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NT

Client:
LumCAT: 2-2684-L
Luminaire: 92.70.411.00
Report No: 2024416-B014
Ballast type: AC

Test No: 2024416-C014	Voltage(V): 33.780
LampCAT: NICHIA NFCWJ108B-V3	Current(A): 0.577
Lamp flux(lm): 2647.0	Power (W): 19.491
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2255.07, Efficiency(%): 85.19% , Luminous Efficacy(lm/W): 115.70
Central intensity(cd): 5131.896, Maximum intensity(cd): 5131.896
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=35.4
[C90/270]Total=35.4
Field angle(10%Imax): [C0/180]Total=66.0
[C90/270]Total=66.0
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.59 C90_270=0.59
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.19%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.002%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5131.897	0.000	0	0.00%	0.00%
1.0	5118.217	4.904	4.904	0.19%	0.22%
2.0	5080.543	14.638	19.543	0.55%	0.87%
3.0	5024.581	24.168	43.711	0.91%	1.94%
4.0	4950.843	33.391	77.102	1.26%	3.42%
5.0	4860.425	42.208	119.309	1.59%	5.29%
6.0	4749.379	50.502	169.811	1.91%	7.53%
7.0	4621.361	58.164	227.975	2.20%	10.11%
8.0	4476.445	65.111	293.087	2.46%	13.00%
9.0	4314.557	71.246	364.333	2.69%	16.16%
10.0	4129.699	76.417	440.75	2.89%	19.54%
11.0	3939.574	80.629	521.379	3.05%	23.12%
12.0	3745.206	84.006	605.385	3.17%	26.85%
13.0	3532.184	86.364	691.749	3.26%	30.68%
14.0	3321.503	87.727	779.476	3.31%	34.57%
15.0	3118.723	88.414	867.89	3.34%	38.49%
16.0	2912.723	88.378	956.267	3.34%	42.41%
17.0	2715.941	87.653	1043.921	3.31%	46.29%
18.0	2513.380	86.220	1130.141	3.26%	50.12%
19.0	2317.476	84.047	1214.188	3.18%	53.84%
20.0	2109.429	81.025	1295.213	3.06%	57.44%
21.0	1933.203	77.627	1372.839	2.93%	60.88%
22.0	1763.341	74.284	1447.123	2.81%	64.17%
23.0	1602.112	70.616	1517.739	2.67%	67.30%
24.0	1423.984	66.161	1583.901	2.50%	70.24%
25.0	1270.202	61.260	1645.161	2.31%	72.95%
26.0	1209.068	58.523	1703.684	2.21%	75.55%
27.0	1119.075	56.959	1760.642	2.15%	78.07%
28.0	1024.619	54.274	1814.916	2.05%	80.48%
29.0	924.612	50.997	1865.914	1.93%	82.74%
30.0	816.638	47.013	1912.927	1.78%	84.83%
31.0	713.155	42.572	1955.499	1.61%	86.72%
32.0	608.436	37.862	1993.361	1.43%	88.39%
33.0	508.941	32.918	2026.279	1.24%	89.85%
34.0	417.156	28.026	2054.306	1.06%	91.10%
35.0	331.669	23.256	2077.561	0.88%	92.13%
36.0	274.514	19.301	2096.862	0.73%	92.98%
37.0	217.075	16.033	2112.895	0.61%	93.70%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	153.563	12.371	2125.267	0.47%	94.24%
39.0	98.684	8.610	2133.877	0.33%	94.63%
40.0	79.766	6.224	2140.1	0.24%	94.90%
41.0	69.561	5.317	2145.418	0.20%	95.14%
42.0	64.221	4.861	2150.278	0.18%	95.35%
43.0	59.810	4.594	2154.873	0.17%	95.56%
44.0	55.772	4.362	2159.235	0.16%	95.75%
45.0	52.378	4.156	2163.392	0.16%	95.93%
46.0	49.569	3.987	2167.378	0.15%	96.11%
47.0	46.855	3.835	2171.213	0.14%	96.28%
48.0	44.587	3.697	2174.91	0.14%	96.45%
49.0	42.173	3.563	2178.473	0.13%	96.60%
50.0	40.117	3.431	2181.904	0.13%	96.76%
51.0	38.120	3.310	2185.214	0.13%	96.90%
52.0	36.211	3.190	2188.403	0.12%	97.04%
53.0	34.455	3.074	2191.477	0.12%	97.18%
54.0	32.743	2.962	2194.439	0.11%	97.31%
55.0	31.134	2.851	2197.291	0.11%	97.44%
56.0	29.612	2.745	2200.036	0.10%	97.56%
57.0	28.193	2.643	2202.679	0.10%	97.68%
58.0	26.745	2.541	2205.219	0.10%	97.79%
59.0	25.494	2.442	2207.661	0.09%	97.90%
60.0	24.228	2.349	2210.01	0.09%	98.00%
61.0	23.087	2.258	2212.268	0.09%	98.10%
62.0	22.056	2.175	2214.444	0.08%	98.20%
63.0	21.061	2.097	2216.541	0.08%	98.29%
64.0	20.110	2.020	2218.561	0.08%	98.38%
65.0	19.269	1.949	2220.51	0.07%	98.47%
66.0	18.493	1.884	2222.394	0.07%	98.55%
67.0	17.762	1.823	2224.217	0.07%	98.63%
68.0	17.052	1.764	2225.98	0.07%	98.71%
69.0	16.481	1.711	2227.691	0.06%	98.79%
70.0	15.860	1.661	2229.352	0.06%	98.86%
71.0	15.274	1.609	2230.961	0.06%	98.93%
72.0	14.784	1.563	2232.524	0.06%	99.00%
73.0	14.338	1.523	2234.047	0.06%	99.07%
74.0	13.870	1.483	2235.53	0.06%	99.13%
75.0	13.475	1.445	2236.975	0.05%	99.20%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.116	1.412	2238.386	0.05%	99.26%
77.0	12.765	1.380	2239.766	0.05%	99.32%
78.0	12.443	1.349	2241.115	0.05%	99.38%
79.0	12.114	1.319	2242.435	0.05%	99.44%
80.0	11.807	1.290	2243.725	0.05%	99.50%
81.0	11.463	1.258	2244.983	0.05%	99.55%
82.0	11.214	1.230	2246.213	0.05%	99.61%
83.0	10.885	1.201	2247.414	0.05%	99.66%
84.0	10.556	1.168	2248.582	0.04%	99.71%
85.0	10.241	1.135	2249.717	0.04%	99.76%
86.0	10.015	1.107	2250.824	0.04%	99.81%
87.0	9.817	1.085	2251.91	0.04%	99.86%
88.0	9.678	1.068	2252.978	0.04%	99.91%
89.0	9.517	1.052	2254.03	0.04%	99.95%
90.0	9.495	1.042	2255.072	0.04%	100.00%

Zonal flux distribution table

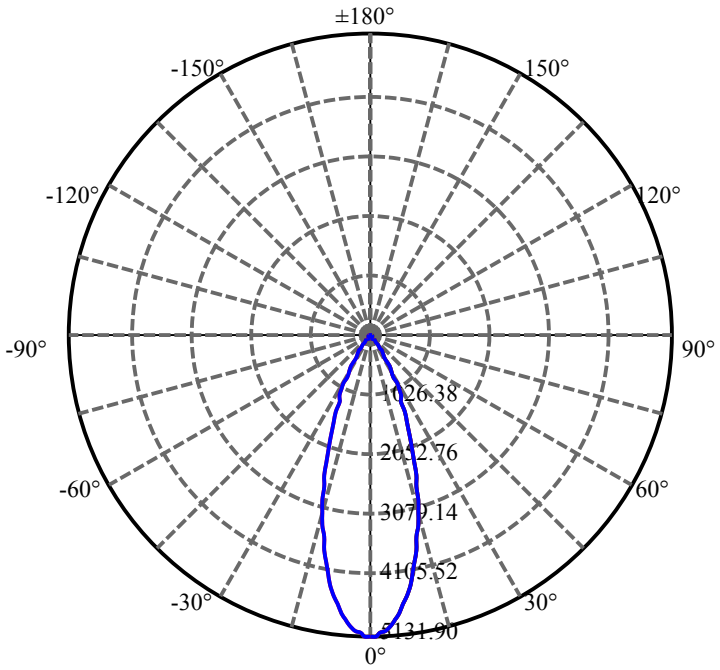
ZONAL LUMEN SUMMARY

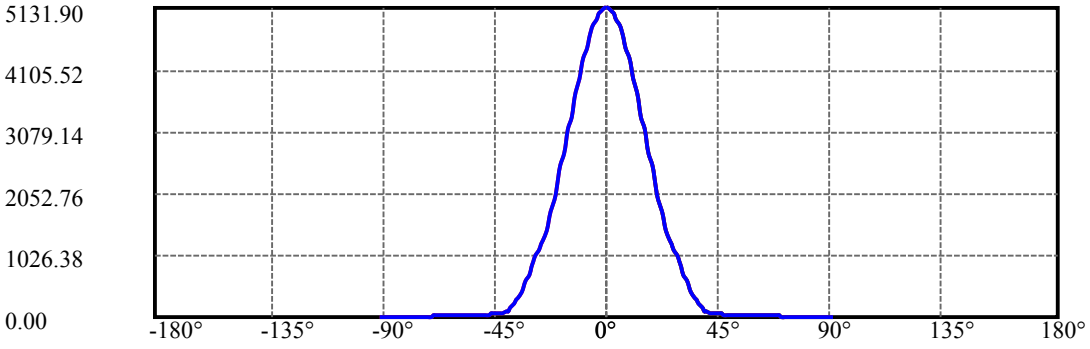
Zone	Lumens	%Lamp	%Fixt
0-30	1912.93	72.27%	84.83%
0-40	2140.10	80.85%	94.90%
0-60	2210.01	83.49%	98.00%
0-90	2254.03	85.15%	99.95%
0-120	2254.03	85.15%	99.95%
0-180	2255.07	85.19%	100.00%
60-90	44.02	1.66%	1.95%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.80	1804.06	68.15%	80.00%

ZONAL LUMEN SUMMARY

0-10	440.75
10-20	854.46
20-30	617.71
30-40	227.17
40-50	41.80
50-60	28.11
60-70	19.34
70-80	14.37
80-90	10.31
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):

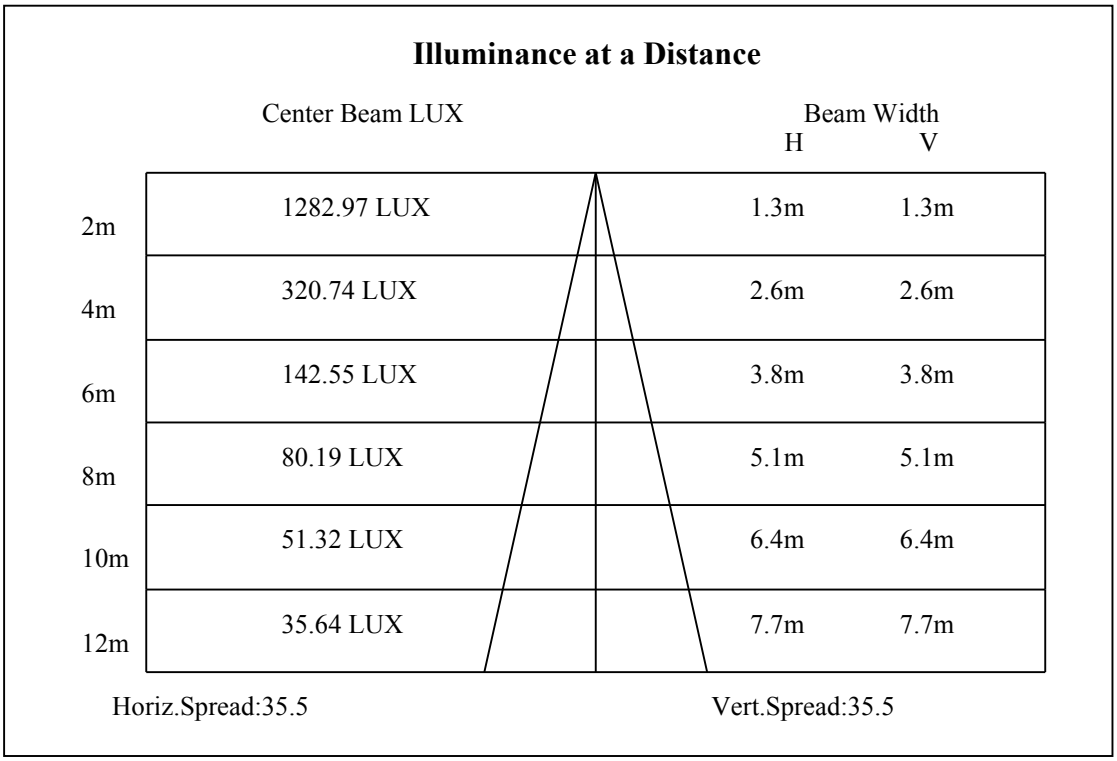
C0/C180:

C90/C270:

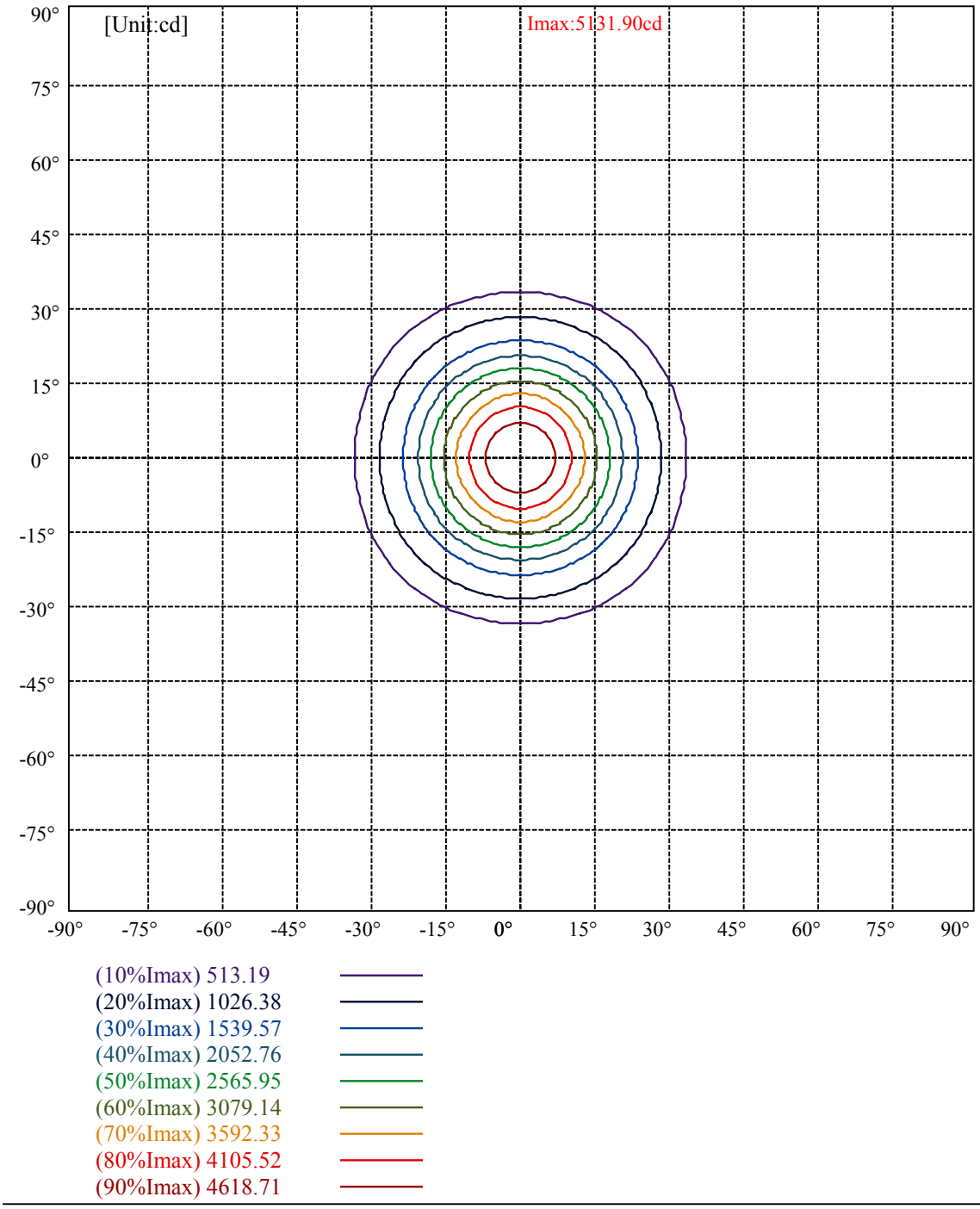
Field angle(10%Imax):C0/180Left:33.0 Right:33.0
:C90/270Left:33.0 Right:33.0

Beam Angle(50%Imax):C0/180Left:17.7 Right:17.7
:C90/270Left:17.7 Right:17.7

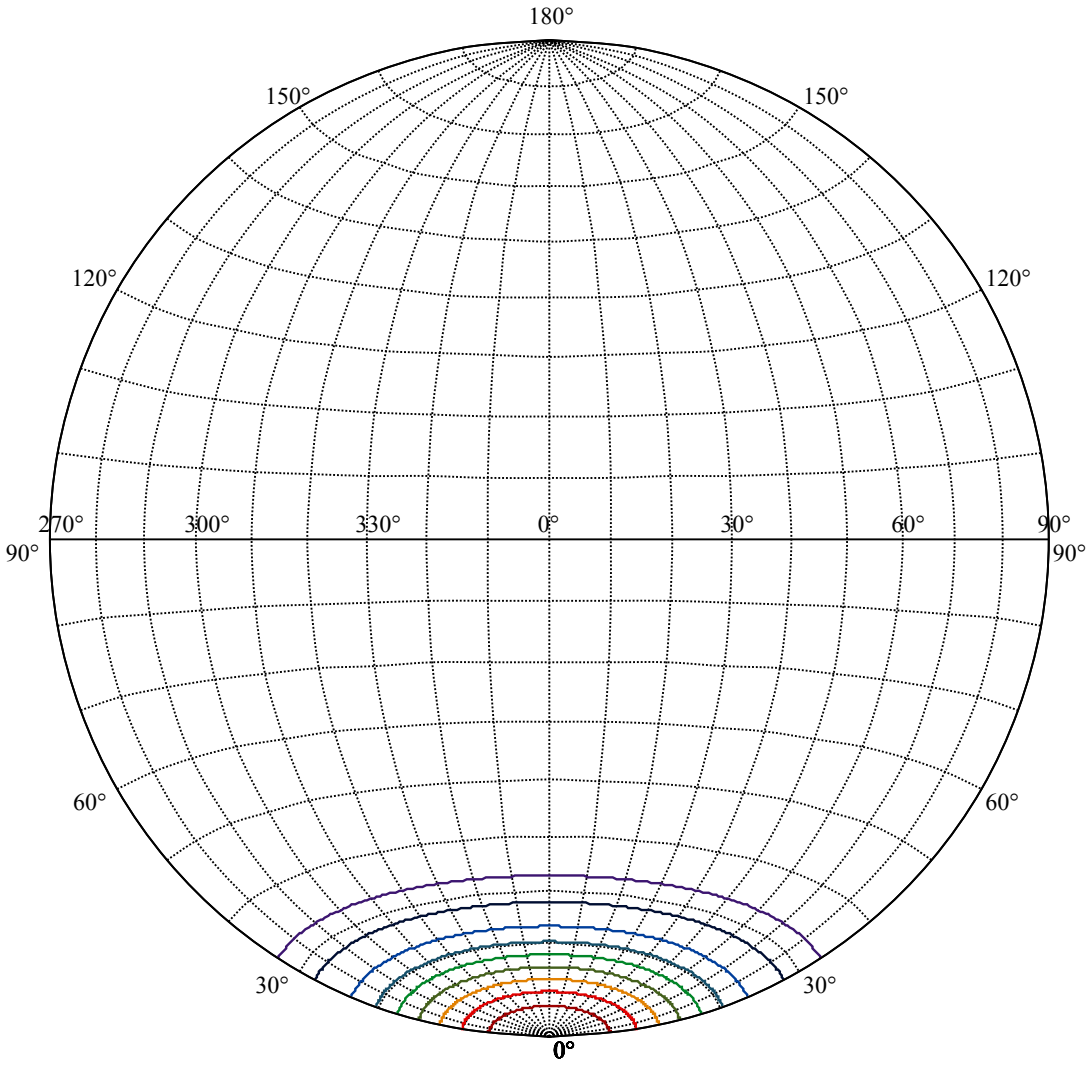
Lux distance Curve



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


[Unit:cd]
Imax:5131.90cd
90°
75°
60°
45°
30°
15°
0°
-15°
-30°
-45°
-60°
-75°
-90°
-90° -75° -60° -45° -30° -15° 0° 15° 30° 45° 60° 75° 90°
(10%Imax) 513.19
(20%Imax) 1026.38
(30%Imax) 1539.57
(40%Imax) 2052.76
(50%Imax) 2565.95
(60%Imax) 3079.14
(70%Imax) 3592.33
(80%Imax) 4105.52
(90%Imax) 4618.71

ISO candela diagram on circular web



[Unit:cd]

Imax:5131.90

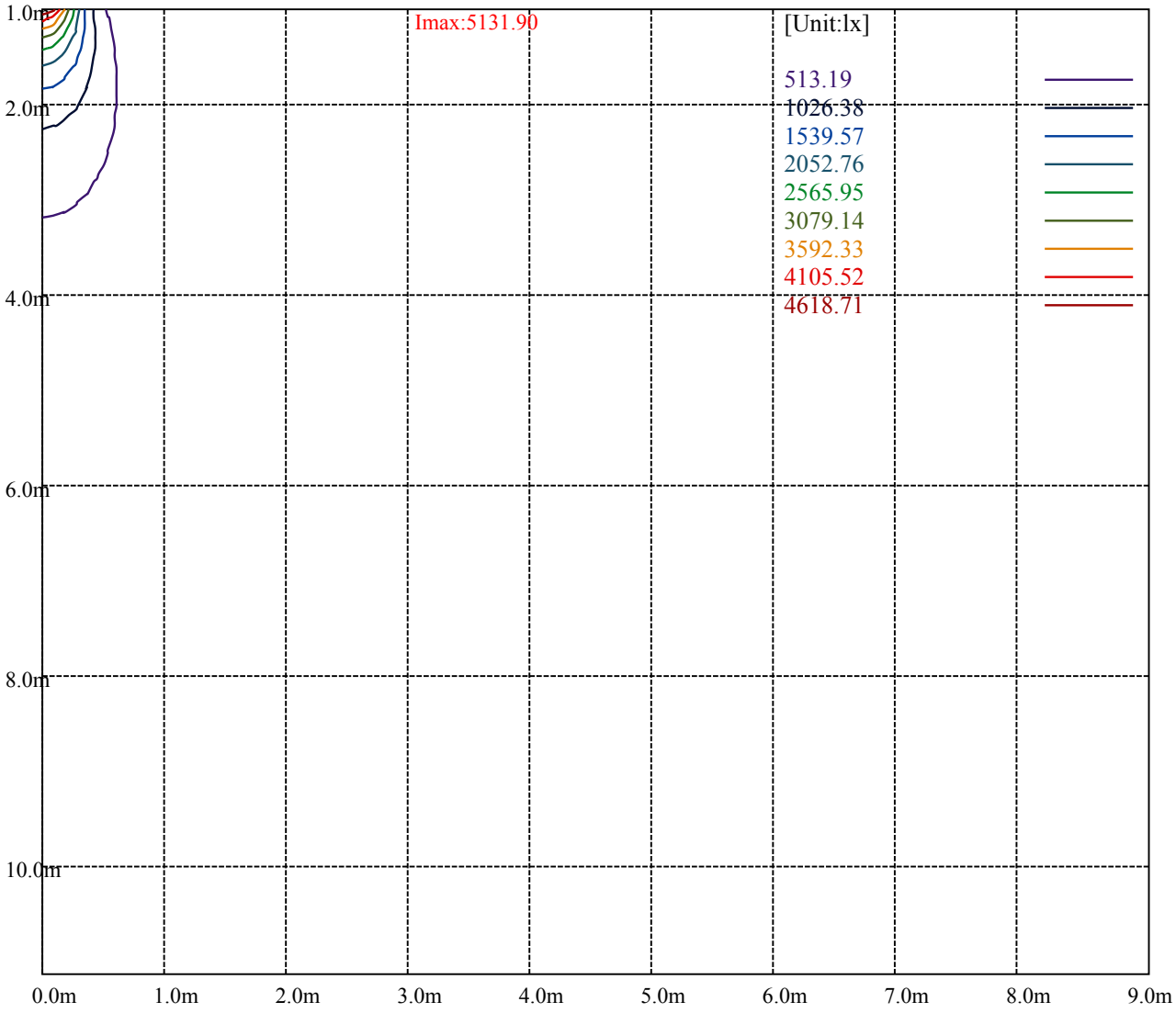
(10%Imax) 513.19
(20%Imax) 1026.38
(30%Imax) 1539.57
(40%Imax) 2052.76
(50%Imax) 2565.95
(60%Imax) 3079.14
(70%Imax) 3592.33
(80%Imax) 4105.52
(90%Imax) 4618.71

Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



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

Luminance Limitting Curve(no luminous side)

Luminance Table

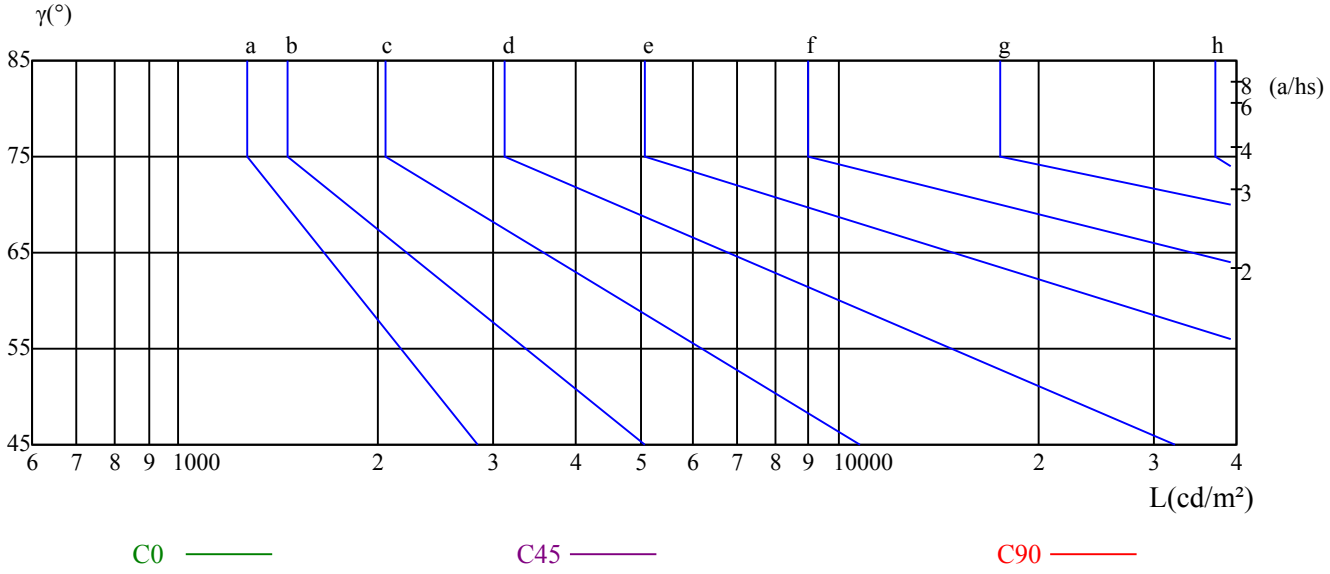
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

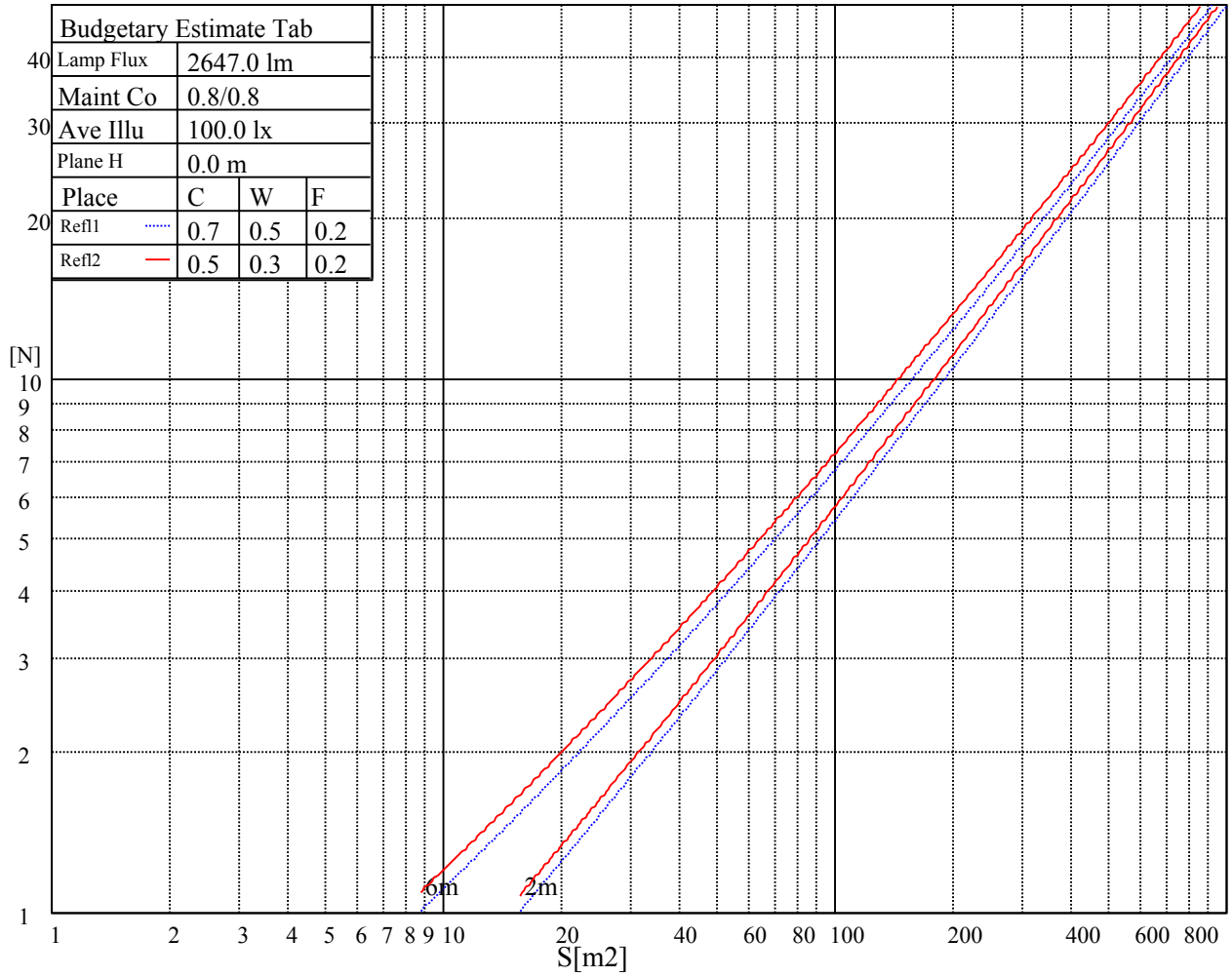
Luminance Limitting Curve



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

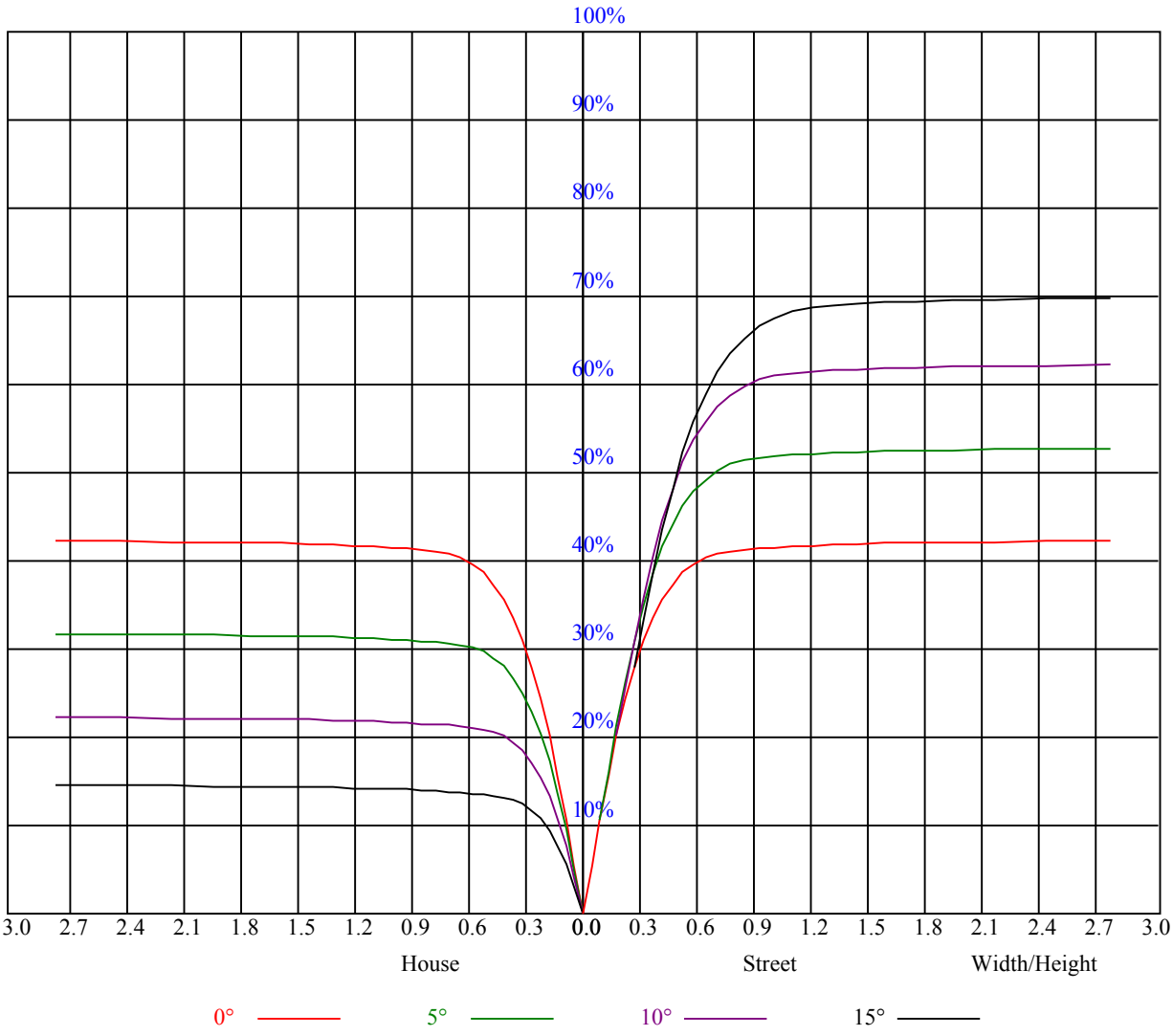


Equipment: GMS1980 Date: 2024/4/16 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

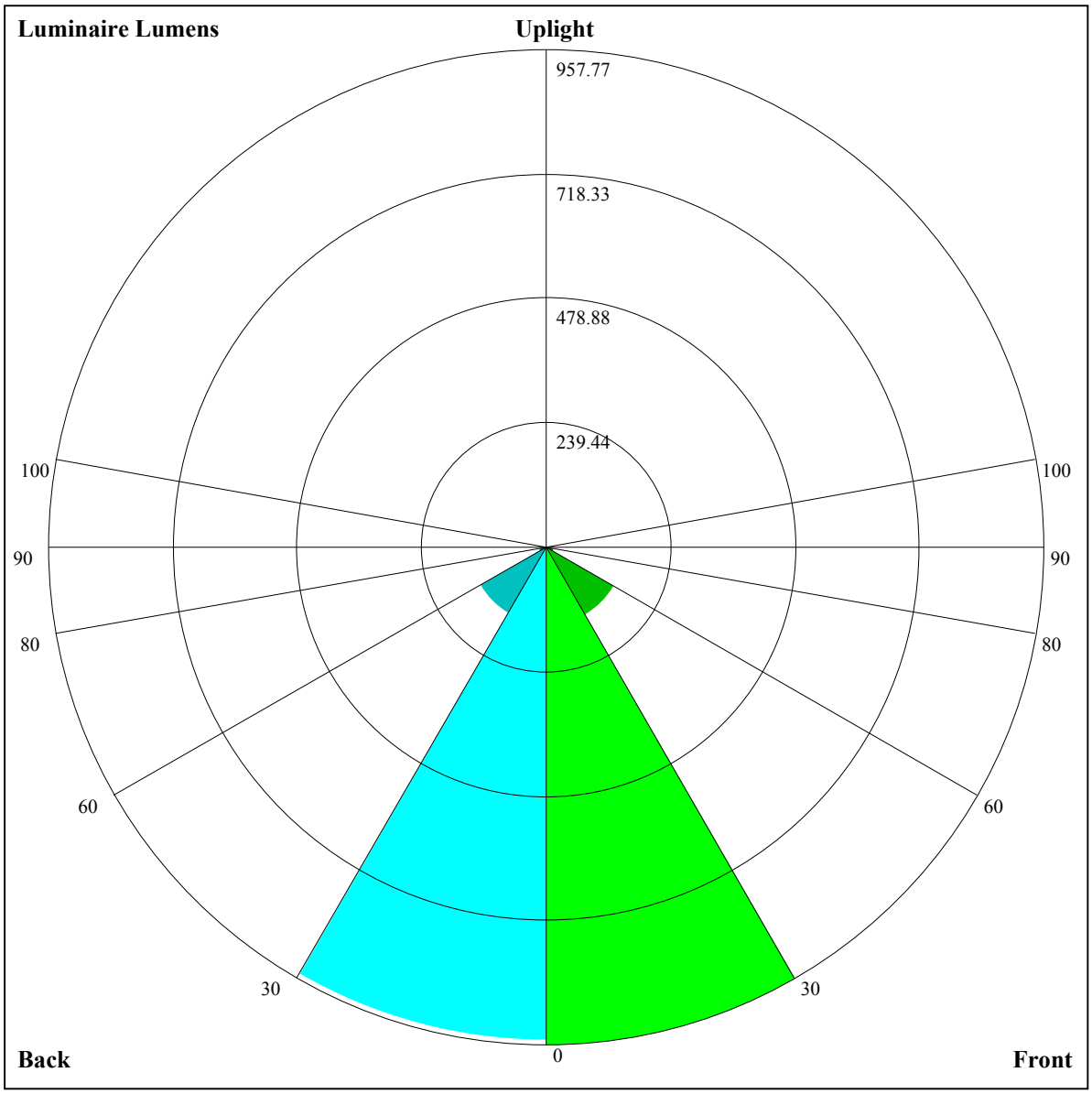
Utilization factor table for indoor luminaire

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	1.01	1.01	1.01	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.90	0.90	0.88	0.87	0.86	0.85	0.84	0.83	0.83	0.82	0.80
2	0.89	0.86	0.83	0.88	0.85	0.82	0.85	0.83	0.81	0.82	0.80	0.79	0.80	0.79	0.77	0.76
3	0.84	0.80	0.77	0.83	0.79	0.77	0.81	0.78	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.72
4	0.80	0.75	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.72	0.70	0.74	0.71	0.69	0.68
5	0.75	0.71	0.68	0.75	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
6	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
7	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
8	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.63	0.60	0.57	0.56
9	0.63	0.58	0.55	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.54
10	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.52

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=957.77,FM=151.69,FH=16.91,FVH=5.7
BL=950.43,BM=146.21,BH=16.84,BVH=5.67
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	5137.16	5118.44	5078.06	5021.29	4949.31	4844.55	4733.36	4614.56	4480.54
45.0	5123.12	5131.90	5127.21	5096.78	5031.24	4965.11	4888.44	4786.61	4642.65
90.0	5135.99	5115.51	5075.71	5016.02	4946.38	4860.35	4731.02	4604.61	4464.74
135.0	5131.31	5129.56	5107.32	5051.72	5002.56	4925.90	4839.87	4708.19	4581.79
180.0	5137.16	5128.97	5085.66	5036.50	4968.03	4865.03	4766.13	4641.48	4509.80
225.0	5123.12	5081.57	5023.04	4941.70	4851.57	4747.99	4589.98	4443.67	4287.42
270.0	5135.99	5133.07	5099.12	5046.45	4969.79	4884.93	4775.49	4662.55	4488.73
315.0	5131.31	5106.73	5048.21	4986.18	4887.86	4789.54	4670.74	4509.22	4355.89
360.0	5137.16	5118.44	5078.06	5021.29	4949.31	4844.55	4733.36	4614.56	4480.54

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4293.85	4115.36	3929.84	3739.65	3497.95	3304.82	3068.39	2886.97	2696.78
45.0	4505.12	4359.98	4153.99	3966.13	3784.12	3541.84	3351.06	3153.84	2916.23
90.0	4310.83	4097.22	3912.87	3720.33	3480.98	3291.36	3101.75	2861.81	2679.80
135.0	4444.26	4289.17	4070.30	3894.15	3655.96	3461.08	3263.27	3024.50	2841.33
180.0	4320.77	4148.72	3970.22	3784.71	3549.45	3353.98	3159.69	2930.87	2745.35
225.0	4120.04	3893.56	3705.70	3515.51	3321.80	3086.54	2901.02	2716.09	2487.26
270.0	4340.09	4172.13	3998.90	3760.13	3573.44	3379.73	3138.03	2944.33	2762.32
315.0	4181.49	3961.45	3774.76	3581.05	3393.78	3152.67	2966.56	2783.39	2598.46
360.0	4293.85	4115.36	3929.84	3739.65	3497.95	3304.82	3068.39	2886.97	2696.78

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2469.71	2289.46	2109.21	1934.23	1729.98	1580.75	1444.98	1163.54	1163.54
45.0	2731.30	2549.88	2320.48	2146.66	1974.61	1801.97	1617.62	1484.19	1361.29
90.0	2496.63	2267.81	2088.73	1921.35	1759.83	1575.48	1443.81	1159.51	1159.51
135.0	2647.62	2467.37	2243.81	2062.98	1891.51	1734.08	1553.25	1422.74	1305.11
180.0	2558.66	2321.65	2134.37	1920.77	1764.51	1596.55	1461.37	1302.77	1203.87
225.0	2301.75	2121.50	1904.97	1743.44	1560.27	1426.25	1148.27	1148.27	1100.46
270.0	2534.08	2339.79	2111.55	1941.84	1784.41	1629.32	1444.98	1330.86	1229.03
315.0	2367.29	2182.36	1962.32	1794.36	1641.61	1472.48	1277.60	1149.73	1149.73
360.0	2469.71	2289.46	2109.21	1934.23	1729.98	1580.75	1444.98	1163.54	1163.54

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1121.41	1032.45	939.29	815.28	715.14	599.68	511.78	426.57	328.37
45.0	1256.54	1144.17	1058.73	948.71	851.56	753.24	635.03	541.39	451.85
90.0	1117.49	1033.92	945.90	825.34	729.48	632.39	513.65	424.05	340.02
135.0	1180.46	1090.92	975.04	880.24	781.92	687.70	572.41	481.70	396.84
180.0	1114.91	1029.47	911.25	801.23	704.67	587.04	498.08	412.06	319.01
225.0	978.96	877.72	773.84	674.24	555.96	464.43	382.33	291.38	230.34
270.0	1135.98	1032.98	934.66	828.15	726.91	597.57	503.94	390.40	309.64
315.0	1046.85	955.32	858.17	759.91	639.59	545.43	454.31	369.69	277.28
360.0	1121.41	1032.45	939.29	815.28	715.14	599.68	511.78	426.57	328.37

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	259.25	195.76	128.87	93.17	75.38	68.71	62.27	58.35	55.07
45.0	368.17	311.40	311.40	148.00	106.04	77.66	69.88	64.55	60.57
90.0	248.95	185.98	133.37	90.07	74.73	67.89	63.15	57.94	54.07
135.0	317.84	299.69	217.12	119.21	89.36	74.79	69.64	64.96	58.58
180.0	301.45	301.45	122.96	90.89	76.14	70.75	64.73	60.69	56.30
225.0	177.97	127.34	99.49	84.51	75.73	69.29	64.49	58.93	55.13
270.0	309.64	158.36	111.25	83.51	70.75	64.20	60.10	57.00	53.84
315.0	212.85	156.61	104.05	80.12	69.99	63.20	59.52	56.06	52.61
360.0	259.25	195.76	128.87	93.17	75.38	68.71	62.27	58.35	55.07

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	52.14	48.92	46.58	44.48	41.84	39.91	37.63	35.93	34.29
45.0	54.78	52.03	48.87	46.53	44.42	41.79	39.85	38.04	36.34
90.0	51.32	48.81	45.94	43.89	41.38	39.44	37.69	35.58	34.00
135.0	55.07	52.38	49.04	46.64	43.89	41.79	39.80	37.98	35.82
180.0	53.37	50.04	47.70	45.41	42.78	40.67	38.86	36.64	34.94
225.0	51.79	48.75	45.47	43.13	40.91	38.86	36.58	34.76	32.66
270.0	50.62	48.16	45.94	43.95	41.49	39.68	37.51	35.82	34.24
315.0	49.92	47.46	45.30	42.66	40.67	38.80	37.04	34.94	33.36
360.0	52.14	48.92	46.58	44.48	41.84	39.91	37.63	35.93	34.29

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	32.77	30.84	29.44	28.03	26.69	25.22	24.05	23.06	21.95
45.0	34.35	32.77	31.25	29.85	28.15	26.80	25.57	24.05	22.94
90.0	32.48	31.02	29.20	27.80	26.45	25.34	23.88	22.82	21.95
135.0	34.12	32.48	30.96	29.55	27.80	26.51	25.34	23.88	22.77
180.0	33.18	31.31	29.85	28.44	27.10	25.57	24.40	23.29	22.36
225.0	31.19	29.67	27.92	26.57	25.34	24.23	22.88	21.95	21.01
270.0	32.42	30.96	29.55	28.27	26.63	25.52	24.35	23.29	22.06
315.0	31.43	30.02	28.73	27.04	25.81	24.76	23.35	22.36	21.42
360.0	32.77	30.84	29.44	28.03	26.69	25.22	24.05	23.06	21.95

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.95	20.13	19.25	18.55	17.73	17.03	16.50	15.86	15.27
45.0	22.00	20.89	20.01	19.08	18.43	17.67	17.09	16.39	15.80
90.0	20.78	19.96	19.20	18.32	17.56	17.03	16.27	15.68	15.16
135.0	21.71	20.72	19.90	19.02	18.26	17.56	16.97	16.33	15.74
180.0	21.19	20.25	19.31	18.55	17.85	17.03	16.50	15.98	15.27
225.0	20.13	19.14	18.38	17.73	16.97	16.33	15.80	15.16	14.75
270.0	21.19	20.25	19.31	18.61	17.85	17.09	16.56	15.86	15.27
315.0	20.54	19.55	18.79	18.08	17.44	16.68	16.15	15.63	14.92
360.0	20.95	20.13	19.25	18.55	17.73	17.03	16.50	15.86	15.27

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.75	14.34	13.87	13.52	13.11	12.82	12.41	12.11	11.82
45.0	15.22	14.81	14.28	13.87	13.40	13.17	12.82	12.47	12.11
90.0	14.75	14.22	13.81	13.40	13.11	12.70	12.41	12.00	11.82
135.0	15.16	14.75	14.16	13.75	13.40	12.99	12.70	12.35	12.06
180.0	14.81	14.40	13.99	13.46	13.11	12.82	12.52	12.23	11.82
225.0	14.16	13.75	13.40	13.05	12.70	12.35	12.11	11.76	11.41
270.0	14.86	14.46	13.87	13.52	13.23	12.82	12.41	12.11	11.88
315.0	14.57	13.99	13.58	13.23	12.87	12.47	12.17	11.88	11.53
360.0	14.75	14.34	13.87	13.52	13.11	12.82	12.41	12.11	11.82

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.41	11.29	11.00	10.53	10.18	10.01	9.83	9.71	9.54
45.0	11.82	11.53	11.18	11.00	10.48	10.24	10.07	9.83	9.66
90.0	11.53	11.24	10.94	10.53	10.24	10.01	9.83	9.66	9.48
135.0	11.76	11.41	11.12	10.83	10.42	10.18	9.89	9.71	9.66
180.0	11.53	11.24	10.89	10.48	10.24	10.07	9.77	9.66	9.42
225.0	11.06	10.89	10.48	10.18	10.01	9.83	9.66	9.48	9.48
270.0	11.41	11.12	10.83	10.59	10.24	9.95	9.83	9.71	9.48
315.0	11.18	11.00	10.65	10.30	10.12	9.83	9.66	9.66	9.42
360.0	11.41	11.29	11.00	10.53	10.18	10.01	9.83	9.71	9.54

Intensity data(cd)

C/γ(°)	90.0
0.0	9.42
45.0	9.48
90.0	9.42
135.0	9.42
180.0	9.48
225.0	9.48
270.0	9.66
315.0	9.60
360.0	9.42