NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:
LumCAT: 2-2520-L
Luminaire: 92.70.412.00
Report No: 2024807-B013
Ballast type: AC

Test No: 2024807-C013	Voltage(V): 34.950
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.450
Lamp flux(lm): 2561.0	Power (W): 15.727
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2359.30, Efficiency(%): 92.12% , Luminous Efficacy(lm/W): 150.02
Central intensity(cd): 5401.100, Maximum intensity(cd): 5401.100
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=37.8
[C90/270]Total=37.8
Field angle(10%Imax): [C0/180]Total=62.2
[C90/270]Total=62.2
Maximum s/h(1/2): C0_180=0.62 C90_270=0.62
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(%): 92.12%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.024%

NT 2-2520-L

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5401.100	0.000	0	0.00%	0.00%
1.0	5384.202	5.161	5.161	0.20%	0.22%
2.0	5355.526	15.415	20.575	0.60%	0.87%
3.0	5303.514	25.493	46.068	1.00%	1.95%
4.0	5235.701	35.278	81.346	1.38%	3.45%
5.0	5160.280	44.723	126.069	1.75%	5.34%
6.0	5070.741	53.767	179.836	2.10%	7.62%
7.0	4972.276	62.337	242.173	2.43%	10.26%
8.0	4861.157	70.376	312.549	2.75%	13.25%
9.0	4754.426	77.929	390.478	3.04%	16.55%
10.0	4630.944	84.934	475.412	3.32%	20.15%
11.0	4490.270	91.140	566.552	3.56%	24.01%
12.0	4325.164	96.365	662.917	3.76%	28.10%
13.0	4145.866	100.530	763.447	3.93%	32.36%
14.0	3938.623	103.481	866.928	4.04%	36.75%
15.0	3712.726	105.041	971.969	4.10%	41.20%
16.0	3456.251	105.046	1077.014	4.10%	45.65%
17.0	3194.802	103.575	1180.589	4.04%	50.04%
18.0	2925.525	100.911	1281.5	3.94%	54.32%
19.0	2669.197	97.337	1378.837	3.80%	58.44%
20.0	2395.750	92.703	1471.539	3.62%	62.37%
21.0	2128.888	86.882	1558.422	3.39%	66.05%
22.0	1882.362	80.608	1639.029	3.15%	69.47%
23.0	1670.510	74.549	1713.578	2.91%	72.63%
24.0	1413.084	67.418	1780.997	2.63%	75.49%
25.0	1268.095	60.964	1841.961	2.38%	78.07%
26.0	1167.531	57.493	1899.454	2.24%	80.51%
27.0	1029.264	53.745	1953.199	2.10%	82.79%
28.0	900.647	48.861	2002.06	1.91%	84.86%
29.0	777.449	43.904	2045.964	1.71%	86.72%
30.0	659.219	38.790	2084.754	1.51%	88.36%
31.0	552.628	33.724	2118.478	1.32%	89.79%
32.0	458.780	28.976	2147.453	1.13%	91.02%
33.0	375.912	24.590	2172.044	0.96%	92.06%
34.0	304.061	20.578	2192.622	0.80%	92.94%
35.0	262.905	17.608	2210.23	0.69%	93.68%
36.0	208.325	15.004	2225.234	0.59%	94.32%
37.0	151.522	11.736	2236.97	0.46%	94.82%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	120.161	9.068	2246.038	0.35%	95.20%
39.0	94.155	7.315	2253.354	0.29%	95.51%
40.0	75.787	5.927	2259.281	0.23%	95.76%
41.0	61.983	4.906	2264.186	0.19%	95.97%
42.0	52.941	4.175	2268.362	0.16%	96.15%
43.0	46.321	3.677	2272.039	0.14%	96.30%
44.0	41.463	3.313	2275.352	0.13%	96.44%
45.0	37.762	3.045	2278.397	0.12%	96.57%
46.0	34.989	2.845	2281.242	0.11%	96.69%
47.0	32.634	2.690	2283.931	0.11%	96.81%
48.0	30.746	2.562	2286.493	0.10%	96.91%
49.0	29.225	2.463	2288.956	0.10%	97.02%
50.0	27.842	2.379	2291.335	0.09%	97.12%
51.0	26.701	2.308	2293.643	0.09%	97.22%
52.0	25.808	2.253	2295.896	0.09%	97.31%
53.0	24.931	2.207	2298.103	0.09%	97.41%
54.0	24.199	2.165	2300.269	0.08%	97.50%
55.0	23.541	2.131	2302.4	0.08%	97.59%
56.0	22.999	2.103	2304.503	0.08%	97.68%
57.0	22.421	2.077	2306.58	0.08%	97.77%
58.0	21.924	2.051	2308.63	0.08%	97.85%
59.0	21.536	2.032	2310.662	0.08%	97.94%
60.0	21.185	2.018	2312.68	0.08%	98.02%
61.0	20.812	2.004	2314.685	0.08%	98.11%
62.0	20.446	1.988	2316.673	0.08%	98.19%
63.0	20.044	1.969	2318.642	0.08%	98.28%
64.0	19.583	1.944	2320.586	0.08%	98.36%
65.0	19.093	1.914	2322.501	0.07%	98.44%
66.0	18.559	1.879	2324.379	0.07%	98.52%
67.0	18.003	1.838	2326.218	0.07%	98.60%
68.0	17.484	1.798	2328.015	0.07%	98.67%
69.0	16.928	1.755	2329.771	0.07%	98.75%
70.0	16.401	1.712	2331.482	0.07%	98.82%
71.0	15.969	1.673	2333.155	0.07%	98.89%
72.0	15.487	1.636	2334.791	0.06%	98.96%
73.0	15.033	1.596	2336.387	0.06%	99.03%
74.0	14.704	1.563	2337.95	0.06%	99.10%
75.0	14.404	1.538	2339.488	0.06%	99.16%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.111	1.514	2341.002	0.06%	99.22%
77.0	13.753	1.486	2342.488	0.06%	99.29%
78.0	13.475	1.458	2343.945	0.06%	99.35%
79.0	13.168	1.431	2345.377	0.06%	99.41%
80.0	12.846	1.402	2346.779	0.05%	99.47%
81.0	12.538	1.373	2348.152	0.05%	99.53%
82.0	12.239	1.344	2349.495	0.05%	99.58%
83.0	11.968	1.316	2350.811	0.05%	99.64%
84.0	11.719	1.290	2352.102	0.05%	99.70%
85.0	11.485	1.266	2353.368	0.05%	99.75%
86.0	11.149	1.237	2354.605	0.05%	99.80%
87.0	10.871	1.205	2355.81	0.05%	99.85%
88.0	10.688	1.181	2356.991	0.05%	99.90%
89.0	10.505	1.162	2358.153	0.05%	99.95%
90.0	10.358	1.144	2359.297	0.04%	100.00%

Zonal flux distribution table

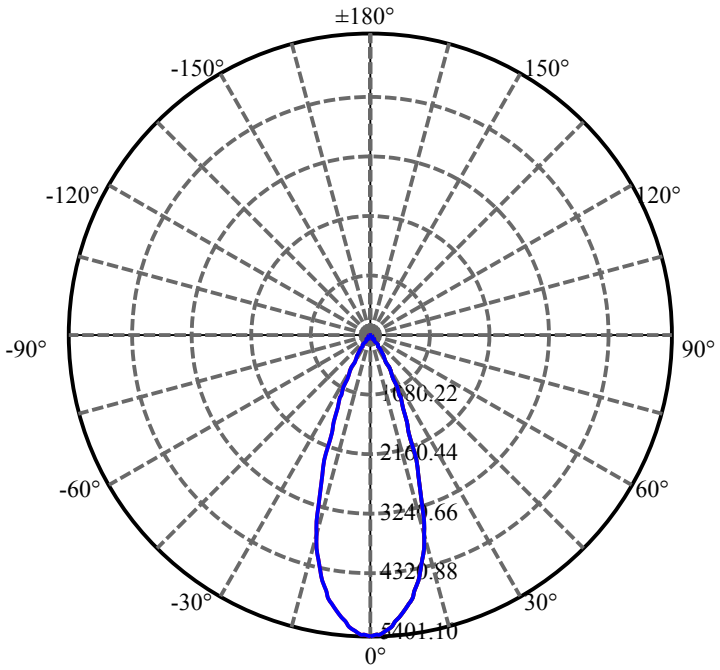
ZONAL LUMEN SUMMARY

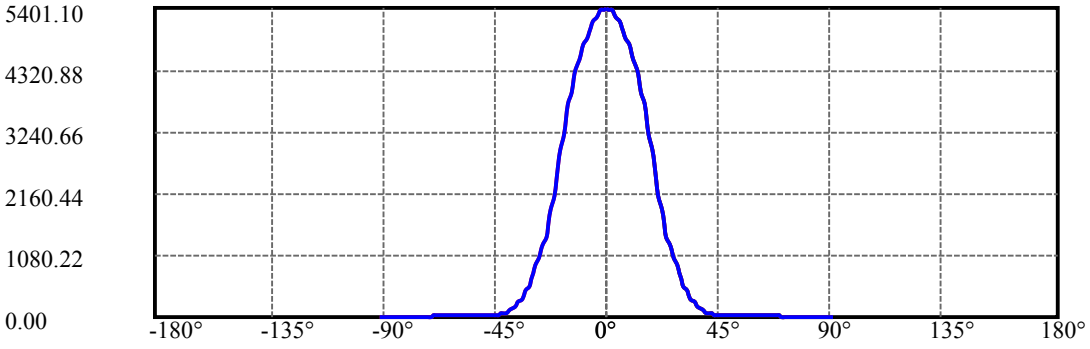
Zone	Lumens	%Lamp	%Fixt
0-30	2084.75	81.40%	88.36%
0-40	2259.28	88.22%	95.76%
0-60	2312.68	90.30%	98.02%
0-90	2358.15	92.08%	99.95%
0-120	2358.15	92.08%	99.95%
0-180	2359.30	92.12%	100.00%
60-90	45.47	1.78%	1.93%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.79	1887.44	73.70%	80.00%

ZONAL LUMEN SUMMARY

0-10	475.41
10-20	996.13
20-30	613.21
30-40	174.53
40-50	32.05
50-60	21.34
60-70	18.80
70-80	15.30
80-90	11.37
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:

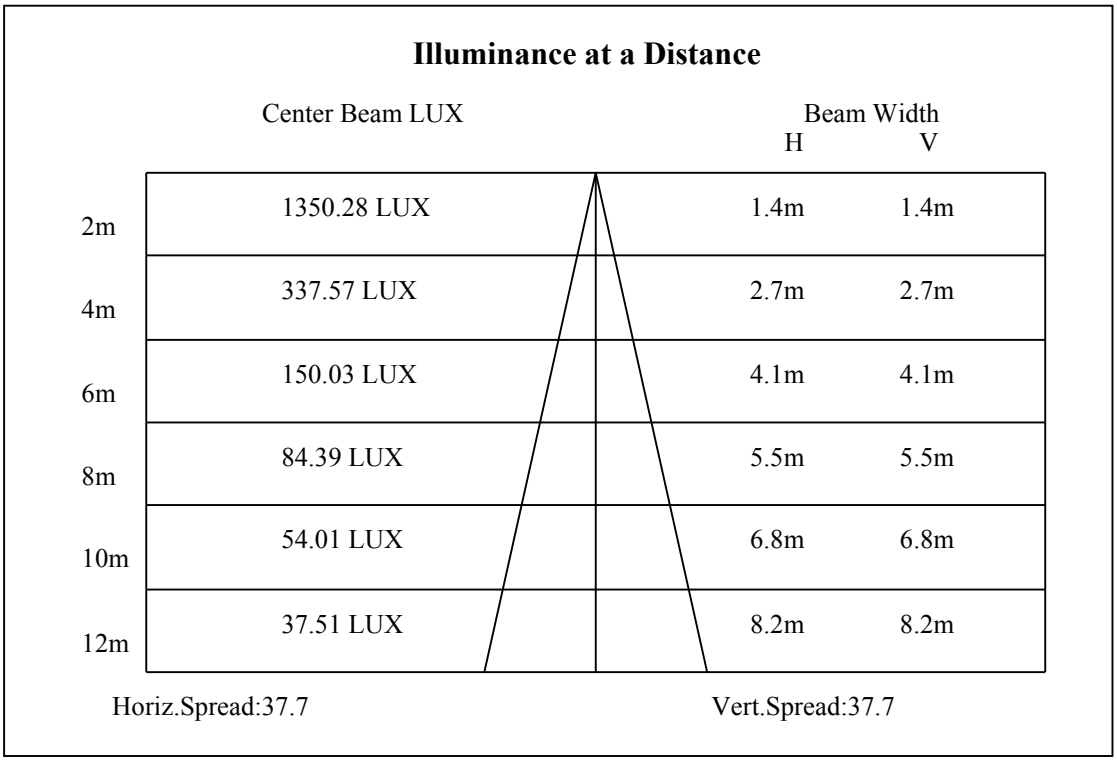
C90/C270:

Field angle(10%Imax):C0/180Left:31.1 Right:31.1
:C90/270Left:31.1 Right:31.1

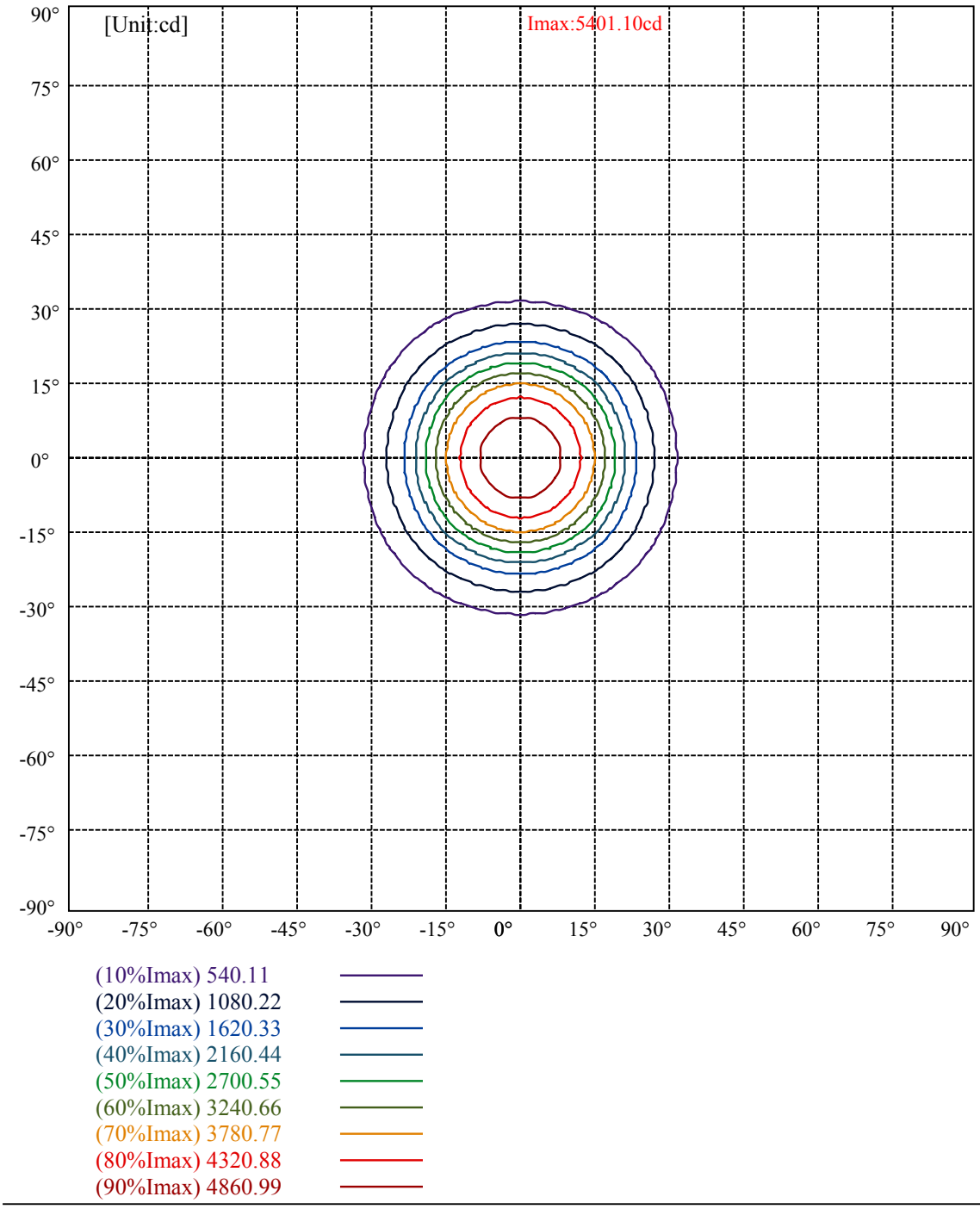
Beam Angle(50%Imax):C0/180Left:18.9 Right:18.9
:C90/270Left:18.9 Right:18.9

Equipment: GMS1980	Date: 2024/8/7	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Lux distance Curve

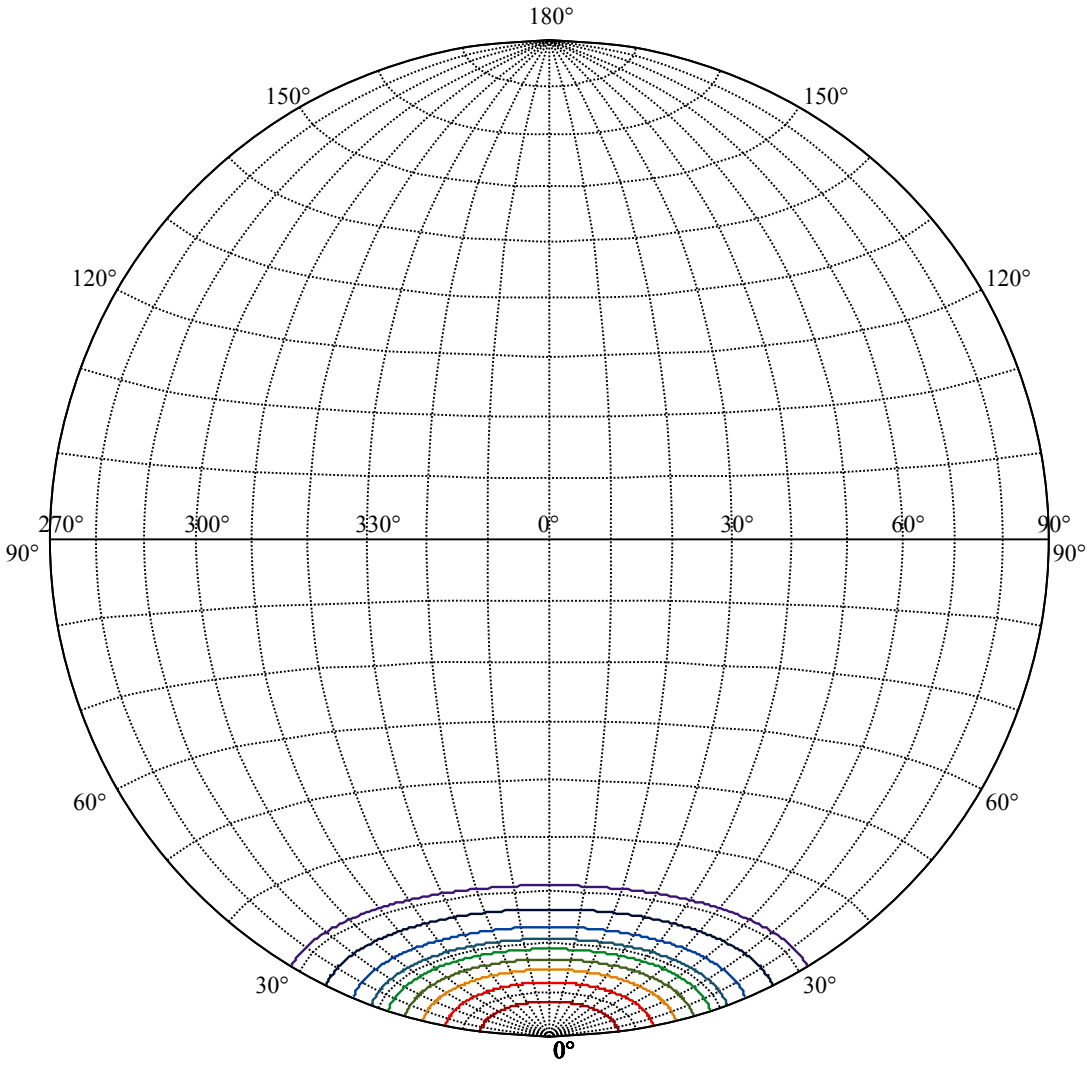


ISO-Intensity(V-H)



Equipment: GMS1980 Date: 2024/8/7 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO candela diagram on circular web

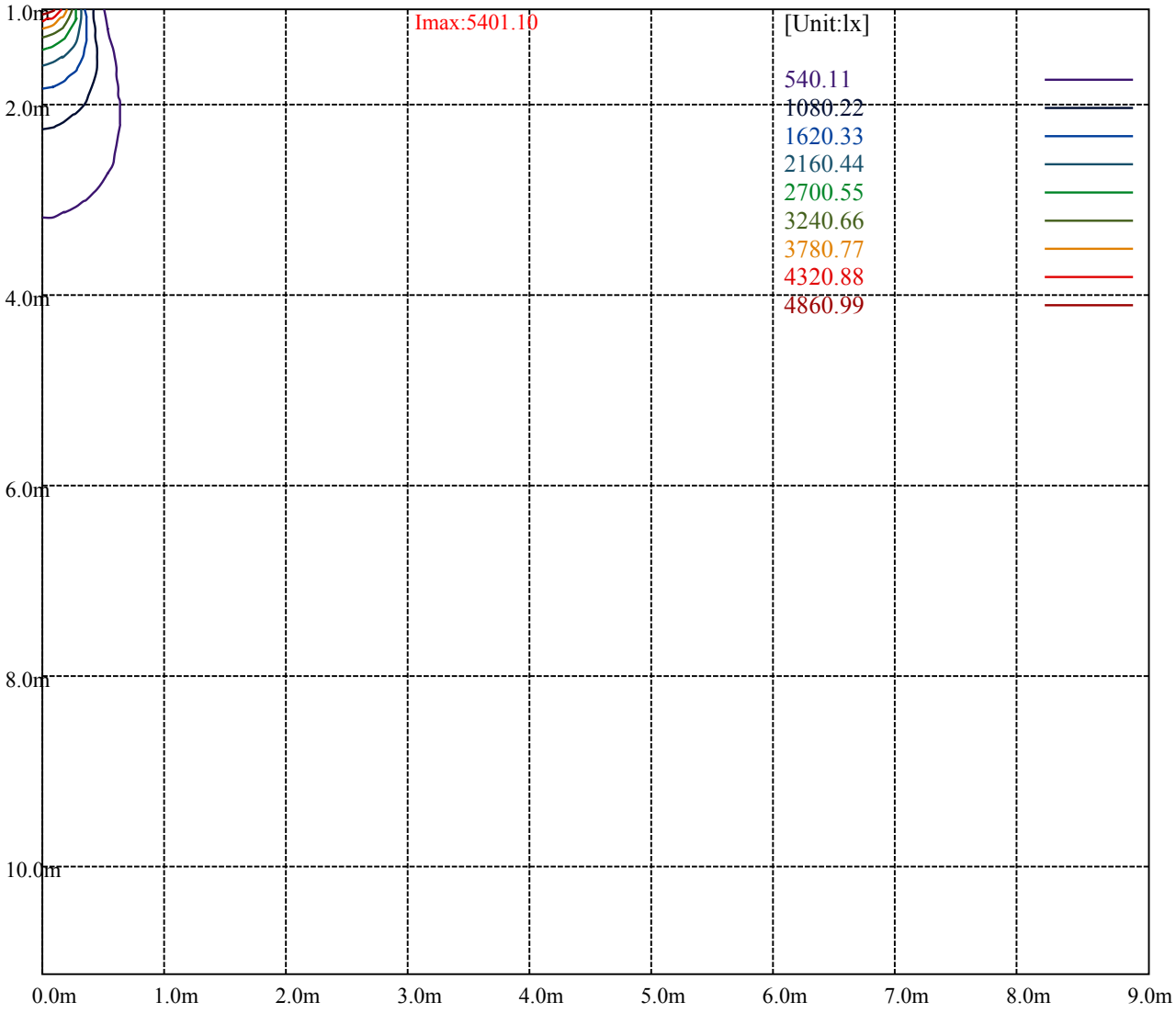


[Unit:cd]

Imax:5401.10

(10%Imax) 540.11
(20%Imax) 1080.22
(30%Imax) 1620.33
(40%Imax) 2160.44
(50%Imax) 2700.55
(60%Imax) 3240.66
(70%Imax) 3780.77
(80%Imax) 4320.88
(90%Imax) 4860.99

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/7
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 2-2520-L

Luminance Limitting Curve(no luminous side)

Luminance Table

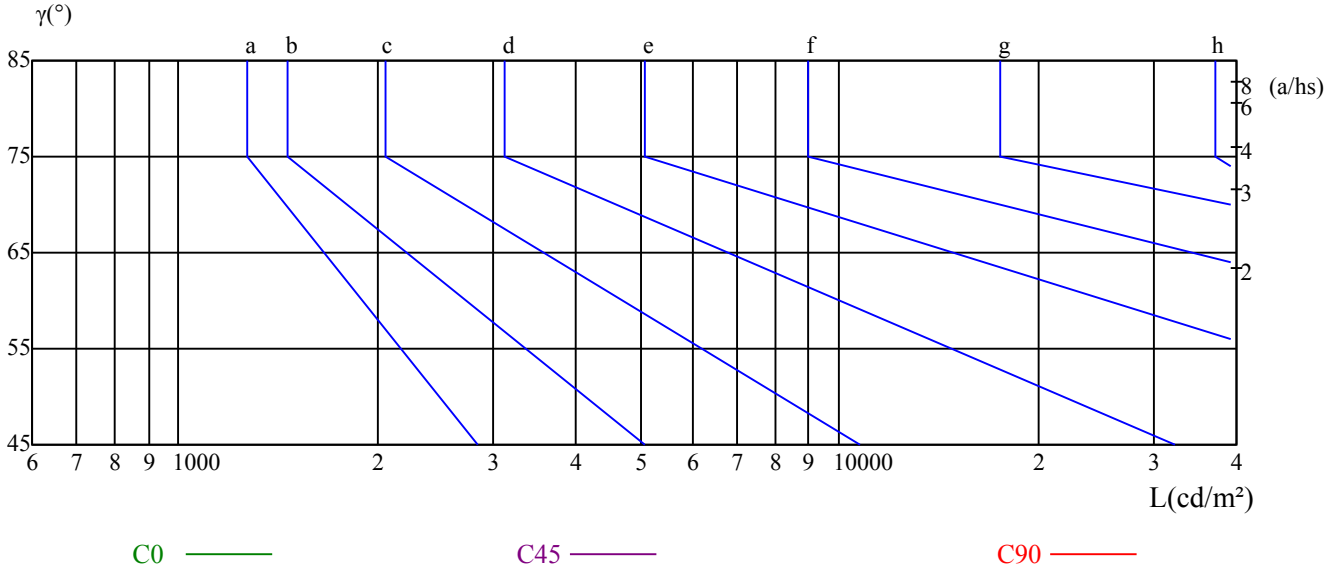
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

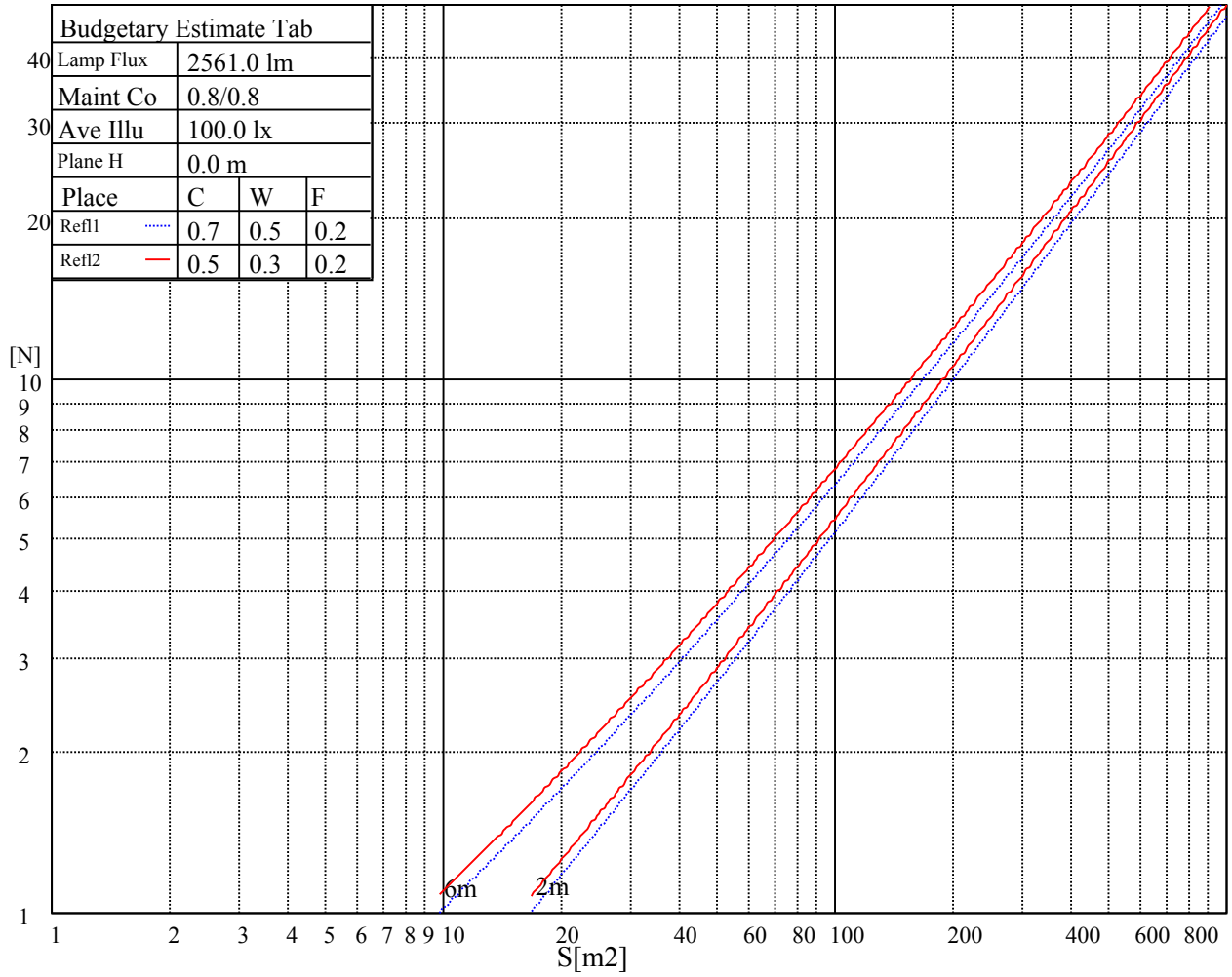
Luminance Limitting Curve



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

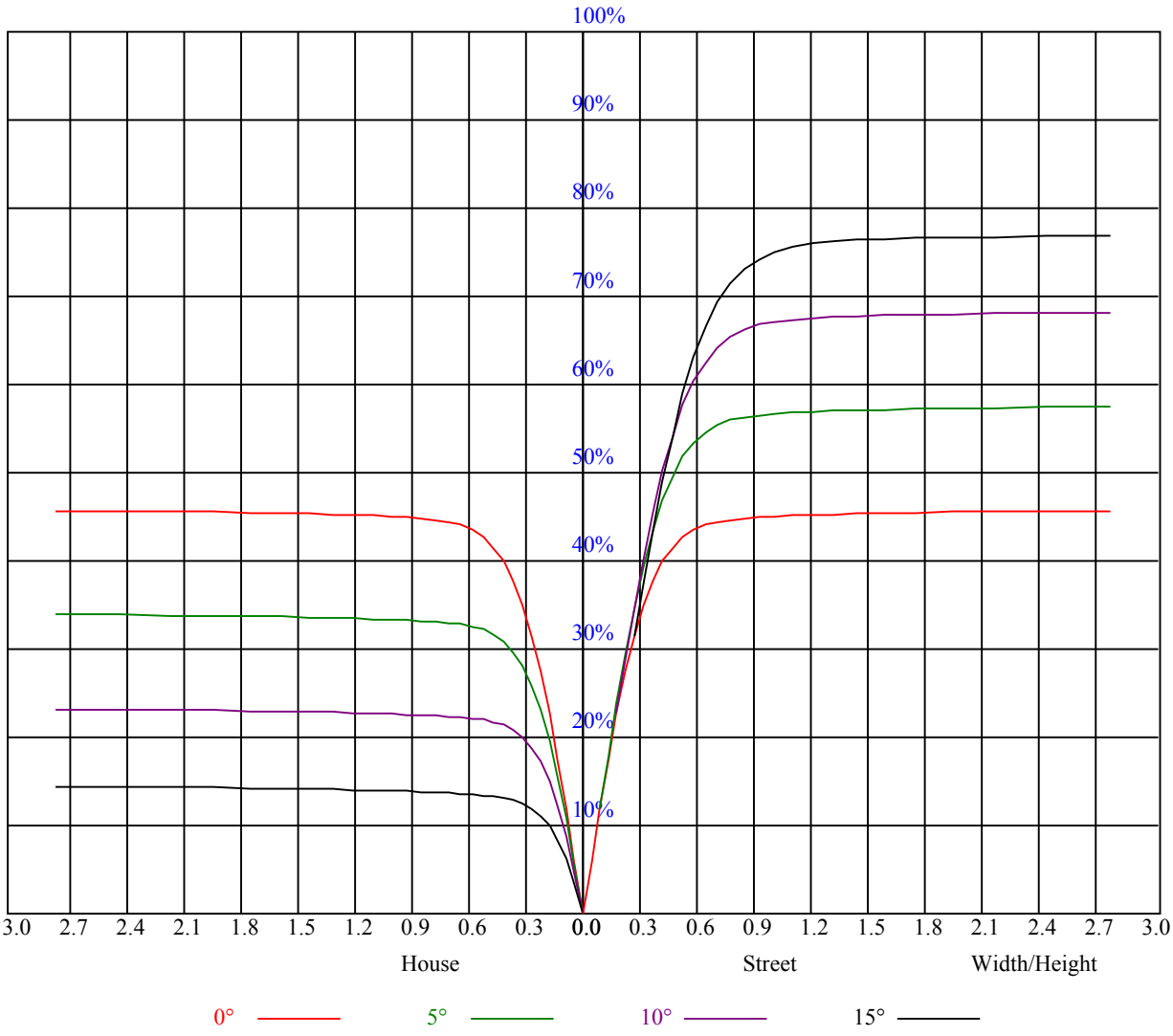


Equipment: GMS1980 Date: 2024/8/7 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

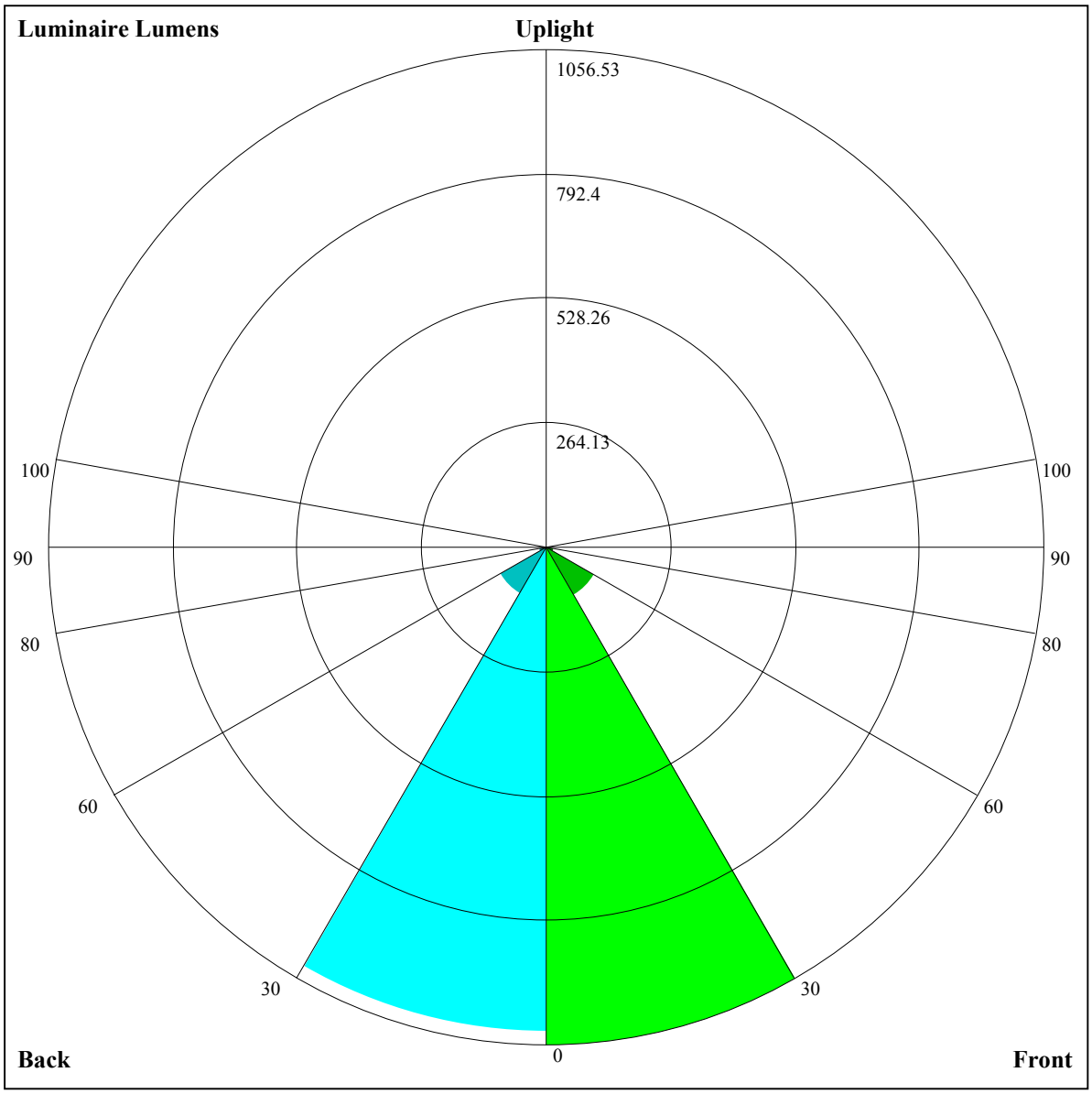
Utilization factor table for indoor luminaire

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	1.10	1.10	1.10	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.97	0.97	0.95	0.94	0.94	0.92	0.91	0.90	0.90	0.89	0.87
2	0.97	0.93	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.90	0.88	0.86	0.87	0.85	0.84	0.83
3	0.91	0.87	0.84	0.90	0.87	0.84	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.78
4	0.87	0.82	0.79	0.86	0.82	0.79	0.84	0.80	0.78	0.82	0.79	0.77	0.81	0.78	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.74	0.80	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.73	0.71
6	0.79	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	0.69	0.68
7	0.75	0.71	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.65
8	0.72	0.68	0.65	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.63
9	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.67	0.64	0.61	0.60
10	0.67	0.62	0.59	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.58

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/8/7	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1056.53,FM=117.46,FH=16.6,FVH=6.23
BL=1029.81,BM=113.75,BH=17.4,BVH=6.28
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	5409.88	5402.27	5388.81	5360.13	5301.03	5246.60	5172.86	5097.37	4975.06
45.0	5380.03	5403.44	5405.20	5408.71	5358.38	5309.80	5250.70	5186.32	5073.37
90.0	5392.32	5382.37	5350.19	5288.74	5240.75	5164.08	5090.93	4968.62	4866.79
135.0	5422.17	5389.40	5374.76	5315.07	5238.41	5163.50	5058.74	4970.96	4831.09
180.0	5409.88	5389.98	5349.60	5270.59	5183.98	5092.10	4966.28	4861.52	4757.35
225.0	5380.03	5326.19	5261.23	5169.35	5076.89	4975.06	4859.77	4747.40	4639.72
270.0	5392.32	5404.61	5362.48	5307.46	5236.65	5157.65	5079.81	4954.57	4859.18
315.0	5422.17	5375.35	5351.94	5308.05	5249.53	5173.45	5086.83	4991.44	4886.69
360.0	5409.88	5402.27	5388.81	5360.13	5301.03	5246.60	5172.86	5097.37	4975.06

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4863.86	4730.43	4585.30	4384.56	4199.05	3929.84	3694.58	3441.18	3114.63
45.0	4989.10	4877.32	4740.97	4589.98	4428.46	4248.21	3997.73	3764.81	3521.36
90.0	4757.94	4622.17	4448.35	4279.22	4097.22	3894.15	3620.85	3364.52	3119.31
135.0	4740.97	4617.48	4491.66	4316.09	4148.13	3967.88	3763.06	3475.71	3226.40
180.0	4632.70	4518.00	4391.59	4245.87	4048.65	3862.54	3656.54	3428.31	3127.50
225.0	4533.80	4391.59	4260.50	4114.19	3942.13	3714.48	3503.80	3222.89	2982.95
270.0	4766.13	4665.47	4521.51	4392.17	4208.41	4045.72	3853.18	3584.56	3357.49
315.0	4750.92	4625.09	4482.30	4279.22	4094.88	3846.16	3612.07	3368.03	3108.77
360.0	4863.86	4730.43	4585.30	4384.56	4199.05	3929.84	3694.58	3441.18	3114.63

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2858.88	2604.31	2351.49	2041.91	1824.79	1624.06	1456.68	1149.26	1149.26
45.0	3202.99	2958.96	2695.02	2367.88	2123.84	1895.60	1650.98	1470.73	1313.89
90.0	2820.84	2564.51	2311.70	2012.65	1794.36	1592.46	1162.32	1162.32	1097.82
135.0	2989.39	2743.59	2429.91	2177.68	1883.31	1670.29	1491.80	1304.53	1167.00
180.0	2896.34	2646.45	2335.11	2108.62	1831.23	1631.67	1457.27	1301.60	1133.05
225.0	2735.40	2430.50	2200.50	1974.02	1762.76	1516.96	1165.83	1165.83	1072.78
270.0	3115.21	2868.25	2556.32	2301.16	2062.98	1845.86	1599.48	1431.52	1276.43
315.0	2785.14	2537.01	2285.95	2047.18	1775.63	1587.19	1320.33	1158.98	1130.01
360.0	2858.88	2604.31	2351.49	2041.91	1824.79	1624.06	1456.68	1149.26	1149.26

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1029.35	881.93	771.56	667.80	550.99	467.65	390.40	305.31	249.60
45.0	1177.53	1014.25	889.60	773.14	664.87	543.15	458.29	364.65	300.28
90.0	938.47	814.93	702.56	599.39	486.44	406.67	334.40	273.83	211.32
135.0	1038.83	920.03	780.16	674.24	578.26	490.48	389.82	322.52	307.30
180.0	1008.40	890.19	773.73	640.29	544.32	455.95	378.11	309.64	309.64
225.0	919.10	799.07	684.36	554.73	463.56	382.56	296.12	239.12	192.42
270.0	1109.65	985.58	859.75	712.28	604.60	485.21	400.94	325.44	307.89
315.0	1012.79	899.20	757.87	651.88	527.99	438.57	359.21	291.97	224.78
360.0	1029.35	881.93	771.56	667.80	550.99	467.65	390.40	305.31	249.60

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	201.90	162.34	122.14	97.09	78.71	62.21	53.14	46.41	40.50
45.0	300.28	185.93	149.93	119.80	96.33	74.27	61.74	52.85	46.53
90.0	171.00	138.23	106.16	85.97	67.83	57.64	50.21	44.77	39.97
135.0	239.06	161.52	129.57	98.61	80.18	63.67	54.60	48.05	43.31
180.0	191.84	147.54	120.09	92.58	75.96	63.85	54.95	47.34	43.19
225.0	145.49	116.40	93.52	72.63	60.98	53.02	47.11	41.73	38.62
270.0	235.79	155.08	123.54	98.14	74.67	61.86	53.20	46.70	41.02
315.0	181.24	145.14	116.34	88.43	71.63	59.34	48.57	42.72	38.57
360.0	201.90	162.34	122.14	97.09	78.71	62.21	53.14	46.41	40.50

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	37.10	34.18	31.37	29.61	28.15	26.57	25.52	24.70	23.88
45.0	40.79	37.45	34.59	31.78	29.96	28.38	26.69	25.63	24.52
90.0	36.99	34.53	32.42	30.49	29.20	27.92	26.69	25.93	25.16
135.0	39.03	36.23	34.00	32.25	30.67	29.03	27.92	27.04	26.04
180.0	40.09	37.40	34.82	33.12	31.66	30.02	28.97	28.09	27.04
225.0	35.99	33.83	31.72	30.37	28.85	27.80	26.92	25.81	25.11
270.0	37.63	34.41	32.25	30.49	28.79	27.62	26.57	25.69	24.81
315.0	34.47	31.89	29.90	27.86	26.51	25.40	24.35	23.58	22.88
360.0	37.10	34.18	31.37	29.61	28.15	26.57	25.52	24.70	23.88

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	23.06	22.47	22.00	21.48	20.95	20.66	20.31	19.90	19.66
45.0	23.64	22.88	22.36	21.71	21.19	20.72	20.42	20.07	19.72
90.0	24.35	23.76	23.17	22.41	21.95	21.54	21.13	20.66	20.25
135.0	25.34	24.52	23.94	23.41	22.77	22.41	22.18	21.83	21.42
180.0	26.28	25.52	24.99	24.35	23.82	23.41	23.12	22.77	22.41
225.0	24.40	23.88	23.17	22.71	22.24	21.95	21.59	21.24	20.89
270.0	24.17	23.53	23.00	22.41	22.00	21.54	21.07	20.72	20.25
315.0	22.36	21.77	21.36	20.89	20.48	20.07	19.66	19.31	18.96
360.0	23.06	22.47	22.00	21.48	20.95	20.66	20.31	19.90	19.66

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.31	18.90	18.43	18.02	17.44	16.91	16.39	15.92	15.45
45.0	19.43	19.14	18.73	18.26	17.62	17.09	16.56	15.92	15.51
90.0	19.90	19.25	18.73	18.20	17.62	16.91	16.33	15.74	15.33
135.0	21.01	20.54	20.07	19.49	18.84	18.43	17.79	17.38	16.97
180.0	21.89	21.42	20.89	20.37	19.84	19.43	18.96	18.61	18.32
225.0	20.31	19.78	19.20	18.55	18.02	17.62	16.97	16.33	15.74
270.0	19.90	19.55	19.02	18.38	17.91	17.32	16.80	16.09	15.63
315.0	18.61	18.08	17.67	17.21	16.74	16.15	15.63	15.22	14.81
360.0	19.31	18.90	18.43	18.02	17.44	16.91	16.39	15.92	15.45

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.22	14.98	14.69	14.46	14.16	13.81	13.58	13.28	12.93
45.0	15.16	14.86	14.51	14.28	14.05	13.75	13.40	13.11	12.87
90.0	14.98	14.69	14.46	14.22	13.93	13.52	13.28	12.93	12.64
135.0	16.44	15.63	15.22	14.75	14.40	14.05	13.75	13.34	13.05
180.0	16.97	15.98	15.51	15.16	14.75	14.40	14.10	13.81	13.40
225.0	15.39	14.92	14.57	14.28	13.99	13.58	13.34	13.05	12.70
270.0	15.22	14.92	14.57	14.34	14.10	13.75	13.40	13.11	12.82
315.0	14.51	14.28	14.10	13.75	13.52	13.17	12.93	12.70	12.35
360.0	15.22	14.98	14.69	14.46	14.16	13.81	13.58	13.28	12.93

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.70	12.41	12.17	11.94	11.70	11.41	11.12	10.89	10.77
45.0	12.52	12.29	11.94	11.70	11.47	11.18	10.94	10.77	10.59
90.0	12.29	12.00	11.70	11.53	11.29	10.89	10.71	10.53	10.42
135.0	12.70	12.41	12.11	11.82	11.59	11.29	10.83	10.65	10.42
180.0	13.11	12.76	12.52	12.23	12.06	11.65	11.18	11.00	10.65
225.0	12.41	12.11	11.82	11.59	11.29	10.89	10.71	10.53	10.36
270.0	12.52	12.11	11.88	11.59	11.41	11.06	10.83	10.65	10.48
315.0	12.06	11.82	11.59	11.35	11.06	10.83	10.65	10.48	10.36
360.0	12.70	12.41	12.17	11.94	11.70	11.41	11.12	10.89	10.77

Intensity data(cd)

C/γ(°)	90.0
0.0	10.36
45.0	10.42
90.0	10.36
135.0	10.36
180.0	10.36
225.0	10.36
270.0	10.36
315.0	10.30
360.0	10.36