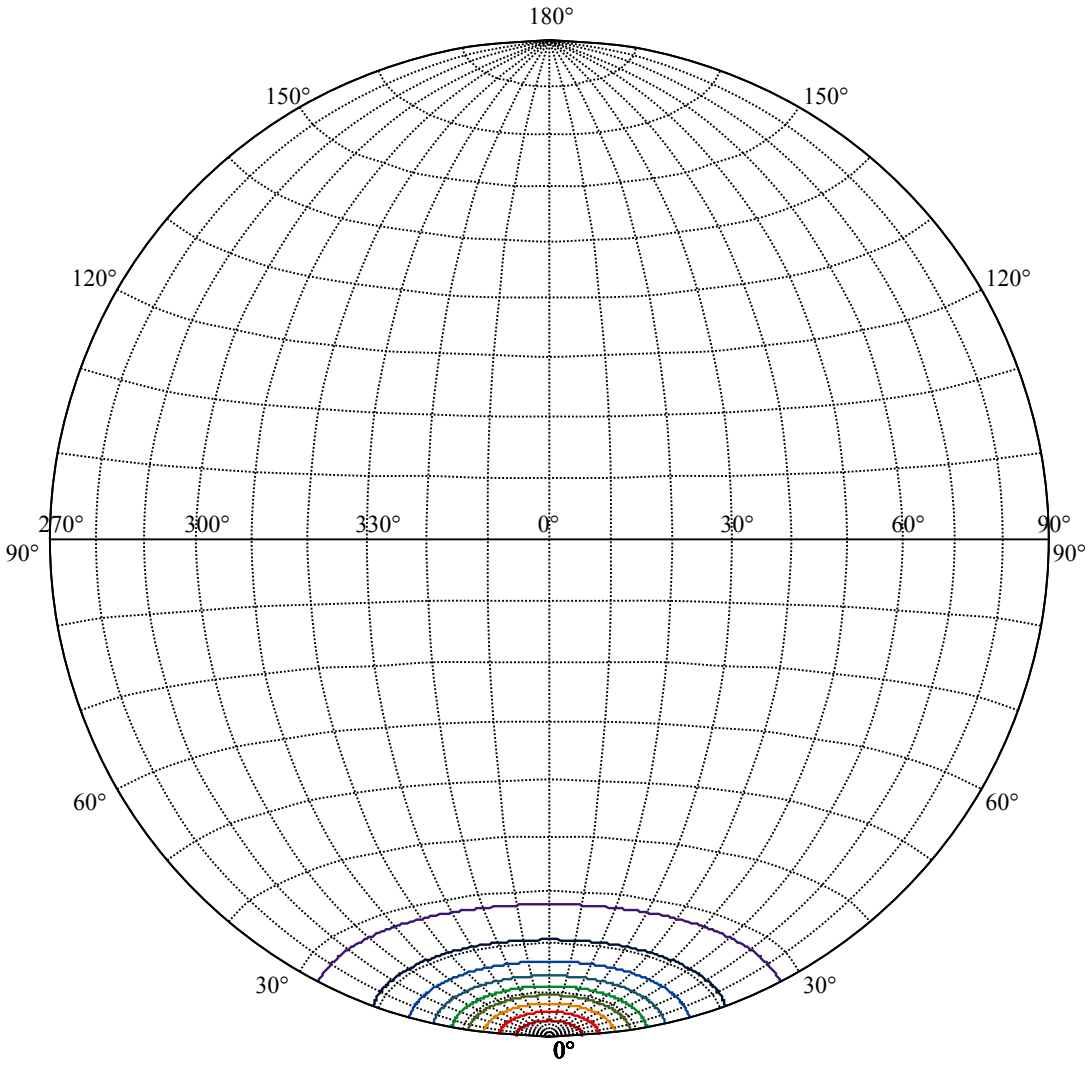


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



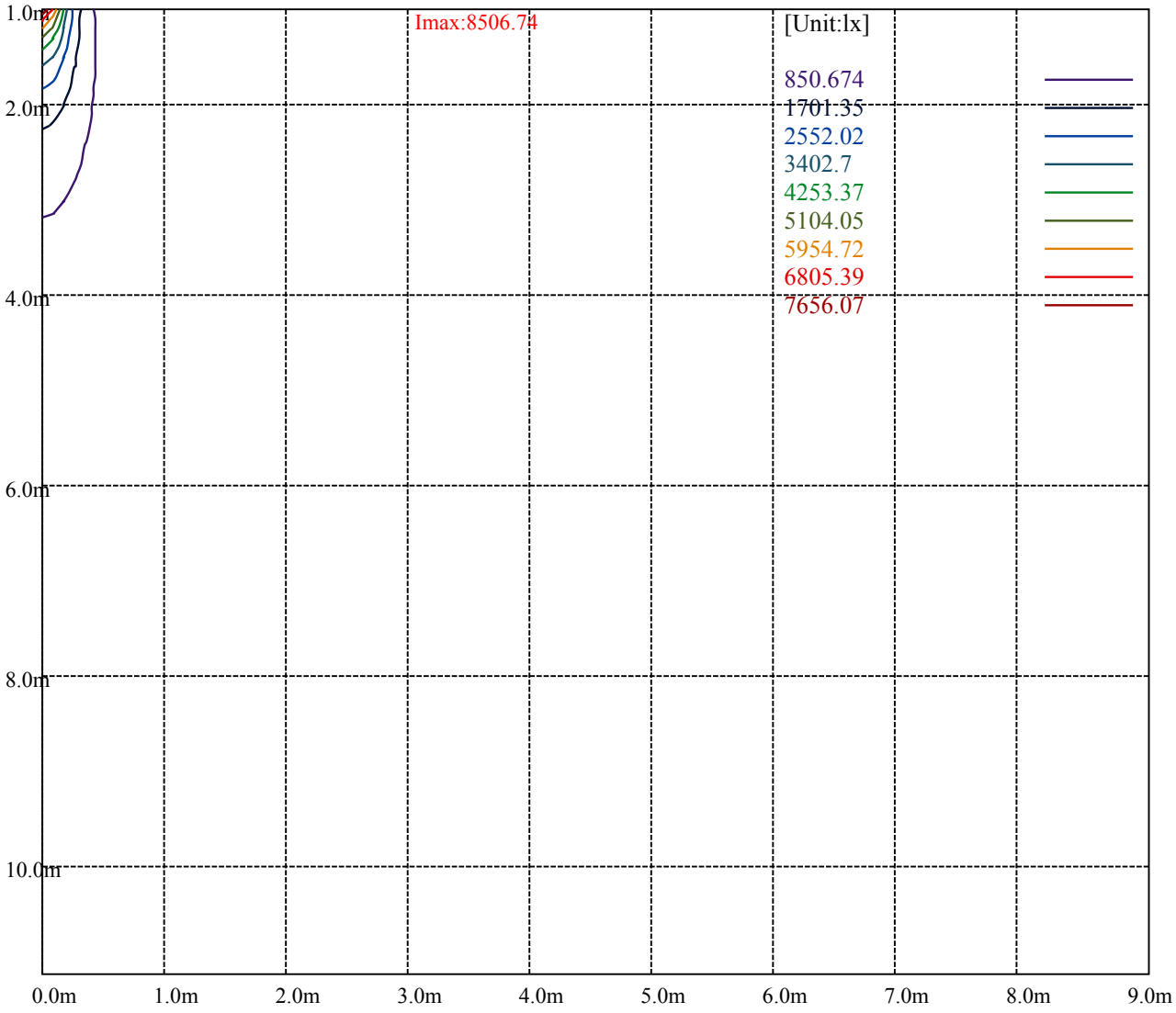
House [Unit:cd] Road

Imax:8506.74

(10%Imax) 850.674
(20%Imax) 1701.35
(30%Imax) 2552.02
(40%Imax) 3402.7
(50%Imax) 4253.37
(60%Imax) 5104.05
(70%Imax) 5954.72
(80%Imax) 6805.39
(90%Imax) 7656.07

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

NT 2-2687-L

Luminance Limitting Curve(no luminous side)

Luminance Table

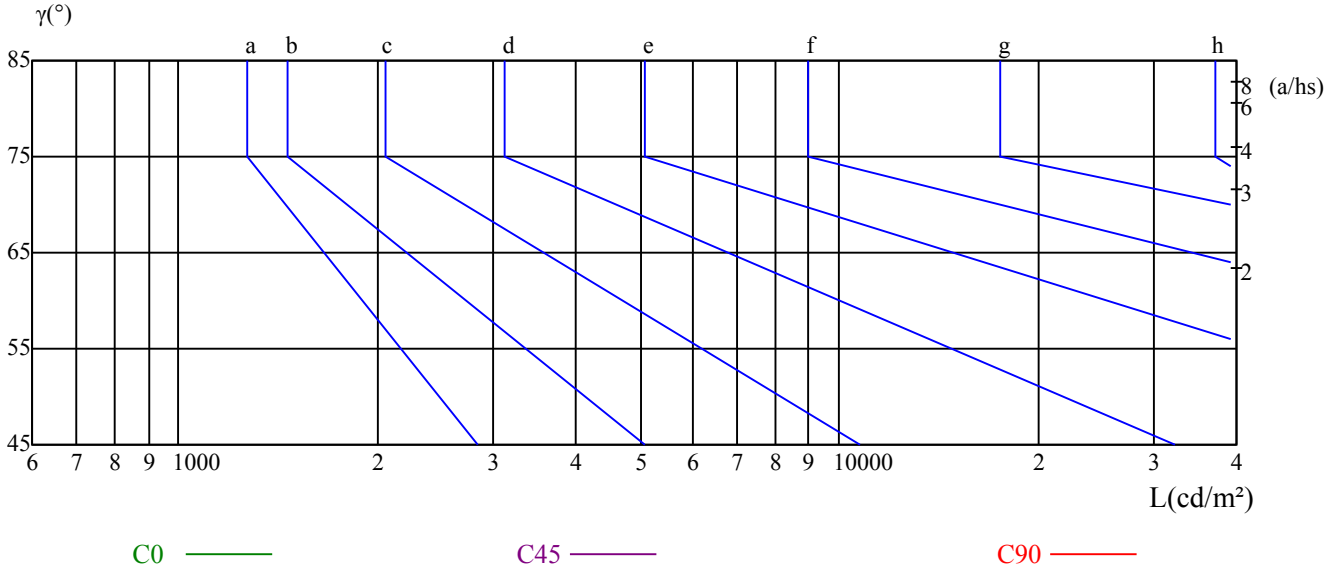
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

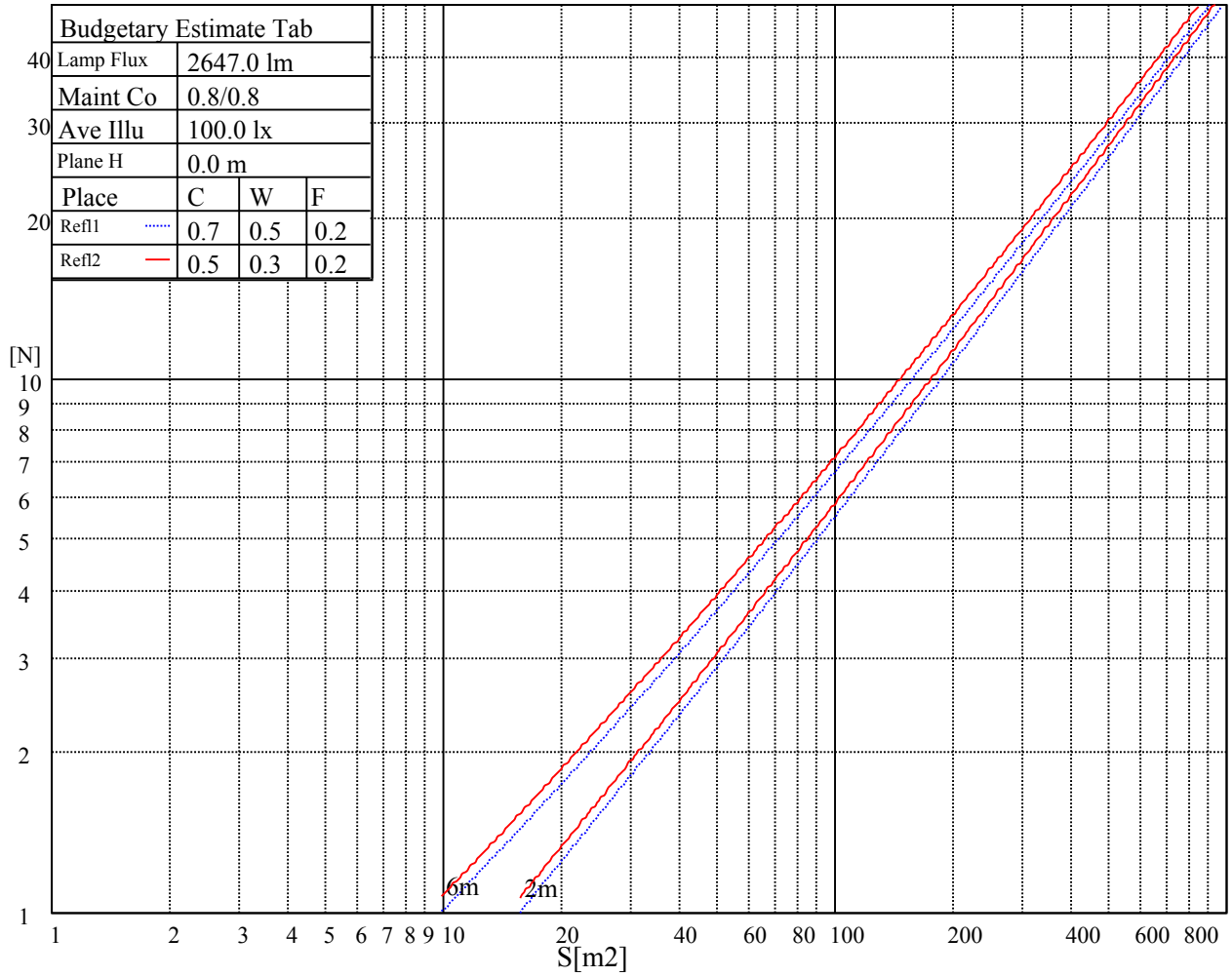
Luminance Limitting Curve



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

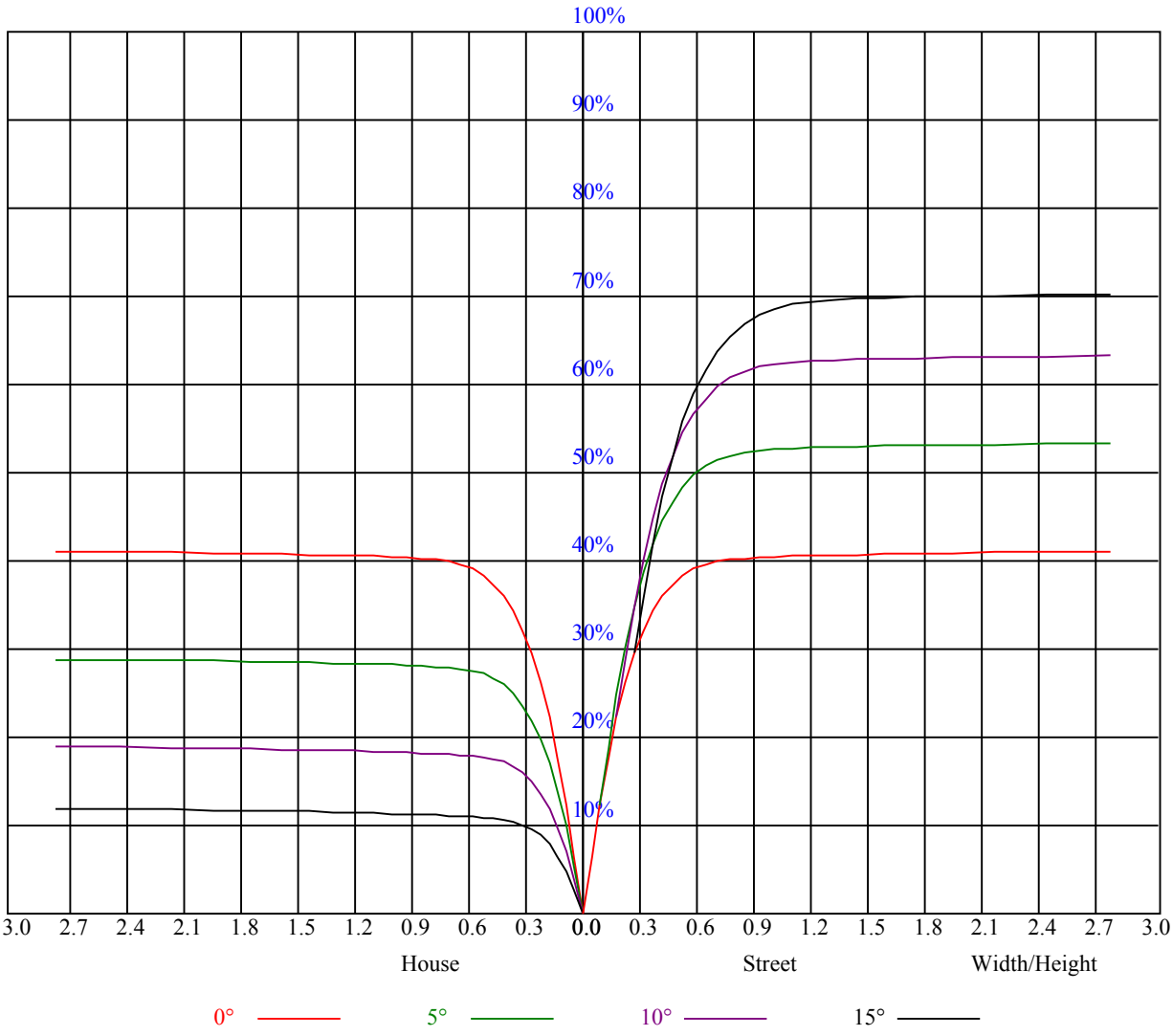


Equipment: GMS1980 Date: 2024/4/16 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

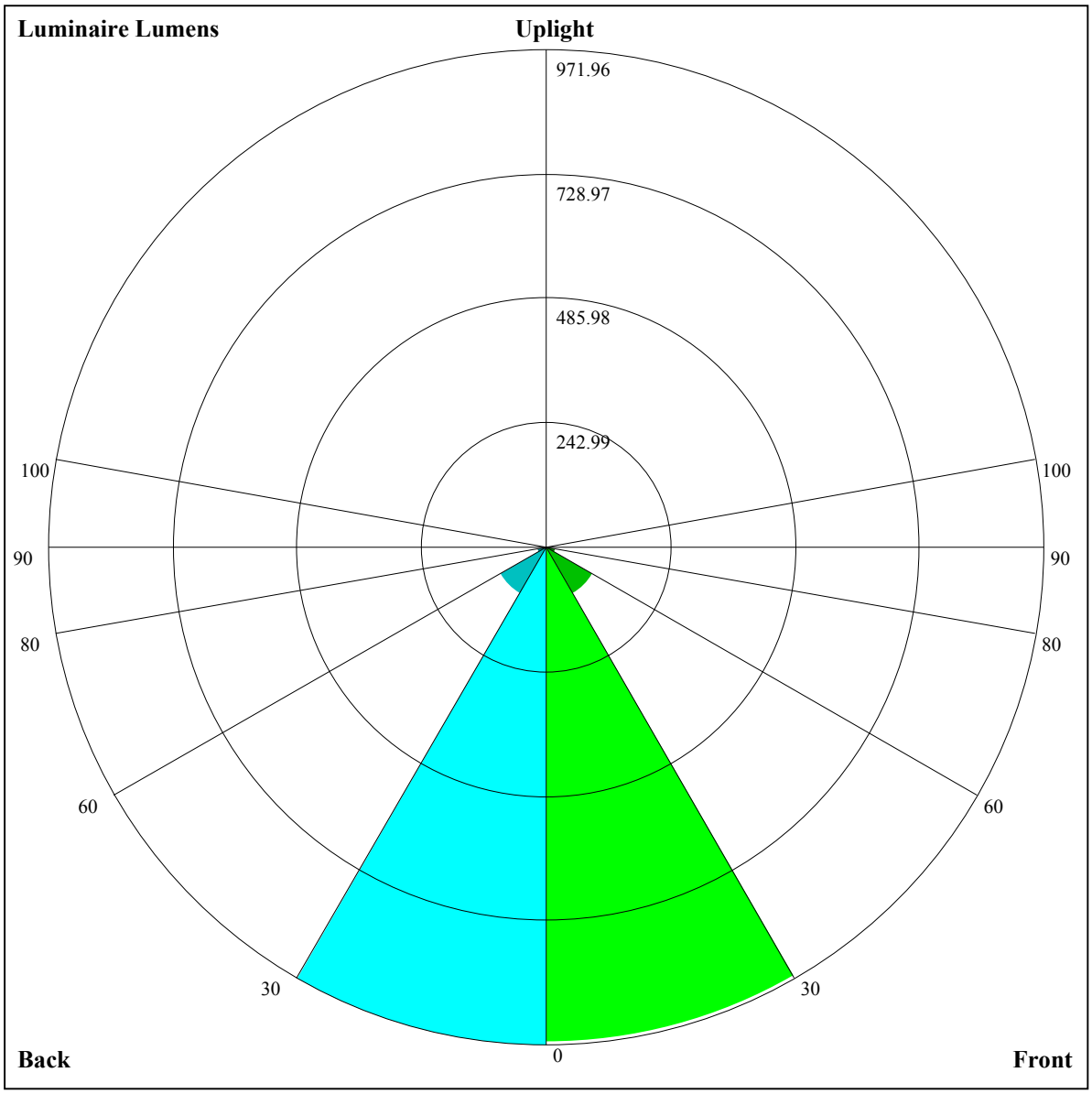
Utilization factor table for indoor luminaire

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	0.99	0.99	0.99	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.93	0.91	0.89	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.79
2	0.87	0.85	0.82	0.86	0.83	0.81	0.83	0.81	0.79	0.81	0.79	0.78	0.79	0.77	0.76	0.75
3	0.83	0.79	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.76	0.74	0.73	0.71
4	0.79	0.75	0.72	0.78	0.75	0.72	0.76	0.73	0.71	0.75	0.72	0.70	0.73	0.71	0.69	0.68
5	0.75	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.71	0.68	0.67	0.66
6	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.69	0.67	0.64	0.68	0.66	0.64	0.63
7	0.69	0.65	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.64	0.62	0.61
8	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.64	0.61	0.59	0.58
9	0.64	0.60	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.63	0.60	0.57	0.62	0.59	0.57	0.56
10	0.62	0.58	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.61	0.58	0.55	0.60	0.57	0.55	0.54

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=966.25,FM=104.23,FH=19.16,FVH=5.99
BL=971.96,BM=103.88,BH=18.17,BVH=5.93
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	8533.22	8412.67	8194.38	7879.53	7413.69	6989.40	6551.65	6009.73	5569.06
45.0	8458.32	8567.75	8547.85	8349.46	8092.55	7647.19	7236.95	6800.96	6360.87
90.0	8573.60	8548.44	8409.16	8107.77	7747.27	7338.78	6786.33	6328.68	5889.76
135.0	8461.83	8558.39	8526.20	8326.05	8077.33	7710.98	7311.27	6770.53	6314.64
180.0	8533.22	8516.25	8372.87	8139.95	7808.72	7331.17	6905.13	6445.73	5904.39
225.0	8458.32	8211.94	7898.84	7518.44	7109.96	6546.97	6101.61	5653.92	5207.39
270.0	8573.60	8451.29	8242.95	7929.86	7448.80	7013.98	6565.70	6118.00	5574.91
315.0	8461.83	8258.75	7886.55	7509.67	7090.06	6552.24	6115.07	5665.62	5113.17
360.0	8533.22	8412.67	8194.38	7879.53	7413.69	6989.40	6551.65	6009.73	5569.06

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5030.65	4601.68	4187.93	3808.70	3378.56	3071.32	2793.34	2555.15	2296.48
45.0	5835.92	5400.51	4959.84	4540.82	4035.18	3665.32	3324.72	2941.98	2675.12
90.0	5444.41	4904.83	4481.13	4075.57	3698.10	3278.49	2973.00	2700.87	2415.28
135.0	5763.94	5336.14	4909.51	4397.44	4002.41	3627.87	3287.27	2903.36	2640.59
180.0	5476.59	5040.02	4499.27	4100.14	3628.45	3289.02	2977.68	2702.04	2422.30
225.0	4667.23	4253.47	3874.25	3525.45	3129.84	2850.10	2549.88	2336.86	2147.83
270.0	5139.50	4705.27	4186.17	3811.04	3467.52	3157.93	2804.46	2563.34	2307.60
315.0	4676.01	4267.52	3789.98	3455.81	3141.55	2797.43	2558.08	2350.32	2161.29
360.0	5030.65	4601.68	4187.93	3808.70	3378.56	3071.32	2793.34	2555.15	2296.48

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2115.06	1948.86	1792.02	1614.11	1488.87	1289.89	1144.23	1118.77	1014.55
45.0	2444.54	2201.09	2022.60	1820.69	1674.39	1543.88	1421.57	1305.11	1167.58
90.0	2219.23	2040.74	1829.47	1679.07	1511.11	1305.70	1159.68	1159.68	1052.47
135.0	2415.28	2213.96	1990.41	1823.03	1677.90	1510.52	1387.04	1270.58	1132.47
180.0	2219.23	2024.35	1852.88	1675.56	1533.35	1402.26	1268.83	1151.78	1048.78
225.0	1928.37	1773.29	1631.08	1471.90	1153.77	1153.77	1126.32	989.32	882.23
270.0	2123.84	1944.76	1751.64	1619.96	1485.36	1361.29	1258.29	1113.16	1005.48
315.0	1950.61	1797.28	1655.66	1525.74	1303.94	1163.13	1163.13	1031.81	926.35
360.0	2115.06	1948.86	1792.02	1614.11	1488.87	1289.89	1144.23	1118.77	1014.55

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	880.12	771.44	672.13	557.54	475.79	400.00	332.23	258.79	210.15
45.0	1058.73	949.88	844.54	716.37	621.57	512.72	434.88	361.73	297.94
90.0	919.80	813.05	709.00	613.49	506.40	428.27	354.88	289.22	221.57
135.0	1020.69	912.42	779.58	678.92	587.62	482.28	406.20	336.56	304.96
180.0	915.94	811.77	707.60	581.19	496.91	421.42	347.68	297.94	297.94
225.0	775.01	672.77	577.15	469.00	393.10	309.29	253.23	206.29	158.83
270.0	897.21	769.04	668.97	548.41	465.31	388.65	302.03	302.03	235.08
315.0	819.78	692.50	593.01	504.93	405.39	334.63	273.94	222.62	171.06
360.0	880.12	771.44	672.13	557.54	475.79	400.00	332.23	258.79	210.15

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	171.06	139.28	107.86	88.37	70.40	59.17	50.33	42.43	38.10
45.0	297.94	182.77	139.34	112.42	91.35	75.49	60.80	52.09	45.24
90.0	178.03	135.19	108.44	87.67	69.06	58.35	50.27	42.72	38.27
135.0	304.96	167.78	134.37	107.92	83.34	69.00	58.23	48.40	42.66
180.0	176.74	144.08	111.31	91.18	75.32	60.16	51.27	44.42	38.10
225.0	128.28	103.94	80.88	66.83	55.89	47.58	41.38	35.99	32.83
270.0	159.36	122.37	99.20	81.11	67.18	56.42	46.41	40.67	36.58
315.0	138.64	112.83	92.00	72.33	60.51	51.44	43.01	38.39	34.18
360.0	171.06	139.28	107.86	88.37	70.40	59.17	50.33	42.43	38.10

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	34.65	31.25	29.03	27.27	25.81	24.58	23.29	22.65	22.06
45.0	40.20	35.46	32.48	29.96	27.92	25.69	24.35	23.00	22.24
90.0	34.82	31.95	29.09	27.21	25.57	24.23	22.88	22.06	21.30
135.0	37.28	34.12	31.54	29.32	26.98	25.40	24.17	23.17	22.24
180.0	34.47	31.72	28.85	27.04	25.46	24.11	22.88	22.00	21.42
225.0	29.67	27.68	25.98	24.23	23.06	22.18	21.30	20.89	20.54
270.0	32.66	30.20	27.68	26.04	24.70	23.29	22.41	21.77	21.36
315.0	31.54	29.38	27.56	25.69	24.58	23.58	22.88	22.18	21.83
360.0	34.65	31.25	29.03	27.27	25.81	24.58	23.29	22.65	22.06

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	21.59	21.30	21.07	21.01	20.95	21.07	21.07	20.95	20.48
45.0	21.59	21.07	20.72	20.48	20.42	20.31	20.31	20.31	20.37
90.0	20.89	20.66	20.37	20.31	20.19	20.31	20.48	20.54	20.37
135.0	21.77	21.36	21.07	20.78	20.66	20.54	20.72	20.72	20.83
180.0	20.95	20.54	20.31	20.19	20.07	20.13	20.25	20.31	20.07
225.0	20.25	20.13	20.07	20.07	20.19	20.37	20.31	19.90	19.43
270.0	20.89	20.66	20.60	20.48	20.54	20.66	20.72	20.83	20.31
315.0	21.54	21.30	21.30	21.13	21.30	21.30	21.42	20.89	20.37
360.0	21.59	21.30	21.07	21.01	20.95	21.07	21.07	20.95	20.48

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.84	19.14	18.26	18.02	18.20	18.67	19.61	20.95	22.06
45.0	20.01	19.55	18.96	17.97	17.21	16.27	15.57	14.98	14.46
90.0	20.01	19.37	18.67	17.85	16.97	16.15	15.45	15.04	15.27
135.0	20.54	20.13	19.66	18.67	17.97	17.26	16.56	15.80	15.51
180.0	19.49	18.90	18.08	17.38	16.56	16.33	16.68	17.38	18.55
225.0	18.67	17.67	16.91	16.15	15.45	14.81	14.46	14.16	13.93
270.0	19.96	19.02	18.26	17.91	17.50	17.73	18.32	19.49	20.60
315.0	19.84	18.79	18.20	17.73	17.50	18.02	18.73	19.84	21.01
360.0	19.84	19.14	18.26	18.02	18.20	18.67	19.61	20.95	22.06

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	22.71	22.82	22.47	22.00	21.24	20.66	20.07	17.56	14.40
45.0	14.16	13.87	13.64	13.40	13.17	12.99	12.76	12.47	12.17
90.0	16.21	17.15	18.14	18.90	18.84	17.97	17.32	16.68	15.27
135.0	15.80	16.91	17.79	18.49	19.08	19.20	18.79	18.14	17.09
180.0	18.96	19.02	18.67	18.32	17.79	17.26	16.80	16.27	14.28
225.0	13.64	13.46	13.23	12.93	12.70	12.47	12.11	11.70	11.35
270.0	21.59	22.71	23.64	24.11	23.35	21.77	18.61	16.33	13.75
315.0	22.36	23.23	23.94	24.17	23.35	20.89	18.14	15.39	13.23
360.0	22.71	22.82	22.47	22.00	21.24	20.66	20.07	17.56	14.40

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.00	11.29	10.94	10.71	10.59	10.36	9.83	9.60	9.31
45.0	11.88	11.59	11.29	11.18	11.00	10.94	10.07	9.71	9.54
90.0	13.11	11.47	11.18	11.00	10.42	10.01	9.77	9.60	9.42
135.0	15.27	12.76	11.29	10.83	10.59	10.18	9.89	9.66	9.54
180.0	12.00	11.00	10.65	10.48	10.18	9.83	9.71	9.48	9.42
225.0	11.24	11.18	11.24	10.30	9.83	9.60	9.42	9.25	9.31
270.0	12.17	11.94	11.82	11.76	12.06	10.12	9.77	9.48	9.25
315.0	12.06	11.65	11.53	11.76	12.06	10.01	9.71	9.36	9.31
360.0	12.00	11.29	10.94	10.71	10.59	10.36	9.83	9.60	9.31

Intensity data(cd)

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