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: 3-2833-L
Luminaire: 92.70.411.00
Report No: 2024401-B020
Ballast type: AC

Test No: 2024401-C020	Voltage(V): 35.160
LampCAT: LUMILEDS LUXEON 1205	Current(A): 0.485
Lamp flux(lm): 2224.0	Power (W): 17.052
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1889.48, Efficiency(%): 84.96% , Luminous Efficacy(lm/W): 110.81
Central intensity(cd): 6565.113, Maximum intensity(cd): 6565.113
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.4
[C90/270]Total=24.4
Field angle(10%Imax): [C0/180]Total=59.4
[C90/270]Total=59.4
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
Maximum s/h(1/4): C0_180=0.45 C90_270=0.45
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.96%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.023%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6565.113	0.000	0	0.00%	0.00%
1.0	6540.094	6.271	6.271	0.28%	0.33%
2.0	6459.114	18.658	24.928	0.84%	1.32%
3.0	6325.902	30.578	55.506	1.37%	2.94%
4.0	6143.970	41.741	97.246	1.88%	5.15%
5.0	5894.225	51.788	149.034	2.33%	7.89%
6.0	5591.591	60.361	209.395	2.71%	11.08%
7.0	5230.873	67.175	276.57	3.02%	14.64%
8.0	4845.209	72.113	348.683	3.24%	18.45%
9.0	4476.371	75.546	424.229	3.40%	22.45%
10.0	4080.540	77.437	501.666	3.48%	26.55%
11.0	3712.945	77.873	579.539	3.50%	30.67%
12.0	3353.325	77.244	656.783	3.47%	34.76%
13.0	3035.767	75.822	732.606	3.41%	38.77%
14.0	2737.595	73.899	806.504	3.32%	42.68%
15.0	2456.540	71.307	877.812	3.21%	46.46%
16.0	2217.257	68.484	946.296	3.08%	50.08%
17.0	1998.821	65.656	1011.952	2.95%	53.56%
18.0	1822.376	63.003	1074.955	2.83%	56.89%
19.0	1648.345	60.383	1135.338	2.72%	60.09%
20.0	1484.160	57.334	1192.672	2.58%	63.12%
21.0	1355.535	54.528	1247.2	2.45%	66.01%
22.0	1216.105	51.678	1298.878	2.32%	68.74%
23.0	1141.013	49.459	1348.337	2.22%	71.36%
24.0	1041.408	47.716	1396.052	2.15%	73.89%
25.0	950.793	45.298	1441.35	2.04%	76.28%
26.0	872.834	43.047	1484.397	1.94%	78.56%
27.0	802.475	40.987	1525.384	1.84%	80.73%
28.0	745.496	39.191	1564.576	1.76%	82.80%
29.0	697.259	37.747	1602.322	1.70%	84.80%
30.0	639.183	36.084	1638.406	1.62%	86.71%
31.0	557.039	33.289	1671.695	1.50%	88.47%
32.0	470.360	29.434	1701.129	1.32%	90.03%
33.0	377.163	24.968	1726.097	1.12%	91.35%
34.0	302.744	20.576	1746.673	0.93%	92.44%
35.0	234.792	16.694	1763.367	0.75%	93.33%
36.0	158.735	12.530	1775.897	0.56%	93.99%
37.0	109.254	8.740	1784.637	0.39%	94.45%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	74.697	6.140	1790.777	0.28%	94.78%
39.0	65.114	4.772	1795.549	0.21%	95.03%
40.0	59.334	4.340	1799.89	0.20%	95.26%
41.0	54.111	4.040	1803.929	0.18%	95.47%
42.0	49.547	3.766	1807.695	0.17%	95.67%
43.0	45.282	3.513	1811.208	0.16%	95.86%
44.0	41.756	3.285	1814.493	0.15%	96.03%
45.0	38.566	3.087	1817.58	0.14%	96.19%
46.0	35.874	2.911	1820.491	0.13%	96.35%
47.0	33.497	2.759	1823.25	0.12%	96.49%
48.0	31.229	2.617	1825.867	0.12%	96.63%
49.0	29.466	2.492	1828.359	0.11%	96.77%
50.0	27.893	2.392	1830.751	0.11%	96.89%
51.0	26.679	2.309	1833.06	0.10%	97.01%
52.0	25.574	2.242	1835.302	0.10%	97.13%
53.0	24.726	2.188	1837.49	0.10%	97.25%
54.0	24.119	2.153	1839.643	0.10%	97.36%
55.0	23.636	2.132	1841.775	0.10%	97.48%
56.0	23.233	2.118	1843.892	0.10%	97.59%
57.0	22.787	2.104	1845.997	0.09%	97.70%
58.0	22.275	2.084	1848.08	0.09%	97.81%
59.0	21.566	2.050	1850.13	0.09%	97.92%
60.0	20.732	1.998	1852.128	0.09%	98.02%
61.0	19.766	1.933	1854.061	0.09%	98.13%
62.0	18.808	1.859	1855.92	0.08%	98.22%
63.0	17.915	1.786	1857.706	0.08%	98.32%
64.0	16.869	1.707	1859.412	0.08%	98.41%
65.0	16.021	1.628	1861.04	0.07%	98.49%
66.0	15.106	1.553	1862.593	0.07%	98.58%
67.0	14.353	1.481	1864.074	0.07%	98.66%
68.0	13.702	1.421	1865.496	0.06%	98.73%
69.0	13.102	1.367	1866.863	0.06%	98.80%
70.0	12.604	1.320	1868.183	0.06%	98.87%
71.0	12.224	1.283	1869.466	0.06%	98.94%
72.0	11.865	1.253	1870.719	0.06%	99.01%
73.0	11.558	1.225	1871.944	0.06%	99.07%
74.0	11.244	1.199	1873.143	0.05%	99.14%
75.0	11.002	1.175	1874.318	0.05%	99.20%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.739	1.154	1875.472	0.05%	99.26%
77.0	10.497	1.132	1876.604	0.05%	99.32%
78.0	10.249	1.111	1877.715	0.05%	99.38%
79.0	10.044	1.090	1878.805	0.05%	99.43%
80.0	9.795	1.070	1879.875	0.05%	99.49%
81.0	9.561	1.047	1880.922	0.05%	99.55%
82.0	9.312	1.023	1881.945	0.05%	99.60%
83.0	9.108	1.001	1882.946	0.05%	99.65%
84.0	8.932	0.983	1883.929	0.04%	99.71%
85.0	8.734	0.964	1884.893	0.04%	99.76%
86.0	8.552	0.945	1885.838	0.04%	99.81%
87.0	8.420	0.929	1886.767	0.04%	99.86%
88.0	8.288	0.915	1887.682	0.04%	99.90%
89.0	8.200	0.904	1888.586	0.04%	99.95%
90.0	8.127	0.895	1889.481	0.04%	100.00%

Zonal flux distribution table

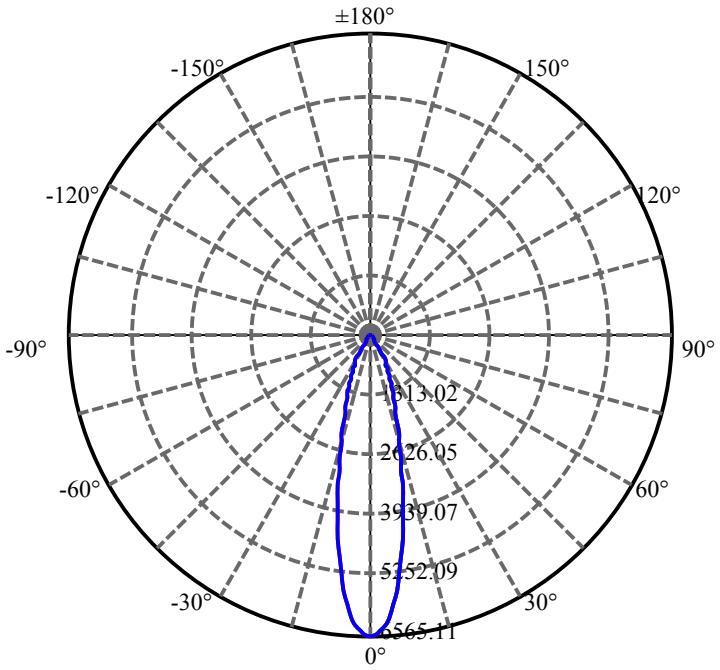
ZONAL LUMEN SUMMARY

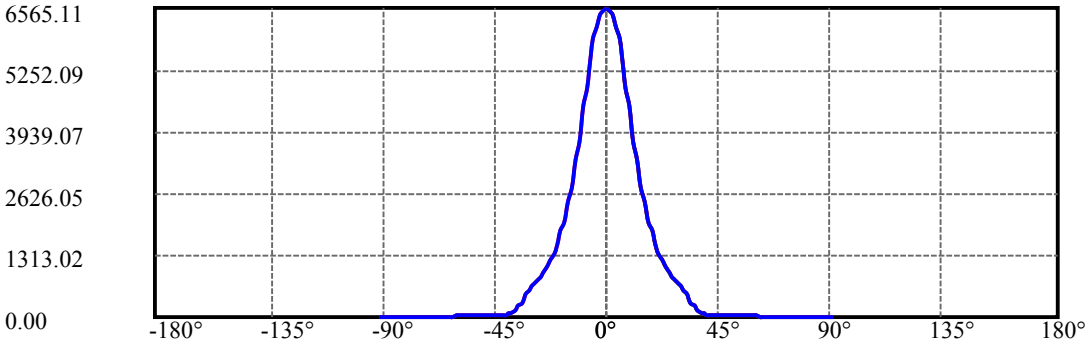
Zone	Lumens	%Lamp	%Fixt
0-30	1638.41	73.67%	86.71%
0-40	1799.89	80.93%	95.26%
0-60	1852.13	83.28%	98.02%
0-90	1888.59	84.92%	99.95%
0-120	1888.59	84.92%	99.95%
0-180	1889.48	84.96%	100.00%
60-90	36.46	1.64%	1.93%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.66	1511.59	67.97%	80.00%

ZONAL LUMEN SUMMARY

0-10	501.67
10-20	691.01
20-30	445.73
30-40	161.48
40-50	30.86
50-60	21.38
60-70	16.05
70-80	11.69
80-90	8.71
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):

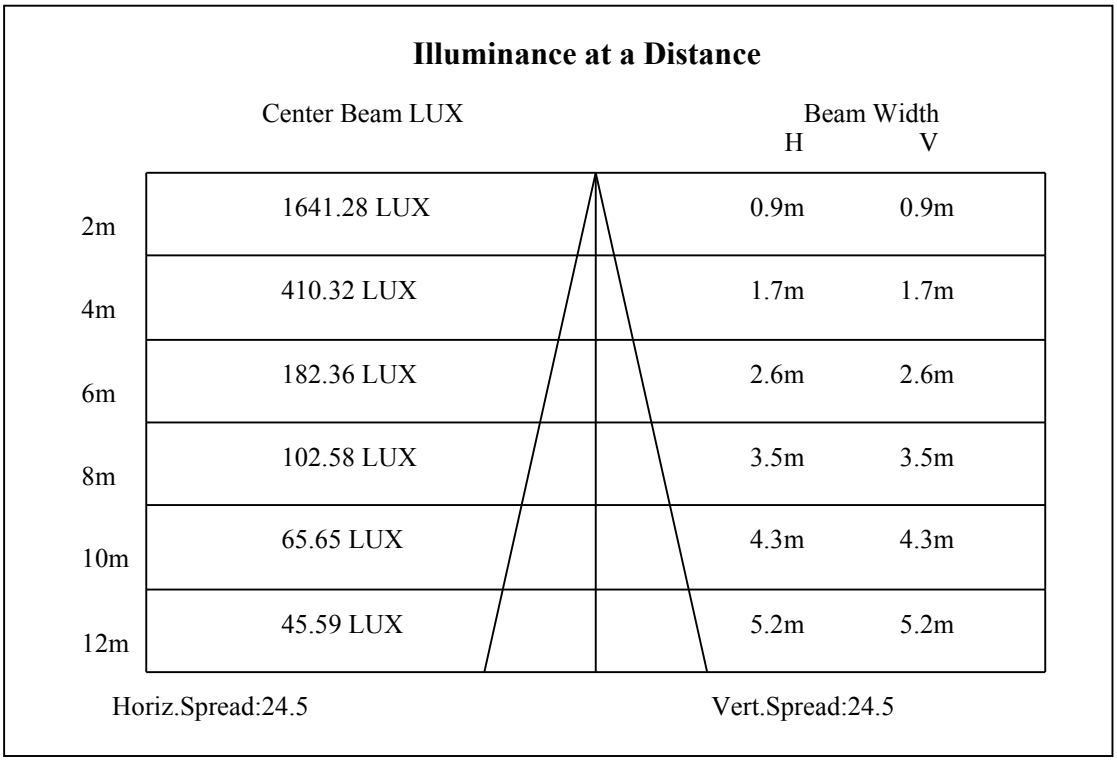
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:29.7 Right:29.7
:C90/270Left:29.7 Right:29.7

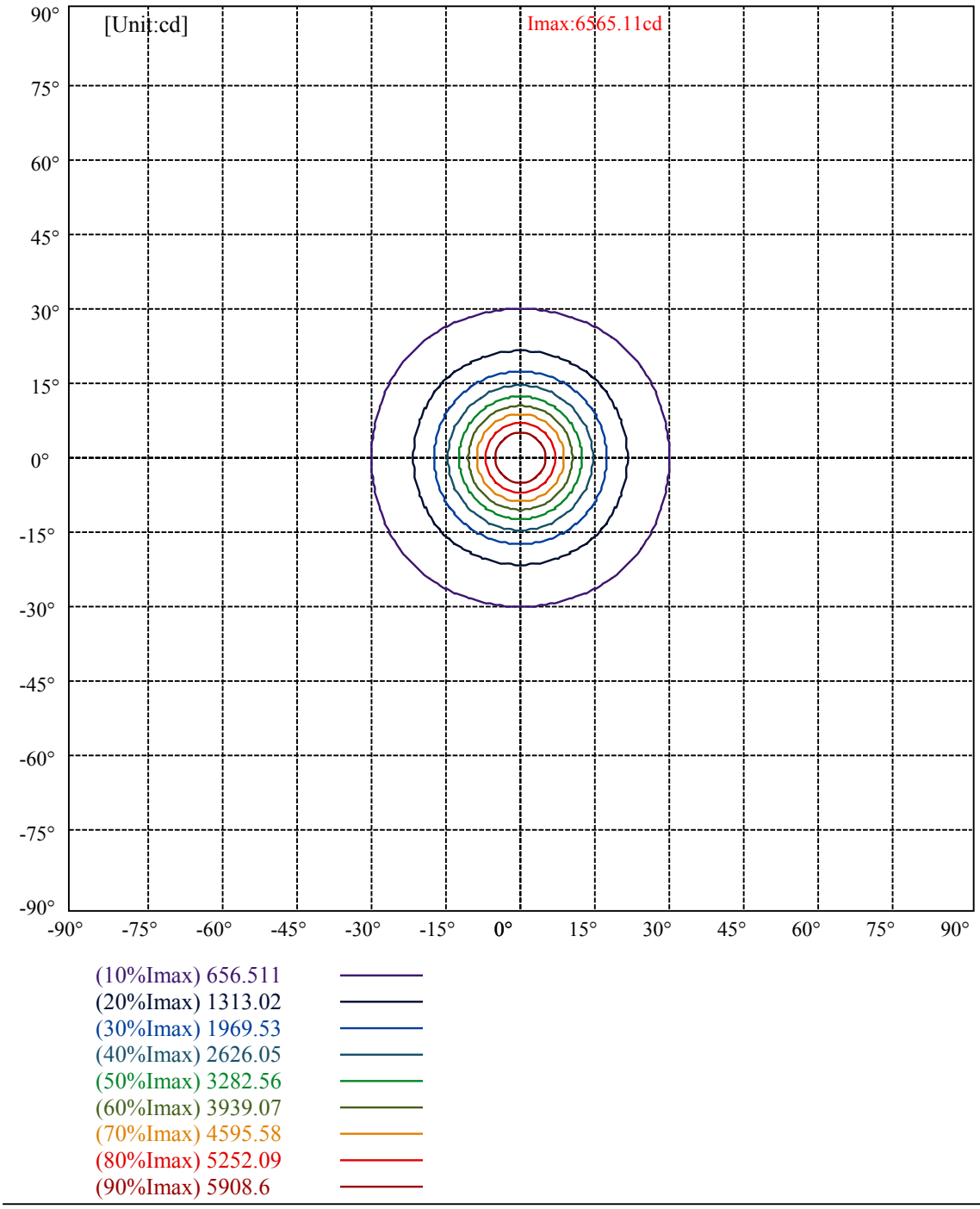
Beam Angle(50%Imax):C0/180Left:12.2 Right:12.2
:C90/270Left:12.2 Right:12.2

Lux distance Curve



Equipment: GMS1980 Date: 2024/4/01 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)



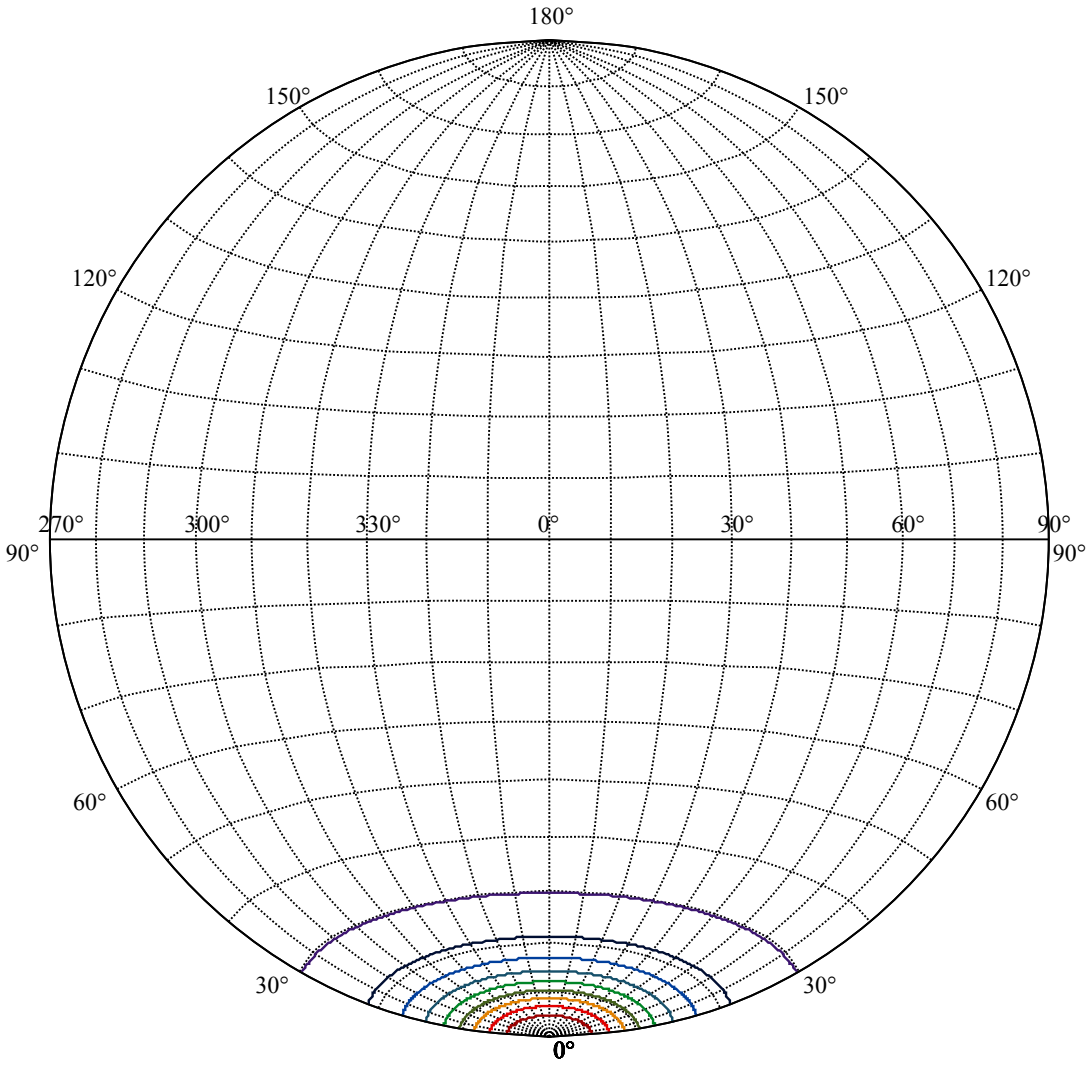
(10%Imax) 656.511
(20%Imax) 1313.02
(30%Imax) 1969.53
(40%Imax) 2626.05
(50%Imax) 3282.56
(60%Imax) 3939.07
(70%Imax) 4595.58
(80%Imax) 5252.09
(90%Imax) 5908.6

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/01
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



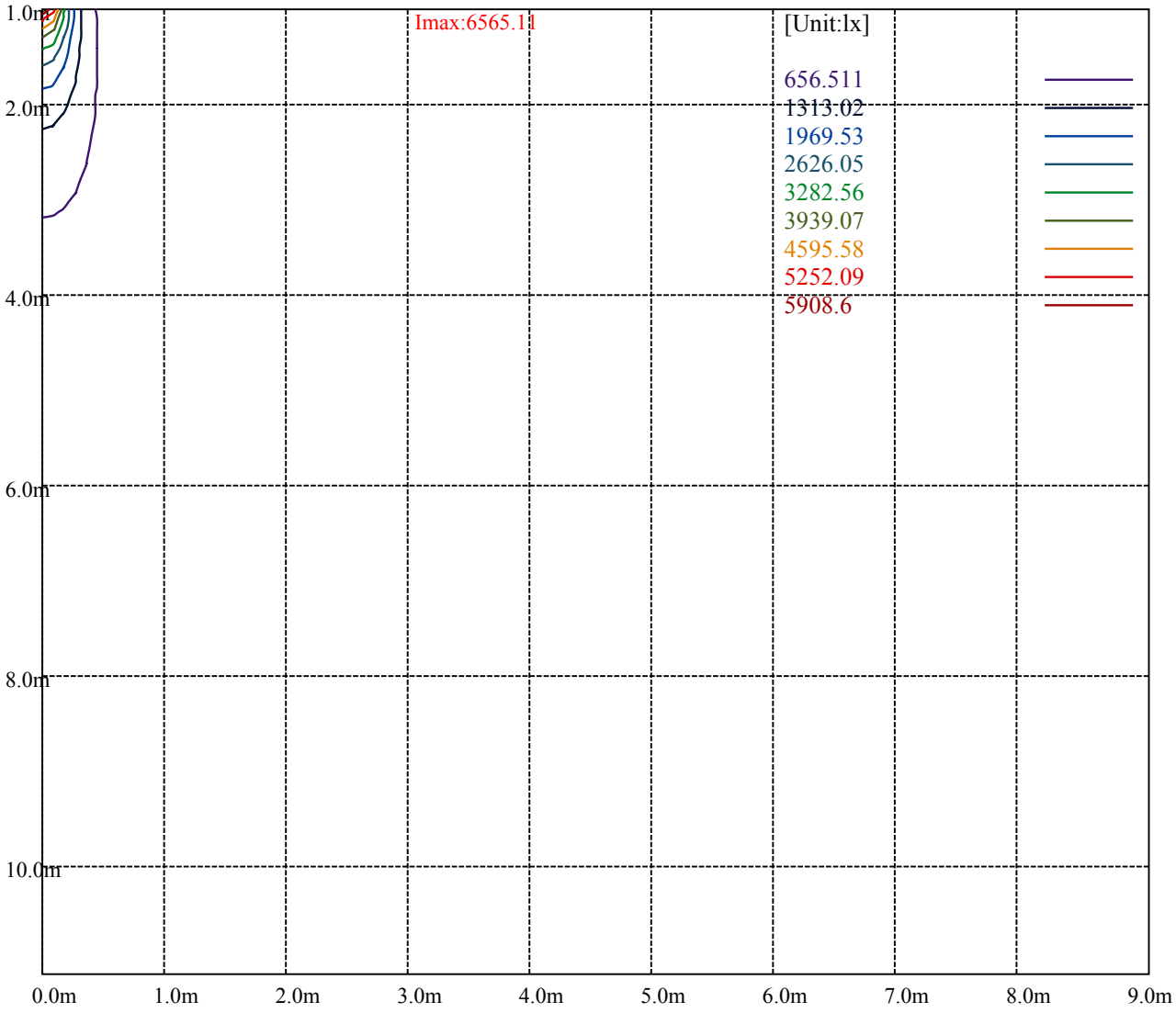
House [Unit:cd] Road

Imax:6565.11

(10%Imax) 656.511
(20%Imax) 1313.02
(30%Imax) 1969.53
(40%Imax) 2626.05
(50%Imax) 3282.56
(60%Imax) 3939.07
(70%Imax) 4595.58
(80%Imax) 5252.09
(90%Imax) 5908.6

Equipment: GMS1980	Date: 2024/4/01	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/01
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

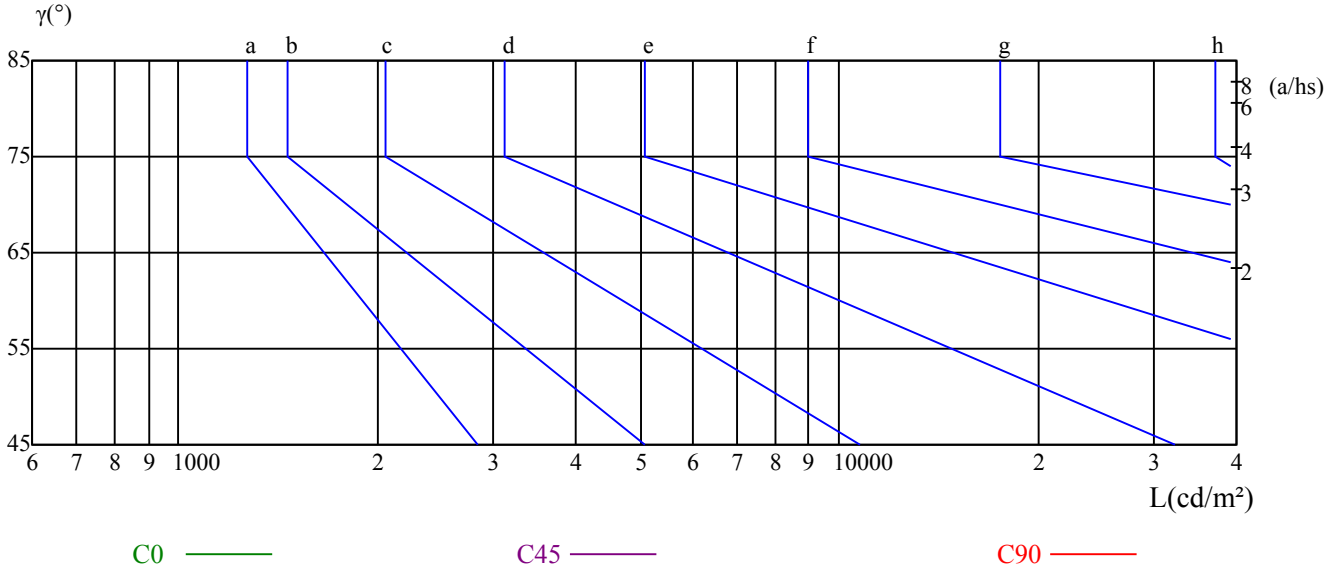
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

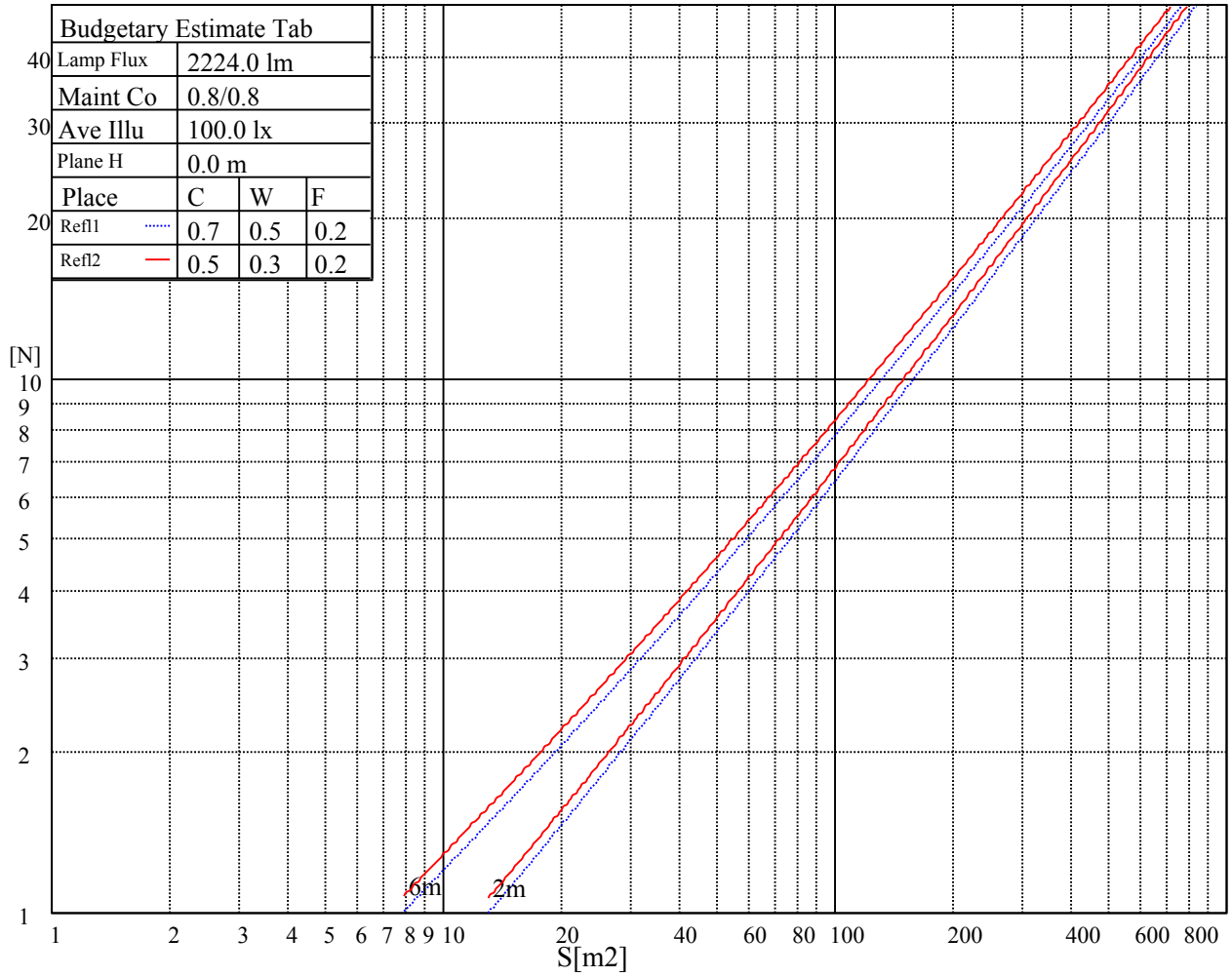
Luminance Limitting Curve



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

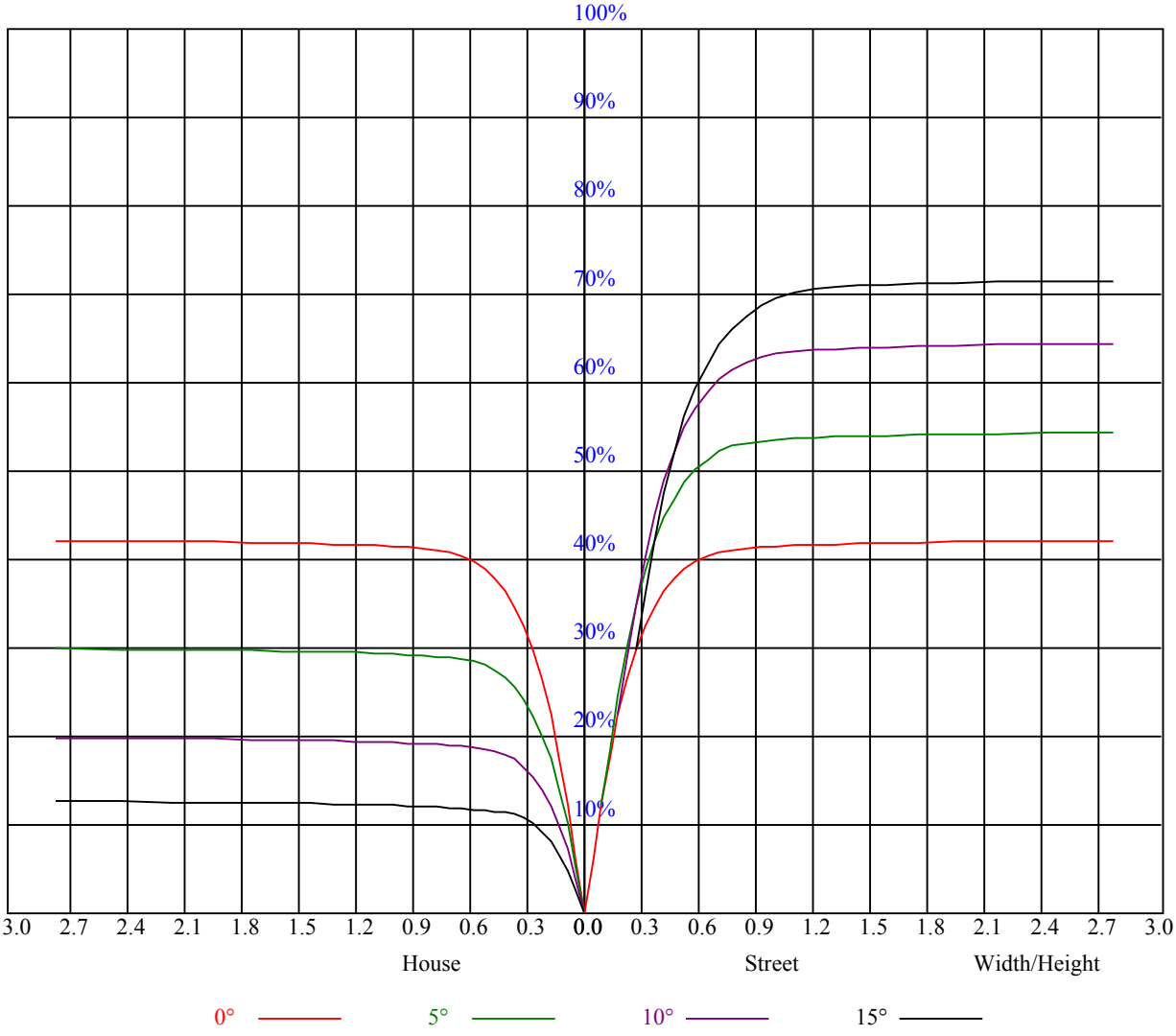


Equipment: GMS1980 Date: 2024/4/01 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Utilization factor table for indoor luminaire

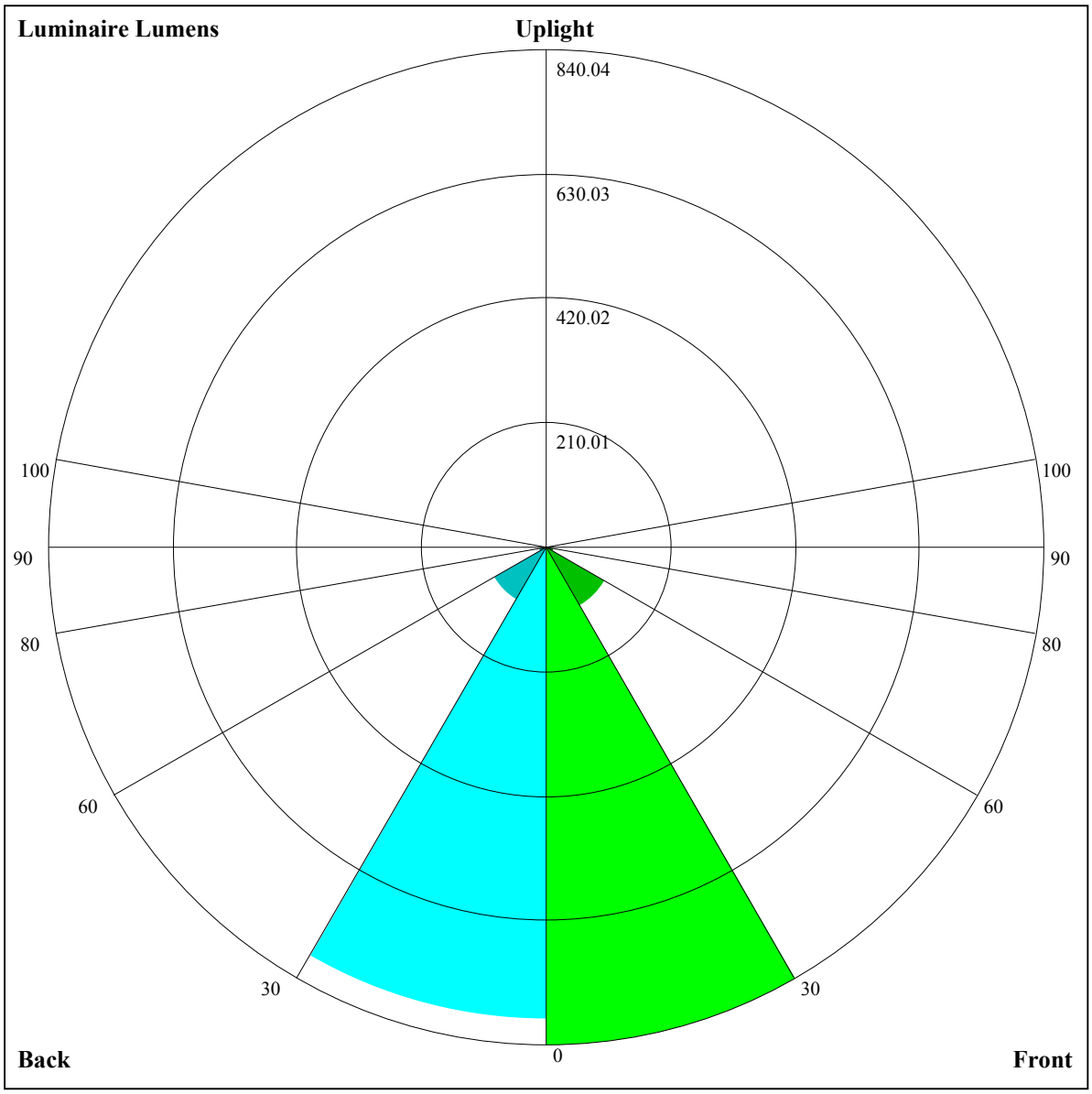
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.90	0.90	0.88	0.87	0.86	0.85	0.84	0.84	0.83	0.82	0.80
2	0.89	0.86	0.84	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.79	0.81	0.79	0.78	0.76
3	0.85	0.81	0.78	0.84	0.80	0.78	0.81	0.79	0.76	0.79	0.77	0.75	0.78	0.76	0.74	0.73
4	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.76	0.74	0.72	0.75	0.73	0.71	0.70
5	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.73	0.70	0.68	0.72	0.70	0.68	0.67
6	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.64
7	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.61
8	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.59
9	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.63	0.60	0.58	0.57
10	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.55

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/4/01	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

LCS Graph



Luminaire Lumens:
FL=840.04,FM=114.61,FH=14.12,FVH=4.84
BL=796.31,BM=102.29,BH=13.68,BVH=4.78
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	6590.86	6561.60	6487.28	6342.14	6199.35	6002.13	5687.28	5372.42	5035.33
45.0	6538.19	6586.77	6580.33	6513.61	6411.20	6273.09	6095.76	5858.16	5479.52
90.0	6582.67	6563.94	6494.89	6350.33	6188.23	5976.38	5697.81	5290.49	4941.11
135.0	6548.73	6571.55	6533.51	6437.53	6251.43	6036.65	5765.11	5366.57	5015.44
180.0	6590.86	6555.75	6473.82	6344.48	6113.32	5838.85	5523.41	5164.08	4690.64
225.0	6538.19	6456.85	6287.13	6082.89	5809.59	5395.25	5028.31	4551.35	4179.15
270.0	6582.67	6543.46	6450.99	6331.61	6165.40	5865.77	5565.55	5219.68	4757.94
315.0	6548.73	6480.84	6364.97	6204.61	6013.25	5765.70	5369.50	5024.22	4662.55
360.0	6590.86	6561.60	6487.28	6342.14	6199.35	6002.13	5687.28	5372.42	5035.33

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4678.93	4228.89	3874.25	3536.57	3131.60	2837.23	2568.03	2270.73	2063.56
45.0	5147.70	4705.27	4348.28	3908.78	3570.52	3239.86	2929.11	2577.39	2335.69
90.0	4493.42	4141.70	3789.39	3361.59	3046.74	2762.32	2445.71	2219.82	2019.08
135.0	4658.45	4310.83	3871.32	3535.40	3214.70	2919.16	2582.07	2341.54	2077.02
180.0	4325.46	3963.20	3610.31	3202.99	2900.43	2621.28	2327.50	2126.77	1889.16
225.0	3818.07	3400.22	3088.88	2798.60	2542.28	2261.37	2074.68	1900.87	1739.35
270.0	4398.61	4039.28	3600.36	3276.73	2973.59	2688.58	2390.70	2179.44	1982.80
315.0	4290.34	3854.94	3520.77	3205.92	2906.29	2570.95	2334.52	2121.50	1883.90
360.0	4678.93	4228.89	3874.25	3536.57	3131.60	2837.23	2568.03	2270.73	2063.56

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1886.82	1686.09	1548.56	1424.50	1152.66	1152.66	1081.79	993.01	912.60
45.0	2123.84	1934.81	1735.25	1595.97	1461.37	1346.66	1216.74	1119.01	1027.13
90.0	1847.61	1656.25	1521.64	1401.09	1156.52	1156.52	1059.43	970.89	871.99
135.0	1892.09	1732.32	1552.08	1424.50	1310.96	1206.79	1087.41	996.11	912.42
180.0	1735.25	1586.60	1454.34	1303.94	1195.67	1099.11	1010.74	908.33	837.52
225.0	1560.85	1425.08	1162.08	1162.08	1058.15	966.62	861.22	796.78	741.83
270.0	1817.77	1627.57	1491.21	1367.14	1228.45	1129.54	1032.40	920.62	846.29
315.0	1714.77	1538.03	1408.11	1165.07	1165.07	1070.20	981.54	901.60	832.89
360.0	1886.82	1686.09	1548.56	1424.50	1152.66	1152.66	1081.79	993.01	912.60

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	827.80	771.85	728.37	686.23	608.28	529.10	415.16	326.26	217.59
45.0	920.03	847.46	774.90	731.59	694.72	635.61	542.56	457.12	367.58
90.0	809.13	757.92	717.13	656.15	584.87	481.64	394.38	306.37	220.57
135.0	839.86	769.04	725.15	681.85	598.16	519.74	433.13	322.52	302.03
180.0	778.99	718.71	676.58	611.03	506.28	416.15	328.37	308.47	207.23
225.0	697.88	656.97	589.38	506.28	399.06	309.82	228.30	156.43	93.58
270.0	784.85	725.15	685.94	620.98	543.15	436.05	350.02	304.38	304.38
315.0	761.26	716.84	680.62	619.34	521.79	434.76	325.39	240.41	165.38
360.0	827.80	771.85	728.37	686.23	608.28	529.10	415.16	326.26	217.59

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	144.20	95.68	75.32	66.31	60.45	55.77	51.15	46.29	42.90
45.0	302.03	302.03	110.55	79.42	71.22	62.85	57.88	51.97	47.81
90.0	134.25	86.61	72.51	65.84	58.87	54.25	49.74	45.00	41.67
135.0	302.03	92.00	73.80	67.13	61.04	56.42	50.86	46.88	43.37
180.0	105.87	77.66	68.65	62.38	57.06	51.27	47.11	43.42	40.09
225.0	75.96	69.64	62.15	57.53	52.67	47.52	43.89	40.61	37.16
270.0	109.67	77.72	69.52	62.56	57.88	53.43	48.34	44.83	40.79
315.0	95.86	72.68	65.08	59.75	55.48	51.38	47.40	43.25	40.26
360.0	144.20	95.68	75.32	66.31	60.45	55.77	51.15	46.29	42.90

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	39.80	37.10	34.06	32.01	29.90	28.32	27.10	25.87	25.11
45.0	44.24	40.20	37.45	34.94	32.19	30.26	28.68	27.10	25.81
90.0	38.04	35.41	33.12	30.55	29.03	27.39	26.22	24.99	24.35
135.0	39.39	36.75	34.18	31.60	29.85	28.21	26.57	25.63	24.64
180.0	36.58	34.00	32.01	29.73	28.27	26.57	25.57	24.70	23.99
225.0	34.70	32.60	30.78	28.73	27.39	26.34	25.34	24.40	23.76
270.0	38.16	35.70	33.65	31.31	29.73	28.32	27.21	26.16	25.22
315.0	37.63	35.23	32.71	30.96	29.38	27.74	26.74	25.75	24.93
360.0	39.80	37.10	34.06	32.01	29.90	28.32	27.10	25.87	25.11

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	24.52	24.05	23.64	23.17	22.77	22.06	21.13	20.25	19.25
45.0	24.99	24.35	23.70	23.35	22.88	22.47	21.89	21.07	20.13
90.0	23.70	23.23	22.94	22.47	22.18	21.30	20.60	19.72	18.61
135.0	24.11	23.53	23.29	22.82	22.47	21.89	21.07	20.13	19.14
180.0	23.29	22.94	22.59	22.18	21.65	20.89	20.19	19.20	18.20
225.0	23.41	22.94	22.53	21.95	21.07	20.31	19.14	18.32	17.32
270.0	24.58	24.05	23.64	23.23	22.65	21.83	21.07	19.84	18.96
315.0	24.35	23.99	23.53	23.12	22.53	21.77	20.78	19.61	18.84
360.0	24.52	24.05	23.64	23.17	22.77	22.06	21.13	20.25	19.25

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.55	17.26	16.50	15.45	14.63	13.93	13.28	12.87	12.47
45.0	19.14	18.32	17.38	16.39	15.57	14.69	14.10	13.28	12.82
90.0	17.73	16.80	16.09	14.92	14.22	13.69	13.05	12.47	12.17
135.0	18.32	17.09	16.27	15.51	14.57	13.93	13.28	12.76	12.29
180.0	17.21	16.15	15.33	14.57	13.75	13.17	12.64	12.17	11.82
225.0	16.50	15.45	14.63	14.05	13.40	12.76	12.35	12.00	11.65
270.0	18.02	17.09	16.04	15.10	14.46	13.87	13.11	12.70	12.35
315.0	17.85	16.80	15.92	14.86	14.22	13.58	12.99	12.58	12.23
360.0	18.55	17.26	16.50	15.45	14.63	13.93	13.28	12.87	12.47

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.00	11.70	11.41	11.18	10.83	10.59	10.36	10.18	9.89
45.0	12.41	12.06	11.70	11.41	11.06	10.83	10.59	10.36	10.12
90.0	11.76	11.53	11.24	10.94	10.71	10.48	10.24	10.01	9.77
135.0	12.00	11.65	11.29	11.12	10.89	10.65	10.36	10.18	9.95
180.0	11.53	11.24	10.94	10.71	10.48	10.30	10.01	9.77	9.60
225.0	11.35	11.06	10.77	10.53	10.36	10.07	9.89	9.66	9.42
270.0	11.94	11.65	11.29	11.06	10.83	10.59	10.30	10.12	9.83
315.0	11.94	11.59	11.29	11.06	10.77	10.48	10.24	10.07	9.77
360.0	12.00	11.70	11.41	11.18	10.83	10.59	10.36	10.18	9.89

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.66	9.42	9.19	9.01	8.78	8.60	8.49	8.37	8.31
45.0	9.89	9.60	9.36	9.19	8.95	8.78	8.60	8.49	8.37
90.0	9.54	9.31	9.13	8.95	8.78	8.60	8.49	8.31	8.19
135.0	9.66	9.48	9.19	9.01	8.84	8.66	8.54	8.31	8.31
180.0	9.36	9.19	8.95	8.78	8.60	8.43	8.25	8.19	8.08
225.0	9.19	8.95	8.84	8.66	8.49	8.31	8.25	8.08	8.13
270.0	9.60	9.31	9.13	8.95	8.78	8.54	8.37	8.31	8.13
315.0	9.60	9.25	9.07	8.90	8.66	8.49	8.37	8.25	8.08
360.0	9.66	9.42	9.19	9.01	8.78	8.60	8.49	8.37	8.31

Intensity data(cd)

C/γ(°)	90.0
0.0	8.08
45.0	8.25
90.0	8.08
135.0	8.13
180.0	8.08
225.0	8.08
270.0	8.19
315.0	8.13
360.0	8.08