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NT

Client:
LumCAT: 3-2834-L
Luminaire: 92.70.429.00
Report No: 2024411-B022
Ballast type: AC

Test No: 2024411-C022	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): 2288.40, Efficiency(%): 85.23% , Luminous Efficacy(lm/W): 124.01
Central intensity(cd): 5327.362, Maximum intensity(cd): 5327.362
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=35.0
[C90/270]Total=35.0
Field angle(10%Imax): [C0/180]Total=64.8
[C90/270]Total=64.8
Maximum s/h(1/2): C0_180=0.57 C90_270=0.57
Maximum s/h(1/4): C0_180=0.58 C90_270=0.58
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.23%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.889%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5327.362	0.000	0	0.00%	0.00%
1.0	5317.193	5.093	5.093	0.19%	0.22%
2.0	5287.859	15.221	20.315	0.57%	0.89%
3.0	5239.212	25.177	45.492	0.94%	1.99%
4.0	5186.688	34.899	80.391	1.30%	3.51%
5.0	5112.730	44.308	124.698	1.65%	5.45%
6.0	5030.799	53.307	178.005	1.99%	7.78%
7.0	4925.239	61.797	239.802	2.30%	10.48%
8.0	4793.783	69.557	309.359	2.59%	13.52%
9.0	4637.016	76.431	385.791	2.85%	16.86%
10.0	4446.598	82.203	467.994	3.06%	20.45%
11.0	4226.188	86.659	554.653	3.23%	24.24%
12.0	3991.147	89.827	644.48	3.35%	28.16%
13.0	3748.278	91.847	736.328	3.42%	32.18%
14.0	3501.899	92.802	829.13	3.46%	36.23%
15.0	3256.982	92.789	921.918	3.46%	40.29%
16.0	2998.532	91.661	1013.579	3.41%	44.29%
17.0	2774.098	89.895	1103.475	3.35%	48.22%
18.0	2545.275	87.705	1191.18	3.27%	52.05%
19.0	2320.988	84.663	1275.843	3.15%	55.75%
20.0	2110.453	81.108	1356.95	3.02%	59.30%
21.0	1920.767	77.408	1434.358	2.88%	62.68%
22.0	1740.079	73.566	1507.924	2.74%	65.89%
23.0	1581.190	69.689	1577.613	2.60%	68.94%
24.0	1397.729	65.130	1642.743	2.43%	71.79%
25.0	1263.545	60.512	1703.255	2.25%	74.43%
26.0	1181.781	57.722	1760.977	2.15%	76.95%
27.0	1078.145	55.290	1816.267	2.06%	79.37%
28.0	985.299	52.242	1868.509	1.95%	81.65%
29.0	894.312	49.176	1917.685	1.83%	83.80%
30.0	804.304	45.862	1963.547	1.71%	85.80%
31.0	698.620	41.824	2005.371	1.56%	87.63%
32.0	581.384	36.671	2042.042	1.37%	89.23%
33.0	473.008	31.063	2073.104	1.16%	90.59%
34.0	374.317	25.643	2098.747	0.96%	91.71%
35.0	279.364	20.301	2119.048	0.76%	92.60%
36.0	223.761	16.020	2135.068	0.60%	93.30%
37.0	159.284	12.493	2147.56	0.47%	93.85%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	97.930	8.585	2156.146	0.32%	94.22%
39.0	84.975	6.243	2162.389	0.23%	94.49%
40.0	77.352	5.661	2168.05	0.21%	94.74%
41.0	71.471	5.300	2173.35	0.20%	94.97%
42.0	65.962	4.993	2178.343	0.19%	95.19%
43.0	61.185	4.710	2183.053	0.18%	95.40%
44.0	57.198	4.468	2187.521	0.17%	95.59%
45.0	53.614	4.259	2191.78	0.16%	95.78%
46.0	50.315	4.064	2195.844	0.15%	95.96%
47.0	47.506	3.891	2199.734	0.14%	96.13%
48.0	45.070	3.742	2203.477	0.14%	96.29%
49.0	42.751	3.606	2207.083	0.13%	96.45%
50.0	40.885	3.487	2210.57	0.13%	96.60%
51.0	39.027	3.381	2213.951	0.13%	96.75%
52.0	37.359	3.278	2217.229	0.12%	96.89%
53.0	35.757	3.181	2220.41	0.12%	97.03%
54.0	34.302	3.088	2223.498	0.12%	97.16%
55.0	32.831	2.997	2226.494	0.11%	97.29%
56.0	31.470	2.906	2229.4	0.11%	97.42%
57.0	30.095	2.815	2232.215	0.10%	97.54%
58.0	28.691	2.718	2234.933	0.10%	97.66%
59.0	27.447	2.624	2237.558	0.10%	97.78%
60.0	26.167	2.533	2240.091	0.09%	97.89%
61.0	24.989	2.441	2242.532	0.09%	98.00%
62.0	23.782	2.350	2244.882	0.09%	98.10%
63.0	22.780	2.265	2247.147	0.08%	98.20%
64.0	21.785	2.187	2249.333	0.08%	98.29%
65.0	20.885	2.112	2251.445	0.08%	98.39%
66.0	20.000	2.040	2253.485	0.08%	98.47%
67.0	19.217	1.972	2255.457	0.07%	98.56%
68.0	18.464	1.909	2257.366	0.07%	98.64%
69.0	17.791	1.850	2259.215	0.07%	98.72%
70.0	17.147	1.794	2261.01	0.07%	98.80%
71.0	16.525	1.740	2262.75	0.06%	98.88%
72.0	15.911	1.687	2264.437	0.06%	98.95%
73.0	15.333	1.634	2266.07	0.06%	99.02%
74.0	14.806	1.584	2267.655	0.06%	99.09%
75.0	14.345	1.540	2269.195	0.06%	99.16%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.980	1.504	2270.699	0.06%	99.23%
77.0	13.599	1.470	2272.169	0.05%	99.29%
78.0	13.248	1.437	2273.606	0.05%	99.35%
79.0	12.890	1.404	2275.011	0.05%	99.42%
80.0	12.560	1.372	2276.383	0.05%	99.48%
81.0	12.253	1.342	2277.725	0.05%	99.53%
82.0	11.792	1.304	2279.028	0.05%	99.59%
83.0	11.522	1.267	2280.296	0.05%	99.65%
84.0	11.266	1.241	2281.537	0.05%	99.70%
85.0	11.031	1.217	2282.754	0.05%	99.75%
86.0	10.629	1.184	2283.938	0.04%	99.81%
87.0	10.358	1.149	2285.087	0.04%	99.86%
88.0	10.154	1.124	2286.21	0.04%	99.90%
89.0	9.920	1.100	2287.311	0.04%	99.95%
90.0	9.876	1.085	2288.396	0.04%	100.00%

Zonal flux distribution table

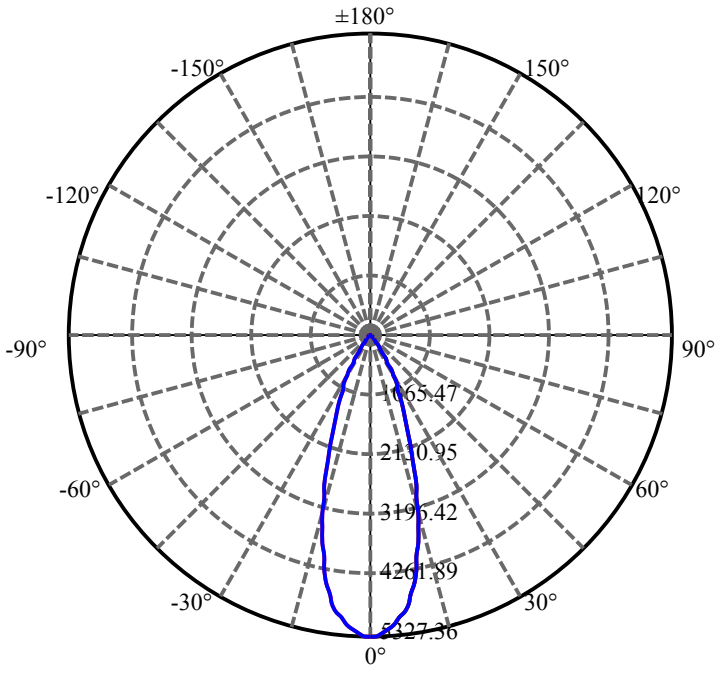
ZONAL LUMEN SUMMARY

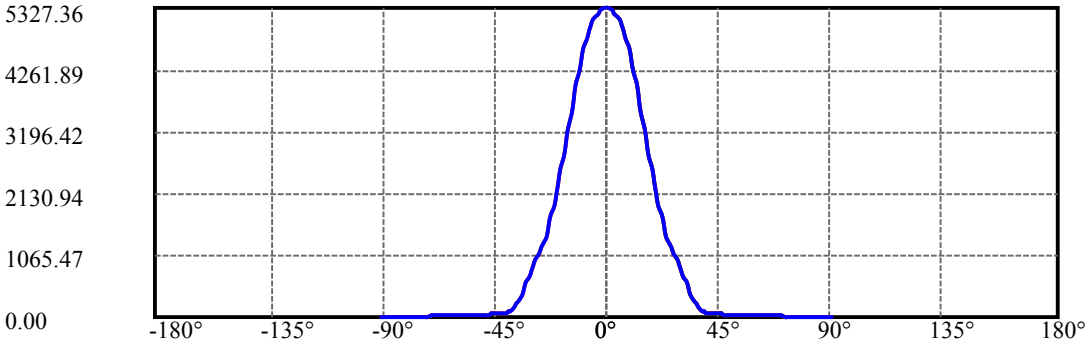
Zone	Lumens	%Lamp	%Fixt
0-30	1963.55	73.13%	85.80%
0-40	2168.05	80.75%	94.74%
0-60	2240.09	83.43%	97.89%
0-90	2287.31	85.19%	99.95%
0-120	2287.31	85.19%	99.95%
0-180	2288.40	85.23%	100.00%
60-90	47.22	1.76%	2.06%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.28	1830.72	68.18%	80.00%

ZONAL LUMEN SUMMARY

0-10	467.99
10-20	888.96
20-30	606.60
30-40	204.50
40-50	42.52
50-60	29.52
60-70	20.92
70-80	15.37
80-90	10.93
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):

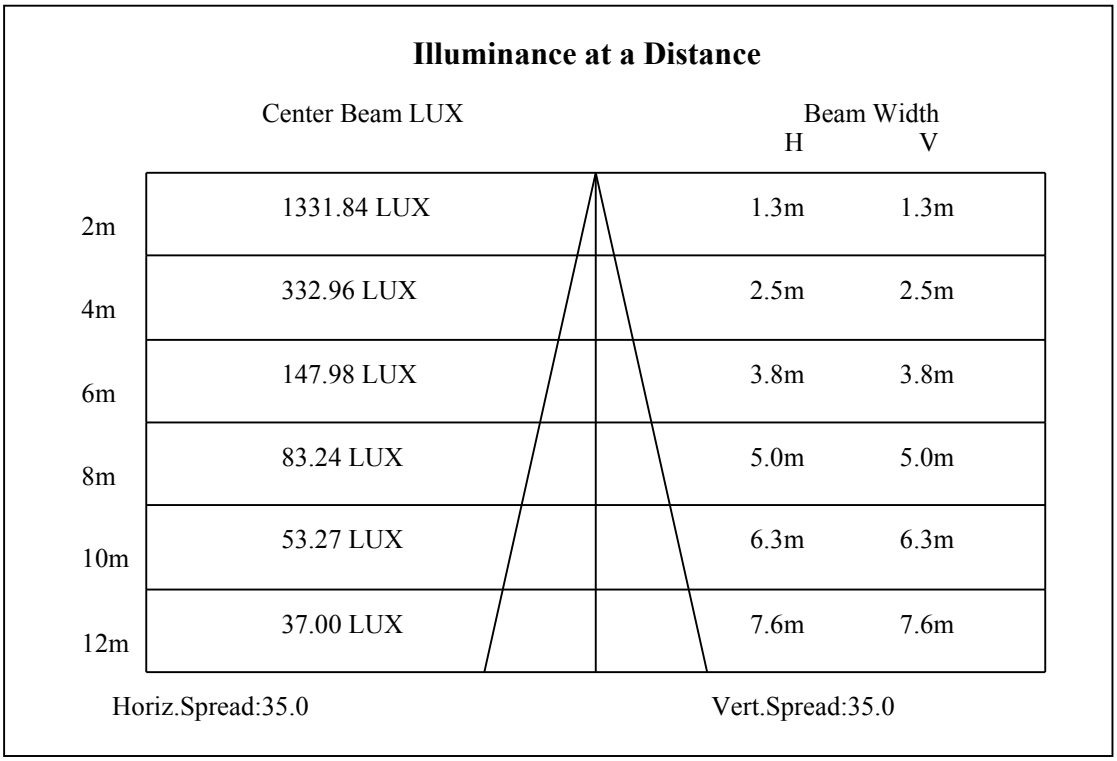
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:32.4 Right:32.4
:C90/270Left:32.4 Right:32.4

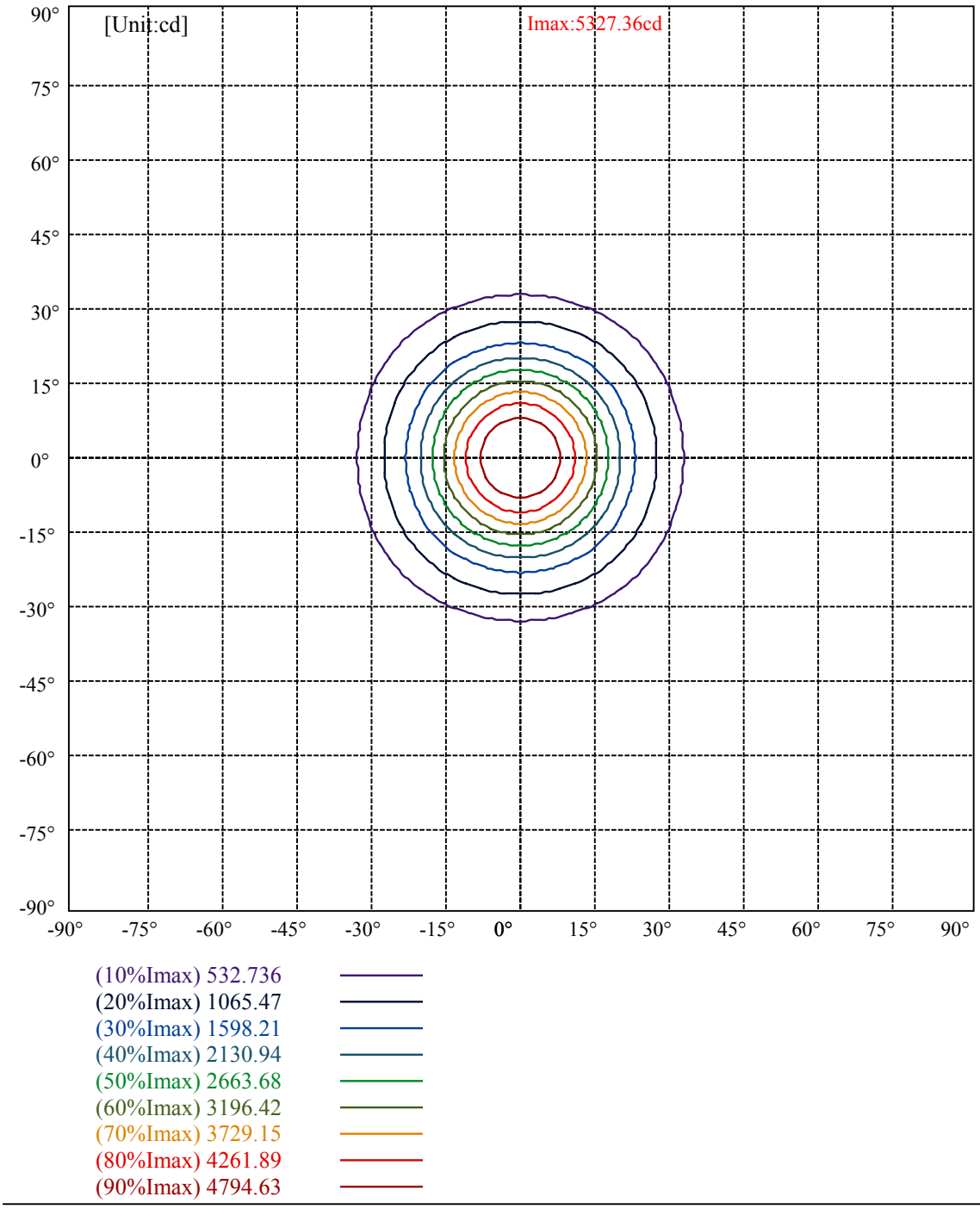
Beam Angle(50%Imax):C0/180Left:17.5 Right:17.5
:C90/270Left:17.5 Right:17.5

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)

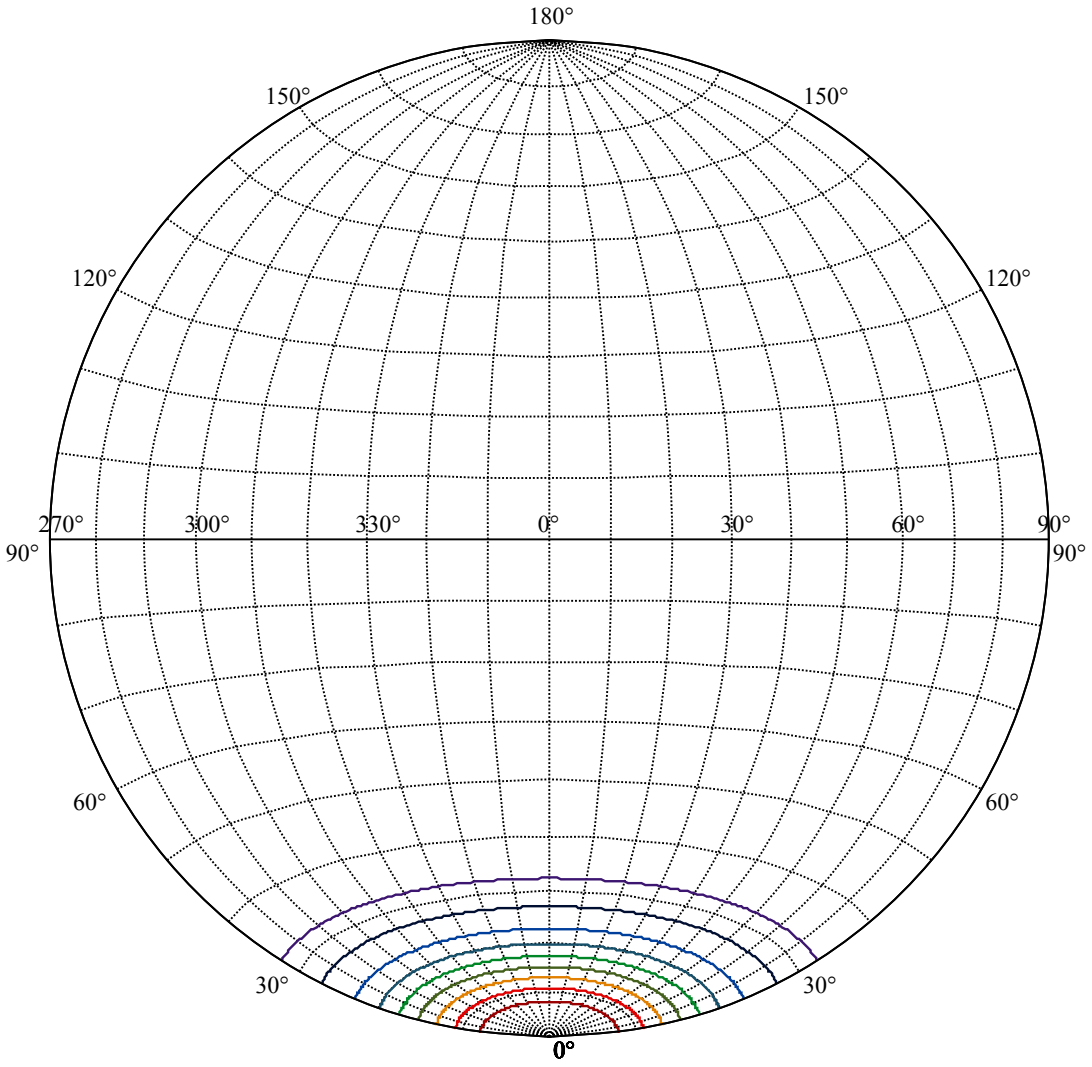


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:5327.36

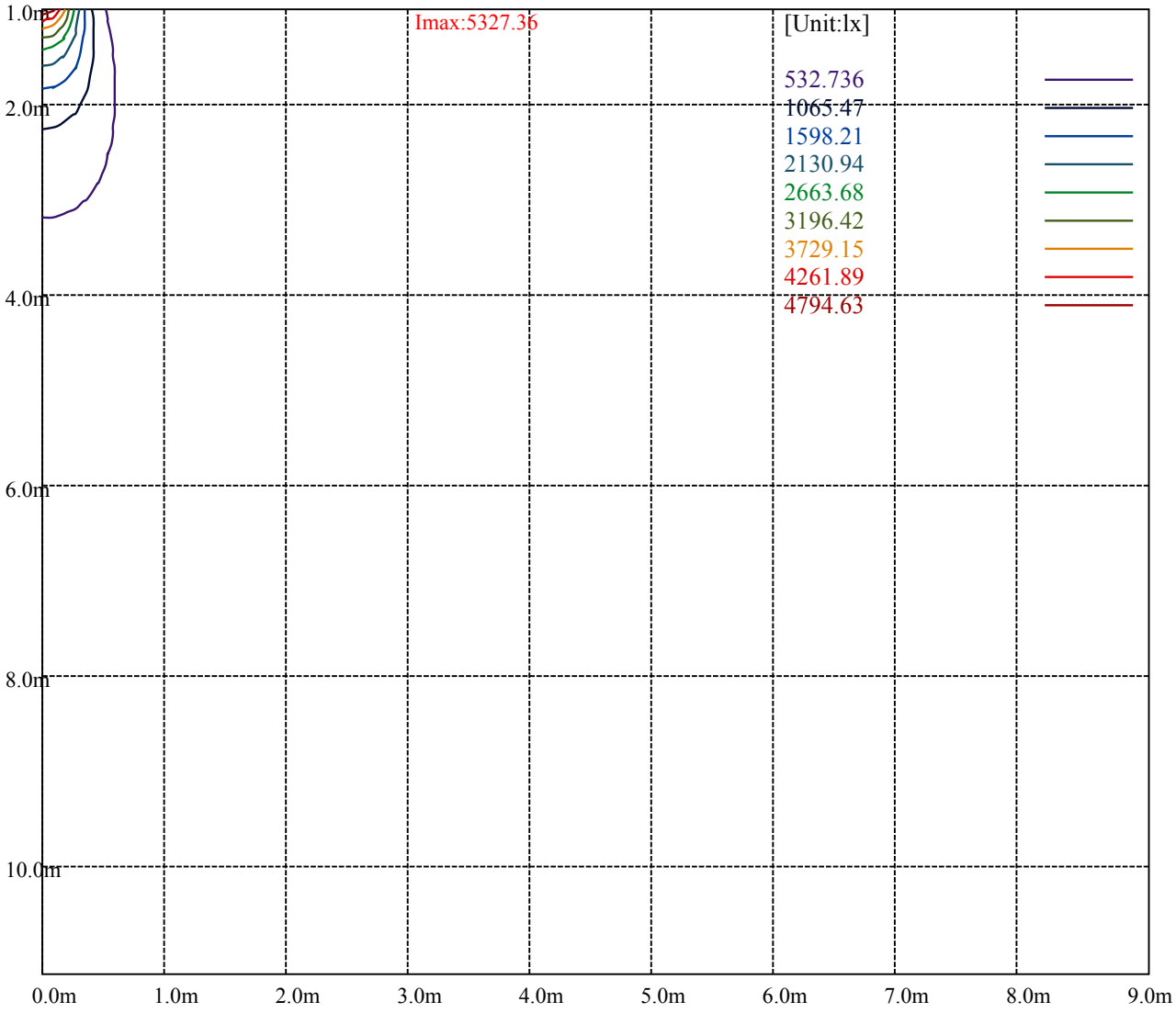
(10%Imax) 532.736
(20%Imax) 1065.47
(30%Imax) 1598.21
(40%Imax) 2130.94
(50%Imax) 2663.68
(60%Imax) 3196.42
(70%Imax) 3729.15
(80%Imax) 4261.89
(90%Imax) 4794.63

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

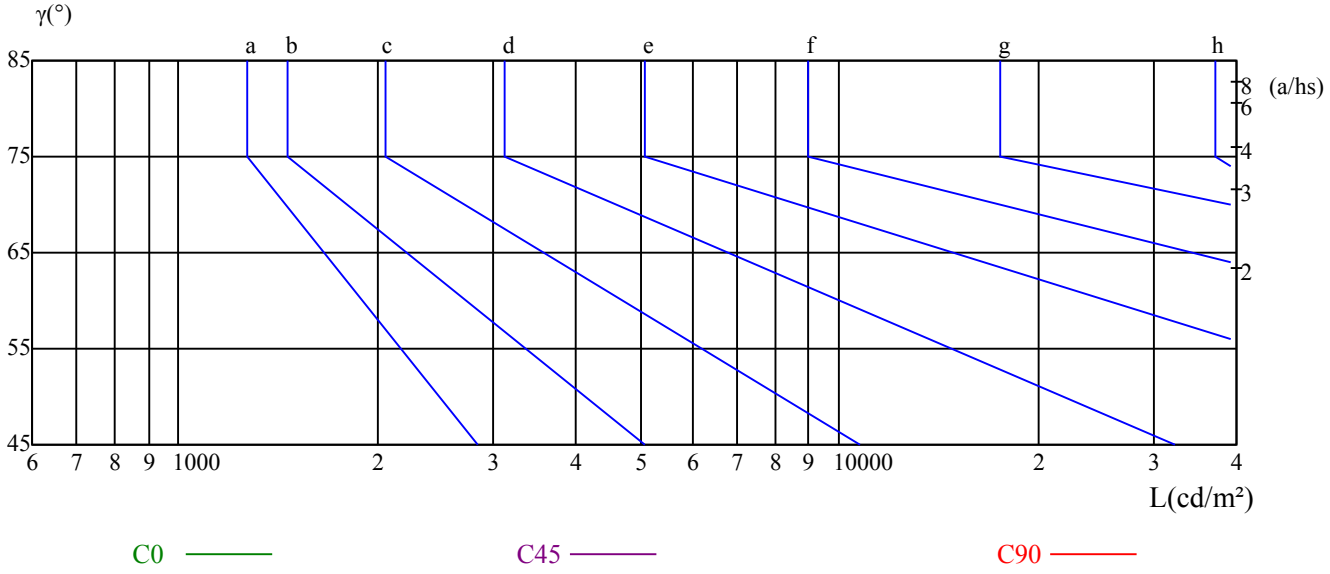
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

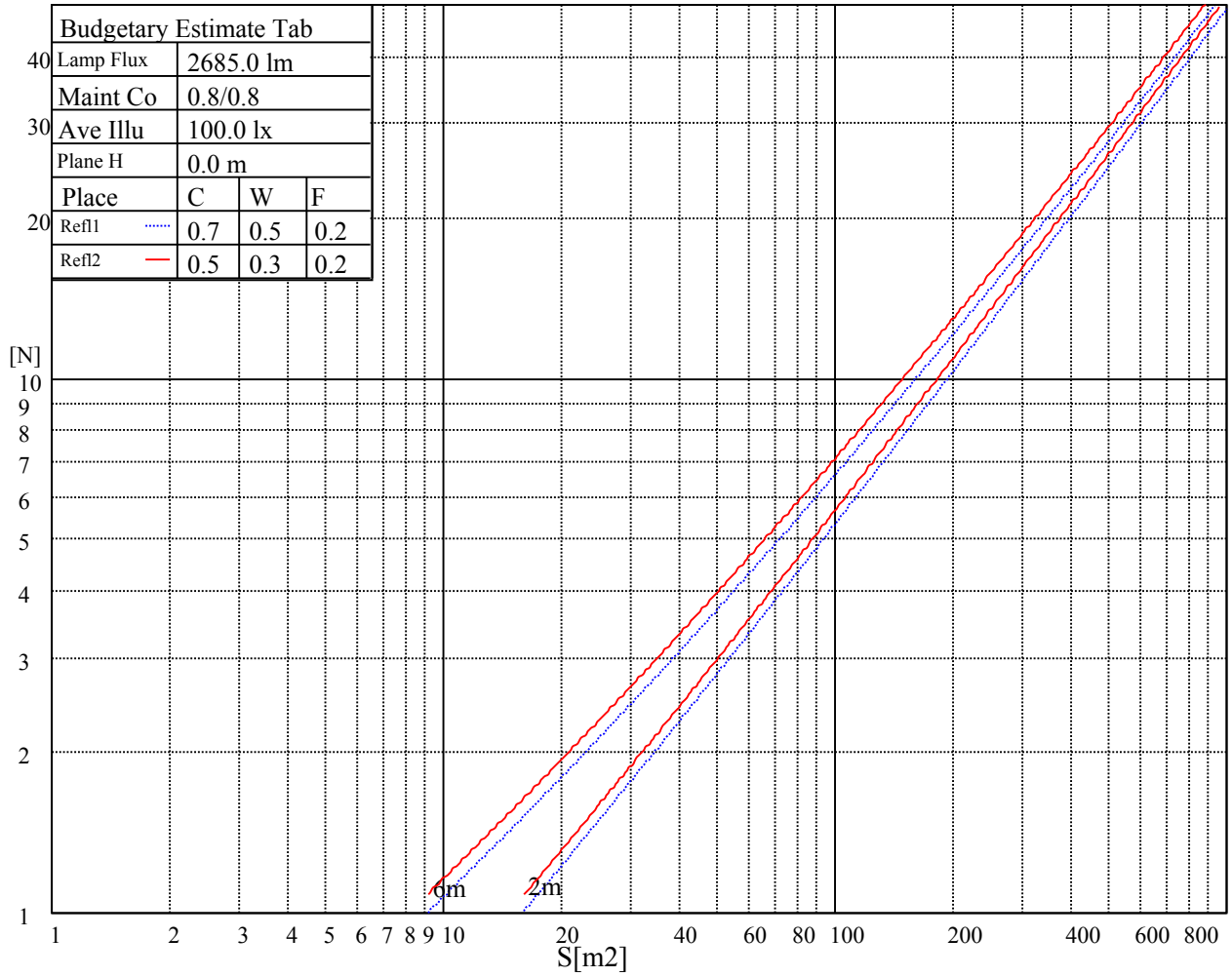
Luminance Limitting Curve



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

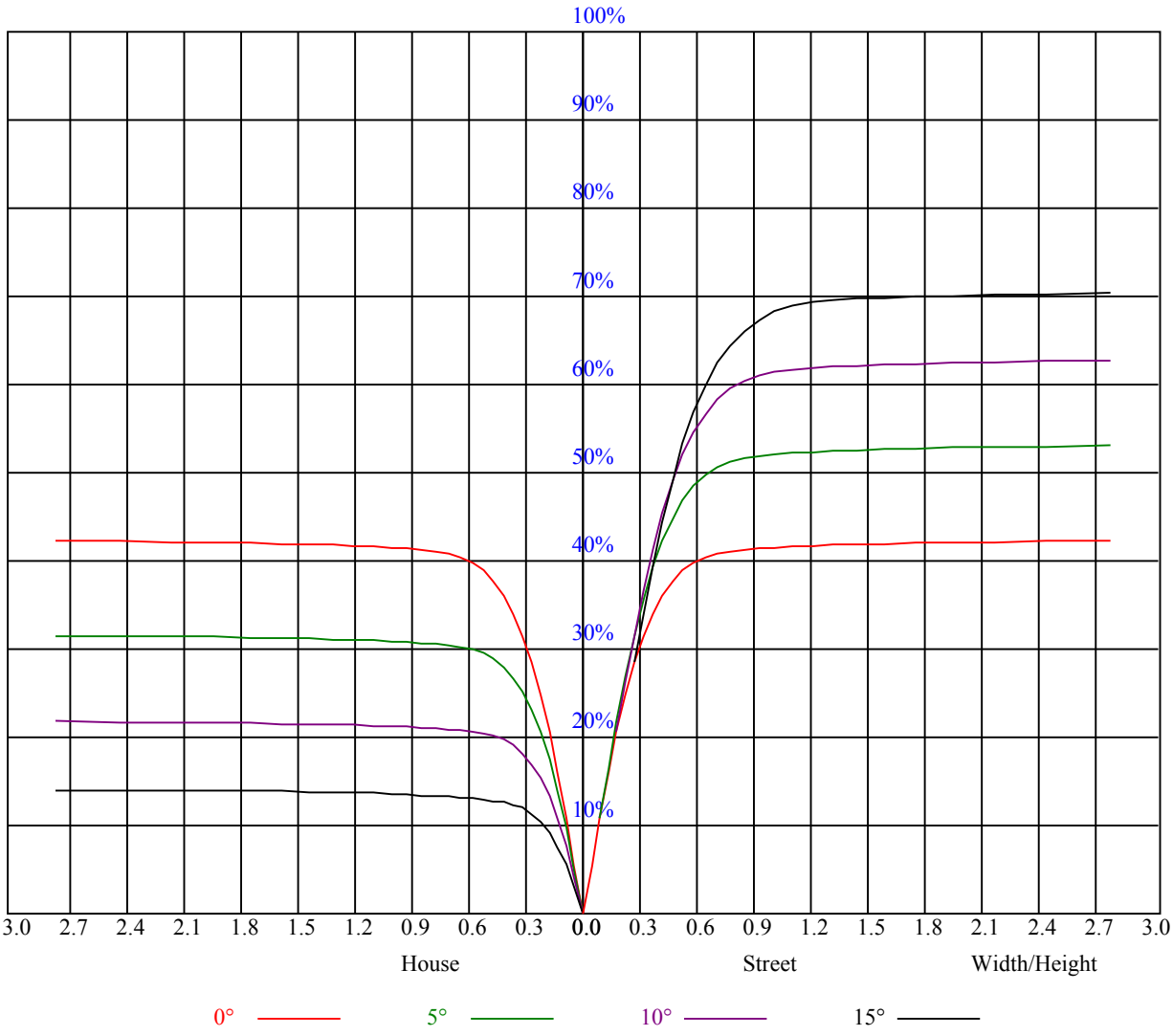


Equipment: GMS1980 Date: 2024/4/11 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

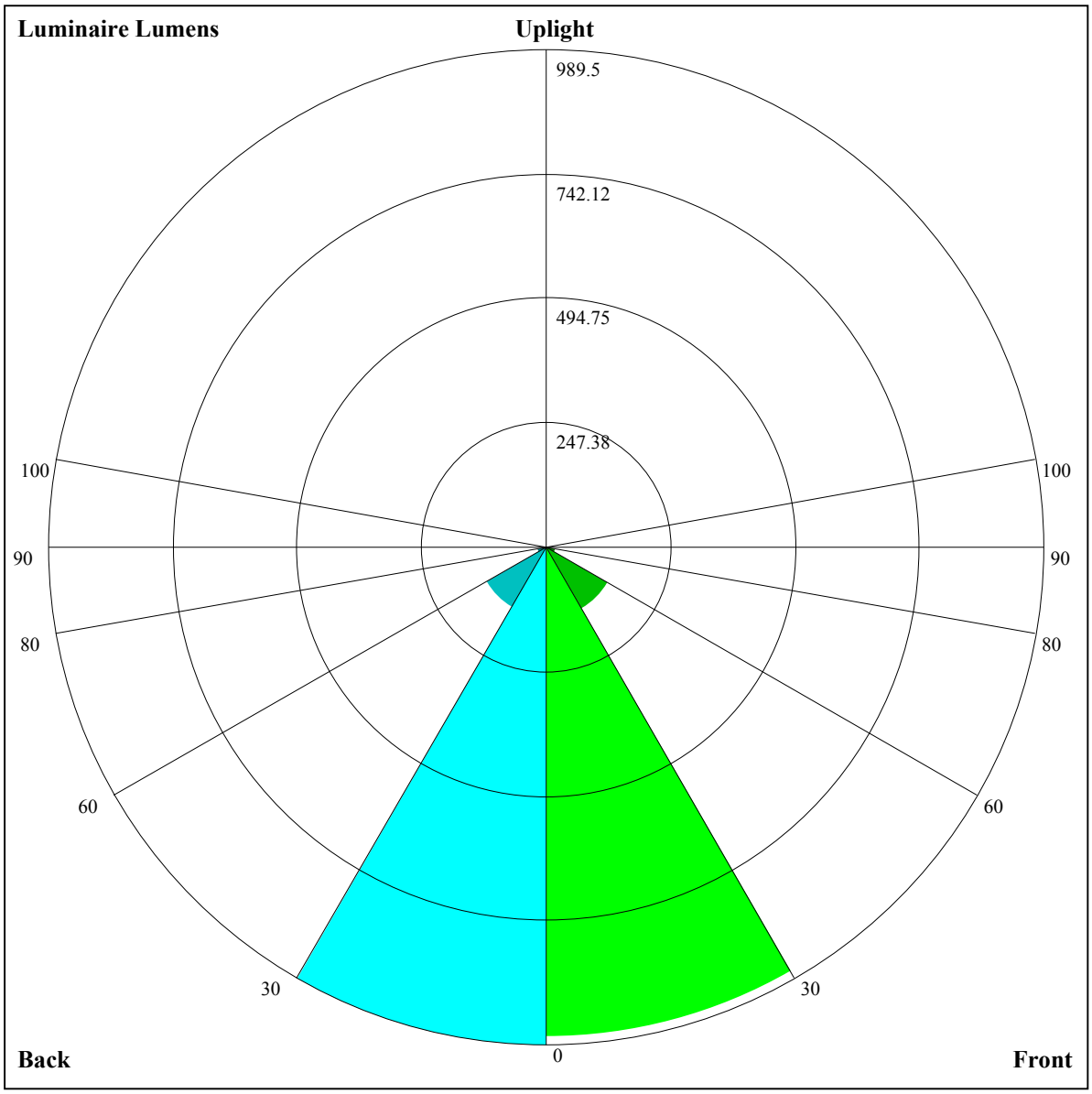
Utilization factor table for indoor luminaire

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	1.01	1.01	1.01	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	0.90	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	0.83	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.79	0.80	0.79	0.77	0.76
3	0.84	0.80	0.77	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.76	0.74	0.77	0.75	0.73	0.72
4	0.80	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.70	0.74	0.72	0.70	0.68
5	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.65
6	0.72	0.68	0.65	0.72	0.68	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
7	0.69	0.65	0.62	0.69	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.59
8	0.66	0.62	0.59	0.66	0.61	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.57
9	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55
10	0.61	0.57	0.54	0.61	0.56	0.54	0.60	0.56	0.54	0.59	0.56	0.53	0.59	0.56	0.53	0.52

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=972.02,FM=140.49,FH=18.11,FVH=6.04
BL=989.5,BM=136.51,BH=18.21,BVH=6
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	5329.12	5302.20	5262.40	5192.76	5120.78	5035.92	4915.36	4803.00	4666.06
45.0	5329.70	5332.04	5315.07	5266.50	5224.95	5161.74	5092.10	4989.69	4886.10
90.0	5336.14	5323.85	5281.71	5243.09	5191.00	5130.73	5035.33	4942.87	4820.56
135.0	5314.49	5325.61	5326.19	5286.98	5255.96	5212.07	5167.60	5093.27	5000.22
180.0	5329.12	5336.14	5318.58	5288.15	5251.87	5192.17	5140.67	5061.67	4962.18
225.0	5329.70	5299.27	5263.57	5213.83	5153.55	5074.54	4979.74	4863.86	4683.61
270.0	5336.14	5332.04	5300.44	5254.21	5204.46	5122.53	5048.79	4946.38	4785.44
315.0	5314.49	5286.40	5234.90	5168.18	5090.93	4972.13	4866.79	4701.17	4546.09
360.0	5329.12	5302.20	5262.40	5192.76	5120.78	5035.92	4915.36	4803.00	4666.06

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4460.64	4275.13	4066.79	3796.41	3577.54	3356.32	3137.45	2855.96	2637.67
45.0	4760.86	4577.69	4389.83	4143.45	3926.33	3703.36	3476.30	3195.97	2971.83
90.0	4674.84	4440.16	4230.06	4008.85	3720.33	3486.24	3260.93	2977.10	2748.86
135.0	4891.95	4701.17	4517.41	4311.41	4030.50	3792.90	3495.61	3257.42	3017.48
180.0	4793.05	4623.92	4372.27	4156.91	3925.16	3617.33	3368.03	3116.97	2888.73
225.0	4498.68	4306.14	4036.36	3797.58	3555.89	3260.35	3028.01	2805.63	2589.09
270.0	4645.57	4471.76	4279.81	4007.68	3773.59	3542.43	3304.24	3013.97	2793.92
315.0	4370.52	4176.81	3916.97	3706.87	3476.88	3256.25	2985.29	2765.25	2545.20
360.0	4460.64	4275.13	4066.79	3796.41	3577.54	3356.32	3137.45	2855.96	2637.67

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2434.59	2235.03	2007.97	1835.91	1646.88	1509.94	1391.72	1145.58	1145.58
45.0	2750.62	2532.91	2287.12	2098.68	1921.35	1721.79	1578.41	1453.76	1305.70
90.0	2531.74	2283.02	2087.56	1910.82	1745.78	1561.44	1428.59	1142.59	1142.59
135.0	2789.83	2565.68	2312.28	2116.23	1927.79	1755.73	1562.02	1423.33	1290.48
180.0	2610.75	2402.41	2201.09	2012.65	1787.34	1621.13	1483.02	1324.42	1205.62
225.0	2330.42	2129.69	1944.76	1777.39	1581.34	1444.39	1161.91	1161.91	1058.50
270.0	2576.80	2325.16	2126.18	1898.53	1734.08	1583.09	1423.91	1304.53	1199.18
315.0	2337.45	2093.99	1916.67	1715.94	1576.07	1452.00	1152.25	1152.25	1106.60
360.0	2434.59	2235.03	2007.97	1835.91	1646.88	1509.94	1391.72	1145.58	1145.58

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1054.93	970.89	884.39	803.98	703.21	600.91	473.45	372.73	274.53
45.0	1195.67	1097.36	990.84	921.20	841.03	740.37	611.62	508.03	405.03
90.0	1072.72	987.98	891.94	802.17	701.04	569.37	465.20	363.13	246.26
135.0	1147.10	1048.20	944.03	863.85	770.80	643.22	541.39	439.56	342.42
180.0	1105.55	997.87	920.03	819.37	685.94	575.33	469.41	370.51	300.28
225.0	950.00	869.29	772.03	668.27	540.86	442.25	348.15	260.78	166.15
270.0	1096.77	986.75	905.99	808.84	706.43	568.90	464.73	365.82	296.77
315.0	1002.43	924.07	845.24	746.75	639.65	510.73	410.13	313.97	203.48
360.0	1054.93	970.89	884.39	803.98	703.21	600.91	473.45	372.73	274.53

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	170.42	114.76	91.00	80.12	74.09	68.71	63.03	59.05	55.48
45.0	305.55	305.55	121.90	91.35	79.53	73.39	68.06	62.33	58.52
90.0	167.61	111.60	89.01	78.30	72.45	67.18	62.44	57.47	53.96
135.0	295.01	295.01	106.16	90.59	80.23	74.09	68.59	62.62	58.64
180.0	300.28	121.79	98.32	86.79	80.00	73.91	67.18	62.44	58.46
225.0	118.63	100.37	90.83	82.22	75.96	69.23	64.55	60.45	55.95
270.0	296.77	125.59	100.54	91.24	84.21	77.78	70.70	65.90	61.51
315.0	135.83	99.61	85.68	79.18	72.33	67.48	63.15	59.22	55.07
360.0	170.42	114.76	91.00	80.12	74.09	68.71	63.03	59.05	55.48

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	52.38	48.87	46.35	44.13	41.67	39.80	38.22	36.64	34.94
45.0	54.13	51.21	48.46	46.06	43.31	41.38	39.62	38.04	36.11
90.0	50.91	47.40	44.95	42.84	40.56	38.80	37.34	35.46	34.35
135.0	54.95	51.03	48.28	45.76	43.07	41.32	39.50	37.98	36.17
180.0	54.02	51.03	47.64	45.30	43.31	41.32	39.21	37.69	36.11
225.0	52.73	49.92	46.82	44.71	42.60	40.79	38.68	37.04	35.52
270.0	57.82	53.78	50.74	47.58	45.35	43.25	40.91	39.15	37.51
315.0	51.97	49.28	46.82	44.18	42.14	40.44	38.74	36.87	35.35
360.0	52.38	48.87	46.35	44.13	41.67	39.80	38.22	36.64	34.94

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	33.65	32.19	30.84	29.61	27.92	26.74	25.57	24.40	23.17
45.0	34.82	33.42	32.01	30.78	29.55	28.09	26.86	25.81	24.46
90.0	33.01	31.78	30.37	29.14	27.97	26.80	25.40	24.29	23.17
135.0	34.94	33.47	32.19	30.72	29.32	28.21	26.80	25.69	24.29
180.0	34.76	33.01	31.78	30.43	28.97	27.74	26.51	25.16	24.05
225.0	34.06	32.36	31.02	29.44	28.15	26.92	25.52	24.40	23.41
270.0	35.58	34.12	32.66	31.31	29.67	28.27	27.10	25.93	24.46
315.0	33.59	32.30	30.90	29.32	27.97	26.80	25.57	24.23	23.23
360.0	33.65	32.19	30.84	29.61	27.92	26.74	25.57	24.40	23.17

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.24	21.36	20.60	19.55	18.84	18.20	17.38	16.85	16.27
45.0	23.47	22.59	21.71	20.66	19.84	19.14	18.55	17.73	17.15
90.0	22.24	21.30	20.37	19.61	18.84	18.08	17.44	16.85	16.33
135.0	23.35	22.41	21.42	20.48	19.66	18.90	18.14	17.50	16.91
180.0	23.00	21.77	20.95	20.13	19.31	18.55	17.85	17.21	16.68
225.0	22.36	21.30	20.42	19.61	18.96	18.08	17.56	16.91	16.15
270.0	23.47	22.18	21.36	20.48	19.49	18.79	18.08	17.50	16.74
315.0	22.12	21.36	20.25	19.49	18.79	17.97	17.32	16.62	15.98
360.0	22.24	21.36	20.60	19.55	18.84	18.20	17.38	16.85	16.27

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.57	15.04	14.57	14.10	13.69	13.34	12.99	12.58	12.29
45.0	16.56	15.74	15.27	14.69	14.22	13.87	13.46	13.34	13.52
90.0	15.63	15.16	14.63	14.22	13.69	13.40	13.05	12.64	12.29
135.0	16.27	15.68	15.10	14.63	14.05	13.69	13.34	12.93	12.64
180.0	15.92	15.39	14.92	14.34	13.93	13.46	13.17	12.82	12.52
225.0	15.74	15.22	14.57	14.34	14.63	14.22	13.87	13.34	12.35
270.0	16.15	15.57	15.04	14.46	14.05	13.64	13.23	12.87	12.58
315.0	15.45	14.86	14.34	13.99	13.58	13.17	12.87	12.58	12.29
360.0	15.57	15.04	14.57	14.10	13.69	13.34	12.99	12.58	12.29

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.00	11.65	11.41	11.24	11.06	10.71	10.36	10.07	9.89
45.0	13.69	12.17	11.65	11.35	11.12	10.89	10.53	10.36	10.07
90.0	11.94	11.65	11.35	11.06	10.77	10.59	10.36	10.18	9.89
135.0	12.29	12.00	11.65	11.35	11.06	10.77	10.53	10.36	10.07
180.0	12.11	11.76	11.47	11.24	10.89	10.65	10.42	10.18	9.95
225.0	11.82	11.53	11.29	11.06	10.71	10.42	10.18	10.07	9.83
270.0	12.17	11.88	11.59	11.41	11.18	10.59	10.36	10.12	9.83
315.0	12.00	11.70	11.76	11.41	11.47	10.42	10.12	9.89	9.83
360.0	12.00	11.65	11.41	11.24	11.06	10.71	10.36	10.07	9.89

Intensity data(cd)

C/γ(°)	90.0
0.0	9.89
45.0	9.83
90.0	9.83
135.0	9.83
180.0	9.83
225.0	9.89
270.0	10.01
315.0	9.89
360.0	9.89