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: 3-2835-L
Luminaire: 92.70.429.00
Report No: 2024411-B023
Ballast type: AC

Test No: 2024411-C023	Voltage(V): 34.820
LampCAT: CREE CXA1830 LES14	Current(A): 0.530
Lamp flux(lm): 2685.0	Power (W): 18.454
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2289.50, Efficiency(%): 85.27% , Luminous Efficacy(lm/W): 124.07
Central intensity(cd): 3981.783, Maximum intensity(cd): 4000.291
Angle of maximum intensity: C=0.0 γ=4.0
Beam Angle(50%Imax): [C0/180]Total=44.6
[C90/270]Total=44.6
Field angle(10%Imax): [C0/180]Total=67.4
[C90/270]Total=67.4
Maximum s/h(1/2): C0_180=0.73 C90_270=0.73
Maximum s/h(1/4): C0_180=0.69 C90_270=0.69
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.27%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.653%

Equipment: GMS1980	Date: 2024/4/11	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	3981.783	0.000	0	0.00%	0.00%
1.0	3984.124	3.812	3.812	0.14%	0.17%
2.0	3990.635	11.446	15.258	0.43%	0.67%
3.0	3996.414	19.102	34.36	0.71%	1.50%
4.0	4000.291	26.768	61.128	1.00%	2.67%
5.0	3992.756	34.386	95.513	1.28%	4.17%
6.0	3973.224	41.863	137.377	1.56%	6.00%
7.0	3934.746	49.085	186.461	1.83%	8.14%
8.0	3883.612	55.954	242.416	2.08%	10.59%
9.0	3829.405	62.510	304.926	2.33%	13.32%
10.0	3755.886	68.644	373.57	2.56%	16.32%
11.0	3678.124	74.281	447.851	2.77%	19.56%
12.0	3583.538	79.380	527.231	2.96%	23.03%
13.0	3477.904	83.802	611.033	3.12%	26.69%
14.0	3358.738	87.508	698.541	3.26%	30.51%
15.0	3224.941	90.384	788.925	3.37%	34.46%
16.0	3070.954	92.252	881.177	3.44%	38.49%
17.0	2923.111	93.344	974.521	3.48%	42.56%
18.0	2753.176	93.590	1068.111	3.49%	46.65%
19.0	2579.657	92.780	1160.891	3.46%	50.71%
20.0	2403.066	91.198	1252.089	3.40%	54.69%
21.0	2229.839	88.961	1341.05	3.31%	58.57%
22.0	2059.465	86.195	1427.245	3.21%	62.34%
23.0	1885.946	82.785	1510.031	3.08%	65.95%
24.0	1717.401	78.782	1588.813	2.93%	69.40%
25.0	1547.818	74.244	1663.057	2.77%	72.64%
26.0	1390.056	69.349	1732.405	2.58%	75.67%
27.0	1233.632	64.189	1796.595	2.39%	78.47%
28.0	1141.862	60.142	1856.737	2.24%	81.10%
29.0	1013.595	56.393	1913.13	2.10%	83.56%
30.0	885.855	51.285	1964.415	1.91%	85.80%
31.0	741.956	45.300	2009.714	1.69%	87.78%
32.0	614.435	38.859	2048.573	1.45%	89.48%
33.0	486.600	32.437	2081.01	1.21%	90.89%
34.0	369.153	25.898	2106.908	0.96%	92.02%
35.0	281.581	20.209	2127.117	0.75%	92.91%
36.0	211.595	15.703	2142.82	0.58%	93.59%
37.0	125.194	10.984	2153.804	0.41%	94.07%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	81.654	6.904	2160.708	0.26%	94.37%
39.0	69.305	5.153	2165.861	0.19%	94.60%
40.0	63.117	4.618	2170.479	0.17%	94.80%
41.0	58.384	4.327	2174.806	0.16%	94.99%
42.0	55.099	4.123	2178.929	0.15%	95.17%
43.0	52.275	3.977	2182.906	0.15%	95.34%
44.0	49.773	3.852	2186.758	0.14%	95.51%
45.0	47.440	3.736	2190.494	0.14%	95.68%
46.0	45.296	3.627	2194.121	0.14%	95.83%
47.0	43.299	3.524	2197.644	0.13%	95.99%
48.0	41.529	3.429	2201.074	0.13%	96.14%
49.0	39.883	3.343	2204.417	0.12%	96.28%
50.0	38.449	3.266	2207.683	0.12%	96.43%
51.0	37.118	3.197	2210.88	0.12%	96.57%
52.0	35.662	3.123	2214.003	0.12%	96.70%
53.0	34.184	3.038	2217.041	0.11%	96.84%
54.0	32.678	2.947	2219.988	0.11%	96.96%
55.0	31.178	2.850	2222.839	0.11%	97.09%
56.0	29.722	2.752	2225.591	0.10%	97.21%
57.0	28.500	2.662	2228.253	0.10%	97.32%
58.0	27.323	2.581	2230.834	0.10%	97.44%
59.0	26.255	2.505	2233.339	0.09%	97.55%
60.0	25.260	2.434	2235.773	0.09%	97.65%
61.0	24.397	2.370	2238.142	0.09%	97.76%
62.0	23.658	2.316	2240.458	0.09%	97.86%
63.0	23.043	2.271	2242.729	0.08%	97.96%
64.0	22.378	2.229	2244.958	0.08%	98.05%
65.0	21.544	2.174	2247.132	0.08%	98.15%
66.0	20.549	2.100	2249.232	0.08%	98.24%
67.0	19.876	2.033	2251.264	0.08%	98.33%
68.0	19.547	1.997	2253.261	0.07%	98.42%
69.0	19.364	1.985	2255.246	0.07%	98.50%
70.0	19.239	1.983	2257.229	0.07%	98.59%
71.0	19.093	1.981	2259.21	0.07%	98.68%
72.0	18.947	1.978	2261.188	0.07%	98.76%
73.0	18.771	1.972	2263.161	0.07%	98.85%
74.0	18.552	1.962	2265.123	0.07%	98.94%
75.0	18.303	1.947	2267.07	0.07%	99.02%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	18.127	1.934	2269.004	0.07%	99.10%
77.0	17.696	1.910	2270.914	0.07%	99.19%
78.0	17.176	1.867	2272.78	0.07%	99.27%
79.0	16.518	1.810	2274.591	0.07%	99.35%
80.0	15.706	1.737	2276.328	0.06%	99.42%
81.0	14.960	1.658	2277.986	0.06%	99.50%
82.0	14.199	1.581	2279.568	0.06%	99.57%
83.0	13.343	1.497	2281.065	0.06%	99.63%
84.0	12.378	1.401	2282.466	0.05%	99.69%
85.0	11.456	1.301	2283.767	0.05%	99.75%
86.0	10.907	1.222	2284.989	0.05%	99.80%
87.0	10.497	1.171	2286.161	0.04%	99.85%
88.0	10.212	1.134	2287.295	0.04%	99.90%
89.0	9.993	1.107	2288.403	0.04%	99.95%
90.0	9.971	1.095	2289.497	0.04%	100.00%

Zonal flux distribution table

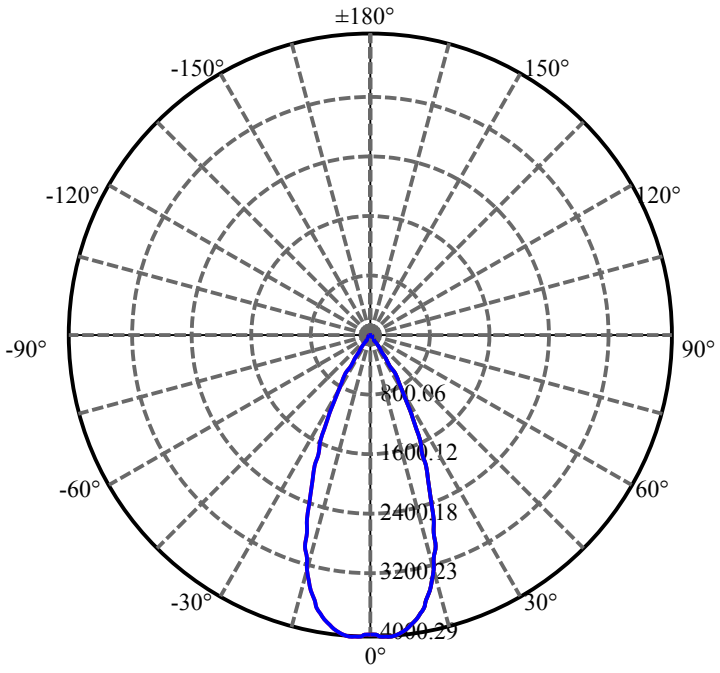
ZONAL LUMEN SUMMARY

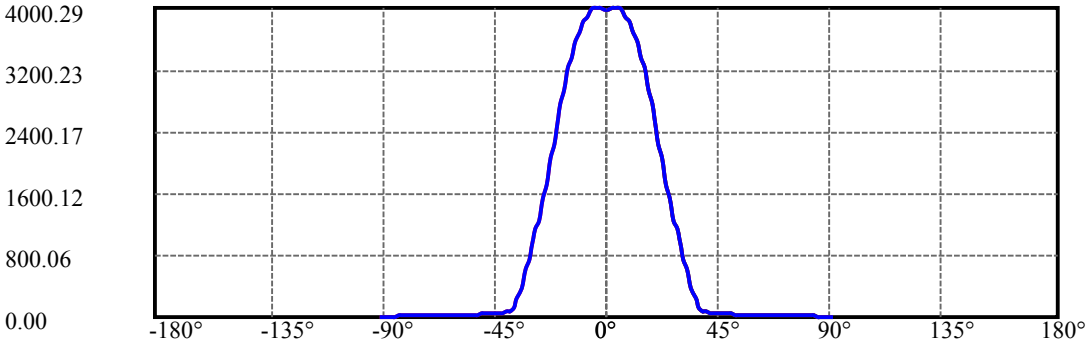
Zone	Lumens	%Lamp	%Fixt
0-30	1964.41	73.16%	85.80%
0-40	2170.48	80.84%	94.80%
0-60	2235.77	83.27%	97.65%
0-90	2288.40	85.23%	99.95%
0-120	2288.40	85.23%	99.95%
0-180	2289.50	85.27%	100.00%
60-90	52.63	1.96%	2.30%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.58	1831.60	68.22%	80.00%

ZONAL LUMEN SUMMARY

0-10	373.57
10-20	878.52
20-30	712.33
30-40	206.06
40-50	37.20
50-60	28.09
60-70	21.46
70-80	19.10
80-90	12.07
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:

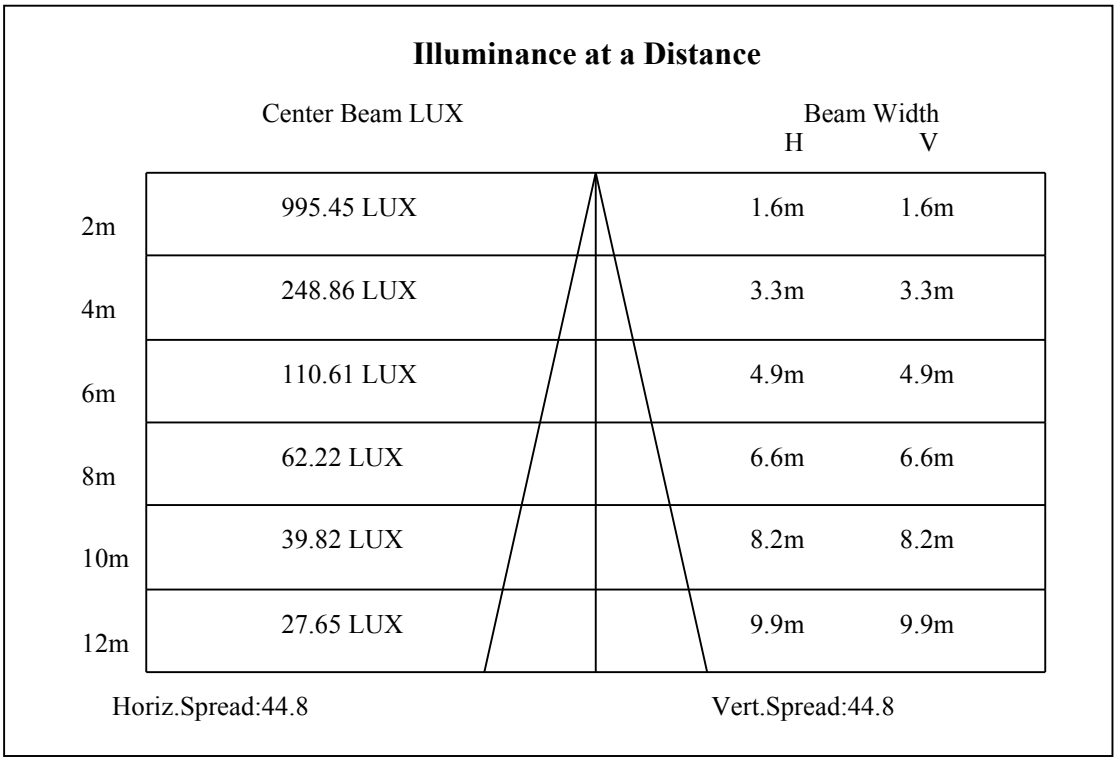
C90/C270:

Field angle(10%Imax):C0/180Left:37.7 Right:29.7
:C90/270Left:37.7 Right:29.7

Beam Angle(50%Imax):C0/180Left:26.3 Right:18.3
:C90/270Left:26.3 Right:18.3

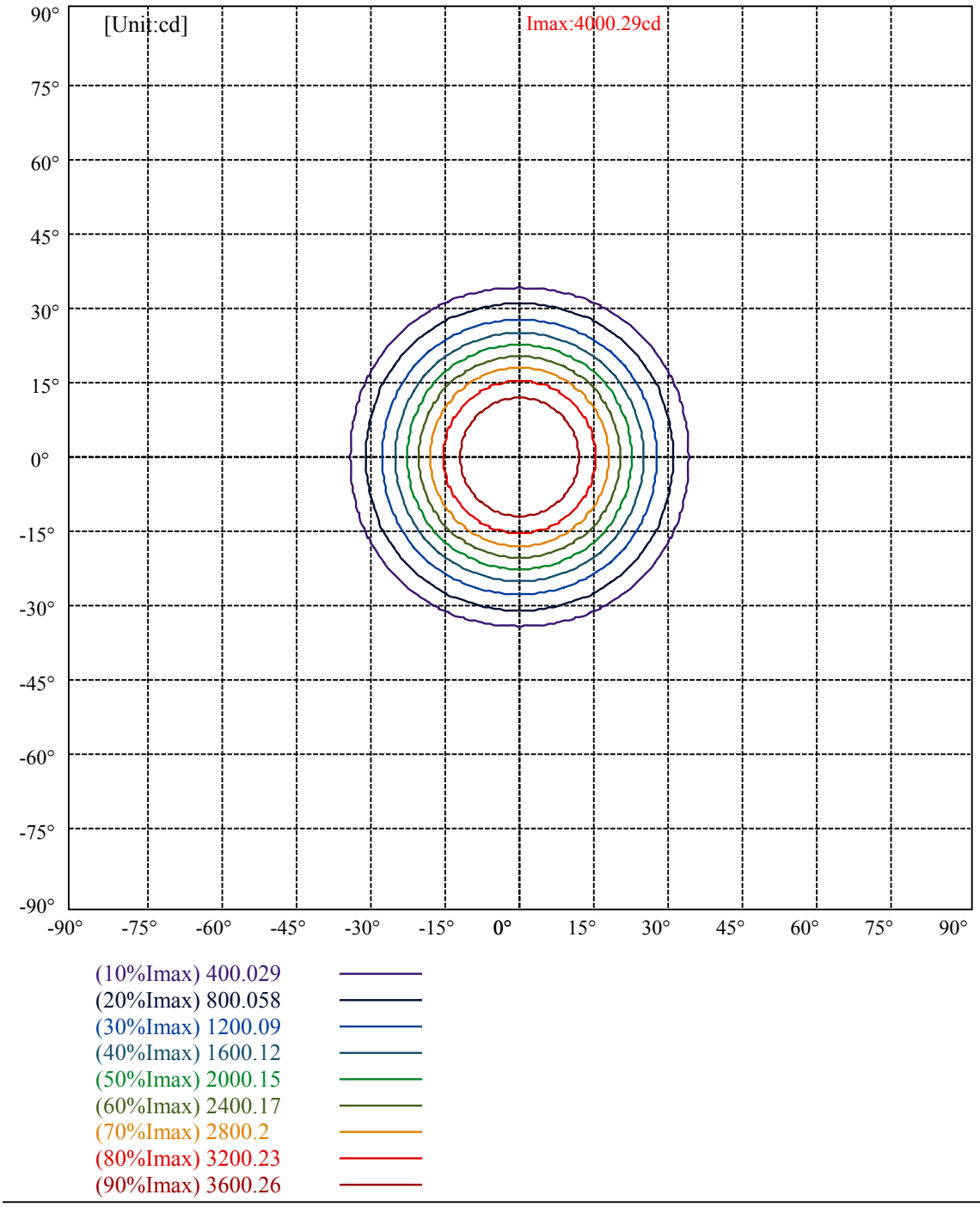
Equipment: GMS1980	Date: 2024/4/11	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Lux distance Curve



Equipment: GMS1980 Date: 2024/4/11 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

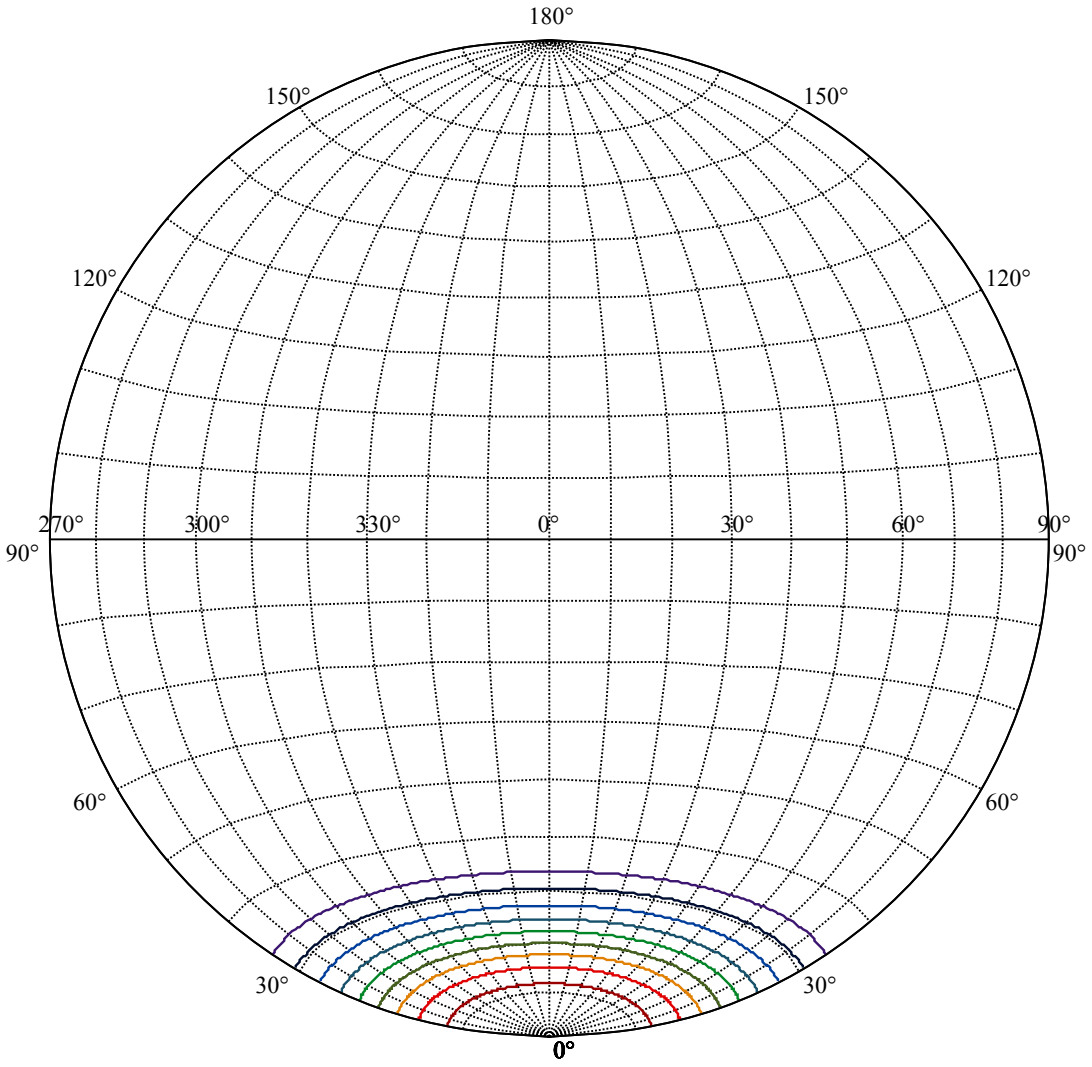


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/11
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



[Unit:cd]

Imax:4000.29

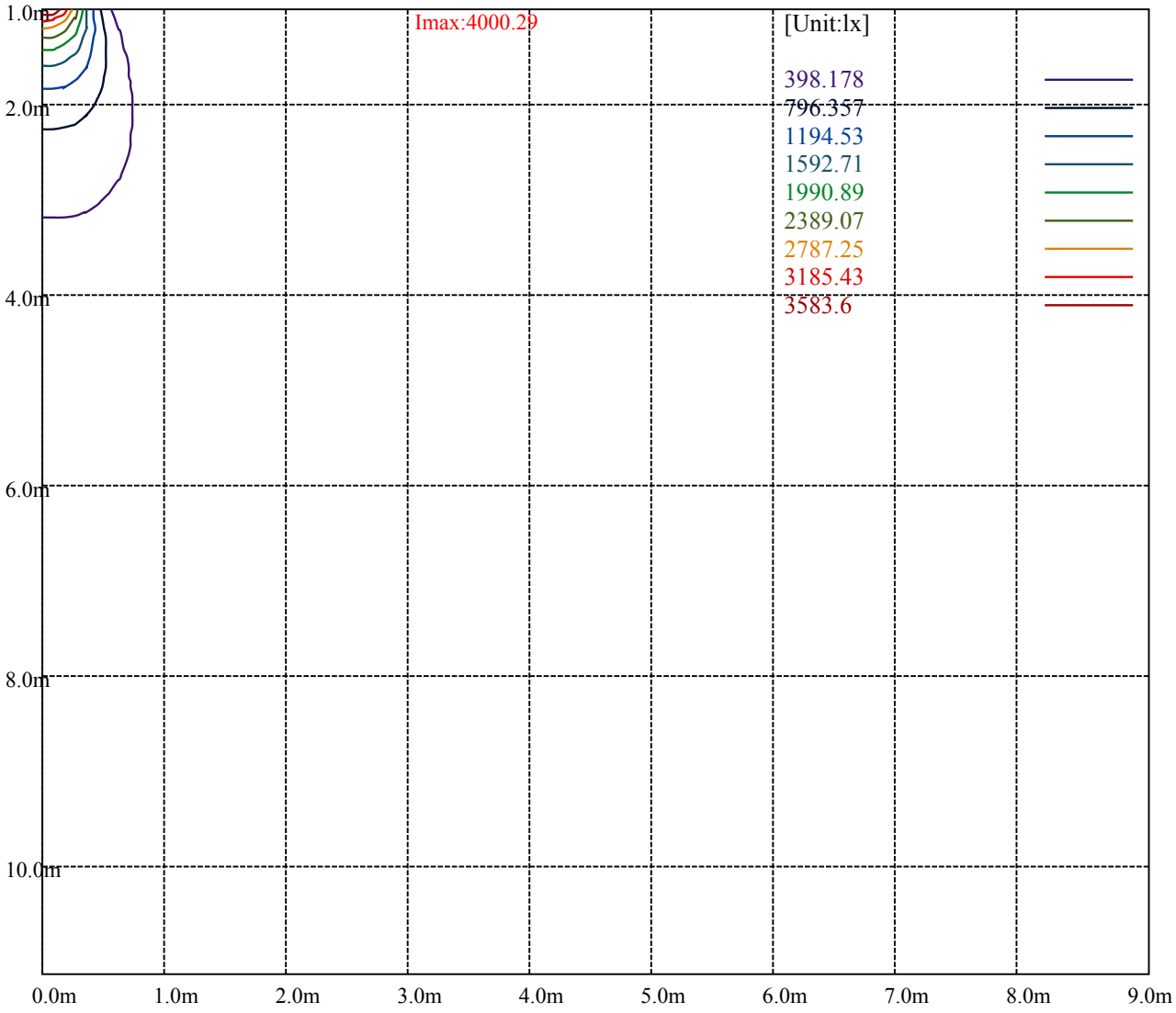
(10%Imax) 400.029
(20%Imax) 800.058
(30%Imax) 1200.09
(40%Imax) 1600.12
(50%Imax) 2000.15
(60%Imax) 2400.17
(70%Imax) 2800.2
(80%Imax) 3200.23
(90%Imax) 3600.26

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/11
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/11
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

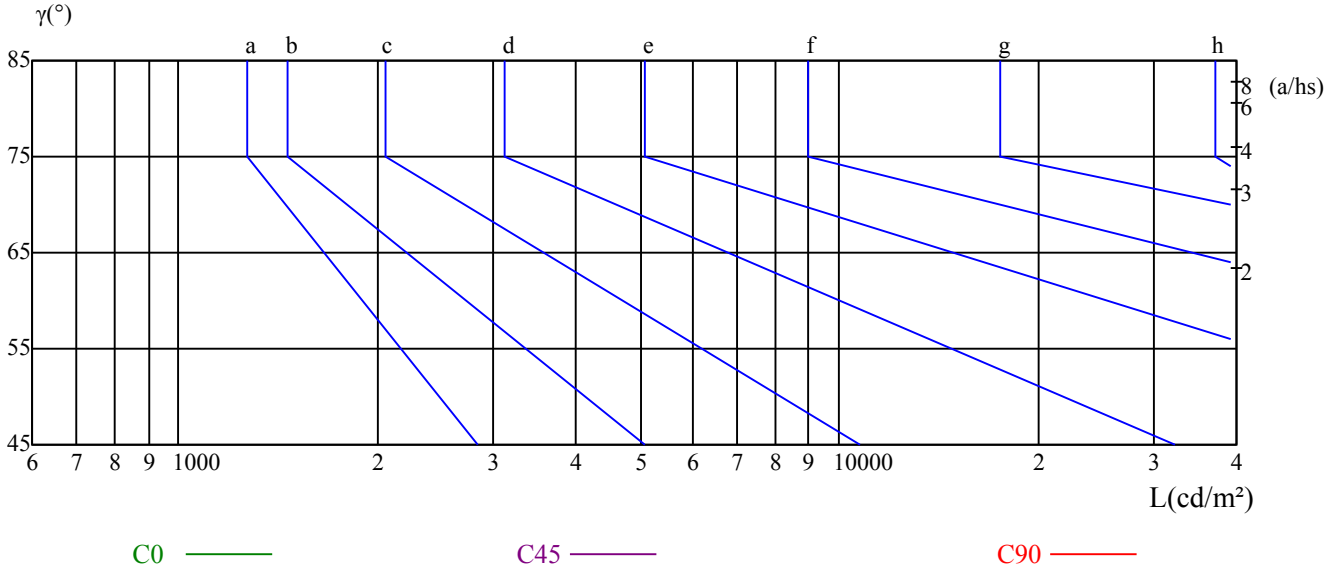
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

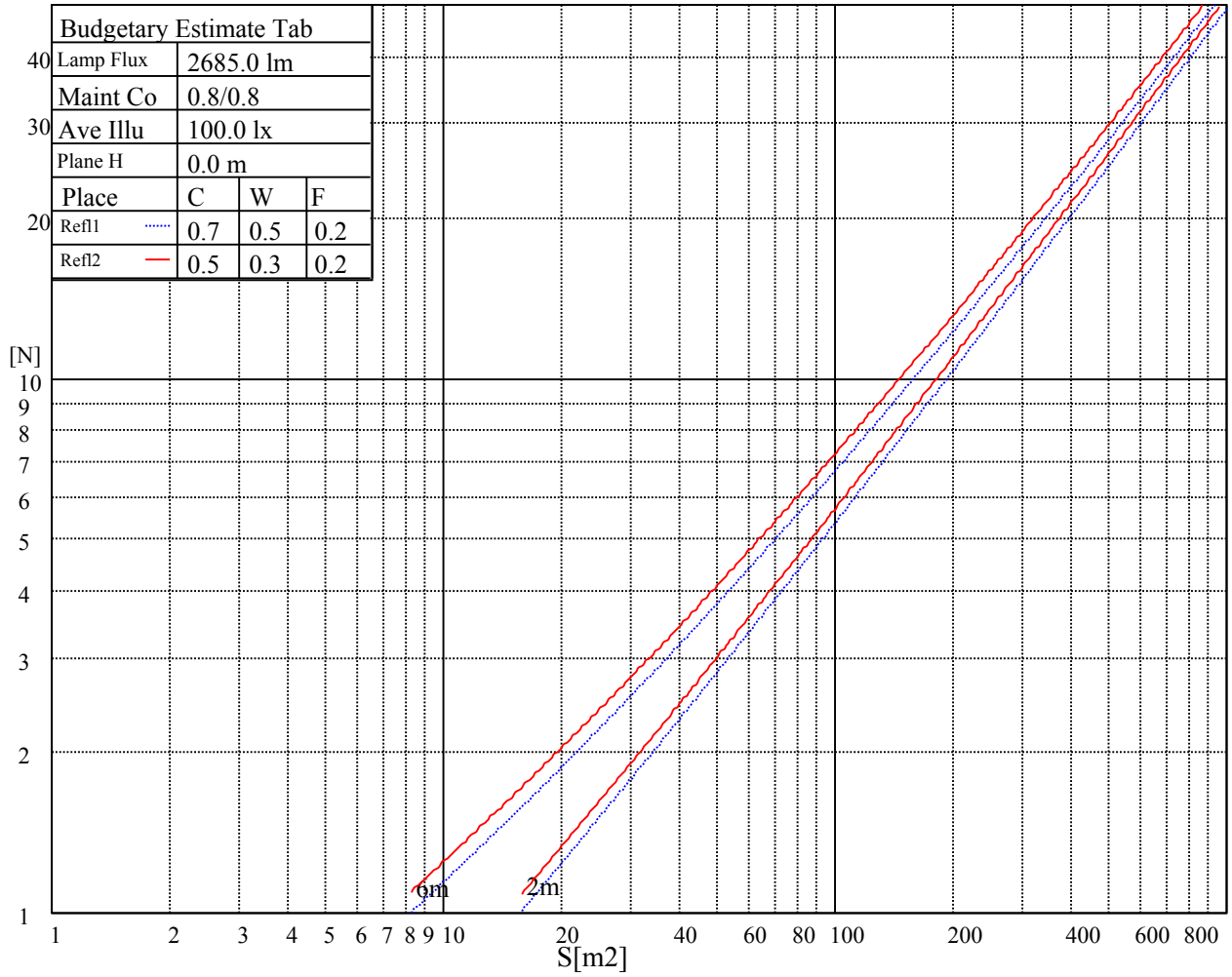
Luminance Limitting Curve



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

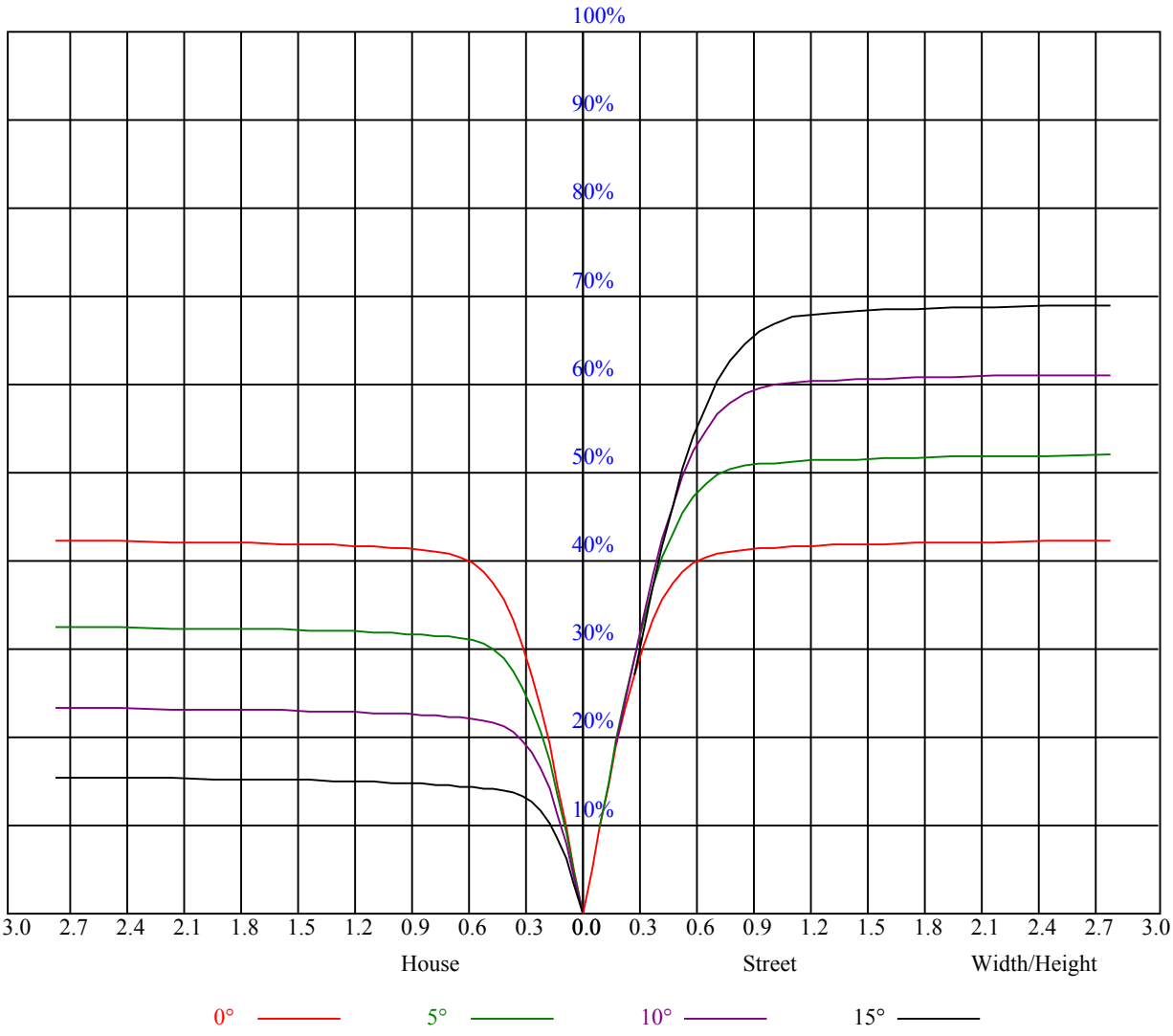


Equipment: GMS1980 Date: 2024/4/11 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

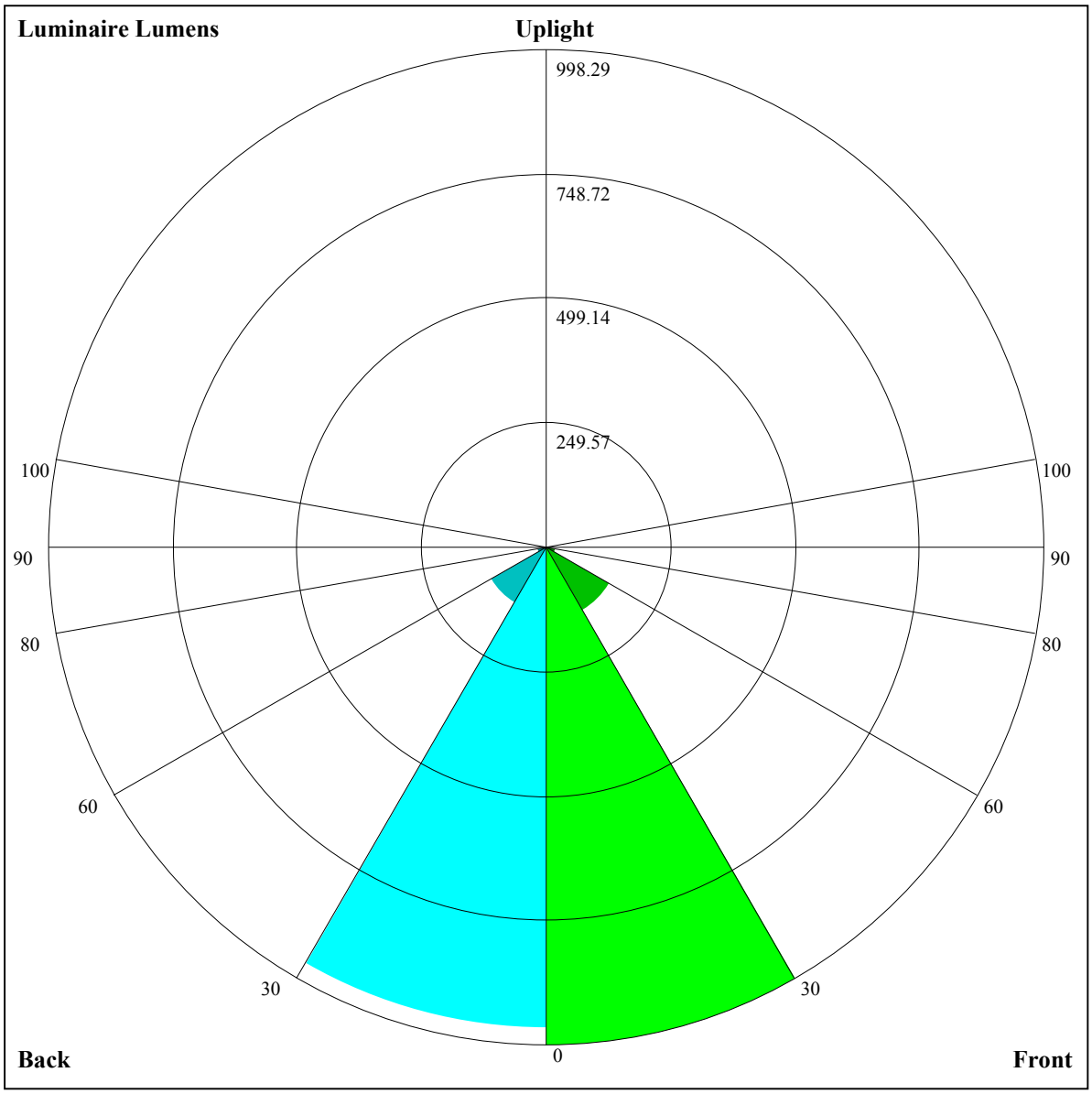
Utilization factor table for indoor luminaire

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	1.02	1.02	1.02	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	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.80
2	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.77	0.75
3	0.84	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.76	0.74	0.73	0.71
4	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.69	0.67
5	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
6	0.71	0.67	0.63	0.71	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.61
7	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.64	0.61	0.59	0.58
8	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.62	0.59	0.56	0.55
9	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.53
10	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.58	0.54	0.52	0.57	0.54	0.51	0.50

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/4/11	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=998.29,FM=145.02,FH=20.31,FVH=6.67
BL=963.46,BM=130.09,BH=20.2,BVH=6.5
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	3977.25	3979.00	3987.20	3991.88	3999.49	3995.39	3984.27	3949.16	3894.15
45.0	3988.37	3980.76	3978.42	3975.49	3987.20	3998.90	3993.63	3984.86	3949.16
90.0	3986.03	3984.27	3997.73	4005.92	4005.34	4001.83	3974.91	3932.19	3885.95
135.0	3975.49	3977.25	3983.10	3994.22	3999.49	4002.41	3989.54	3962.03	3907.61
180.0	3977.25	3989.54	3993.63	4004.75	4008.26	3999.49	3973.15	3932.19	3888.88
225.0	3988.37	3997.73	4003.00	4009.43	4003.58	3967.30	3929.26	3853.77	3792.90
270.0	3986.03	3987.20	3994.80	4000.07	4006.51	4003.00	3988.37	3951.50	3894.73
315.0	3975.49	3977.25	3987.20	3989.54	3992.46	3973.74	3952.67	3912.29	3855.52
360.0	3977.25	3979.00	3987.20	3991.88	3999.49	3995.39	3984.27	3949.16	3894.15

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3843.23	3775.93	3709.21	3602.70	3513.75	3411.92	3294.88	3129.26	2985.88
45.0	3916.97	3852.59	3794.07	3711.56	3634.31	3541.84	3442.94	3291.95	3157.35
90.0	3831.53	3744.33	3668.25	3583.98	3458.15	3336.43	3210.60	3038.55	2888.73
135.0	3850.84	3794.07	3708.63	3629.62	3507.31	3400.22	3275.56	3103.51	2956.62
180.0	3819.82	3751.35	3663.57	3549.45	3445.86	3300.14	3164.96	3022.16	2872.34
225.0	3725.60	3622.02	3527.79	3424.80	3308.92	3179.59	3003.43	2846.01	2688.00
270.0	3849.08	3788.81	3713.31	3607.97	3504.39	3394.95	3235.18	3101.17	2954.86
315.0	3798.17	3717.99	3640.16	3558.23	3450.55	3304.82	3171.98	3035.04	2881.12
360.0	3843.23	3775.93	3709.21	3602.70	3513.75	3411.92	3294.88	3129.26	2985.88

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2834.30	2640.59	2481.41	2323.99	2119.74	1957.64	1799.04	1611.18	1469.56
45.0	3016.89	2870.59	2665.76	2505.41	2342.13	2139.64	1976.95	1815.43	1626.98
90.0	2733.64	2539.94	2380.75	2220.40	2054.78	1859.32	1701.89	1563.78	1425.08
135.0	2805.04	2648.20	2458.59	2297.07	2140.23	1981.63	1786.75	1639.86	1494.14
180.0	2666.34	2499.55	2328.67	2160.71	1964.66	1807.23	1655.66	1518.13	1358.37
225.0	2517.70	2314.62	2147.25	1945.93	1793.19	1643.96	1467.22	1163.37	1163.37
270.0	2764.66	2604.31	2402.41	2229.18	2063.56	1896.19	1698.38	1556.76	1416.30
315.0	2686.83	2519.45	2359.69	2156.03	1997.43	1801.97	1653.32	1514.04	1166.65
360.0	2834.30	2640.59	2481.41	2323.99	2119.74	1957.64	1799.04	1611.18	1469.56

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1155.94	1155.94	1064.23	933.73	804.04	676.93	527.40	410.07	298.82
45.0	1480.09	1348.42	1195.09	1077.46	953.39	785.43	664.29	544.32	427.86
90.0	1143.24	1143.24	1016.95	891.30	734.11	614.72	465.20	351.08	248.95
135.0	1328.52	1209.72	1055.80	929.40	802.40	671.90	527.93	414.40	307.89
180.0	1229.03	1080.38	958.07	818.20	668.97	553.10	439.56	307.30	307.30
225.0	1072.19	945.20	815.39	689.63	539.05	422.59	318.77	228.00	136.12
270.0	1293.41	1147.68	1025.37	903.65	745.64	626.25	502.77	360.56	309.06
315.0	1166.65	1104.32	977.85	843.48	688.05	564.57	446.88	337.50	216.65
360.0	1155.94	1155.94	1064.23	933.73	804.04	676.93	527.40	410.07	298.82

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	182.65	116.93	81.87	68.94	63.32	58.23	54.95	52.32	50.21
45.0	317.25	317.25	120.79	85.09	71.05	64.90	60.28	55.83	53.08
90.0	146.77	94.69	75.38	65.78	61.10	57.35	54.31	51.21	48.92
135.0	307.89	115.00	80.76	70.23	63.79	58.58	55.19	52.49	49.80
180.0	197.45	89.19	73.33	64.84	60.34	56.65	53.02	50.74	48.52
225.0	91.94	75.85	67.65	61.33	57.41	53.61	51.38	49.04	46.41
270.0	309.06	100.37	80.23	71.75	66.13	60.57	57.29	54.54	52.03
315.0	139.75	92.29	73.21	66.48	61.80	57.18	54.37	52.03	49.22
360.0	182.65	116.93	81.87	68.94	63.32	58.23	54.95	52.32	50.21

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	48.05	45.53	43.66	41.96	40.44	38.80	37.57	36.34	34.82
45.0	50.27	48.11	46.00	44.13	41.90	40.32	38.98	37.75	36.17
90.0	46.82	44.83	42.55	40.91	39.39	37.75	36.52	35.05	33.65
135.0	47.64	45.18	43.25	41.55	39.68	38.27	37.04	35.87	34.18
180.0	46.00	44.07	42.25	40.26	38.98	37.69	36.46	34.82	33.53
225.0	44.48	42.66	41.08	39.33	38.10	36.87	35.58	33.83	32.36
270.0	49.10	46.88	44.83	42.96	40.91	39.50	37.75	36.34	34.82
315.0	47.17	45.12	42.78	41.14	39.68	38.39	37.04	35.29	33.94
360.0	48.05	45.53	43.66	41.96	40.44	38.80	37.57	36.34	34.82

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	33.42	31.60	30.08	28.91	27.56	26.57	25.63	24.76	23.88
45.0	34.82	33.53	31.84	30.37	29.09	27.74	26.69	25.69	24.70
90.0	32.36	30.90	29.26	28.15	27.10	26.10	24.99	24.17	23.53
135.0	32.77	31.37	29.96	28.79	27.51	26.45	25.28	24.35	23.70
180.0	32.07	30.55	28.97	27.86	26.92	25.69	24.81	23.99	23.29
225.0	30.90	29.38	28.21	27.15	25.93	24.93	24.17	23.41	22.94
270.0	32.95	31.43	30.08	28.85	27.56	26.63	25.69	24.76	23.76
315.0	32.13	30.67	29.38	27.92	26.92	25.93	24.81	24.05	23.47
360.0	33.42	31.60	30.08	28.91	27.56	26.57	25.63	24.76	23.88

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	23.35	22.77	22.18	20.95	20.01	19.66	19.43	19.20	19.08
45.0	23.70	23.12	22.65	22.00	20.72	19.78	19.49	19.37	19.25
90.0	23.00	22.47	21.65	20.31	19.72	19.49	19.25	19.14	18.96
135.0	23.12	22.65	21.95	20.60	19.78	19.49	19.31	19.14	19.08
180.0	22.77	21.95	20.95	19.96	19.61	19.43	19.37	19.31	19.20
225.0	22.36	21.36	20.19	19.84	19.66	19.55	19.43	19.31	19.14
270.0	23.12	22.53	21.59	20.54	19.78	19.49	19.31	19.20	19.02
315.0	22.94	22.18	21.19	20.19	19.72	19.49	19.31	19.25	19.02
360.0	23.35	22.77	22.18	20.95	20.01	19.66	19.43	19.20	19.08

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.84	18.61	18.38	18.02	17.67	17.26	16.80	16.21	15.74
45.0	19.20	19.02	18.90	18.67	18.38	17.97	17.50	16.91	16.39
90.0	18.79	18.55	18.38	18.14	17.79	17.21	16.74	15.98	15.33
135.0	18.96	18.90	18.67	18.38	17.97	17.32	16.85	16.21	15.68
180.0	19.08	18.90	18.79	18.43	17.91	17.50	16.97	16.50	15.98
225.0	18.96	18.79	18.38	18.49	19.84	19.84	19.20	17.97	15.39
270.0	18.90	18.79	18.49	18.20	17.79	17.32	16.74	16.21	15.57
315.0	18.84	18.61	18.43	18.08	17.67	17.15	16.62	16.15	15.57
360.0	18.84	18.61	18.38	18.02	17.67	17.26	16.80	16.21	15.74

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	15.22	14.63	14.05	13.17	12.11	11.53	10.65	10.42	10.12
45.0	15.86	15.04	14.34	13.75	12.76	11.76	11.00	10.53	10.24
90.0	14.75	13.99	13.40	12.47	11.35	10.83	10.48	10.24	9.95
135.0	15.22	14.57	13.87	12.87	11.70	10.77	10.53	10.24	9.95
180.0	15.04	14.28	13.23	12.06	10.94	10.59	10.30	10.01	9.89
225.0	13.87	12.82	11.88	11.06	10.65	10.42	10.12	9.95	9.95
270.0	14.81	14.16	13.05	12.00	11.18	10.71	10.48	10.18	9.95
315.0	14.92	14.10	12.93	11.65	10.94	10.65	10.42	10.12	9.89
360.0	15.22	14.63	14.05	13.17	12.11	11.53	10.65	10.42	10.12

Intensity data(cd)

C/γ(°)	90.0
0.0	10.01
45.0	10.01
90.0	10.01
135.0	9.95
180.0	9.95
225.0	9.95
270.0	9.95
315.0	9.95
360.0	10.01