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

NT

Client: NT
LumCAT: 3-2930-L
Luminaire: 92.70.412.00
Report No: 20250218-B011
Ballast type: DC

Test No: 20250218-C011	Voltage(V): 35.780
LampCAT: CITIZEN CLU038	Current(A): 0.721
Lamp flux(lm): 3935.4	Power (W): 25.797
Number of Lamps: 1	PF: 0.000
Length(mm): 92	Width(mm): 92
Phm Type: C	Height(mm): 50

Photometric Results

Lumens(lm): 3893.20, Efficiency(%): 98.93% , Luminous Efficacy(lm/W): 150.92
Central intensity(cd): 37351.110, Maximum intensity(cd): 37351.110
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=11.8
[C90/270]Total=11.8
Field angle(10%Imax): [C0/180]Total=25.4
[C90/270]Total=25.4
Maximum s/h(1/2): C0_180=0.20 C90_270=0.20
Maximum s/h(1/4): C0_180=0.22 C90_270=0.22
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 98.93%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.681%

Equipment: GMS1980	Date: 2025/2/18	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	37351.109	0.000	0	0.00%	0.00%
1.0	36841.230	35.500	35.5	0.90%	0.91%
2.0	35264.781	103.493	138.993	2.63%	3.57%
3.0	32644.436	162.417	301.41	4.13%	7.74%
4.0	29043.840	206.490	507.9	5.25%	13.05%
5.0	24901.908	232.072	739.972	5.90%	19.01%
6.0	17829.486	224.565	964.537	5.71%	24.77%
7.0	15049.675	204.080	1168.617	5.19%	30.02%
8.0	12766.786	199.077	1367.694	5.06%	35.13%
9.0	9442.854	179.997	1547.691	4.57%	39.75%
10.0	7113.585	149.830	1697.521	3.81%	43.60%
11.0	5475.468	125.791	1823.311	3.20%	46.83%
12.0	4294.118	106.796	1930.107	2.71%	49.58%
13.0	3469.755	92.138	2022.245	2.34%	51.94%
14.0	2875.532	81.219	2103.464	2.06%	54.03%
15.0	2626.226	75.531	2178.994	1.92%	55.97%
16.0	2289.671	72.032	2251.026	1.83%	57.82%
17.0	1936.934	65.820	2316.845	1.67%	59.51%
18.0	1783.166	61.336	2378.182	1.56%	61.09%
19.0	1678.045	60.218	2438.4	1.53%	62.63%
20.0	1597.869	59.958	2498.358	1.52%	64.17%
21.0	1546.369	60.376	2558.734	1.53%	65.72%
22.0	1502.404	61.266	2620	1.56%	67.30%
23.0	1466.267	62.291	2682.291	1.58%	68.90%
24.0	1433.567	63.401	2745.692	1.61%	70.53%
25.0	1403.867	64.517	2810.209	1.64%	72.18%
26.0	1375.410	65.605	2875.814	1.67%	73.87%
27.0	1347.027	66.605	2942.419	1.69%	75.58%
28.0	1321.277	67.556	3009.975	1.72%	77.31%
29.0	1295.088	68.452	3078.426	1.74%	79.07%
30.0	1272.484	69.324	3147.75	1.76%	80.85%
31.0	1247.100	70.116	3217.867	1.78%	82.65%
32.0	1206.076	70.281	3288.147	1.79%	84.46%
33.0	1185.541	70.458	3358.605	1.79%	86.27%
34.0	1163.230	71.081	3429.686	1.81%	88.09%
35.0	1101.379	70.330	3500.016	1.79%	89.90%
36.0	1002.607	66.991	3567.008	1.70%	91.62%
37.0	868.840	61.036	3628.044	1.55%	93.19%

NT NT 3-2930-L

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	715.313	52.877	3680.921	1.34%	94.55%
39.0	561.618	43.585	3724.506	1.11%	95.67%
40.0	406.775	33.774	3758.28	0.86%	96.53%
41.0	258.940	23.706	3781.986	0.60%	97.14%
42.0	197.367	16.578	3798.564	0.42%	97.57%
43.0	114.368	11.548	3810.112	0.29%	97.87%
44.0	32.670	5.550	3815.661	0.14%	98.01%
45.0	25.238	2.225	3817.887	0.06%	98.07%
46.0	22.626	1.872	3819.759	0.05%	98.11%
47.0	20.754	1.725	3821.484	0.04%	98.16%
48.0	19.386	1.623	3823.107	0.04%	98.20%
49.0	18.735	1.565	3824.672	0.04%	98.24%
50.0	18.405	1.548	3826.221	0.04%	98.28%
51.0	18.157	1.547	3827.768	0.04%	98.32%
52.0	17.908	1.548	3829.315	0.04%	98.36%
53.0	17.688	1.548	3830.864	0.04%	98.40%
54.0	17.498	1.551	3832.414	0.04%	98.44%
55.0	17.315	1.554	3833.968	0.04%	98.48%
56.0	17.169	1.558	3835.527	0.04%	98.52%
57.0	17.037	1.564	3837.091	0.04%	98.56%
58.0	16.935	1.571	3838.662	0.04%	98.60%
59.0	16.840	1.579	3840.241	0.04%	98.64%
60.0	16.774	1.588	3841.829	0.04%	98.68%
61.0	16.686	1.597	3843.425	0.04%	98.72%
62.0	16.635	1.606	3845.031	0.04%	98.76%
63.0	16.591	1.616	3846.647	0.04%	98.80%
64.0	16.540	1.626	3848.273	0.04%	98.85%
65.0	16.525	1.636	3849.909	0.04%	98.89%
66.0	16.489	1.647	3851.556	0.04%	98.93%
67.0	16.489	1.658	3853.215	0.04%	98.97%
68.0	16.445	1.668	3854.883	0.04%	99.02%
69.0	16.408	1.676	3856.559	0.04%	99.06%
70.0	16.386	1.684	3858.243	0.04%	99.10%
71.0	16.379	1.693	3859.937	0.04%	99.15%
72.0	16.364	1.703	3861.639	0.04%	99.19%
73.0	16.342	1.710	3863.349	0.04%	99.23%
74.0	16.342	1.718	3865.068	0.04%	99.28%
75.0	16.320	1.726	3866.794	0.04%	99.32%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.320	1.733	3868.526	0.04%	99.37%
77.0	16.299	1.739	3870.265	0.04%	99.41%
78.0	16.284	1.744	3872.01	0.04%	99.46%
79.0	16.277	1.749	3873.759	0.04%	99.50%
80.0	16.262	1.754	3875.513	0.04%	99.55%
81.0	16.255	1.758	3877.272	0.04%	99.59%
82.0	16.247	1.763	3879.034	0.04%	99.64%
83.0	16.225	1.765	3880.799	0.04%	99.68%
84.0	16.225	1.768	3882.567	0.04%	99.73%
85.0	16.196	1.769	3884.337	0.04%	99.77%
86.0	16.211	1.771	3886.108	0.05%	99.82%
87.0	16.203	1.774	3887.882	0.05%	99.86%
88.0	16.174	1.774	3889.656	0.05%	99.91%
89.0	16.181	1.773	3891.429	0.05%	99.95%
90.0	16.167	1.774	3893.203	0.05%	100.00%

Zonal flux distribution table

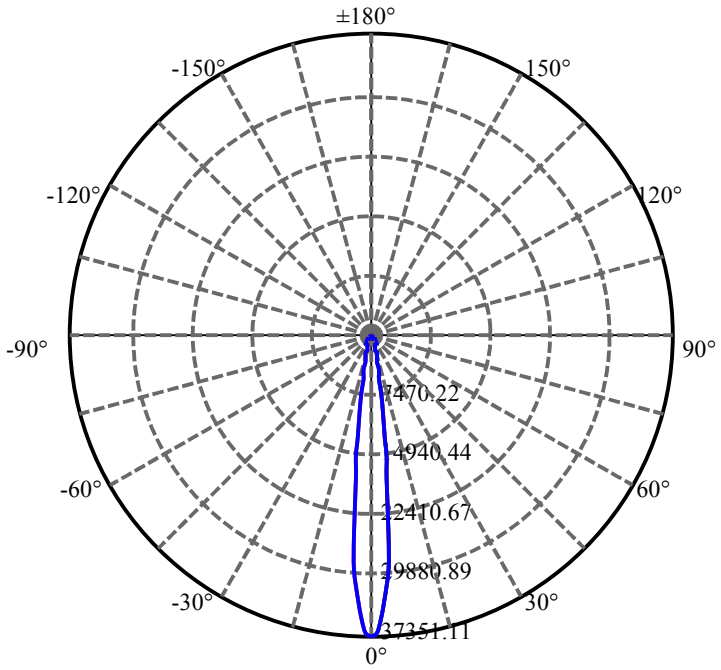
ZONAL LUMEN SUMMARY

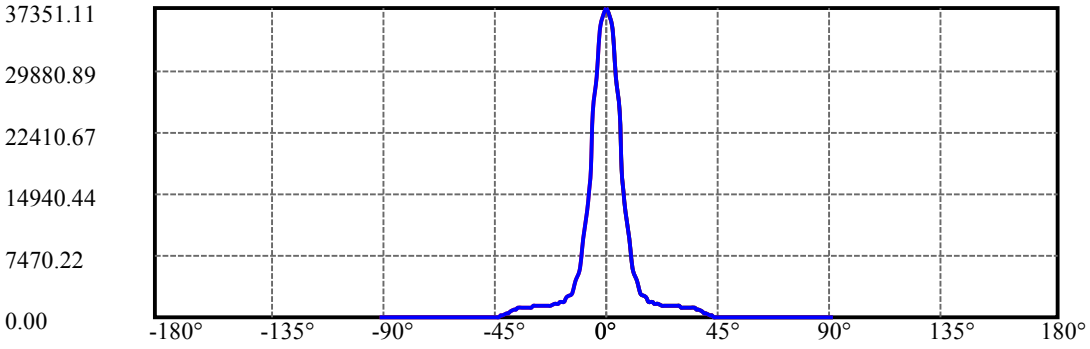
Zone	Lumens	%Lamp	%Fixt
0-30	3147.75	79.99%	80.85%
0-40	3758.28	95.50%	96.53%
0-60	3841.83	97.62%	98.68%
0-90	3891.43	98.88%	99.95%
0-120	3891.43	98.88%	99.95%
0-180	3893.20	98.93%	100.00%
60-90	49.60	1.26%	1.27%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.52	3114.56	79.14%	80.00%

ZONAL LUMEN SUMMARY

0-10	1697.52
10-20	800.84
20-30	649.39
30-40	610.53
40-50	67.94
50-60	15.61
60-70	16.41
70-80	17.27
80-90	15.92
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):

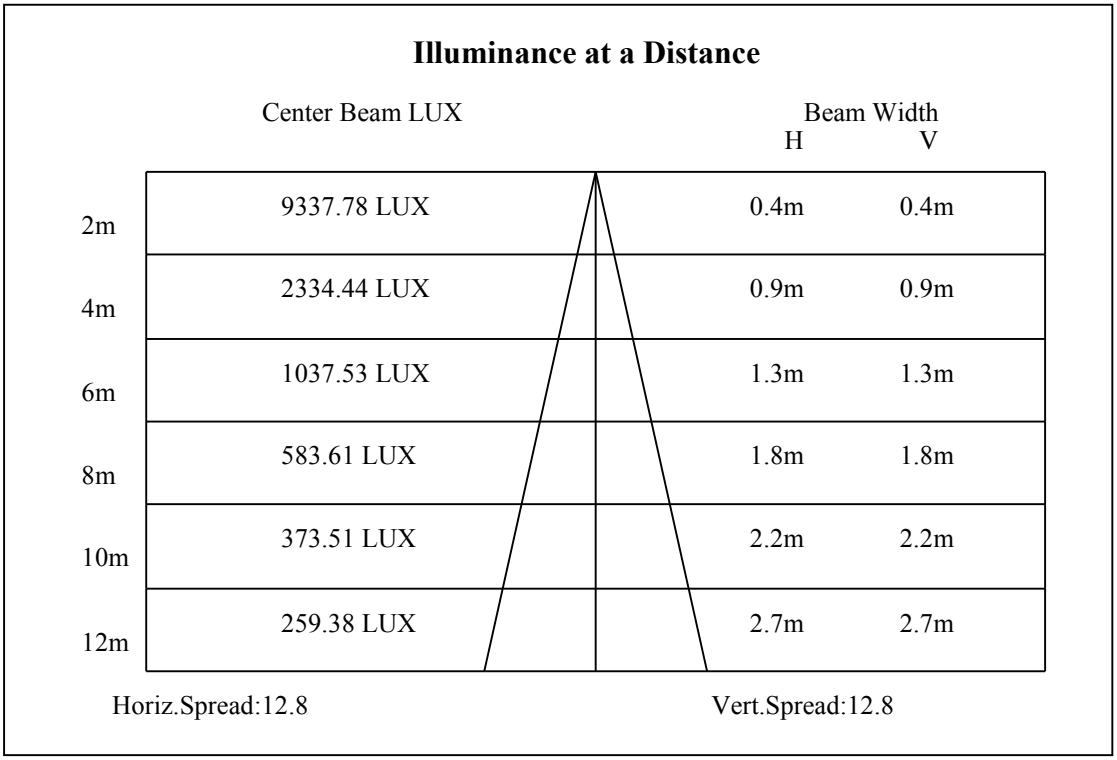
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:12.7 Right:12.7
:C90/270Left:12.7 Right:12.7

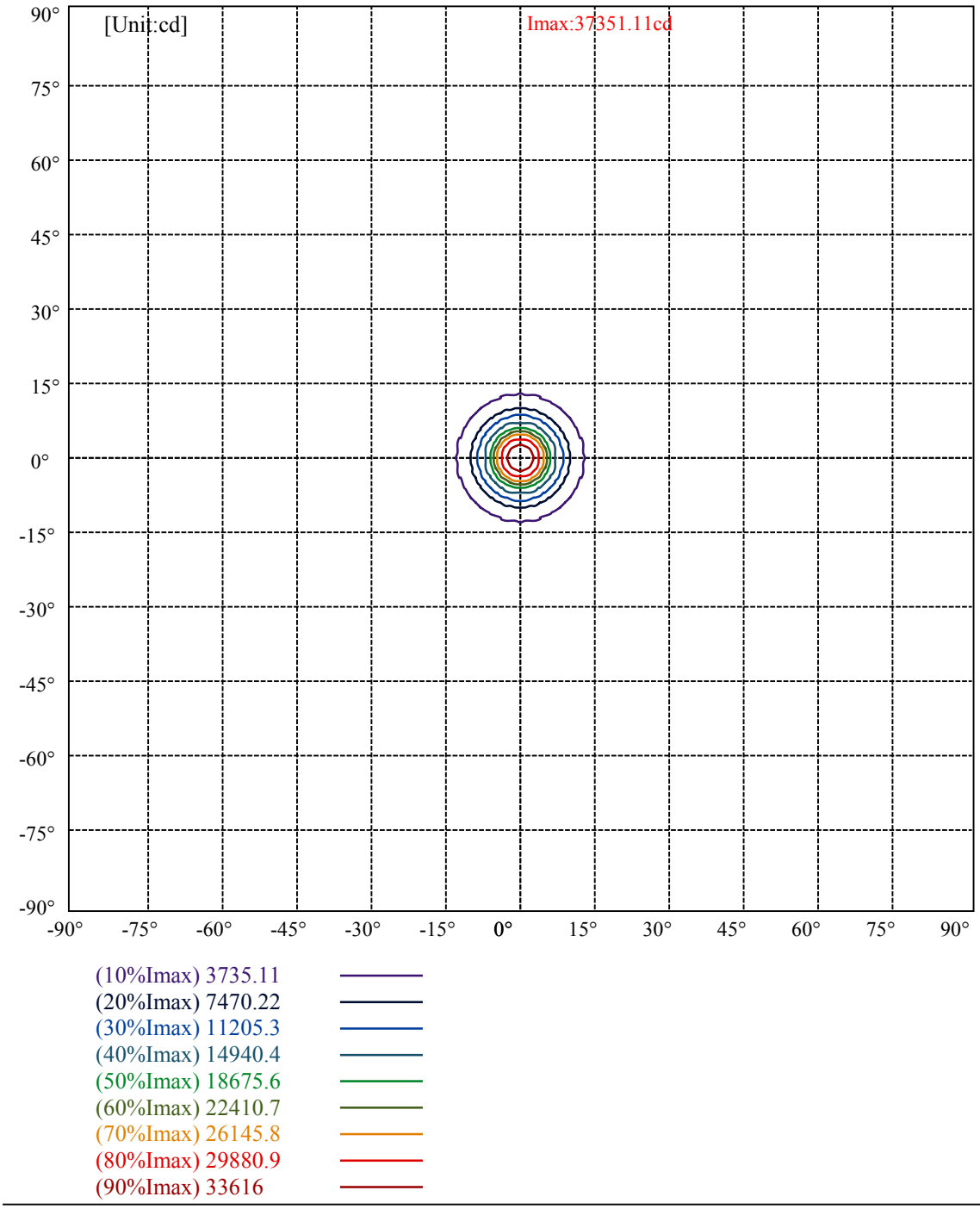
Beam Angle(50%Imax):C0/180Left:5.9 Right:5.9
:C90/270Left:5.9 Right:5.9

Lux distance Curve



Equipment: GMS1980 Date: 2025/2/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)



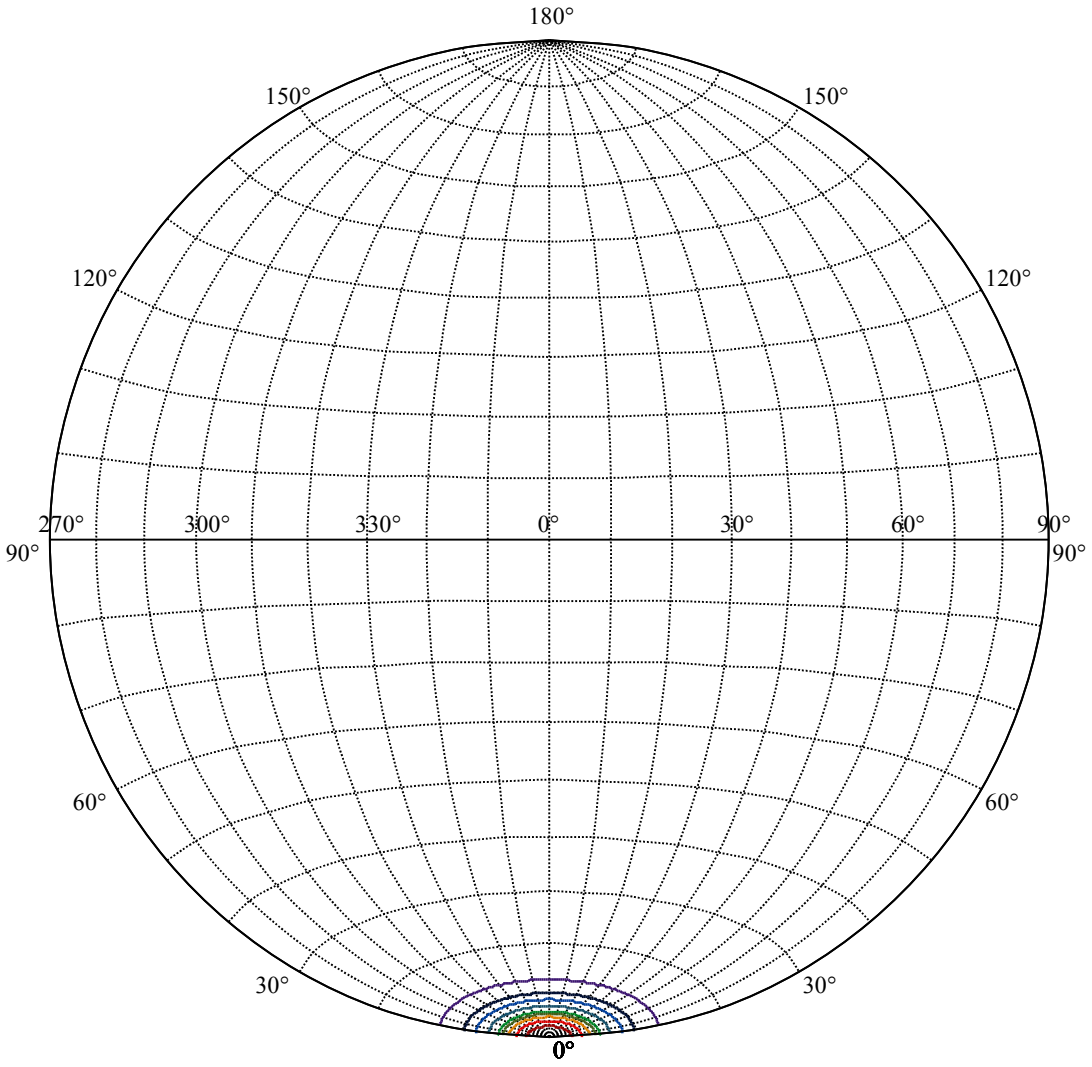
(10%Imax) 3735.11
(20%Imax) 7470.22
(30%Imax) 11205.3
(40%Imax) 14940.4
(50%Imax) 18675.6
(60%Imax) 22410.7
(70%Imax) 26145.8
(80%Imax) 29880.9
(90%Imax) 33616

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/2/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web

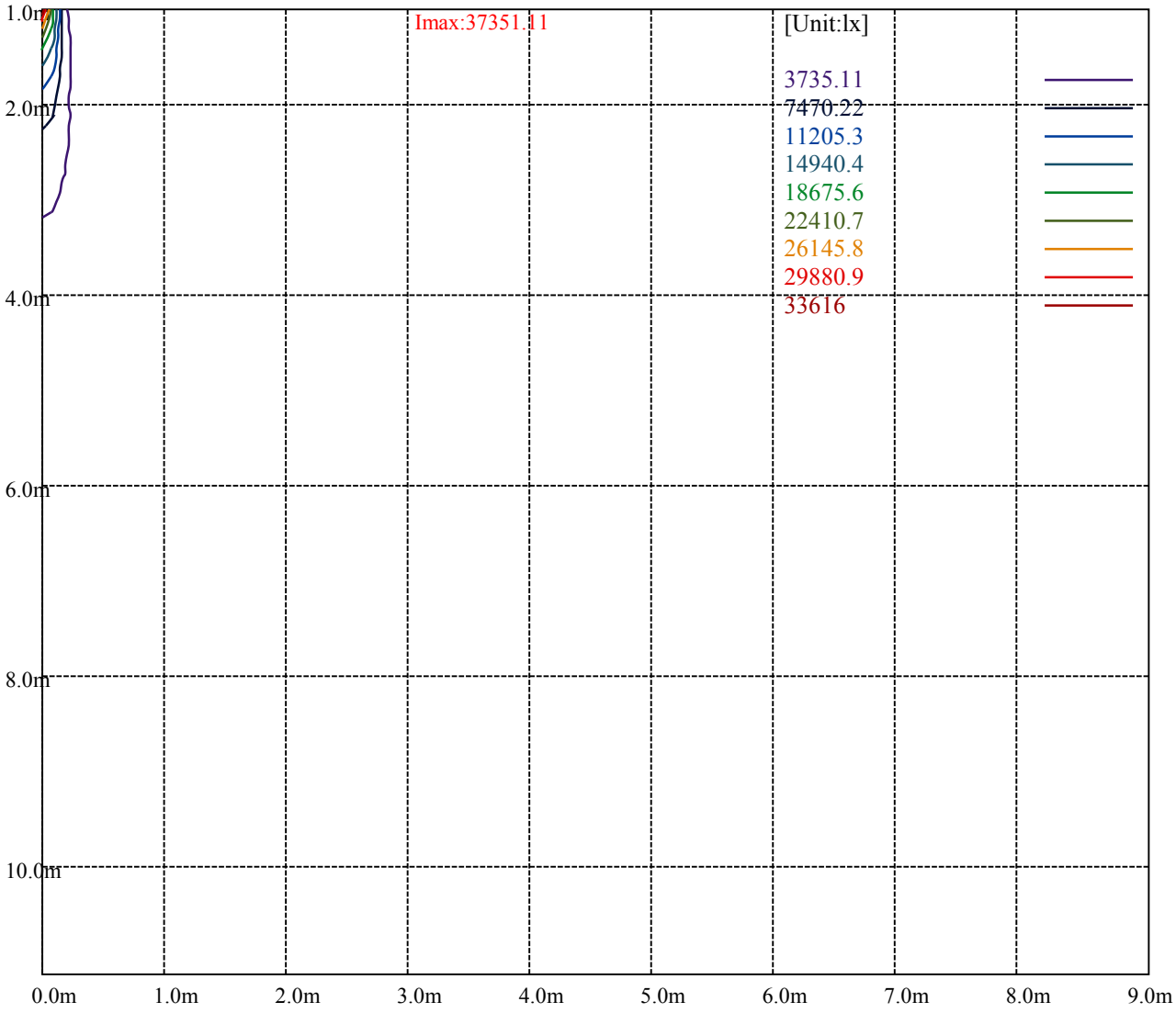


House [Unit:cd] Road

Imax:37351.11

(10%Imax) 3735.11
(20%Imax) 7470.22
(30%Imax) 11205.3
(40%Imax) 14940.4
(50%Imax) 18675.6
(60%Imax) 22410.7
(70%Imax) 26145.8
(80%Imax) 29880.9
(90%Imax) 33616

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/2/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT NT 3-2930-L

Luminance Limitting Curve(no luminous side)

Luminance Table

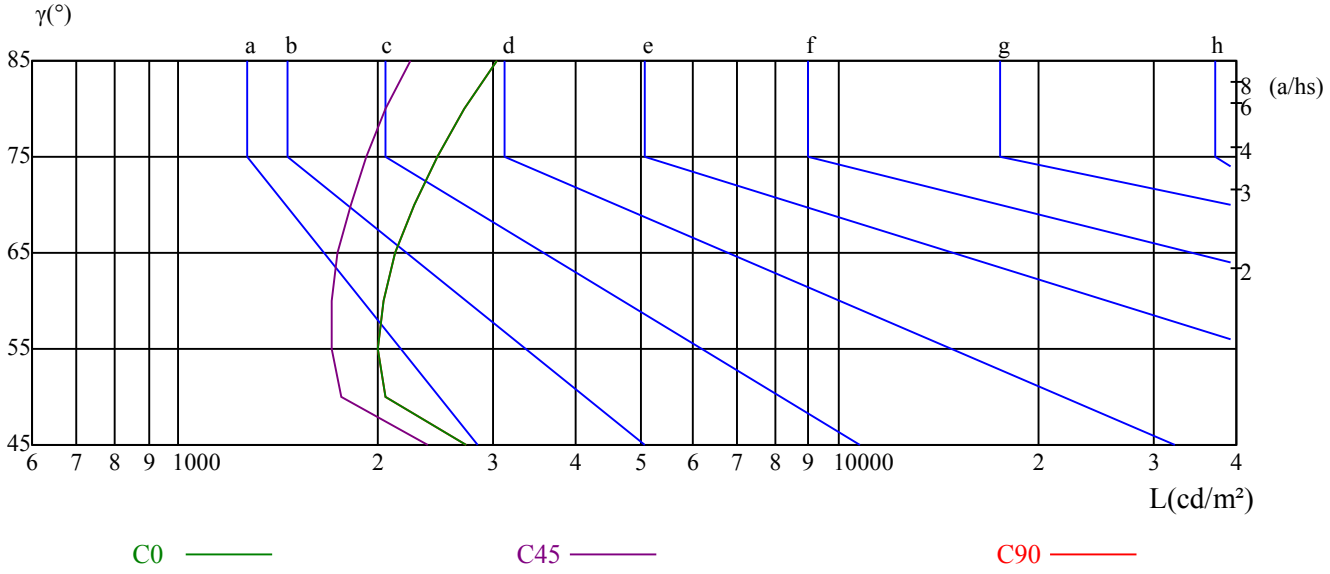
γ	45	50	55	60	65	70	75	80	85
C0	2732	2053	2008	2042	2133	2270	2460	2710	3044
C45	2384	1766	1700	1700	1744	1819	1926	2065	2244
C90	2732	2053	2008	2042	2133	2270	2460	2710	3044

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4620	4620	4620	7450	7450	7450	21955	21955	21955

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



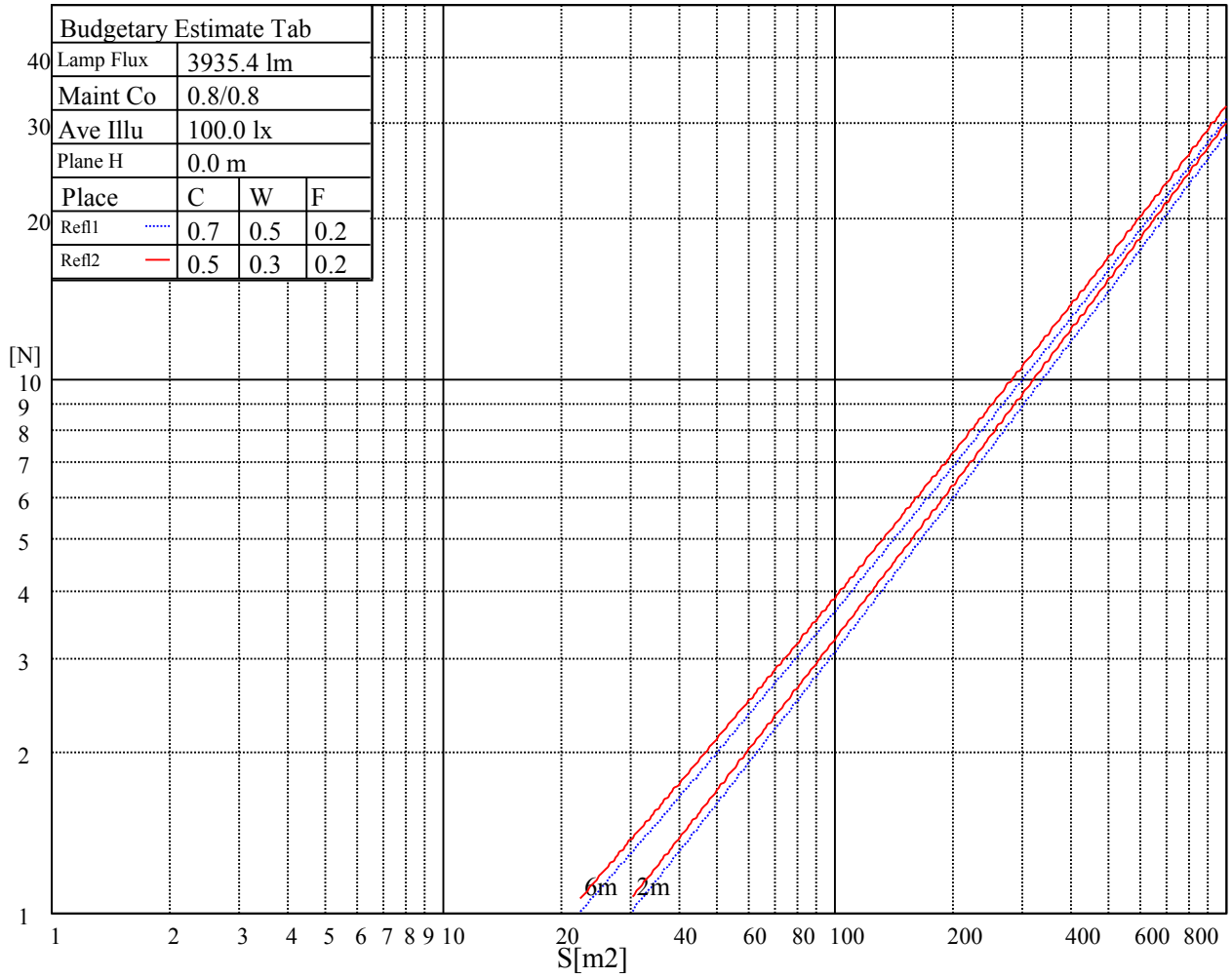
UGR Glare

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	17.40	18.33	17.77	18.64	18.96	17.34	18.27	17.70	18.58	18.90
	3H	17.25	18.08	17.64	18.42	18.76	17.19	18.02	17.58	18.35	18.70
	4H	17.21	17.97	17.61	18.33	18.69	17.14	17.91	17.55	18.26	18.63
	6H	17.22	17.92	17.64	18.30	18.70	17.16	17.86	17.58	18.24	18.64
	8H	17.22	17.89	17.64	18.27	18.68	17.16	17.83	17.58	18.21	18.62
	12H	17.25	17.88	17.67	18.27	18.69	17.18	17.82	17.61	18.21	18.63
4H	2H	17.09	17.86	17.50	18.21	18.58	17.03	17.80	17.43	18.15	18.52
	3H	16.94	17.58	17.36	17.97	18.39	16.87	17.52	17.30	17.91	18.33
	4H	16.96	17.52	17.40	17.94	18.39	16.90	17.45	17.34	17.88	18.33
	6H	17.00	17.49	17.47	17.94	18.39	16.94	17.43	17.41	17.88	18.33
	8H	17.07	17.52	17.56	17.98	18.46	17.01	17.46	17.50	17.92	18.40
	12H	17.19	17.60	17.68	18.06	18.58	17.13	17.54	17.62	18.00	18.52
8H	4H	16.81	17.27	17.30	17.73	18.20	16.75	17.21	17.24	17.67	18.14
	6H	16.91	17.28	17.42	17.76	18.27	16.85	17.22	17.36	17.70	18.22
	8H	17.10	17.40	17.63	17.93	18.43	17.04	17.35	17.57	17.87	18.37
	12H	17.31	17.54	17.85	18.06	18.58	17.25	17.49	17.79	18.00	18.53
12H	4H	16.78	17.19	17.27	17.65	18.17	16.72	17.14	17.21	17.59	18.11
	6H	16.94	17.25	17.47	17.77	18.27	16.88	17.19	17.42	17.71	18.21
	8H	17.12	17.35	17.66	17.87	18.39	17.06	17.30	17.60	17.81	18.34

Variation with the observer position at spacings:		
S = 1.0H	4.8/-9.5	4.8/-9.5
S = 1.5H	7.3/-7.6	7.3/-7.6
S = 2.0H	9.1/-6.2	9.1/-6.2
Standard tables:	BK1	BK1
Uncorrected UGR	-1.2	-1.2

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

Budgetary Estimate Table

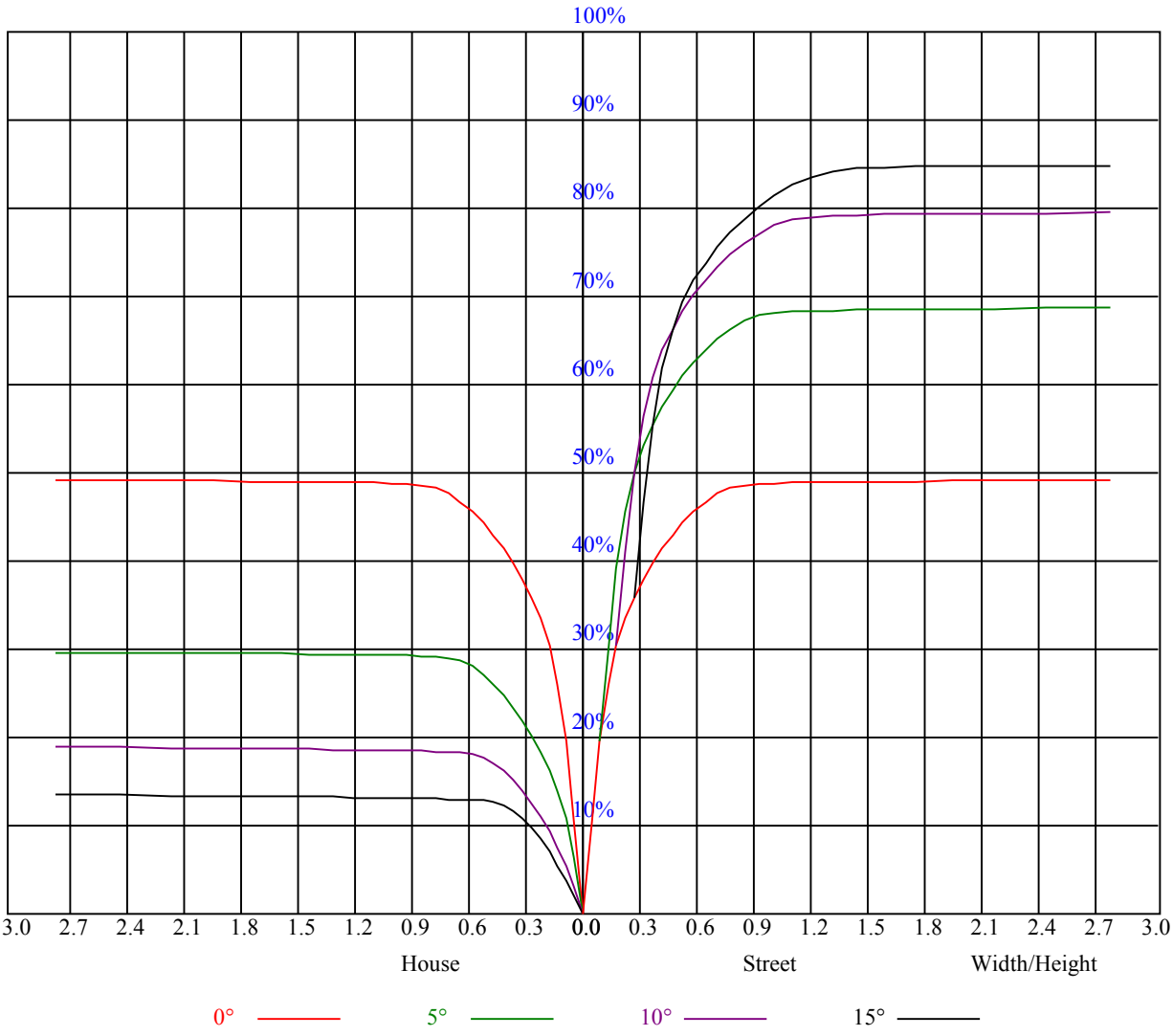


Equipment: GMS1980 Date: 2025/2/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

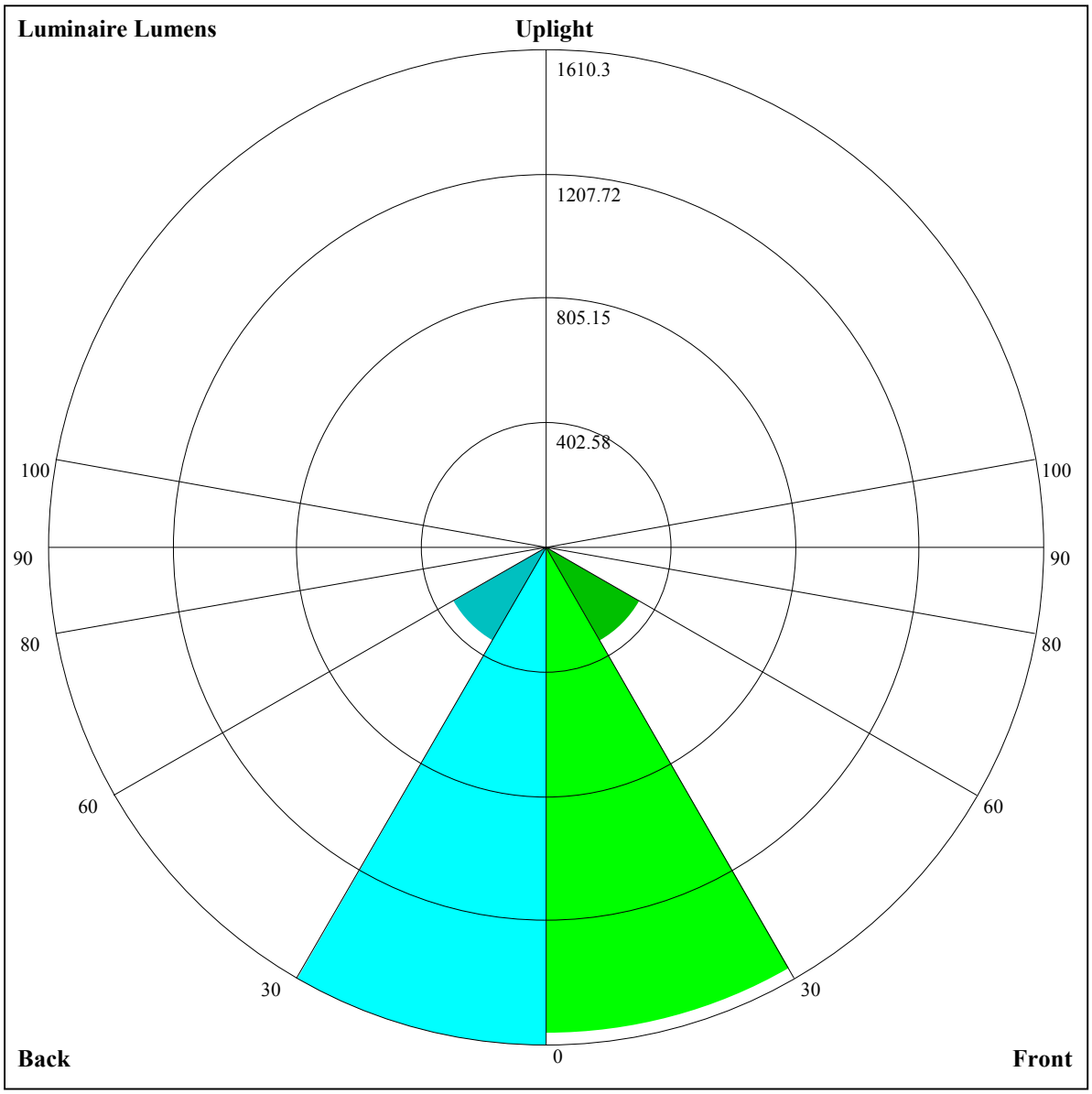
Utilization factor table for indoor luminaire

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	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.99
1	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95
2	1.05	1.02	0.99	1.03	1.01	0.98	1.00	0.98	0.96	0.98	0.96	0.94	0.95	0.93	0.92	0.90
3	1.00	0.96	0.93	0.99	0.95	0.92	0.96	0.93	0.91	0.94	0.92	0.90	0.92	0.90	0.88	0.87
4	0.96	0.91	0.88	0.95	0.91	0.88	0.93	0.89	0.87	0.91	0.88	0.86	0.89	0.87	0.85	0.83
5	0.92	0.87	0.84	0.91	0.87	0.84	0.89	0.86	0.83	0.88	0.85	0.82	0.86	0.84	0.82	0.80
6	0.88	0.84	0.81	0.88	0.83	0.80	0.86	0.83	0.80	0.85	0.82	0.79	0.84	0.81	0.79	0.78
7	0.85	0.81	0.78	0.85	0.80	0.77	0.83	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.75
8	0.82	0.78	0.75	0.82	0.78	0.75	0.81	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.74	0.73
9	0.80	0.75	0.72	0.79	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.72	0.71
10	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.69

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2025/2/18	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1570.92,FM=349.45,FH=16.85,FVH=8.84
BL=1610.3,BM=349.04,BH=16.83,BVH=8.84
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	37469.62	36433.77	33706.62	30441.06	26625.40	21785.59	11551.23	11551.23	10824.38
45.0	37463.76	37393.54	36539.11	34683.94	30833.16	27052.61	23184.27	18204.01	14405.90
90.0	37223.82	35813.43	33408.15	30189.42	26502.50	21808.99	11650.13	11650.13	10197.60
135.0	37247.23	37095.07	35994.85	33033.61	29721.24	26098.69	21469.56	17689.01	13955.28
180.0	37469.62	37580.81	36708.82	34841.96	31933.39	27433.01	23605.64	19667.07	15769.47
225.0	37463.76	36503.99	34754.17	31886.57	27023.35	22809.73	11203.02	11203.02	10440.47
270.0	37223.82	37358.42	36679.56	34572.75	31716.85	28024.08	23915.80	18806.79	14915.04
315.0	37247.23	36550.81	34326.96	31506.17	27994.82	24202.57	16056.23	11626.14	11626.14
360.0	37469.62	36433.77	33706.62	30441.06	26625.40	21785.59	11551.23	11551.23	10824.38

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7832.71	6154.28	4941.11	4036.36	3211.77	2735.40	2386.02	2127.35	1895.60
45.0	11122.79	8565.35	6312.24	5077.41	4135.20	3274.92	3011.57	3011.57	2106.28
90.0	7835.05	5779.74	4641.48	3786.46	3145.64	2588.51	2266.05	2028.45	1864.59
135.0	9958.19	7564.62	5861.61	4404.40	3579.24	2964.75	2964.75	2155.44	1946.52
180.0	11409.55	8582.91	6487.80	5018.89	3795.77	3105.20	2970.60	2492.53	2002.11
225.0	7867.82	6061.23	4533.21	3689.32	3057.27	2605.48	2208.70	1988.07	1830.64
270.0	11397.84	8009.39	6136.67	4579.97	3719.69	3081.79	2953.05	2490.19	1998.02
315.0	8118.88	6191.15	4889.61	3760.13	3113.46	2648.20	2249.08	2023.77	1851.71
360.0	7832.71	6154.28	4941.11	4036.36	3211.77	2735.40	2386.02	2127.35	1895.60

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1763.34	1649.81	1588.94	1542.13	1495.89	1464.88	1435.03	1399.92	1373.00
45.0	1923.69	1788.51	1665.02	1597.14	1543.30	1501.75	1459.61	1429.18	1399.33
90.0	1720.03	1635.76	1573.73	1526.91	1481.26	1449.08	1411.04	1382.36	1355.44
135.0	1800.21	1697.21	1602.99	1549.15	1507.60	1465.46	1436.79	1409.28	1376.51
180.0	1804.31	1700.72	1626.40	1571.39	1518.72	1483.60	1453.17	1424.50	1390.55
225.0	1698.38	1622.30	1553.25	1511.69	1477.75	1441.47	1412.79	1385.29	1360.12
270.0	1827.13	1709.50	1611.77	1556.17	1513.45	1479.51	1443.22	1416.30	1388.21
315.0	1728.23	1620.55	1560.85	1516.38	1481.26	1444.39	1416.89	1384.12	1360.12
360.0	1763.34	1649.81	1588.94	1542.13	1495.89	1464.88	1435.03	1399.92	1373.00

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1346.08	1321.50	1291.65	1270.00	1247.17	1213.23	1161.91	1150.61	1078.28
45.0	1370.66	1338.47	1313.89	1291.06	1264.14	1243.66	1217.33	1189.24	1158.22
90.0	1323.25	1299.84	1276.43	1254.78	1226.69	1166.41	1166.41	1138.85	1041.82
135.0	1350.17	1325.01	1295.16	1271.75	1249.51	1220.25	1193.92	1171.09	1134.81
180.0	1364.80	1340.22	1312.72	1289.31	1267.07	1240.15	1213.23	1188.07	1143.59
225.0	1330.27	1307.45	1284.63	1262.39	1232.54	1163.49	1163.49	1138.50	1028.47
270.0	1354.85	1330.86	1303.35	1280.53	1257.12	1236.05	1202.70	1179.29	1149.44
315.0	1336.13	1306.87	1282.87	1260.05	1232.54	1165.36	1165.36	1150.20	1076.40
360.0	1346.08	1321.50	1291.65	1270.00	1247.17	1213.23	1161.91	1150.61	1078.28

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	939.23	804.86	616.89	465.90	323.04	196.11	78.07	36.64	28.44
45.0	1086.82	952.22	818.20	672.48	525.59	347.10	313.15	313.15	47.93
90.0	927.00	794.79	614.31	470.17	331.65	176.97	83.86	38.22	26.22
135.0	1038.83	925.88	787.19	633.86	440.15	296.77	296.77	69.29	34.06
180.0	1058.73	941.10	770.80	623.32	473.51	327.20	327.20	74.38	34.94
225.0	910.26	740.95	596.34	450.56	277.98	160.76	74.32	33.94	25.28
270.0	1080.97	936.42	808.25	660.78	518.57	337.15	302.62	302.62	36.17
315.0	979.02	854.49	710.52	515.88	363.72	229.47	102.94	46.70	28.32
360.0	939.23	804.86	616.89	465.90	323.04	196.11	78.07	36.64	28.44

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	24.99	22.36	20.13	19.31	18.90	18.55	18.32	18.08	17.79
45.0	28.09	24.64	22.41	20.07	19.14	18.67	18.43	18.14	17.91
90.0	23.23	21.65	19.90	18.96	18.61	18.32	18.08	17.79	17.62
135.0	26.16	23.29	21.77	20.01	18.96	18.61	18.32	18.02	17.79
180.0	26.28	22.53	21.01	19.72	18.79	18.49	18.20	17.97	17.79
225.0	22.18	20.83	19.49	18.67	18.38	18.14	17.85	17.67	17.50
270.0	26.39	23.23	21.01	19.61	18.61	18.26	18.08	17.85	17.62
315.0	24.58	22.47	20.31	18.73	18.49	18.20	17.97	17.73	17.50
360.0	24.99	22.36	20.13	19.31	18.90	18.55	18.32	18.08	17.79

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	17.62	17.44	17.26	17.15	17.09	16.97	16.91	16.80	16.74
45.0	17.67	17.50	17.32	17.15	17.03	16.91	16.85	16.68	16.68
90.0	17.44	17.21	17.09	16.97	16.85	16.80	16.68	16.68	16.62
135.0	17.62	17.38	17.21	17.09	16.97	16.85	16.80	16.68	16.62
180.0	17.56	17.38	17.26	17.09	17.03	16.91	16.85	16.80	16.74
225.0	17.32	17.21	17.03	16.91	16.85	16.74	16.74	16.62	16.62
270.0	17.44	17.26	17.15	17.03	16.85	16.80	16.74	16.68	16.56
315.0	17.32	17.15	17.03	16.91	16.80	16.74	16.62	16.56	16.50
360.0	17.62	17.44	17.26	17.15	17.09	16.97	16.91	16.80	16.74

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	16.74	16.68	16.68	16.62	16.62	16.62	16.50	16.50	16.50
45.0	16.62	16.56	16.56	16.50	16.50	16.50	16.44	16.39	16.39
90.0	16.56	16.50	16.50	16.50	16.50	16.44	16.39	16.39	16.39
135.0	16.56	16.50	16.50	16.44	16.44	16.39	16.39	16.33	16.33
180.0	16.68	16.62	16.56	16.56	16.56	16.50	16.44	16.44	16.44
225.0	16.56	16.50	16.50	16.44	16.44	16.39	16.39	16.39	16.39
270.0	16.50	16.50	16.44	16.44	16.44	16.39	16.39	16.33	16.33
315.0	16.50	16.44	16.44	16.39	16.39	16.33	16.33	16.33	16.27
360.0	16.74	16.68	16.68	16.62	16.62	16.62	16.50	16.50	16.50

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.50	16.44	16.44	16.44	16.44	16.44	16.44	16.39	16.39
45.0	16.39	16.39	16.39	16.33	16.33	16.33	16.27	16.33	16.27
90.0	16.39	16.39	16.33	16.33	16.33	16.33	16.27	16.27	16.27
135.0	16.33	16.27	16.33	16.27	16.27	16.21	16.21	16.21	16.21
180.0	16.44	16.39	16.39	16.33	16.39	16.33	16.33	16.33	16.33
225.0	16.33	16.33	16.33	16.33	16.33	16.27	16.27	16.27	16.27
270.0	16.27	16.27	16.33	16.27	16.27	16.27	16.27	16.21	16.21
315.0	16.27	16.27	16.21	16.27	16.21	16.21	16.21	16.21	16.15
360.0	16.50	16.44	16.44	16.44	16.44	16.44	16.44	16.39	16.39

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	16.39	16.39	16.39	16.39	16.33	16.33	16.33	16.33	16.33
45.0	16.27	16.27	16.21	16.27	16.21	16.21	16.21	16.21	16.15
90.0	16.27	16.27	16.21	16.21	16.15	16.21	16.21	16.15	16.15
135.0	16.15	16.15	16.15	16.15	16.15	16.15	16.15	16.09	16.09
180.0	16.33	16.33	16.27	16.27	16.27	16.27	16.27	16.21	16.27
225.0	16.27	16.27	16.21	16.21	16.21	16.21	16.21	16.21	16.21
270.0	16.21	16.15	16.21	16.15	16.15	16.15	16.15	16.09	16.15
315.0	16.15	16.15	16.15	16.15	16.09	16.15	16.09	16.09	16.09
360.0	16.39	16.39	16.39	16.39	16.33	16.33	16.33	16.33	16.33

Intensity data(cd)

C/γ(°)	90.0
0.0	16.33
45.0	16.15
90.0	16.15
135.0	16.09
180.0	16.21
225.0	16.21
270.0	16.09
315.0	16.09
360.0	16.33