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NT

Client:
LumCAT: 2-2682-L
Luminaire: 92.70.429.00
Report No: 2024410-B020
Ballast type: AC

Test No: 2024410-C020	Voltage(V): 34.800
LampCAT: CREE CXA1830 LES14	Current(A): 0.530
Lamp flux(lm): 2713.0	Power (W): 18.444
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2338.57, Efficiency(%): 86.20% , Luminous Efficacy(lm/W): 126.79
Central intensity(cd): 10014.580, Maximum intensity(cd): 10014.580
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=19.4
[C90/270]Total=19.4
Field angle(10%Imax): [C0/180]Total=53.6
[C90/270]Total=53.6
Maximum s/h(1/2): C0_180=0.33 C90_270=0.33
Maximum s/h(1/4): C0_180=0.38 C90_270=0.38
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 86.20%
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%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10014.575	0.000	0	0.00%	0.00%
1.0	9929.425	9.543	9.543	0.35%	0.41%
2.0	9712.233	28.192	37.734	1.04%	1.61%
3.0	9329.642	45.542	83.276	1.68%	3.56%
4.0	8818.521	60.748	144.024	2.24%	6.16%
5.0	8145.366	72.978	217.002	2.69%	9.28%
6.0	7456.337	81.991	298.993	3.02%	12.79%
7.0	6753.043	88.197	387.19	3.25%	16.56%
8.0	6026.925	91.464	478.654	3.37%	20.47%
9.0	5386.543	92.500	571.154	3.41%	24.42%
10.0	4819.313	92.359	663.513	3.40%	28.37%
11.0	4330.431	91.425	754.938	3.37%	32.28%
12.0	3880.393	89.756	844.694	3.31%	36.12%
13.0	3498.314	87.567	932.261	3.23%	39.86%
14.0	3139.279	84.961	1017.221	3.13%	43.50%
15.0	2828.524	81.929	1099.15	3.02%	47.00%
16.0	2542.642	78.703	1177.853	2.90%	50.37%
17.0	2296.555	75.359	1253.212	2.78%	53.59%
18.0	2092.311	72.363	1325.575	2.67%	56.68%
19.0	1904.893	69.543	1395.118	2.56%	59.66%
20.0	1745.712	66.816	1461.934	2.46%	62.51%
21.0	1615.206	64.536	1526.471	2.38%	65.27%
22.0	1494.284	62.487	1588.957	2.30%	67.95%
23.0	1346.274	59.603	1648.56	2.20%	70.49%
24.0	1248.065	56.722	1705.281	2.09%	72.92%
25.0	1177.817	55.159	1760.441	2.03%	75.28%
26.0	1082.235	53.349	1813.789	1.97%	77.56%
27.0	987.070	50.626	1864.415	1.87%	79.72%
28.0	895.438	47.661	1912.076	1.76%	81.76%
29.0	792.965	44.173	1956.25	1.63%	83.65%
30.0	695.972	40.201	1996.451	1.48%	85.37%
31.0	594.501	35.912	2032.363	1.32%	86.91%
32.0	500.470	31.370	2063.732	1.16%	88.25%
33.0	418.882	27.084	2090.817	1.00%	89.41%
34.0	350.886	23.295	2114.112	0.86%	90.40%
35.0	298.311	20.162	2134.274	0.74%	91.26%
36.0	265.312	17.946	2152.22	0.66%	92.03%
37.0	242.188	16.552	2168.772	0.61%	92.74%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	185.809	14.286	2183.058	0.53%	93.35%
39.0	156.767	11.693	2194.751	0.43%	93.85%
40.0	135.282	10.186	2204.936	0.38%	94.29%
41.0	114.960	8.911	2213.847	0.33%	94.67%
42.0	99.027	7.775	2221.622	0.29%	95.00%
43.0	84.367	6.793	2228.415	0.25%	95.29%
44.0	73.226	5.948	2234.363	0.22%	95.54%
45.0	63.234	5.244	2239.608	0.19%	95.77%
46.0	56.225	4.672	2244.279	0.17%	95.97%
47.0	50.563	4.247	2248.527	0.16%	96.15%
48.0	46.152	3.910	2252.436	0.14%	96.32%
49.0	43.160	3.668	2256.104	0.14%	96.47%
50.0	40.966	3.508	2259.612	0.13%	96.62%
51.0	39.671	3.412	2263.023	0.13%	96.77%
52.0	38.793	3.367	2266.39	0.12%	96.91%
53.0	38.032	3.342	2269.732	0.12%	97.06%
54.0	37.469	3.328	2273.06	0.12%	97.20%
55.0	37.169	3.332	2276.392	0.12%	97.34%
56.0	36.591	3.333	2279.725	0.12%	97.48%
57.0	35.640	3.303	2283.027	0.12%	97.63%
58.0	34.323	3.235	2286.263	0.12%	97.76%
59.0	32.531	3.125	2289.388	0.12%	97.90%
60.0	30.176	2.962	2292.351	0.11%	98.02%
61.0	27.915	2.772	2295.123	0.10%	98.14%
62.0	25.472	2.573	2297.695	0.09%	98.25%
63.0	23.124	2.363	2300.059	0.09%	98.35%
64.0	20.805	2.156	2302.214	0.08%	98.45%
65.0	19.247	1.982	2304.196	0.07%	98.53%
66.0	17.996	1.858	2306.055	0.07%	98.61%
67.0	17.030	1.761	2307.816	0.06%	98.69%
68.0	16.299	1.688	2309.504	0.06%	98.76%
69.0	15.713	1.633	2311.137	0.06%	98.83%
70.0	15.194	1.587	2312.725	0.06%	98.89%
71.0	14.733	1.547	2314.271	0.06%	98.96%
72.0	14.301	1.510	2315.781	0.06%	99.03%
73.0	13.950	1.477	2317.258	0.05%	99.09%
74.0	13.650	1.451	2318.709	0.05%	99.15%
75.0	13.336	1.426	2320.135	0.05%	99.21%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.102	1.403	2321.539	0.05%	99.27%
77.0	12.831	1.383	2322.921	0.05%	99.33%
78.0	12.524	1.357	2324.279	0.05%	99.39%
79.0	12.239	1.330	2325.609	0.05%	99.45%
80.0	11.946	1.304	2326.913	0.05%	99.50%
81.0	11.646	1.276	2328.189	0.05%	99.56%
82.0	11.346	1.247	2329.435	0.05%	99.61%
83.0	11.075	1.219	2330.654	0.04%	99.66%
84.0	10.812	1.192	2331.847	0.04%	99.71%
85.0	10.585	1.168	2333.015	0.04%	99.76%
86.0	10.380	1.146	2334.161	0.04%	99.81%
87.0	10.190	1.126	2335.286	0.04%	99.86%
88.0	10.029	1.108	2336.394	0.04%	99.91%
89.0	9.876	1.091	2337.485	0.04%	99.95%
90.0	9.839	1.081	2338.566	0.04%	100.00%

Zonal flux distribution table

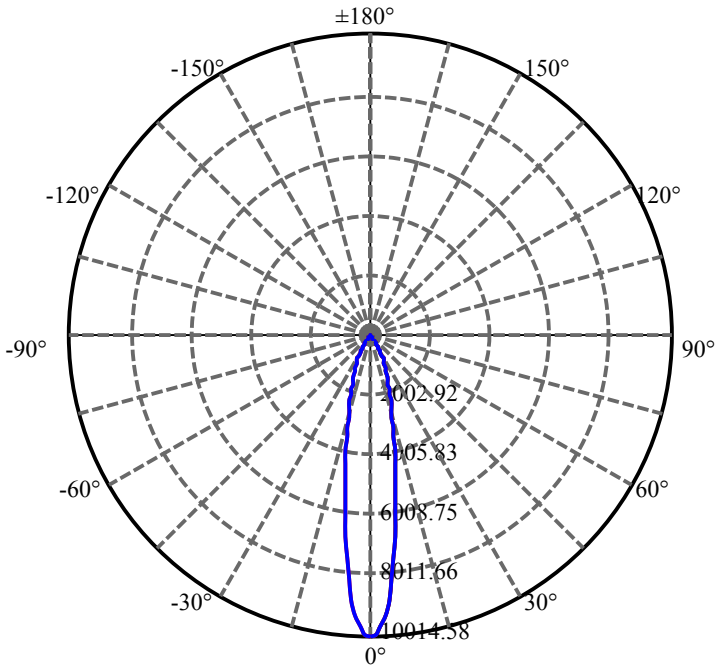
ZONAL LUMEN SUMMARY

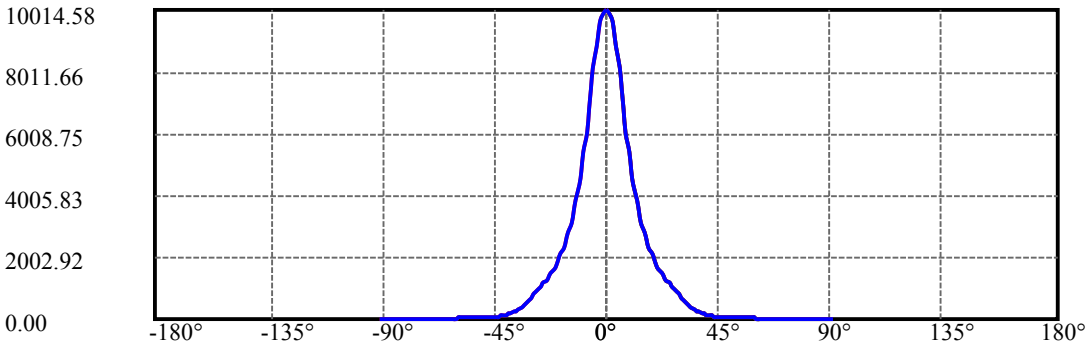
Zone	Lumens	%Lamp	%Fixt
0-30	1996.45	73.59%	85.37%
0-40	2204.94	81.27%	94.29%
0-60	2292.35	84.50%	98.02%
0-90	2337.48	86.16%	99.95%
0-120	2337.48	86.16%	99.95%
0-180	2338.57	86.20%	100.00%
60-90	45.13	1.66%	1.93%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.14	1870.85	68.96%	80.00%

ZONAL LUMEN SUMMARY

0-10	663.51
10-20	798.42
20-30	534.52
30-40	208.49
40-50	54.68
50-60	32.74
60-70	20.37
70-80	14.19
80-90	10.57
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):

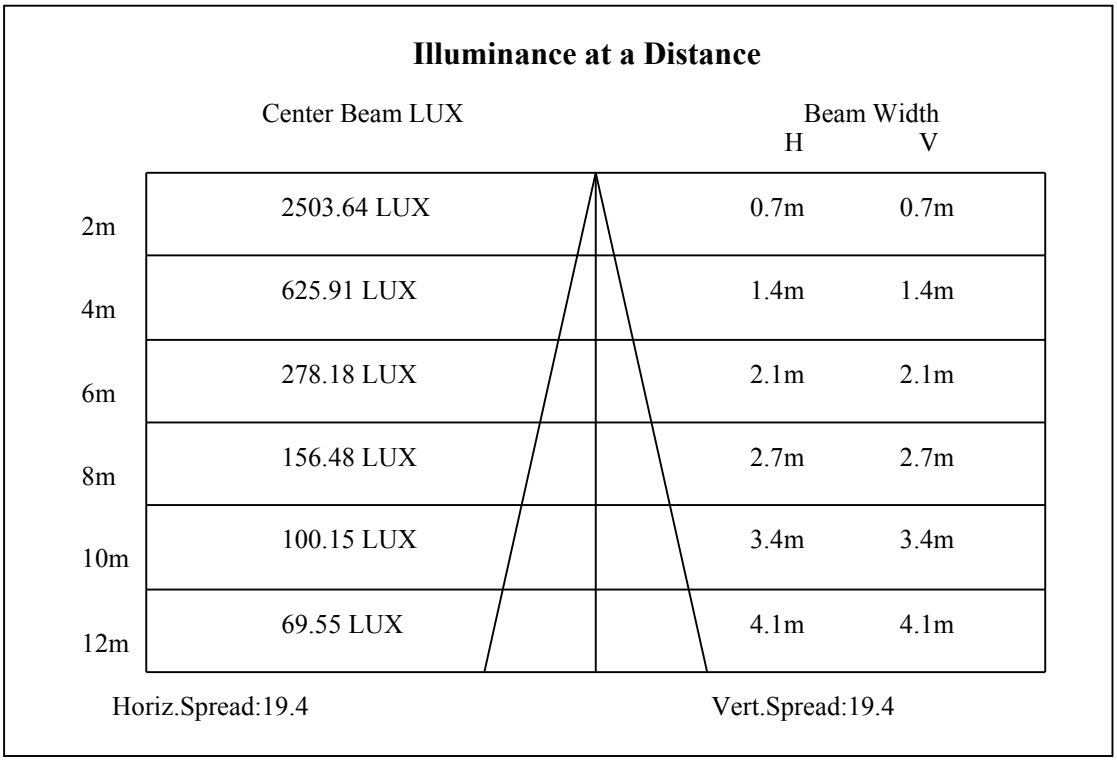
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:26.8 Right:26.8
:C90/270Left:26.8 Right:26.8

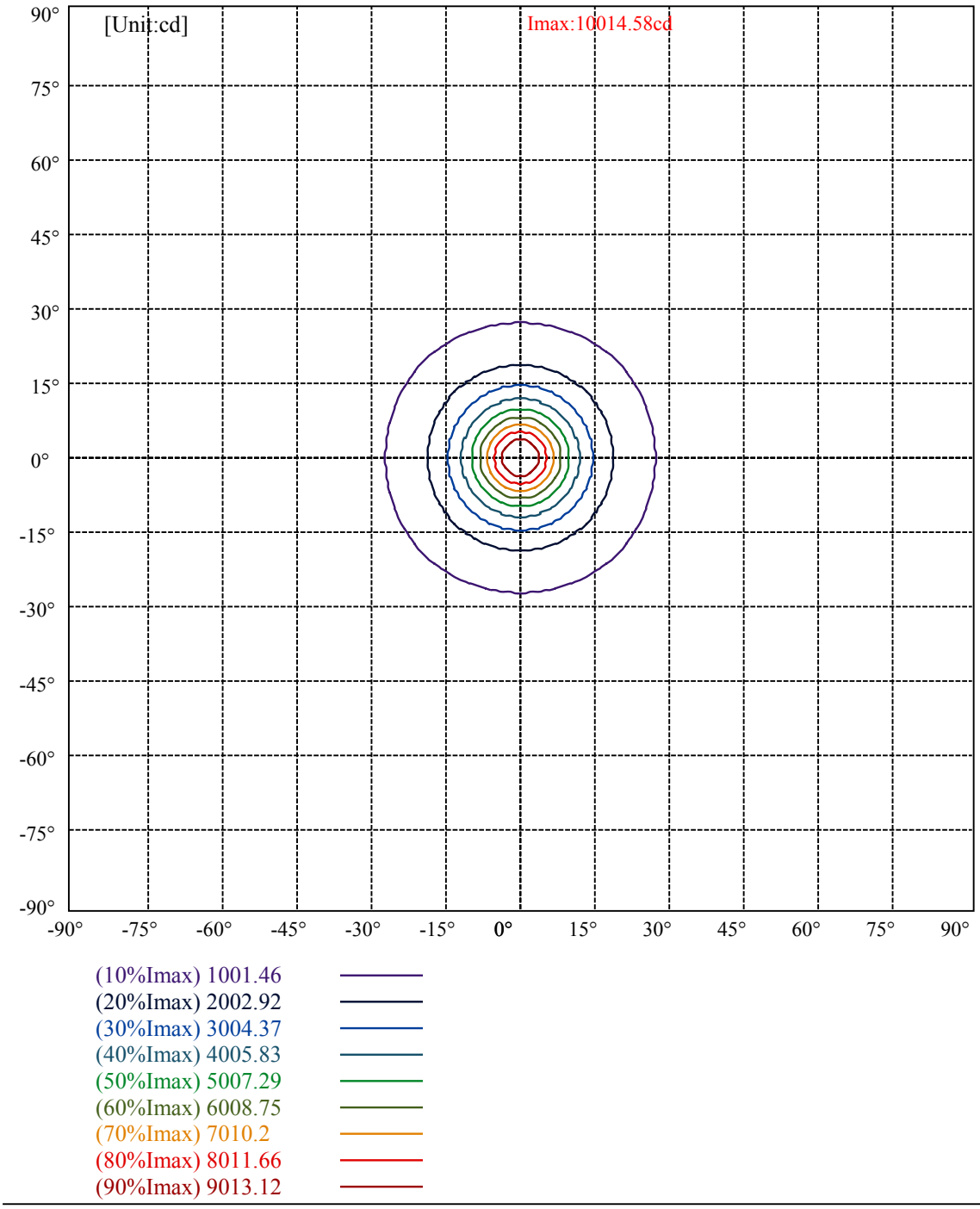
Beam Angle(50%Imax):C0/180Left:9.7 Right:9.7
:C90/270Left:9.7 Right:9.7

Lux distance Curve



Equipment: GMS1980 Date: 2024/4/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)



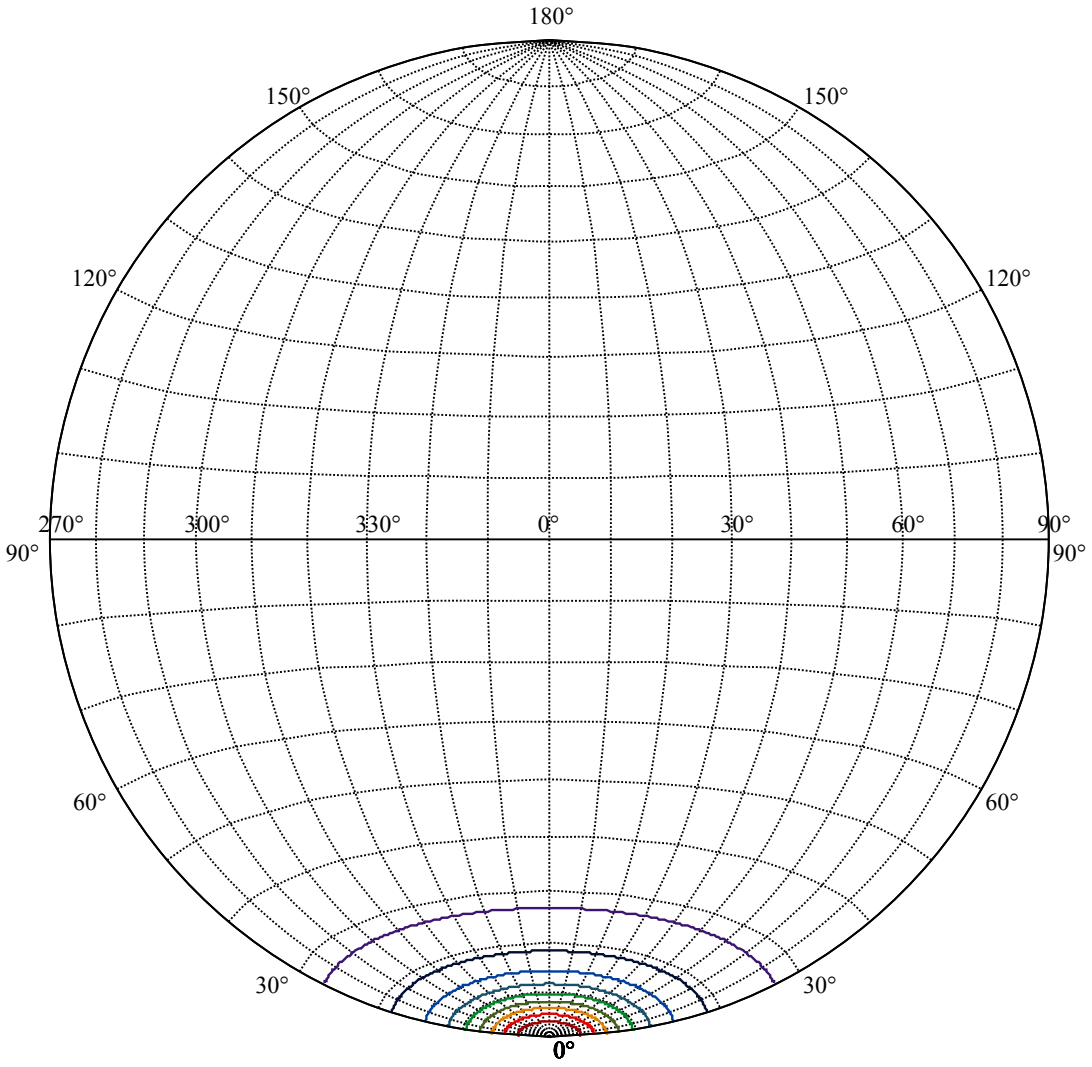
(10%Imax) 1001.46
(20%Imax) 2002.92
(30%Imax) 3004.37
(40%Imax) 4005.83
(50%Imax) 5007.29
(60%Imax) 6008.75
(70%Imax) 7010.2
(80%Imax) 8011.66
(90%Imax) 9013.12

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



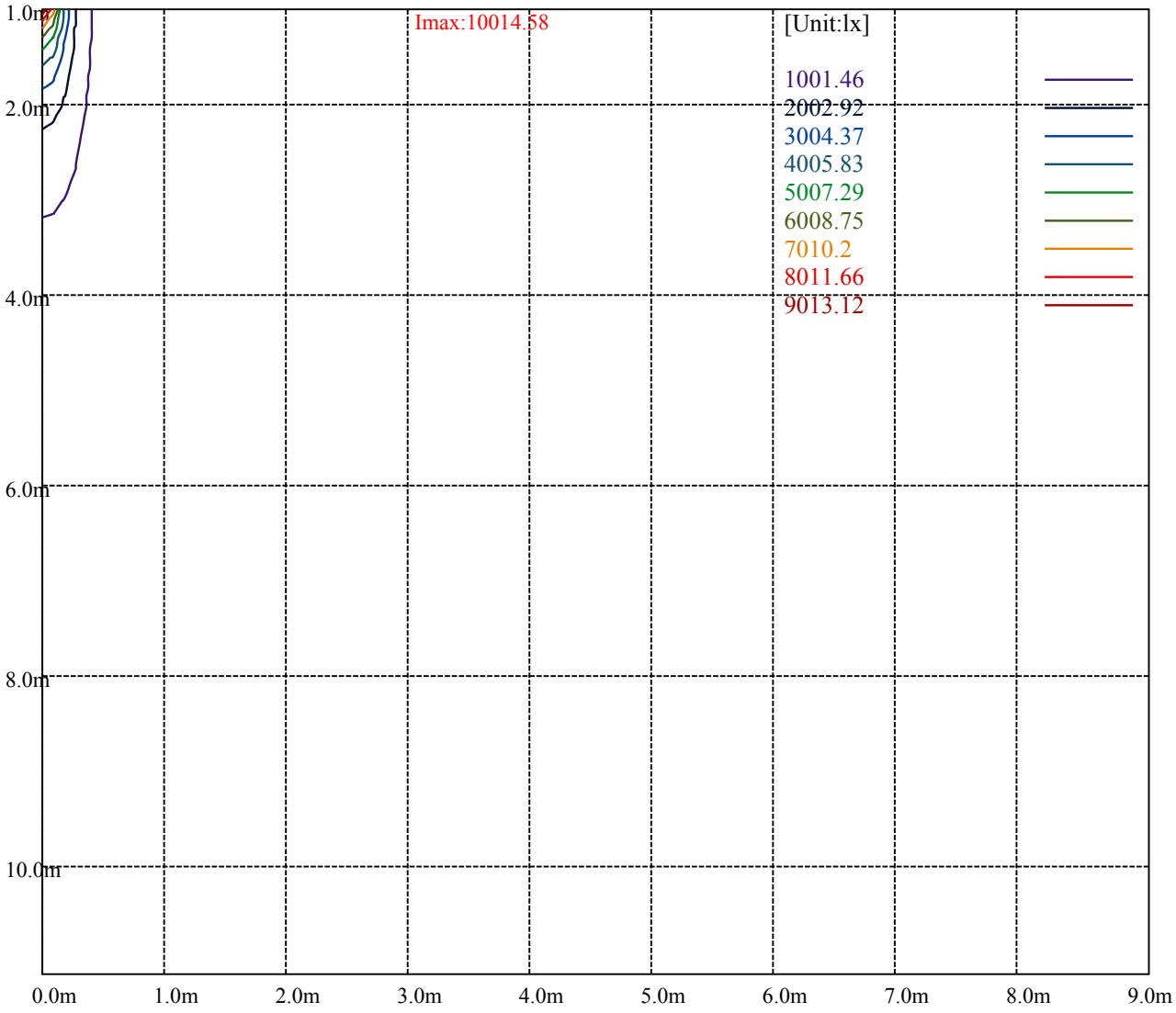
[Unit:cd]

Imax:10014.58

(10%Imax) 1001.46
(20%Imax) 2002.92
(30%Imax) 3004.37
(40%Imax) 4005.83
(50%Imax) 5007.29
(60%Imax) 6008.75
(70%Imax) 7010.2
(80%Imax) 8011.66
(90%Imax) 9013.12

Equipment: GMS1980	Date: 2024/4/10	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

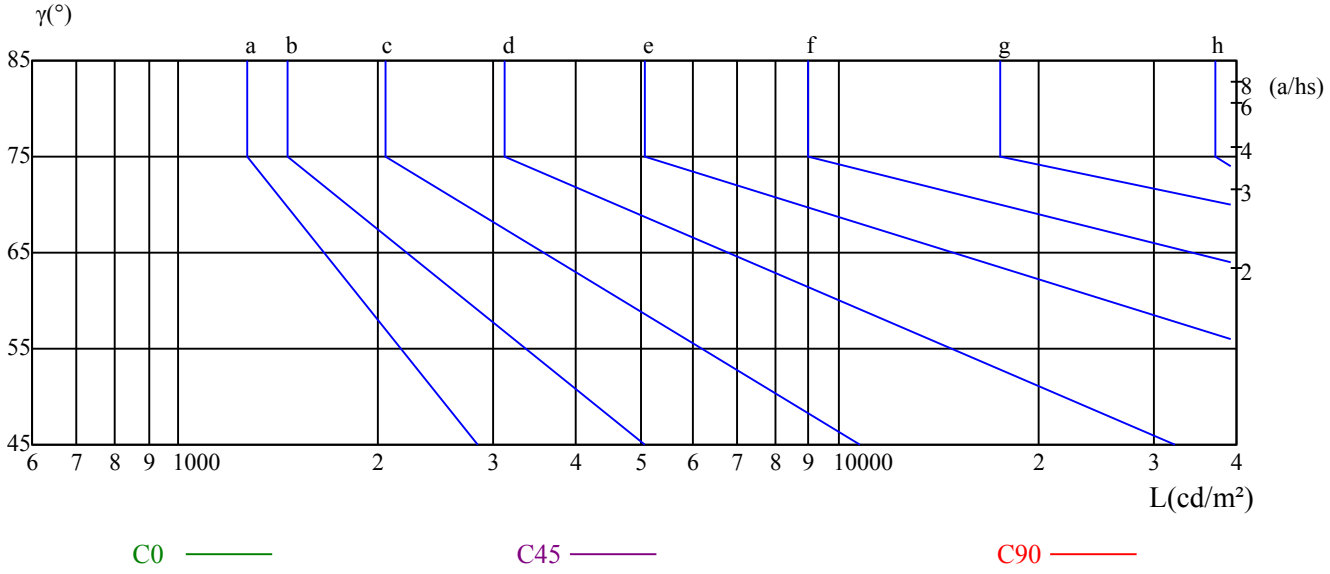
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

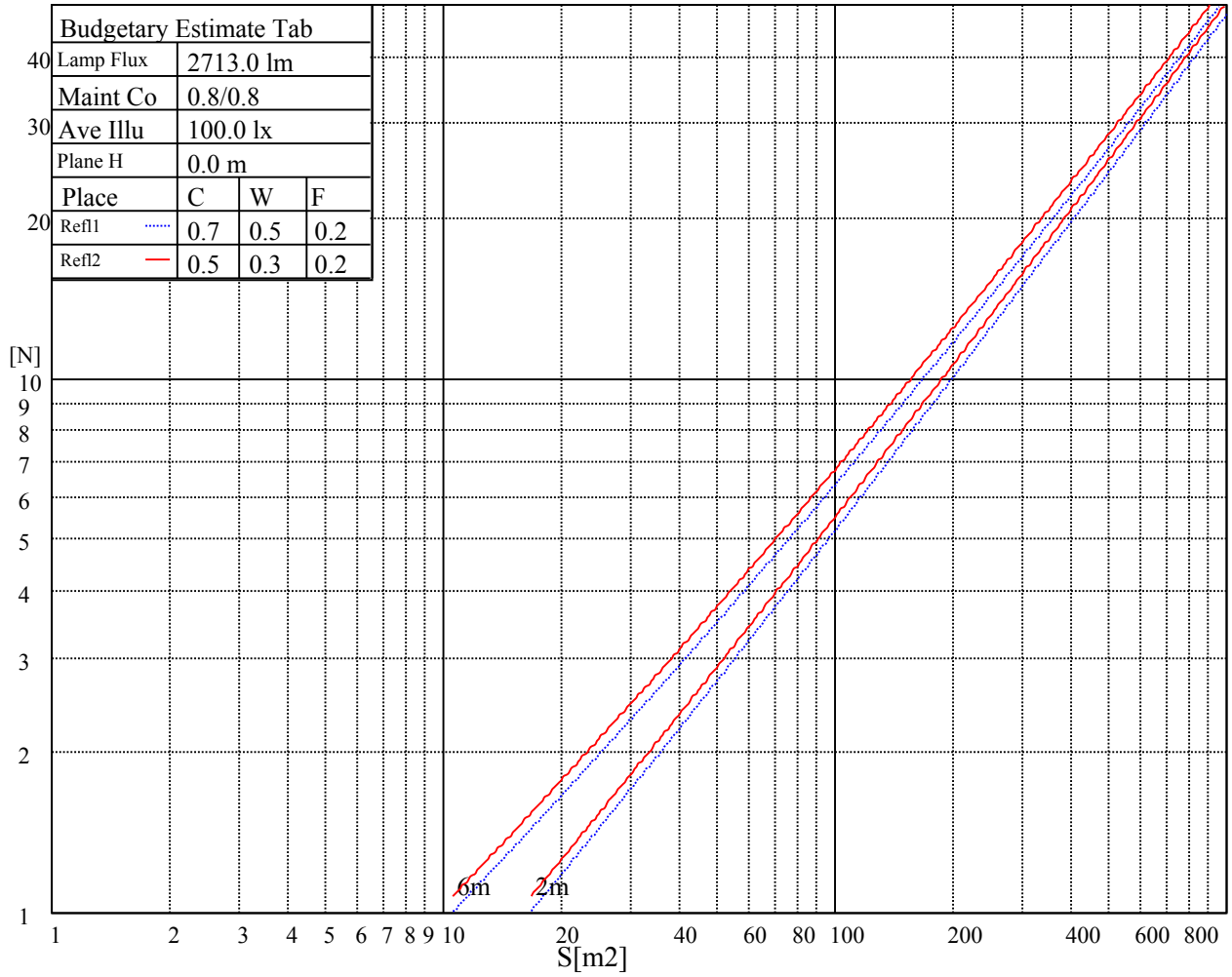
Luminance Limitting Curve



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

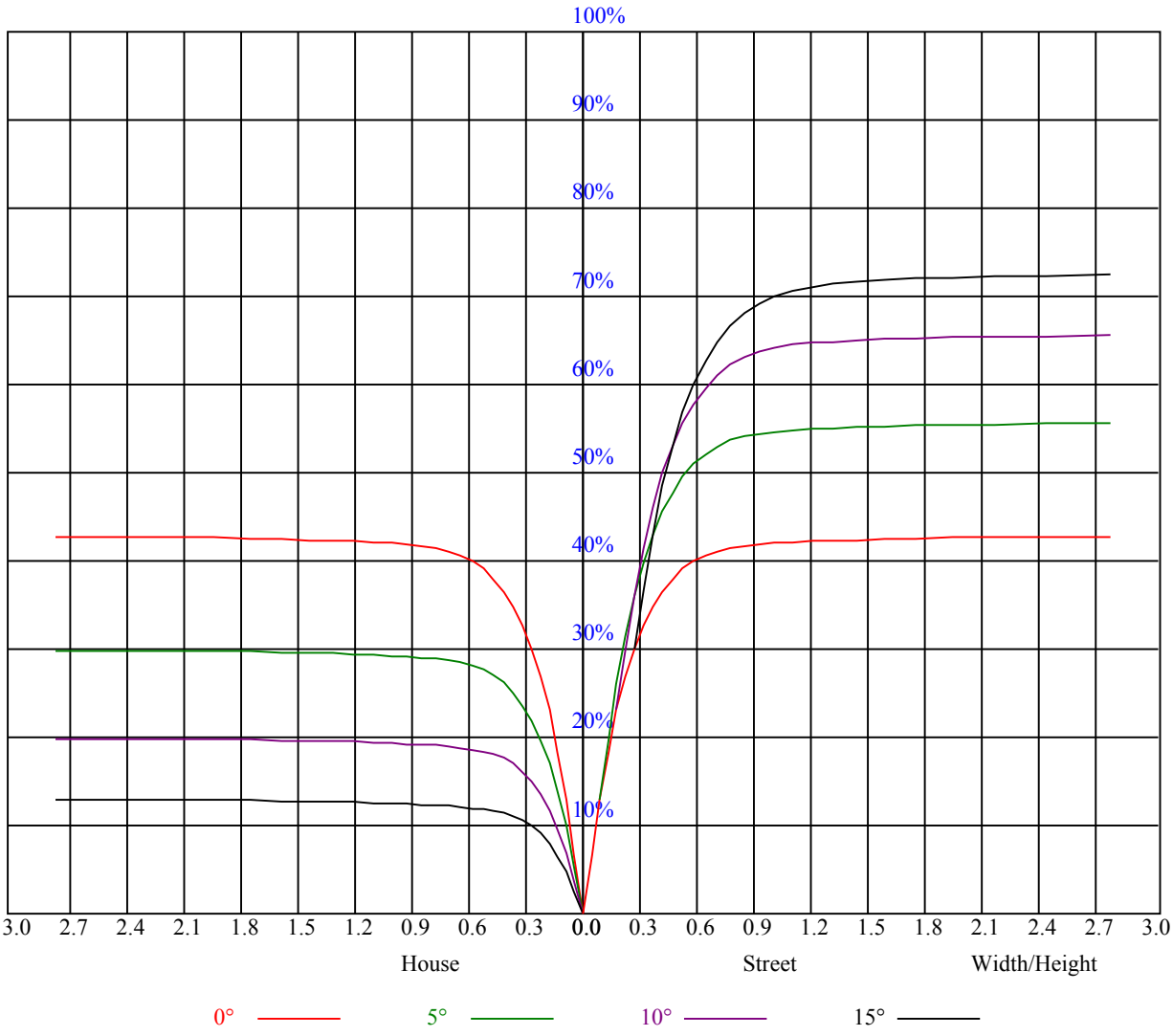


Equipment: GMS1980 Date: 2024/4/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

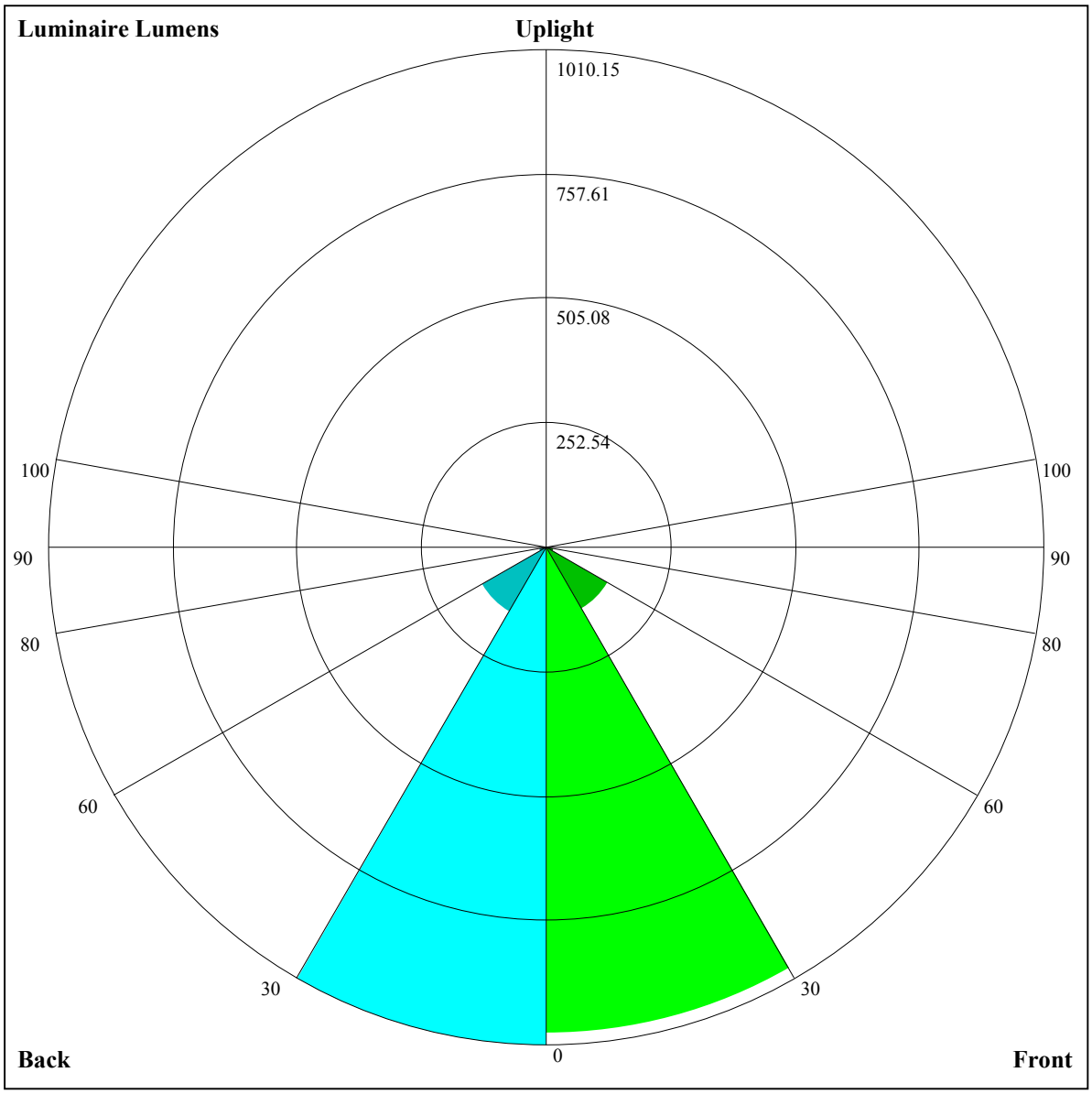
Utilization factor table for indoor luminaire

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	1.03	1.03	1.03	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.96	0.94	0.93	0.94	0.93	0.91	0.91	0.90	0.88	0.88	0.87	0.86	0.85	0.84	0.83	0.82
2	0.91	0.88	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.81	0.82	0.80	0.79	0.78
3	0.86	0.82	0.79	0.85	0.81	0.79	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.74
4	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.72	0.76	0.74	0.72	0.71
5	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.74	0.71	0.69	0.73	0.71	0.69	0.67
6	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
7	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
8	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.58
10	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.56

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/4/10	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=986.23,FM=146.2,FH=17.27,FVH=5.82
BL=1010.15,BM=152.18,BH=17.37,BVH=5.84
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	10027.89	9842.37	9567.32	9138.93	8439.59	7780.62	7097.67	6428.17	5648.65
45.0	10009.75	10036.67	9913.77	9684.95	9209.74	8688.31	8062.70	7385.60	6545.80
90.0	10031.40	9931.91	9640.47	9264.17	8779.02	8021.15	7346.97	6670.45	5881.57
135.0	9989.26	10033.16	9894.46	9671.49	9326.79	8701.18	8081.43	7406.67	6578.57
180.0	10027.89	10006.82	9895.63	9562.05	9138.93	8440.76	7781.80	7074.84	6396.57
225.0	10009.75	9831.25	9539.23	8948.15	8354.15	7671.19	6792.18	6123.27	5501.76
270.0	10031.40	10013.84	9862.27	9468.41	8994.97	8406.82	7728.54	6835.49	6173.60
315.0	9989.26	9739.37	9384.73	8898.99	8304.99	7452.90	6759.41	6099.86	5488.88
360.0	10027.89	9842.37	9567.32	9138.93	8439.59	7780.62	7097.67	6428.17	5648.65

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5088.00	4586.47	4133.50	3648.35	3313.02	3004.02	2659.32	2416.45	2158.37
45.0	5900.30	5318.58	4657.28	4203.73	3805.19	3373.88	3057.27	2765.25	2453.32
90.0	5297.52	4642.06	4195.54	3789.98	3442.35	3048.50	2769.93	2513.60	2283.02
135.0	5947.70	5371.84	4839.87	4278.05	3884.20	3521.94	3191.88	2827.28	2561.00
180.0	5642.80	5059.33	4554.28	4125.89	3644.84	3292.53	2976.51	2630.06	2395.97
225.0	4951.06	4341.84	3932.19	3558.81	3222.89	2842.50	2575.05	2340.37	2092.82
270.0	5444.41	4884.93	4398.02	3878.34	3519.02	3173.15	2870.59	2545.79	2321.06
315.0	4820.56	4349.45	3932.77	3559.98	3155.01	2857.71	2527.65	2302.33	2106.87
360.0	5088.00	4586.47	4133.50	3648.35	3313.02	3004.02	2659.32	2416.45	2158.37

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1982.80	1828.30	1666.19	1547.39	1438.54	1272.92	1148.50	1125.45	1036.96
45.0	2240.30	2053.61	1855.81	1720.03	1601.23	1485.94	1360.12	1262.39	1171.68
90.0	2049.52	1881.56	1732.91	1604.16	1457.27	1354.27	1145.40	1145.40	1057.74
135.0	2337.45	2098.68	1932.47	1782.65	1622.30	1505.26	1399.33	1277.02	1184.55
180.0	2189.39	1950.61	1796.11	1636.93	1547.98	1413.38	1312.13	1217.33	1110.23
225.0	1919.60	1735.84	1611.18	1499.99	1396.41	1162.26	1162.26	1096.54	1010.27
270.0	2131.45	1947.69	1753.98	1628.74	1516.96	1410.45	1291.06	1198.01	1093.84
315.0	1887.99	1742.86	1617.04	1501.75	1373.58	1165.71	1165.71	1100.40	992.60
360.0	1982.80	1828.30	1666.19	1547.39	1438.54	1272.92	1148.50	1125.45	1036.96

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	946.37	854.60	738.26	643.63	552.22	447.99	378.47	309.82	266.10
45.0	1079.21	965.09	873.21	780.75	664.29	571.24	484.04	393.33	335.39
90.0	949.76	862.15	772.91	682.20	567.26	480.94	404.68	341.77	279.56
135.0	1093.26	1000.79	889.60	796.55	702.33	608.11	497.50	420.25	357.05
180.0	1018.94	935.25	845.12	725.74	631.52	539.05	437.81	371.09	319.59
225.0	902.71	813.52	721.35	625.96	511.37	430.43	365.41	303.32	263.94
270.0	1002.55	916.52	805.91	709.94	613.37	510.96	430.78	363.48	310.23
315.0	903.76	815.57	697.35	603.02	513.65	415.04	352.36	304.02	254.63
360.0	946.37	854.60	738.26	643.63	552.22	447.99	378.47	309.82	266.10

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	228.94	190.84	163.92	141.10	121.67	101.48	88.37	76.84	66.83
45.0	297.94	297.94	201.14	173.11	148.59	123.66	107.45	93.81	82.28
90.0	239.24	205.71	176.33	145.08	125.18	104.58	91.18	80.23	68.24
135.0	306.13	306.13	214.54	176.85	151.98	131.68	109.79	95.39	82.75
180.0	297.94	297.94	201.49	168.60	146.31	125.88	108.33	89.71	77.25
225.0	229.70	192.36	166.61	138.99	120.03	103.29	89.01	73.86	64.43
270.0	300.86	254.34	195.23	170.71	147.89	124.54	107.74	89.36	77.48
315.0	221.74	192.25	167.20	139.69	120.61	104.58	90.36	75.73	66.54
360.0	228.94	190.84	163.92	141.10	121.67	101.48	88.37	76.84	66.83

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	57.70	52.20	47.81	44.42	42.55	40.38	39.44	38.86	37.81
45.0	69.70	61.51	55.13	48.63	45.12	42.49	40.61	39.62	39.33
90.0	60.22	54.02	48.75	44.18	41.96	40.26	39.03	38.39	37.57
135.0	69.35	60.92	54.25	48.92	44.01	41.49	39.74	38.16	37.75
180.0	64.55	58.93	51.62	47.40	44.13	41.55	40.03	39.09	38.74
225.0	57.29	51.56	46.76	43.25	41.08	39.27	38.51	37.98	36.69
270.0	67.36	58.00	51.79	47.23	43.77	41.26	39.74	38.98	37.98
315.0	59.69	52.67	48.40	45.18	42.66	41.02	40.26	39.27	38.39
360.0	57.70	52.20	47.81	44.42	42.55	40.38	39.44	38.86	37.81

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	37.34	37.28	36.52	35.29	33.83	31.54	29.14	27.10	24.35
45.0	38.33	37.92	37.92	37.28	36.11	35.05	33.30	30.08	27.86
90.0	37.16	37.10	36.69	35.64	34.29	32.42	29.50	27.39	25.40
135.0	37.22	36.64	36.46	36.17	34.82	33.77	32.01	29.79	27.04
180.0	37.86	37.57	37.16	36.23	34.88	33.24	31.13	28.68	26.69
225.0	36.46	36.28	35.00	33.83	32.77	30.67	27.74	25.93	23.70
270.0	37.28	37.16	36.75	35.58	34.47	33.07	30.37	28.09	25.63
315.0	38.10	37.40	36.23	35.11	33.42	30.49	28.21	26.28	23.12
360.0	37.34	37.28	36.52	35.29	33.83	31.54	29.14	27.10	24.35

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.89	20.01	18.43	17.44	16.50	15.98	15.45	14.98	14.46
45.0	25.81	22.65	20.66	19.31	17.85	17.03	16.44	15.74	15.27
90.0	23.00	20.42	19.08	17.91	17.03	16.27	15.68	15.22	14.75
135.0	25.05	22.59	20.54	18.90	17.79	16.80	16.21	15.68	15.10
180.0	23.88	21.42	19.78	18.20	17.26	16.50	15.80	15.27	14.86
225.0	21.30	19.25	18.08	17.09	16.21	15.68	15.10	14.69	14.28
270.0	23.12	20.95	19.43	17.97	17.09	16.39	15.80	15.16	14.75
315.0	20.95	19.14	17.97	17.15	16.50	15.74	15.22	14.81	14.40
360.0	21.89	20.01	18.43	17.44	16.50	15.98	15.45	14.98	14.46

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.10	13.81	13.52	13.23	13.05	12.76	12.41	12.17	11.88
45.0	14.81	14.40	13.99	13.69	13.46	13.23	12.82	12.52	12.23
90.0	14.22	13.93	13.58	13.28	13.05	12.76	12.47	12.17	11.88
135.0	14.63	14.22	13.93	13.52	13.28	13.05	12.87	12.52	12.23
180.0	14.34	14.05	13.75	13.46	13.17	12.87	12.64	12.41	12.06
225.0	13.99	13.64	13.34	13.05	12.87	12.52	12.23	12.00	11.70
270.0	14.34	13.93	13.69	13.40	13.05	12.87	12.47	12.23	11.94
315.0	13.99	13.64	13.40	13.05	12.87	12.58	12.29	11.88	11.65
360.0	14.10	13.81	13.52	13.23	13.05	12.76	12.41	12.17	11.88

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.53	11.24	10.94	10.77	10.53	10.36	10.12	10.01	9.83
45.0	11.94	11.59	11.29	11.00	10.77	10.53	10.30	10.12	9.95
90.0	11.53	11.29	11.00	10.71	10.53	10.36	10.24	10.01	9.83
135.0	12.00	11.65	11.35	11.06	10.77	10.59	10.36	10.18	10.01
180.0	11.76	11.47	11.18	10.89	10.65	10.42	10.24	10.12	9.89
225.0	11.41	11.12	10.89	10.65	10.42	10.24	10.07	9.89	9.77
270.0	11.65	11.29	11.06	10.77	10.59	10.36	10.12	10.01	9.83
315.0	11.35	11.12	10.89	10.65	10.42	10.18	10.07	9.89	9.89
360.0	11.53	11.24	10.94	10.77	10.53	10.36	10.12	10.01	9.83

Intensity data(cd)

C/γ(°)	90.0
0.0	9.83
45.0	9.83
90.0	9.83
135.0	9.83
180.0	9.83
225.0	9.83
270.0	9.83
315.0	9.89
360.0	9.83