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

NT

Client:
LumCAT: 1-1302-L
Luminaire: 92.70.427.00
Report No: 2024724-B005
Ballast type: AC

Test No: 2024724-C005	Voltage(V): 36.160
LampCAT: P2121-018-1203-P3090-1	Current(A): 0.360
Lamp flux(lm): 2004.0	Power (W): 13.017
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1875.59, Efficiency(%): 93.59% , Luminous Efficacy(lm/W): 144.09
Central intensity(cd): 3591.292, Maximum intensity(cd): 3591.292
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=42.4
[C90/270]Total=42.4
Field angle(10%Imax): [C0/180]Total=66.2
[C90/270]Total=66.2
Maximum s/h(1/2): C0_180=0.69 C90_270=0.69
Maximum s/h(1/4): C0_180=0.67 C90_270=0.67
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.59%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.845%

Equipment: GMS1980	Date: 2024/7/24	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	3591.292	0.000	0	0.00%	0.00%
1.0	3575.198	3.429	3.429	0.17%	0.18%
2.0	3546.961	10.222	13.651	0.51%	0.73%
3.0	3523.552	16.910	30.562	0.84%	1.63%
4.0	3502.045	23.517	54.079	1.17%	2.88%
5.0	3470.077	29.994	84.072	1.50%	4.48%
6.0	3418.431	36.201	120.273	1.81%	6.41%
7.0	3362.615	42.090	162.363	2.10%	8.66%
8.0	3296.631	47.659	210.022	2.38%	11.20%
9.0	3235.036	52.936	262.958	2.64%	14.02%
10.0	3162.029	57.891	320.849	2.89%	17.11%
11.0	3088.364	62.454	383.303	3.12%	20.44%
12.0	2996.118	66.512	449.815	3.32%	23.98%
13.0	2899.775	69.969	519.785	3.49%	27.71%
14.0	2788.509	72.810	592.594	3.63%	31.60%
15.0	2673.732	74.988	667.582	3.74%	35.59%
16.0	2552.005	76.572	744.154	3.82%	39.68%
17.0	2412.502	77.311	821.465	3.86%	43.80%
18.0	2273.731	77.266	898.73	3.86%	47.92%
19.0	2134.008	76.686	975.416	3.83%	52.01%
20.0	1977.168	75.246	1050.662	3.75%	56.02%
21.0	1826.180	73.032	1123.694	3.64%	59.91%
22.0	1672.851	70.315	1194.009	3.51%	63.66%
23.0	1483.253	66.224	1260.232	3.30%	67.19%
24.0	1319.331	61.275	1321.507	3.06%	70.46%
25.0	1239.199	58.175	1379.682	2.90%	73.56%
26.0	1111.086	55.479	1435.161	2.77%	76.52%
27.0	979.923	51.157	1486.318	2.55%	79.25%
28.0	861.473	46.620	1532.938	2.33%	81.73%
29.0	744.648	42.021	1574.959	2.10%	83.97%
30.0	632.380	37.179	1612.138	1.86%	85.95%
31.0	531.004	32.375	1644.513	1.62%	87.68%
32.0	448.136	28.051	1672.565	1.40%	89.18%
33.0	365.890	23.982	1696.546	1.20%	90.45%
34.0	298.874	20.118	1716.664	1.00%	91.53%
35.0	250.015	17.046	1733.71	0.85%	92.44%
36.0	209.042	14.616	1748.327	0.73%	93.21%
37.0	156.416	11.919	1760.246	0.59%	93.85%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	112.956	8.991	1769.237	0.45%	94.33%
39.0	89.364	6.906	1776.143	0.34%	94.70%
40.0	73.299	5.673	1781.816	0.28%	95.00%
41.0	61.017	4.783	1786.599	0.24%	95.26%
42.0	52.977	4.142	1790.741	0.21%	95.48%
43.0	46.635	3.690	1794.431	0.18%	95.67%
44.0	42.187	3.352	1797.783	0.17%	95.85%
45.0	38.522	3.102	1800.885	0.15%	96.02%
46.0	35.874	2.909	1803.794	0.15%	96.17%
47.0	33.490	2.759	1806.553	0.14%	96.32%
48.0	31.507	2.628	1809.181	0.13%	96.46%
49.0	29.773	2.517	1811.697	0.13%	96.59%
50.0	28.354	2.424	1814.121	0.12%	96.72%
51.0	27.030	2.343	1816.464	0.12%	96.85%
52.0	25.977	2.275	1818.738	0.11%	96.97%
53.0	25.011	2.218	1820.956	0.11%	97.09%
54.0	24.111	2.165	1823.122	0.11%	97.20%
55.0	23.241	2.114	1825.235	0.11%	97.32%
56.0	22.480	2.066	1827.301	0.10%	97.43%
57.0	21.844	2.027	1829.328	0.10%	97.53%
58.0	21.119	1.987	1831.315	0.10%	97.64%
59.0	20.468	1.944	1833.259	0.10%	97.74%
60.0	19.781	1.901	1835.16	0.09%	97.84%
61.0	19.137	1.857	1837.018	0.09%	97.94%
62.0	18.522	1.815	1838.832	0.09%	98.04%
63.0	17.937	1.773	1840.605	0.09%	98.13%
64.0	17.279	1.728	1842.333	0.09%	98.23%
65.0	16.679	1.681	1844.014	0.08%	98.32%
66.0	16.050	1.633	1845.647	0.08%	98.40%
67.0	15.472	1.585	1847.232	0.08%	98.49%
68.0	14.974	1.542	1848.774	0.08%	98.57%
69.0	14.521	1.505	1850.279	0.08%	98.65%
70.0	14.148	1.472	1851.751	0.07%	98.73%
71.0	13.819	1.445	1853.197	0.07%	98.81%
72.0	13.497	1.420	1854.617	0.07%	98.88%
73.0	13.182	1.395	1856.012	0.07%	98.96%
74.0	12.860	1.369	1857.381	0.07%	99.03%
75.0	12.560	1.343	1858.724	0.07%	99.10%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.231	1.316	1860.04	0.07%	99.17%
77.0	11.939	1.289	1861.329	0.06%	99.24%
78.0	11.661	1.263	1862.592	0.06%	99.31%
79.0	11.368	1.237	1863.83	0.06%	99.37%
80.0	11.046	1.208	1865.038	0.06%	99.44%
81.0	10.775	1.180	1866.218	0.06%	99.50%
82.0	10.505	1.154	1867.372	0.06%	99.56%
83.0	10.234	1.127	1868.5	0.06%	99.62%
84.0	9.956	1.100	1869.599	0.05%	99.68%
85.0	9.693	1.072	1870.672	0.05%	99.74%
86.0	9.364	1.042	1871.714	0.05%	99.79%
87.0	9.086	1.010	1872.723	0.05%	99.85%
88.0	8.830	0.981	1873.705	0.05%	99.90%
89.0	8.544	0.952	1874.657	0.05%	99.95%
90.0	8.405	0.929	1875.586	0.05%	100.00%

Zonal flux distribution table

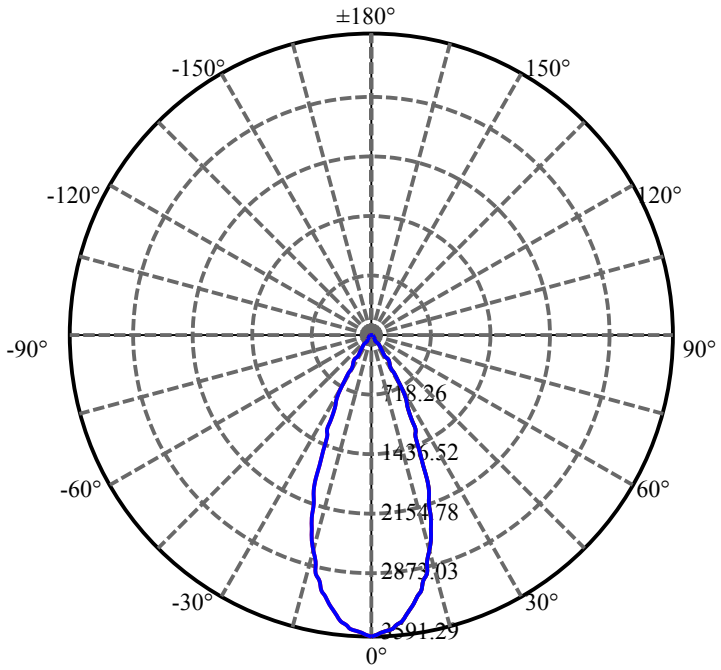
ZONAL LUMEN SUMMARY

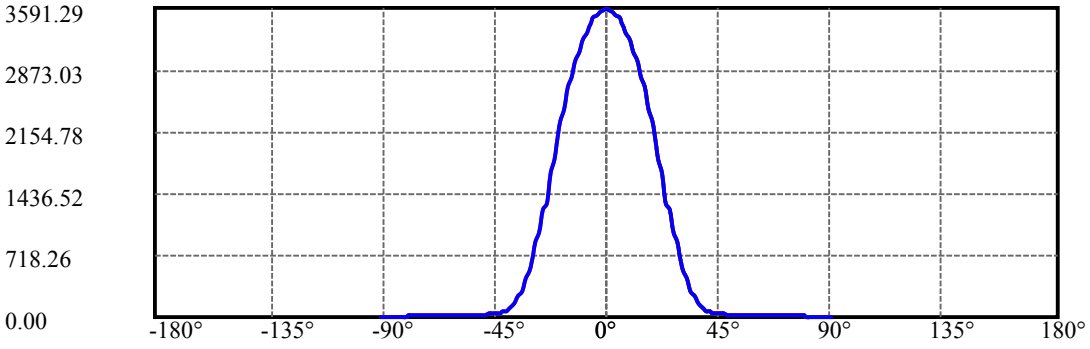
Zone	Lumens	%Lamp	%Fixt
0-30	1612.14	80.45%	85.95%
0-40	1781.82	88.91%	95.00%
0-60	1835.16	91.57%	97.84%
0-90	1874.66	93.55%	99.95%
0-120	1874.66	93.55%	99.95%
0-180	1875.59	93.59%	100.00%
60-90	39.50	1.97%	2.11%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.30	1500.47	74.87%	80.00%

ZONAL LUMEN SUMMARY

0-10	320.85
10-20	729.81
20-30	561.48
30-40	169.68
40-50	32.30
50-60	21.04
60-70	16.59
70-80	13.29
80-90	9.62
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):

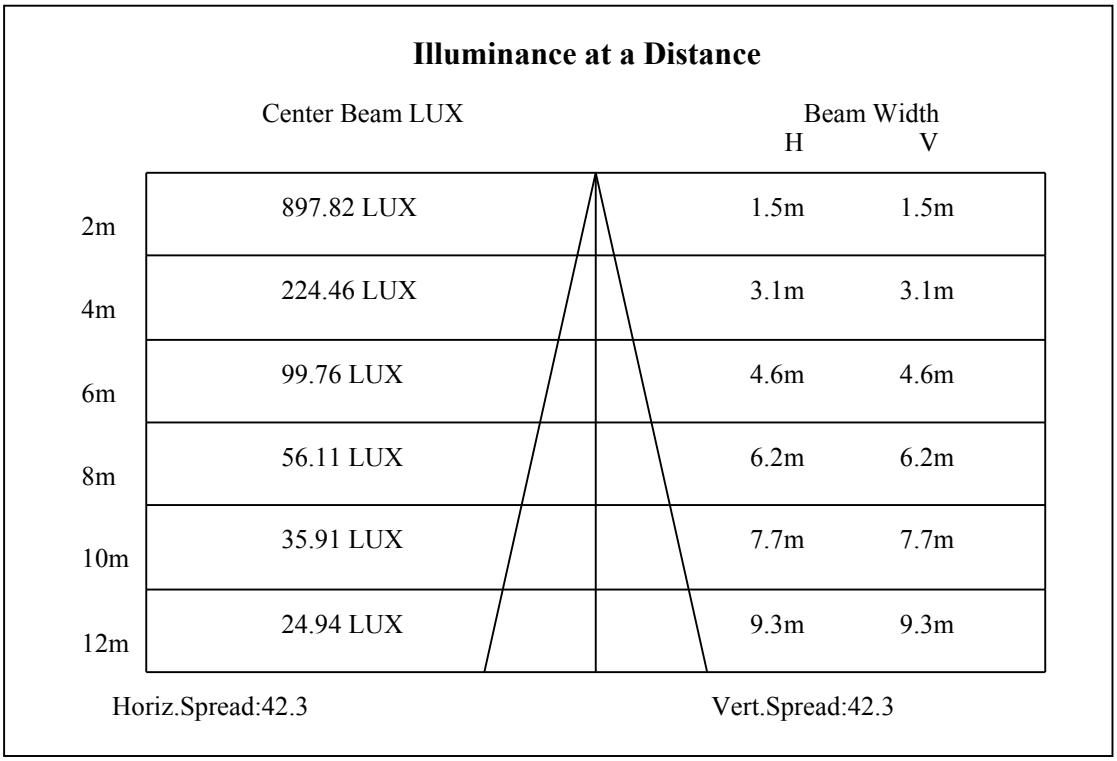
C0/C180:

C90/C270:

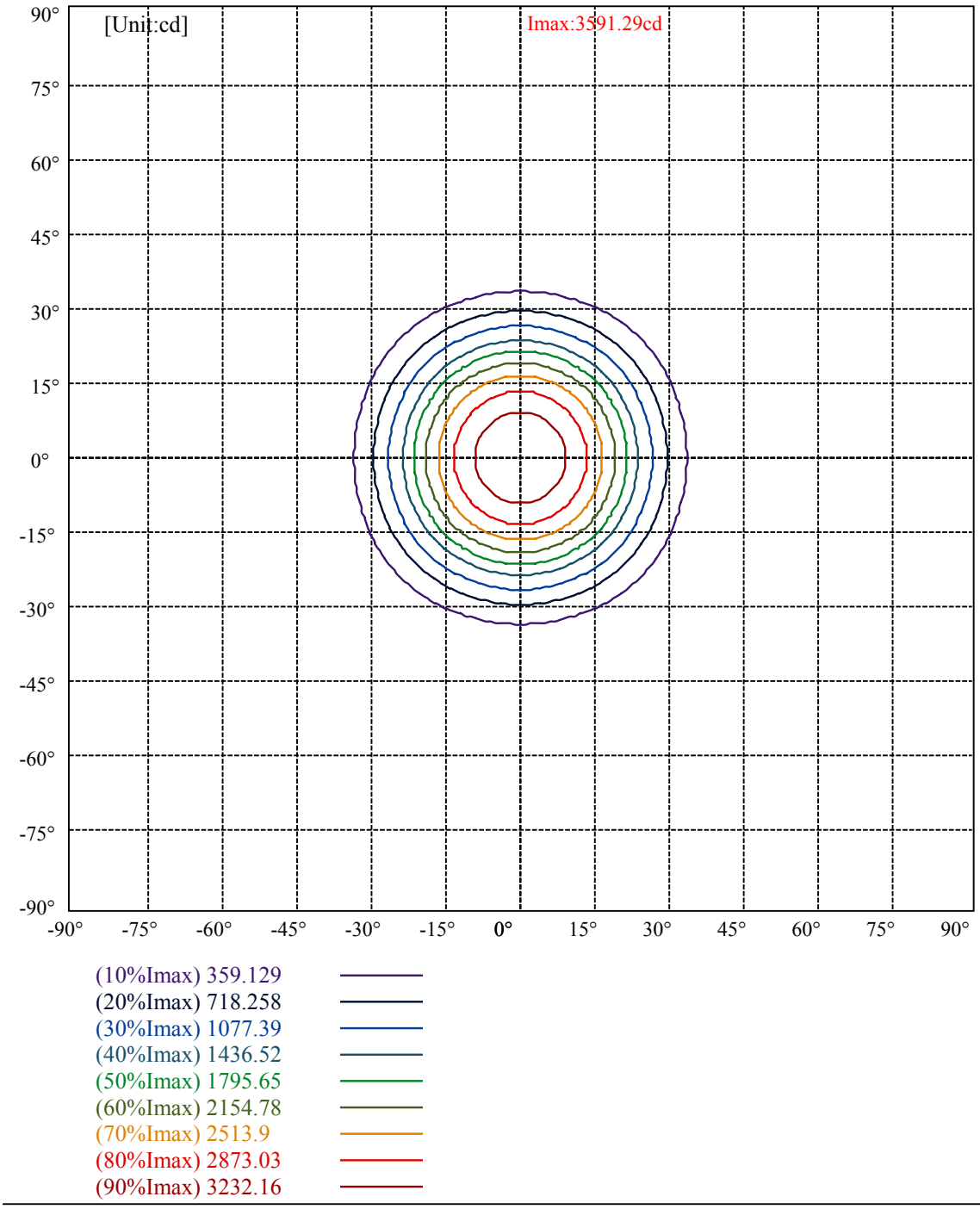
Field angle(10%Imax):C0/180Left:33.1 Right:33.1
:C90/270Left:33.1 Right:33.1

Beam Angle(50%Imax):C0/180Left:21.2 Right:21.2
:C90/270Left:21.2 Right:21.2

Lux distance Curve



ISO-Intensity(V-H)



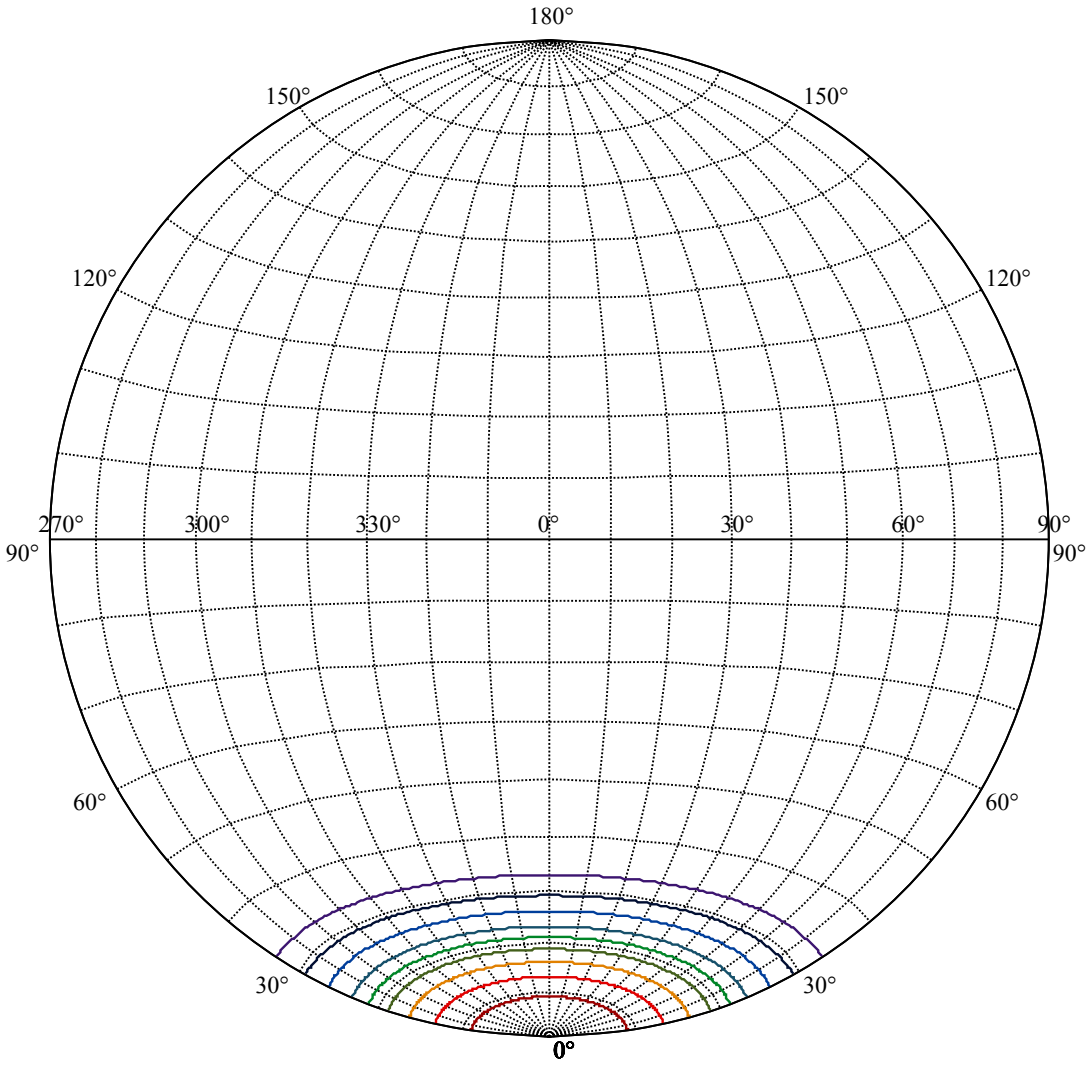
(10%Imax) 359.129
(20%Imax) 718.258
(30%Imax) 1077.39
(40%Imax) 1436.52
(50%Imax) 1795.65
(60%Imax) 2154.78
(70%Imax) 2513.9
(80%Imax) 2873.03
(90%Imax) 3232.16

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/7/24
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



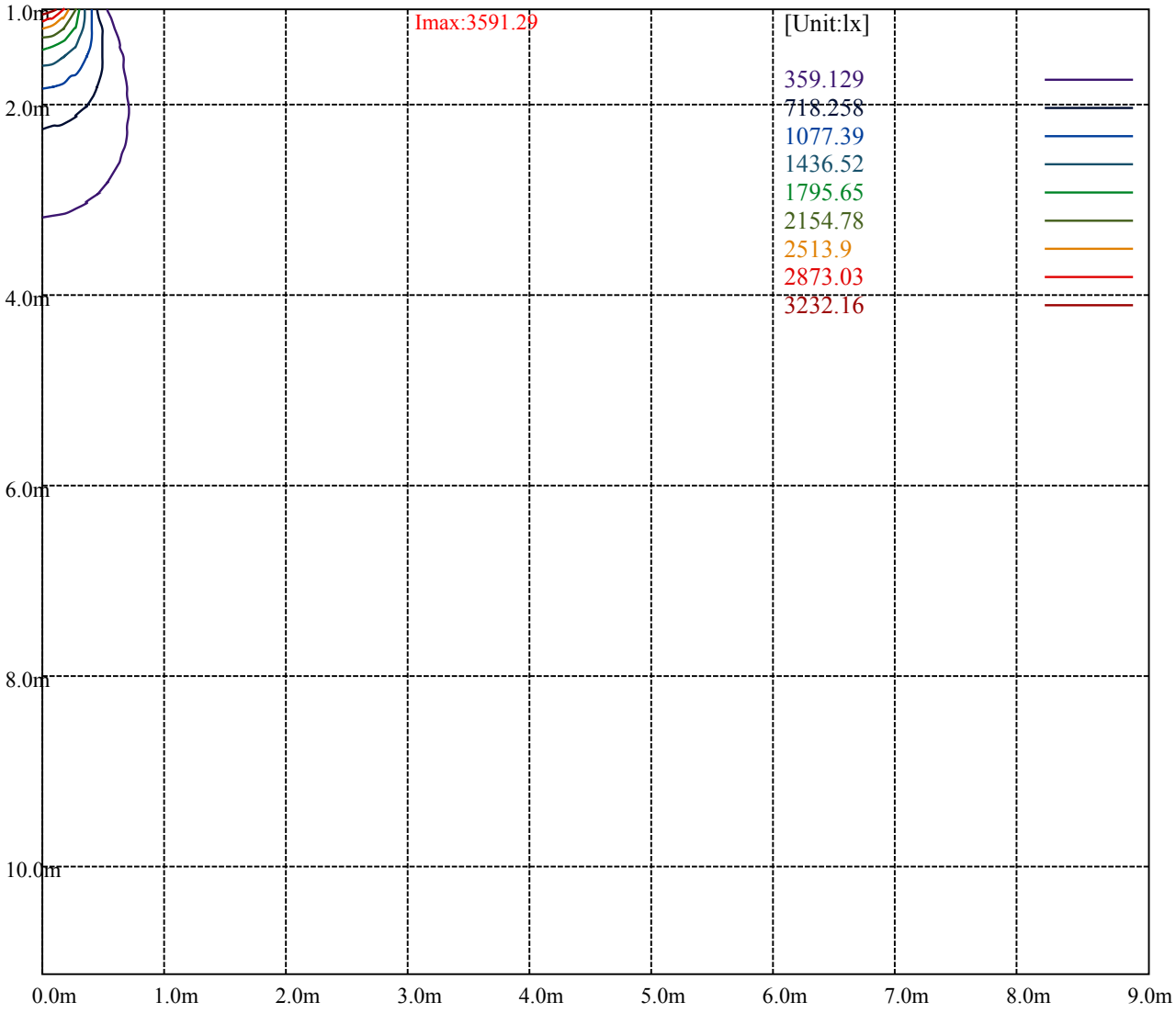
House [Unit:cd] Road

Imax:3591.29

(10%Imax) 359.129
(20%Imax) 718.258
(30%Imax) 1077.39
(40%Imax) 1436.52
(50%Imax) 1795.65
(60%Imax) 2154.78
(70%Imax) 2513.9
(80%Imax) 2873.03
(90%Imax) 3232.16

Equipment: GMS1980 Date: 2024/7/24 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/7/24
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 1-1302-L

Luminance Limitting Curve(no luminous side)

Luminance Table

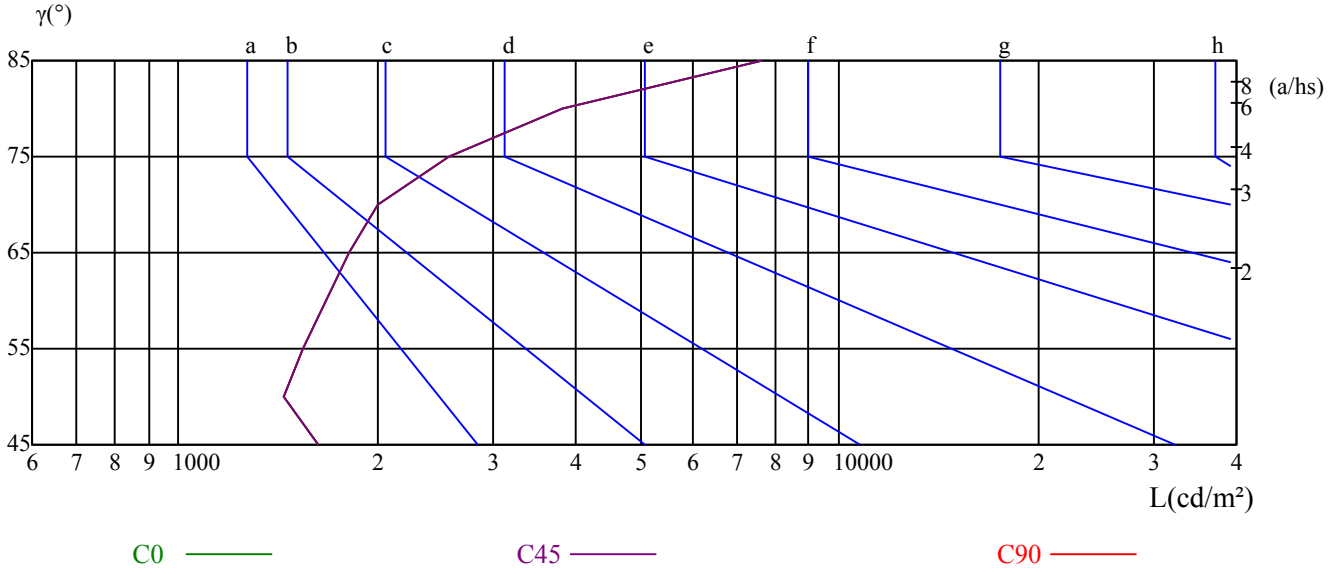
γ	45	50	55	60	65	70	75	80	85
C0	1631	1440	1544	1667	1806	1998	2572	3816	7630
C45	1631	1440	1544	1667	1806	1998	2572	3816	7630
C90	1631	1440	1544	1667	1806	1998	2572	3816	7630

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1806	1806	1806	2572	2572	2572	7630	7630	7630

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



Equipment: GMS1980
Temperature(°C): 25.0

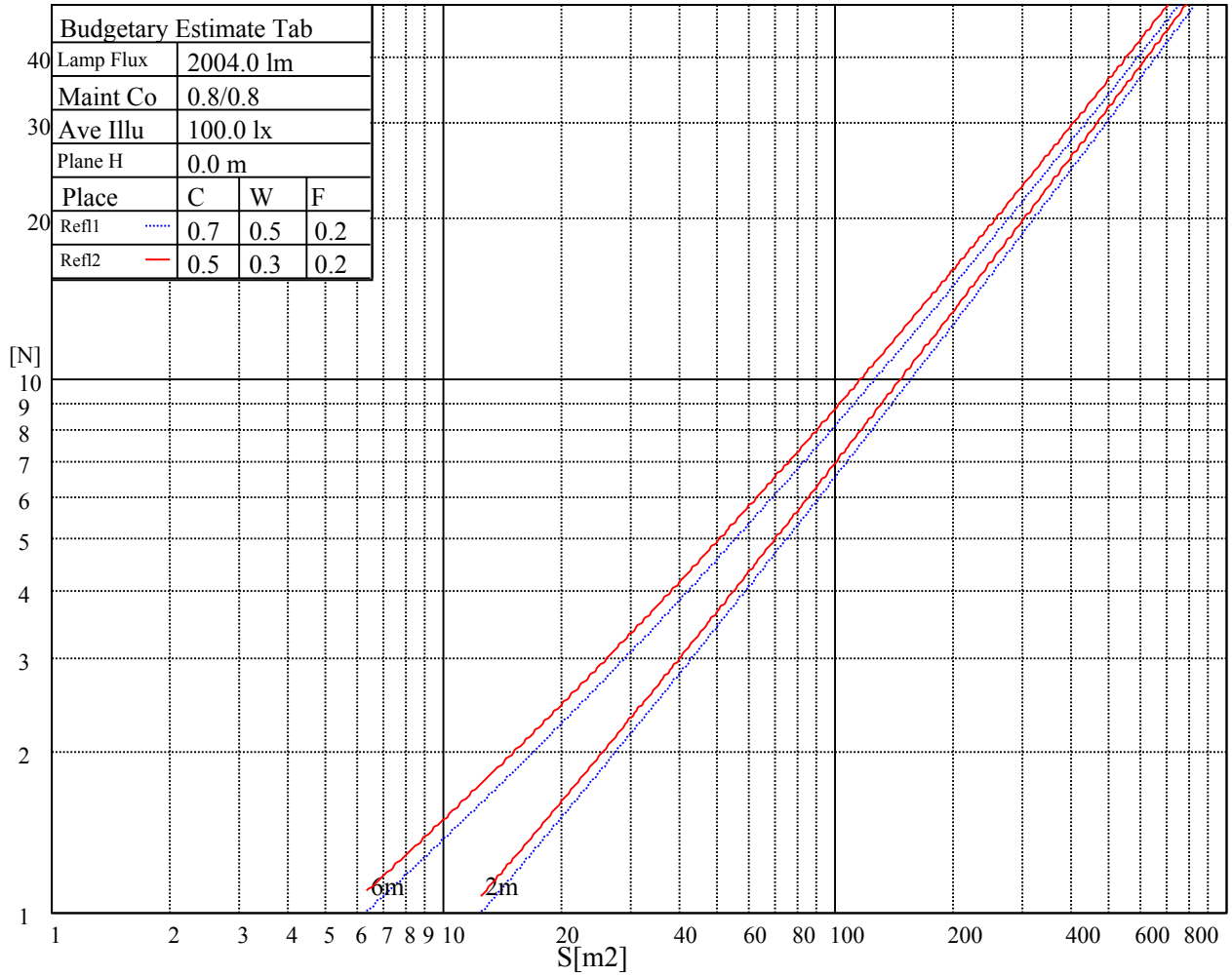
Date: 2024/7/24
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

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

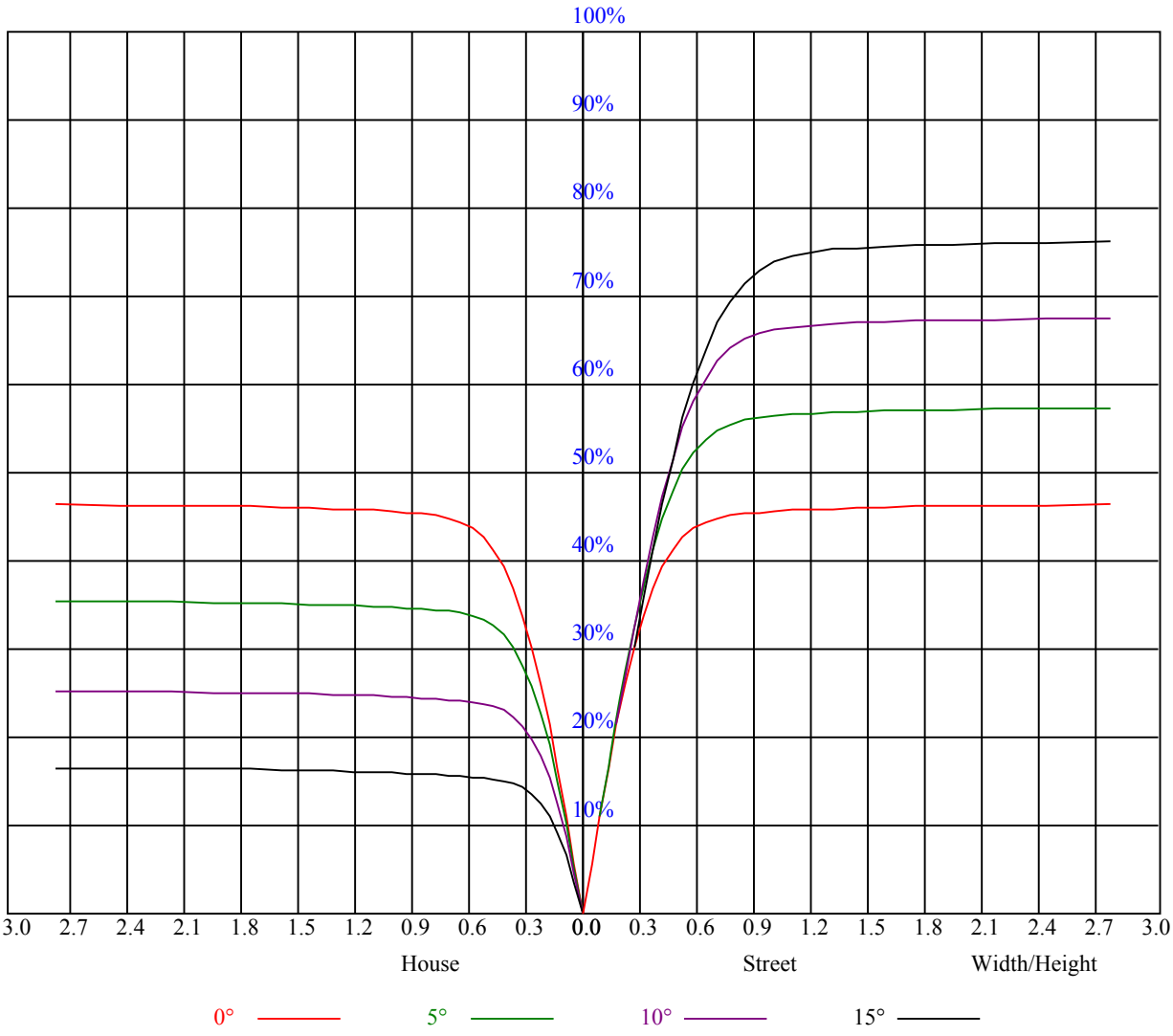


Equipment: GMS1980	Date: 2024/7/24	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Utilization factor table for indoor luminaire

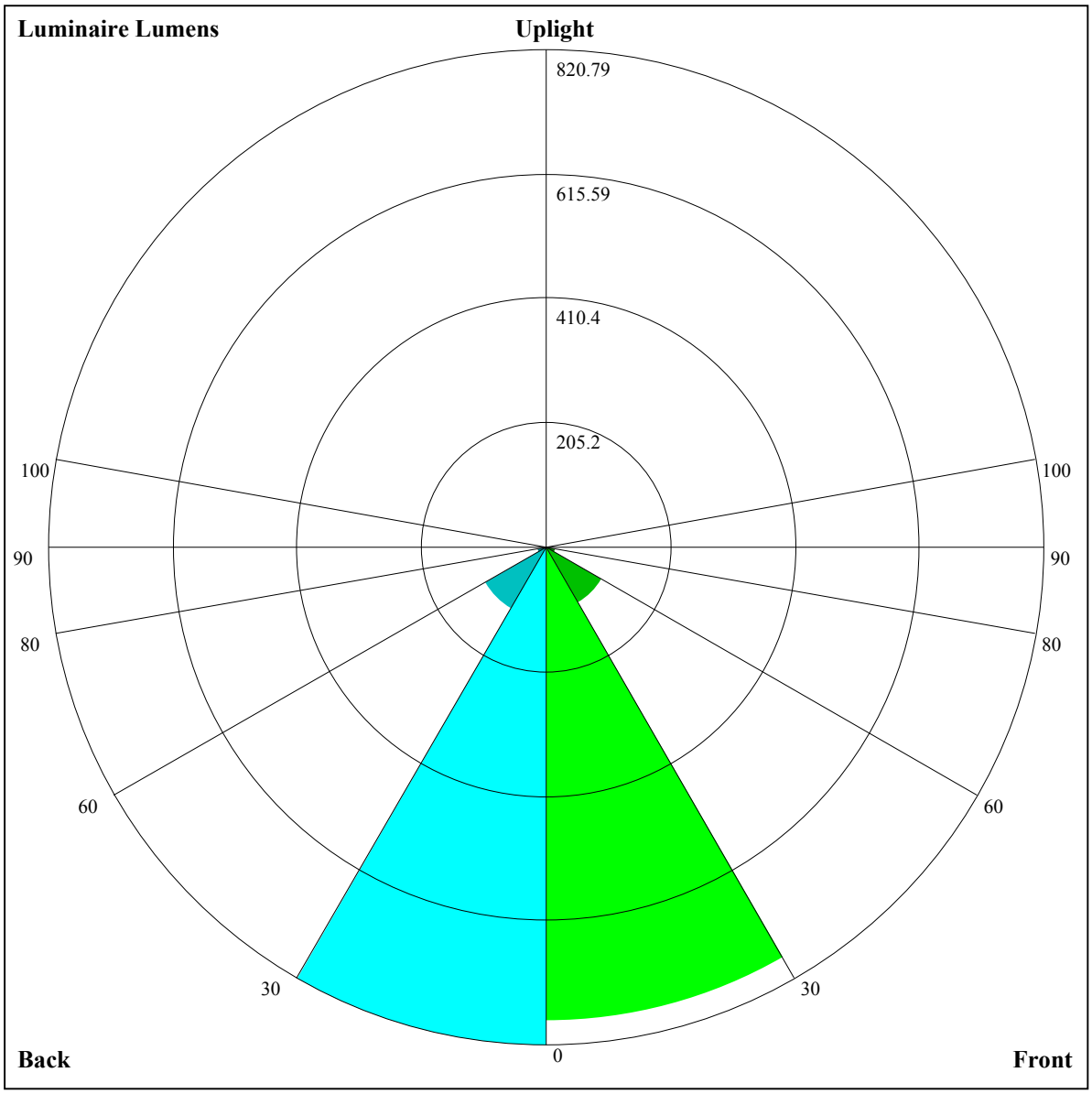
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.11	1.11	1.11	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.04	1.02	1.00	1.02	1.00	0.98	0.98	0.97	0.95	0.95	0.94	0.92	0.92	0.91	0.90	0.88
2	0.98	0.94	0.91	0.96	0.93	0.90	0.93	0.90	0.88	0.90	0.88	0.86	0.88	0.86	0.85	0.83
3	0.92	0.88	0.84	0.91	0.87	0.84	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.79
4	0.87	0.82	0.79	0.86	0.82	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.74
5	0.83	0.78	0.74	0.82	0.77	0.74	0.80	0.76	0.73	0.79	0.75	0.73	0.77	0.74	0.72	0.71
6	0.79	0.74	0.70	0.78	0.73	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.68	0.67
7	0.75	0.70	0.66	0.74	0.70	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.64
8	0.71	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.61
9	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.66	0.62	0.60	0.58
10	0.65	0.61	0.58	0.65	0.61	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.56

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/7/24	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

LCS Graph



Luminaire Lumens:
FL=781.94,FM=107.04,FH=14.93,FVH=5.24
BL=820.79,BM=118.21,BH=14.87,BVH=5.28
UL=0,UH=0

BUG Rating:B2-U0-G0

Equipment: GMS1980	Date: 2024/7/24	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

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	3593.93	3561.74	3520.19	3507.90	3472.20	3413.09	3351.64	3311.26	3234.60
45.0	3581.05	3596.27	3587.49	3542.43	3521.36	3502.63	3448.79	3396.70	3321.21
90.0	3596.85	3576.37	3545.35	3523.11	3514.92	3487.41	3407.82	3346.38	3277.32
135.0	3593.34	3598.61	3585.73	3548.28	3540.67	3547.69	3529.55	3480.98	3416.02
180.0	3593.93	3588.07	3562.32	3552.37	3554.72	3544.77	3509.65	3450.55	3402.56
225.0	3581.05	3544.77	3540.67	3531.89	3500.29	3441.77	3392.61	3351.64	3294.29
270.0	3596.85	3586.90	3535.99	3494.44	3469.27	3447.62	3410.16	3320.63	3257.42
315.0	3593.34	3548.86	3497.95	3488.00	3442.94	3375.64	3297.22	3242.79	3169.64
360.0	3593.93	3561.74	3520.19	3507.90	3472.20	3413.09	3351.64	3311.26	3234.60

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3168.47	3081.27	3004.60	2914.48	2785.73	2679.80	2571.54	2447.47	2292.97
45.0	3269.13	3213.53	3162.03	3067.81	2977.68	2878.20	2772.27	2631.23	2511.26
90.0	3215.87	3128.67	3047.33	2949.59	2850.10	2750.62	2623.62	2511.26	2362.61
135.0	3354.57	3279.07	3212.94	3133.94	3068.98	2975.34	2891.66	2761.74	2659.32
180.0	3375.05	3314.77	3246.89	3180.17	3094.14	3010.46	2900.43	2788.07	2642.93
225.0	3214.11	3129.84	3072.49	2985.29	2874.68	2760.56	2600.80	2476.73	2328.67
270.0	3198.31	3140.96	3056.69	2923.84	2826.11	2699.12	2591.43	2480.24	2307.02
315.0	3084.78	3008.12	2903.94	2813.82	2720.77	2553.98	2438.11	2319.31	2195.24
360.0	3168.47	3081.27	3004.60	2914.48	2785.73	2679.80	2571.54	2447.47	2292.97

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2158.37	2033.13	1893.85	1718.28	1597.72	1457.27	1143.18	1143.18	1012.56
45.0	2380.75	2209.87	2070.00	1942.42	1778.56	1652.73	1519.30	1354.27	1212.06
90.0	2250.83	2121.50	1950.61	1801.97	1632.25	1507.60	1159.33	1159.33	1128.43
135.0	2539.35	2409.43	2228.01	2092.82	1954.71	1801.97	1618.79	1488.87	1323.84
180.0	2517.70	2377.24	2213.38	2010.89	1851.71	1709.50	1537.44	1411.62	1241.91
225.0	2131.45	1981.05	1843.52	1694.28	1511.69	1158.16	1158.16	1128.72	982.53
270.0	2177.10	2033.13	1843.52	1703.06	1564.36	1441.47	1281.12	1151.78	1027.71
315.0	2034.30	1906.72	1774.46	1645.71	1491.80	1137.33	1137.33	1075.82	959.65
360.0	2158.37	2033.13	1893.85	1718.28	1597.72	1457.27	1143.18	1143.18	1012.56

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	858.88	747.80	651.53	536.36	450.56	375.66	308.47	235.61	185.52
45.0	1096.77	973.87	833.42	725.74	622.74	528.52	422.59	350.61	301.45
90.0	977.91	856.24	750.61	648.20	532.44	447.70	369.86	287.40	230.40
135.0	1193.33	1061.66	910.67	790.70	684.77	588.79	474.68	396.26	327.20
180.0	1116.08	1003.72	882.58	731.00	628.00	530.86	446.00	354.70	305.55
225.0	869.94	763.72	640.65	549.41	445.65	374.37	310.93	255.22	192.71
270.0	909.50	777.24	683.02	591.14	479.36	407.96	327.78	298.52	298.52
315.0	816.97	707.54	604.71	486.50	404.51	331.24	266.80	212.67	158.77
360.0	858.88	747.80	651.53	536.36	450.56	375.66	308.47	235.61	185.52

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	145.72	116.52	90.12	74.91	64.37	55.54	50.10	45.12	42.02
45.0	301.45	165.79	130.74	98.49	80.76	68.24	57.47	51.38	46.47
90.0	173.17	137.64	110.20	84.45	70.93	60.80	53.26	47.75	42.43
135.0	295.60	295.60	153.09	120.03	90.30	73.62	61.98	51.38	45.59
180.0	305.55	182.06	135.19	107.45	85.85	66.48	56.24	47.34	42.37
225.0	152.86	121.38	97.85	75.85	63.38	54.48	48.11	42.37	38.86
270.0	170.30	128.52	105.11	85.62	72.22	59.11	51.73	46.64	42.37
315.0	127.70	103.82	81.35	68.12	58.58	49.86	44.95	41.08	37.40
360.0	145.72	116.52	90.12	74.91	64.37	55.54	50.10	45.12	42.02

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	39.56	36.87	35.05	33.42	31.95	30.31	29.26	28.21	27.21
45.0	42.02	39.21	36.81	34.59	32.30	31.02	29.55	28.03	27.04
90.0	39.15	36.40	34.12	31.60	29.90	28.27	27.15	26.04	24.81
135.0	40.20	36.87	34.06	31.78	29.32	27.80	26.28	25.22	24.17
180.0	38.74	35.64	32.66	30.67	28.97	27.56	25.93	24.81	23.99
225.0	35.35	33.07	31.19	29.20	27.74	26.51	25.16	24.23	23.41
270.0	38.22	35.87	33.01	31.13	29.61	28.09	26.80	25.98	24.93
315.0	34.94	33.07	31.02	29.67	28.38	27.27	26.10	25.28	24.52
360.0	39.56	36.87	35.05	33.42	31.95	30.31	29.26	28.21	27.21

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.16	25.40	24.64	23.64	22.82	22.06	20.89	20.13	19.49
45.0	26.10	24.99	24.23	23.53	22.65	21.83	21.13	20.48	19.78
90.0	23.94	23.17	22.06	21.65	20.89	20.42	19.72	19.08	18.55
135.0	23.47	22.65	21.83	21.30	20.83	20.25	19.78	19.31	18.73
180.0	23.06	22.36	21.77	21.01	20.48	19.90	19.49	18.96	18.38
225.0	22.53	21.48	20.72	20.07	19.49	18.84	18.26	17.79	17.15
270.0	23.82	22.88	22.24	21.71	20.72	20.07	19.43	18.55	18.02
315.0	23.82	23.00	22.36	21.83	21.07	20.37	19.55	18.79	18.08
360.0	26.16	25.40	24.64	23.64	22.82	22.06	20.89	20.13	19.49

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.61	18.02	17.26	16.62	15.80	15.27	14.81	14.51	14.10
45.0	19.14	18.32	17.67	16.80	16.09	15.51	14.81	14.34	13.93
90.0	18.08	17.21	16.50	16.09	15.39	14.92	14.34	14.05	13.75
135.0	18.26	17.73	17.26	16.62	16.15	15.63	15.16	14.63	14.34
180.0	17.91	17.44	16.97	16.50	15.92	15.51	15.10	14.81	14.46
225.0	16.62	16.15	15.57	15.04	14.63	14.22	13.93	13.58	13.34
270.0	17.44	16.74	16.15	15.45	14.98	14.51	14.16	13.69	13.40
315.0	17.44	16.62	16.04	15.27	14.81	14.22	13.87	13.58	13.23
360.0	18.61	18.02	17.26	16.62	15.80	15.27	14.81	14.51	14.10

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.81	13.52	13.17	12.87	12.52	12.29	12.00	11.70	11.35
45.0	13.58	13.28	12.99	12.64	12.35	12.06	11.82	11.53	11.18
90.0	13.46	13.11	12.82	12.52	12.23	11.88	11.65	11.35	10.94
135.0	13.99	13.64	13.34	12.99	12.64	12.41	12.11	11.76	11.53
180.0	14.16	13.75	13.46	13.17	12.76	12.52	12.23	11.94	11.59
225.0	12.93	12.64	12.35	12.11	11.76	11.47	11.12	10.89	10.59
270.0	13.17	12.87	12.52	12.23	11.94	11.59	11.29	10.94	10.65
315.0	12.87	12.64	12.23	11.94	11.65	11.29	11.06	10.83	10.53
360.0	13.81	13.52	13.17	12.87	12.52	12.29	12.00	11.70	11.35

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.12	10.94	10.65	10.30	10.07	9.66	9.42	9.13	8.37
45.0	10.94	10.59	10.36	10.07	9.77	9.48	9.19	8.90	8.66
90.0	10.71	10.42	10.12	9.83	9.60	9.25	9.01	8.78	8.54
135.0	11.12	10.89	10.59	10.36	10.07	9.77	9.36	9.19	8.95
180.0	11.35	10.94	10.71	10.42	10.12	9.77	9.42	9.13	8.84
225.0	10.30	10.07	9.83	9.60	9.31	9.01	8.78	8.54	8.31
270.0	10.36	10.18	9.83	9.54	9.36	9.01	8.78	8.60	8.37
315.0	10.30	10.01	9.77	9.54	9.25	8.95	8.72	8.37	8.31
360.0	11.12	10.94	10.65	10.30	10.07	9.66	9.42	9.13	8.37

Intensity data(cd)

C/γ(°)	90.0
0.0	8.37
45.0	8.43
90.0	8.43
135.0	8.72
180.0	8.43
225.0	8.25
270.0	8.31
315.0	8.31
360.0	8.37