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NT

Client:
LumCAT: 2-2689-L
Luminaire: 92.70.411.00
Report No: 2024403-B024
Ballast type: AC

Test No: 2024403-C024	Voltage(V): 34.400
LampCAT: Fortimo_SLM_C_1208	Current(A): 0.578
Lamp flux(lm): 3438.0	Power (W): 19.883
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2853.35, Efficiency(%): 82.99% , Luminous Efficacy(lm/W): 143.51
Central intensity(cd): 5303.514, Maximum intensity(cd): 5303.514
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=43.4
[C90/270]Total=43.4
Field angle(10%Imax): [C0/180]Total=65.4
[C90/270]Total=65.4
Maximum s/h(1/2): C0_180=0.69 C90_270=0.69
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(%): 82.99%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.665%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5303.514	0.000	0	0.00%	0.00%
1.0	5301.246	5.074	5.074	0.15%	0.18%
2.0	5291.882	15.204	20.278	0.44%	0.71%
3.0	5272.497	25.267	45.545	0.73%	1.60%
4.0	5234.165	35.169	80.714	1.02%	2.83%
5.0	5184.859	44.822	125.536	1.30%	4.40%
6.0	5119.534	54.152	179.689	1.58%	6.30%
7.0	5038.626	63.052	242.74	1.83%	8.51%
8.0	4951.428	71.497	314.237	2.08%	11.01%
9.0	4835.626	79.319	393.556	2.31%	13.79%
10.0	4711.705	86.400	479.956	2.51%	16.82%
11.0	4571.251	92.756	572.711	2.70%	20.07%
12.0	4409.509	98.173	670.884	2.86%	23.51%
13.0	4254.498	102.820	773.704	2.99%	27.12%
14.0	4080.832	106.692	880.395	3.10%	30.85%
15.0	3905.484	109.640	990.035	3.19%	34.70%
16.0	3716.822	111.688	1101.723	3.25%	38.61%
17.0	3550.765	113.176	1214.899	3.29%	42.58%
18.0	3361.152	113.963	1328.862	3.31%	46.57%
19.0	3177.026	113.751	1442.613	3.31%	50.56%
20.0	2983.755	112.759	1555.372	3.28%	54.51%
21.0	2792.313	110.912	1666.284	3.23%	58.40%
22.0	2600.360	108.368	1774.652	3.15%	62.20%
23.0	2408.186	105.093	1879.745	3.06%	65.88%
24.0	2221.134	101.214	1980.959	2.94%	69.43%
25.0	2026.912	96.591	2077.55	2.81%	72.81%
26.0	1845.127	91.400	2168.95	2.66%	76.01%
27.0	1563.809	83.400	2252.35	2.43%	78.94%
28.0	1310.443	72.770	2325.12	2.12%	81.49%
29.0	1182.776	65.230	2390.35	1.90%	83.77%
30.0	1011.269	59.239	2449.589	1.72%	85.85%
31.0	823.865	51.069	2500.658	1.49%	87.64%
32.0	634.903	41.792	2542.45	1.22%	89.10%
33.0	487.207	33.058	2575.507	0.96%	90.26%
34.0	364.361	25.771	2601.278	0.75%	91.17%
35.0	281.310	20.052	2621.331	0.58%	91.87%
36.0	234.924	16.437	2637.768	0.48%	92.44%
37.0	186.467	13.743	2651.511	0.40%	92.93%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	147.769	11.156	2662.667	0.32%	93.32%
39.0	133.673	9.606	2672.274	0.28%	93.65%
40.0	121.888	8.913	2681.187	0.26%	93.97%
41.0	112.188	8.335	2689.522	0.24%	94.26%
42.0	103.124	7.823	2697.345	0.23%	94.53%
43.0	95.977	7.375	2704.72	0.21%	94.79%
44.0	88.793	6.974	2711.694	0.20%	95.04%
45.0	82.758	6.593	2718.287	0.19%	95.27%
46.0	77.155	6.254	2724.541	0.18%	95.49%
47.0	72.319	5.945	2730.485	0.17%	95.69%
48.0	67.791	5.664	2736.149	0.16%	95.89%
49.0	63.248	5.381	2741.531	0.16%	96.08%
50.0	59.495	5.118	2746.648	0.15%	96.26%
51.0	55.896	4.882	2751.53	0.14%	96.43%
52.0	52.531	4.653	2756.183	0.14%	96.59%
53.0	49.349	4.432	2760.615	0.13%	96.75%
54.0	46.555	4.227	2764.842	0.12%	96.90%
55.0	44.031	4.044	2768.885	0.12%	97.04%
56.0	41.580	3.869	2772.754	0.11%	97.18%
57.0	39.539	3.709	2776.463	0.11%	97.31%
58.0	37.498	3.562	2780.025	0.10%	97.43%
59.0	35.648	3.420	2783.445	0.10%	97.55%
60.0	33.980	3.289	2786.734	0.10%	97.67%
61.0	32.341	3.165	2789.899	0.09%	97.78%
62.0	30.710	3.038	2792.938	0.09%	97.88%
63.0	29.042	2.906	2795.844	0.08%	97.98%
64.0	27.593	2.779	2798.623	0.08%	98.08%
65.0	26.108	2.658	2801.28	0.08%	98.18%
66.0	24.777	2.539	2803.819	0.07%	98.26%
67.0	23.833	2.444	2806.263	0.07%	98.35%
68.0	23.446	2.395	2808.658	0.07%	98.43%
69.0	23.431	2.391	2811.05	0.07%	98.52%
70.0	23.628	2.417	2813.467	0.07%	98.60%
71.0	23.680	2.445	2815.912	0.07%	98.69%
72.0	23.716	2.464	2818.376	0.07%	98.77%
73.0	23.555	2.472	2820.848	0.07%	98.86%
74.0	23.365	2.467	2823.315	0.07%	98.95%
75.0	22.963	2.448	2825.763	0.07%	99.03%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	22.363	2.406	2828.169	0.07%	99.12%
77.0	21.639	2.346	2830.515	0.07%	99.20%
78.0	20.695	2.266	2832.781	0.07%	99.28%
79.0	19.342	2.151	2834.932	0.06%	99.35%
80.0	18.120	2.020	2836.952	0.06%	99.43%
81.0	17.301	1.915	2838.867	0.06%	99.49%
82.0	16.979	1.859	2840.726	0.05%	99.56%
83.0	16.642	1.828	2842.554	0.05%	99.62%
84.0	16.064	1.782	2844.336	0.05%	99.68%
85.0	14.967	1.694	2846.029	0.05%	99.74%
86.0	14.192	1.594	2847.623	0.05%	99.80%
87.0	13.533	1.517	2849.141	0.04%	99.85%
88.0	12.948	1.451	2850.591	0.04%	99.90%
89.0	12.451	1.392	2851.983	0.04%	99.95%
90.0	12.407	1.363	2853.346	0.04%	100.00%

Zonal flux distribution table

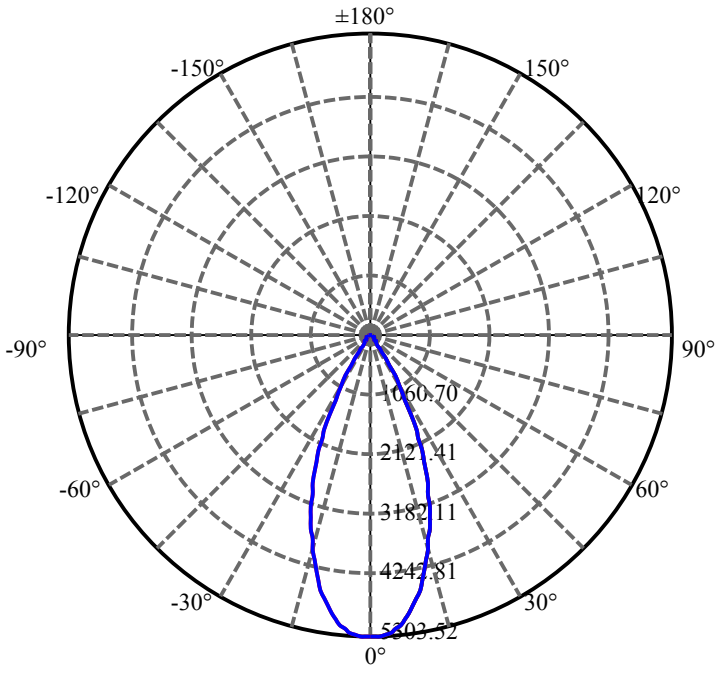
ZONAL LUMEN SUMMARY

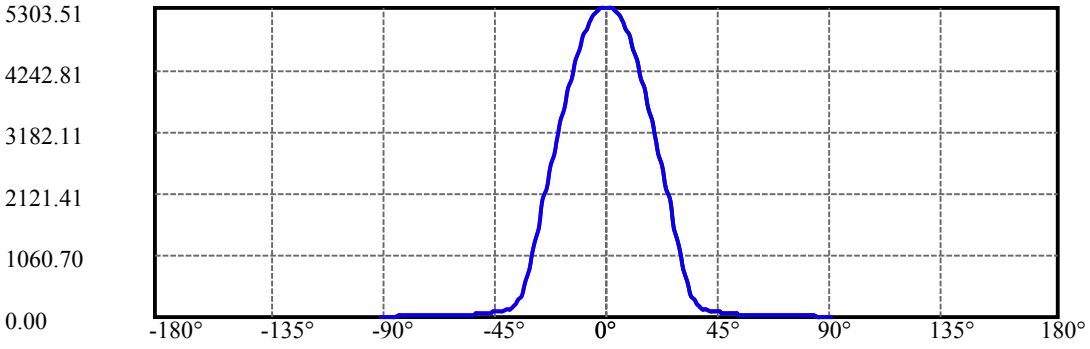
Zone	Lumens	%Lamp	%Fixt
0-30	2449.59	71.25%	85.85%
0-40	2681.19	77.99%	93.97%
0-60	2786.73	81.06%	97.67%
0-90	2851.98	82.95%	99.95%
0-120	2851.98	82.95%	99.95%
0-180	2853.35	82.99%	100.00%
60-90	65.25	1.90%	2.29%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.42	2282.68	66.40%	80.00%

ZONAL LUMEN SUMMARY

0-10	479.96
10-20	1075.42
20-30	894.22
30-40	231.60
40-50	65.46
50-60	40.09
60-70	26.73
70-80	23.49
80-90	15.03
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):

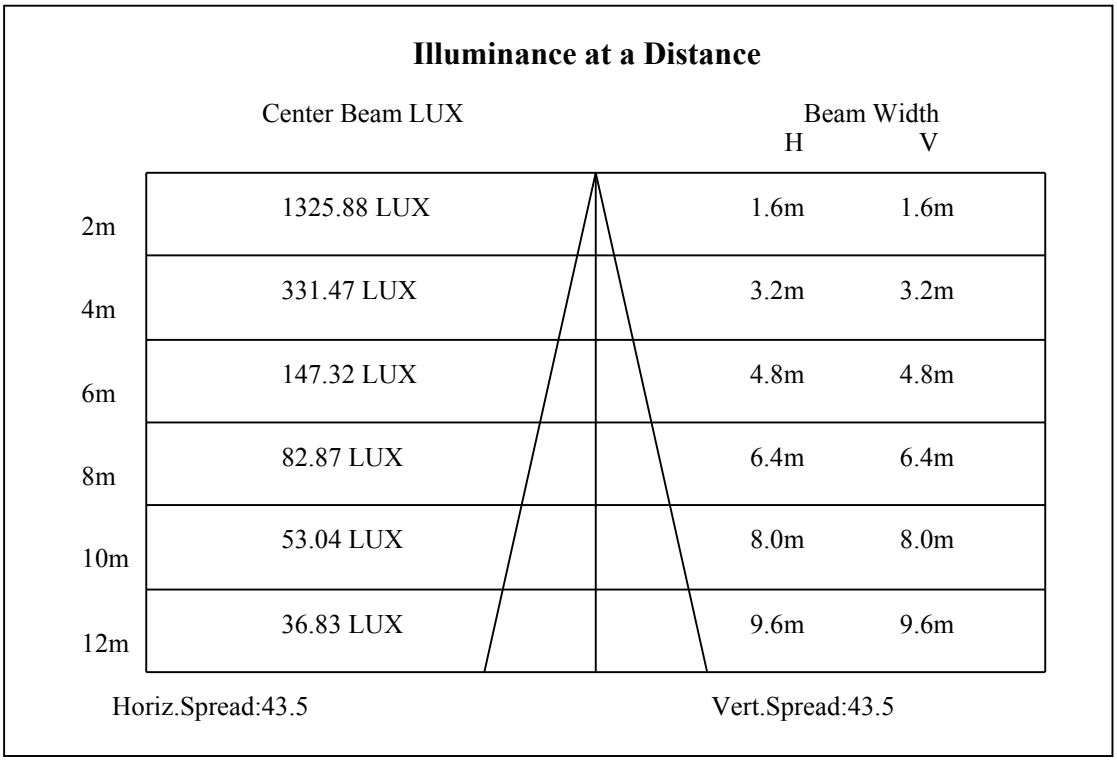
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:32.7 Right:32.7
:C90/270Left:32.7 Right:32.7

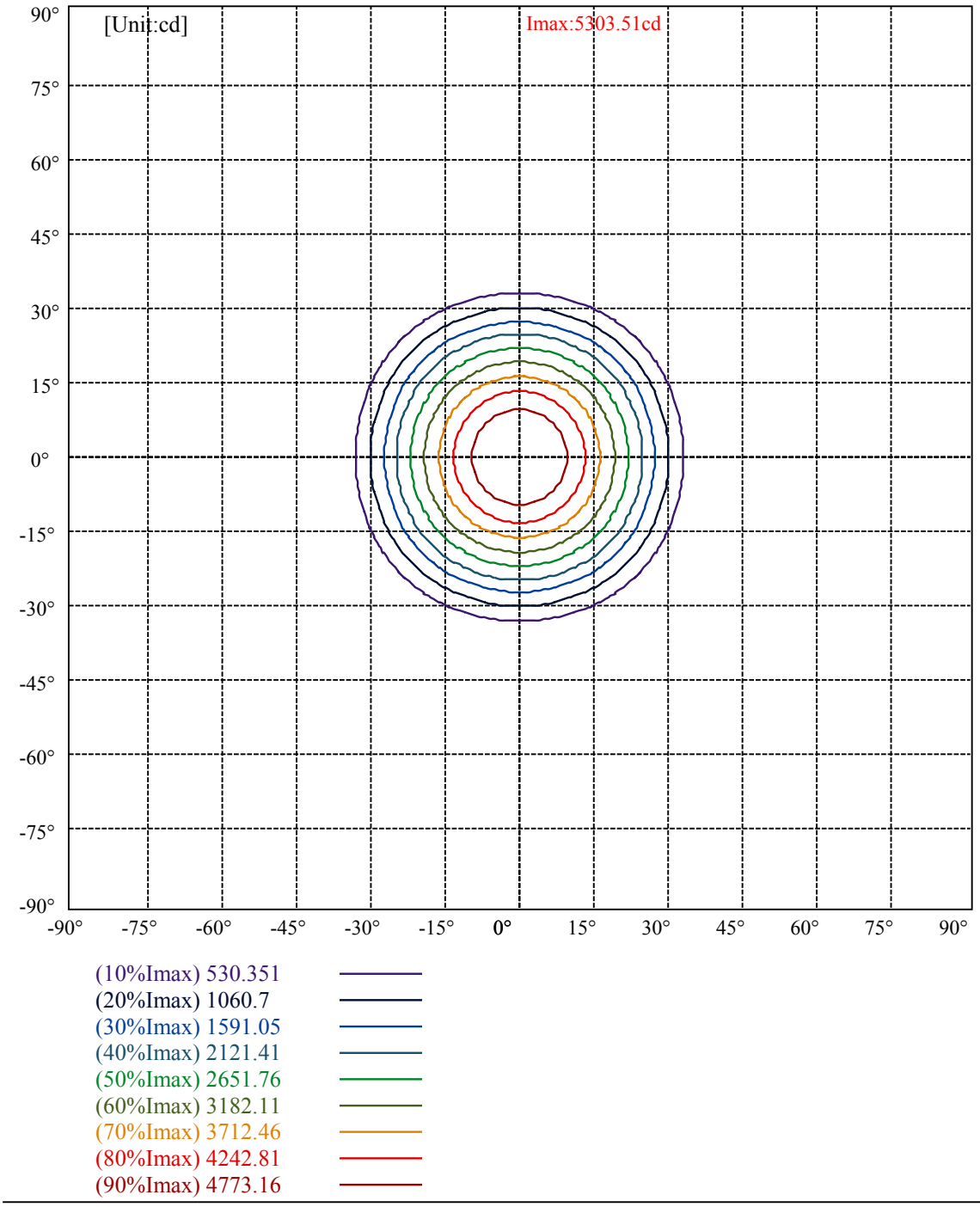
Beam Angle(50%Imax):C0/180Left:21.7 Right:21.7
:C90/270Left:21.7 Right:21.7

Lux distance Curve



Equipment: GMS1980 Date: 2024/4/03 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

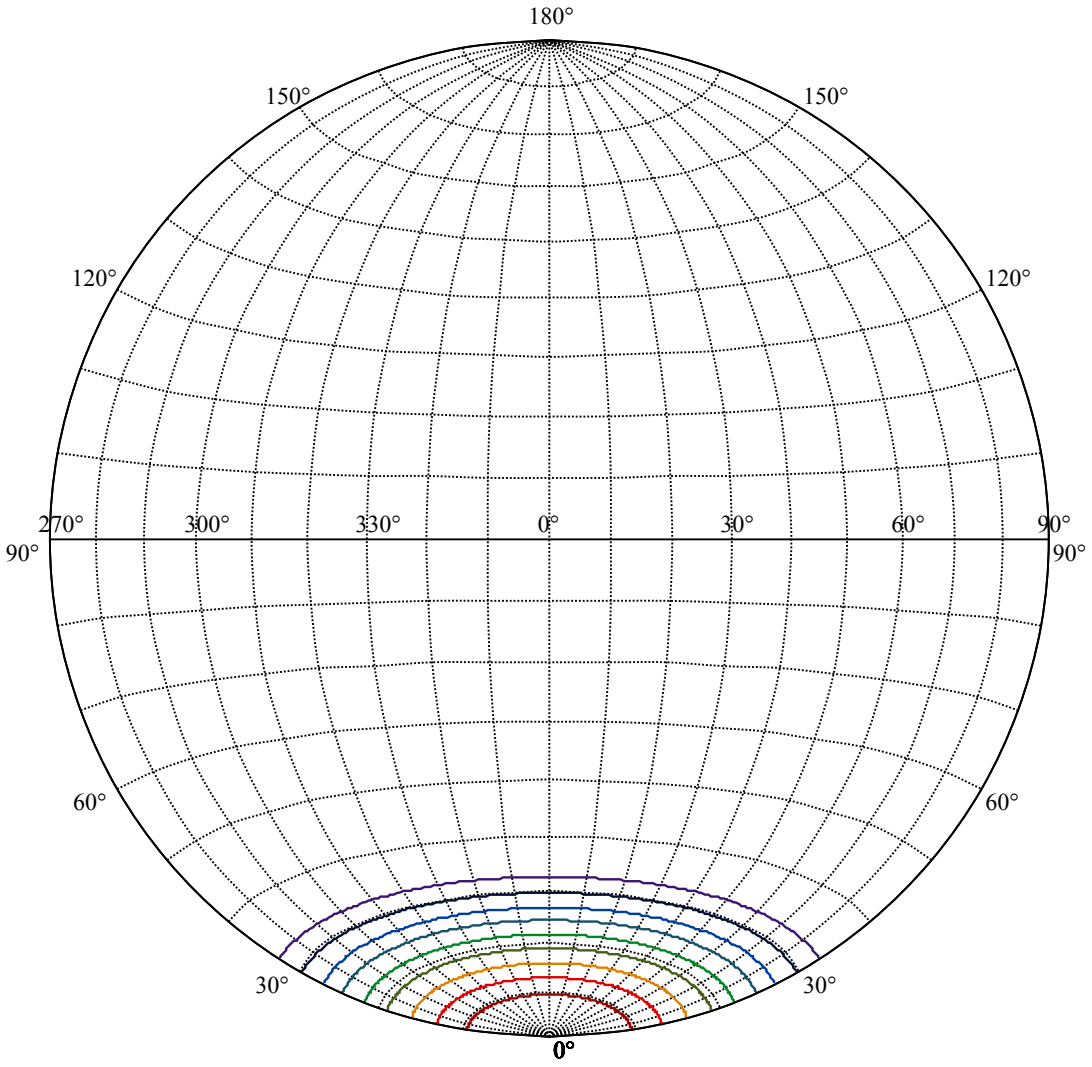


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/03
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



[Unit:cd]

Imax:5303.51

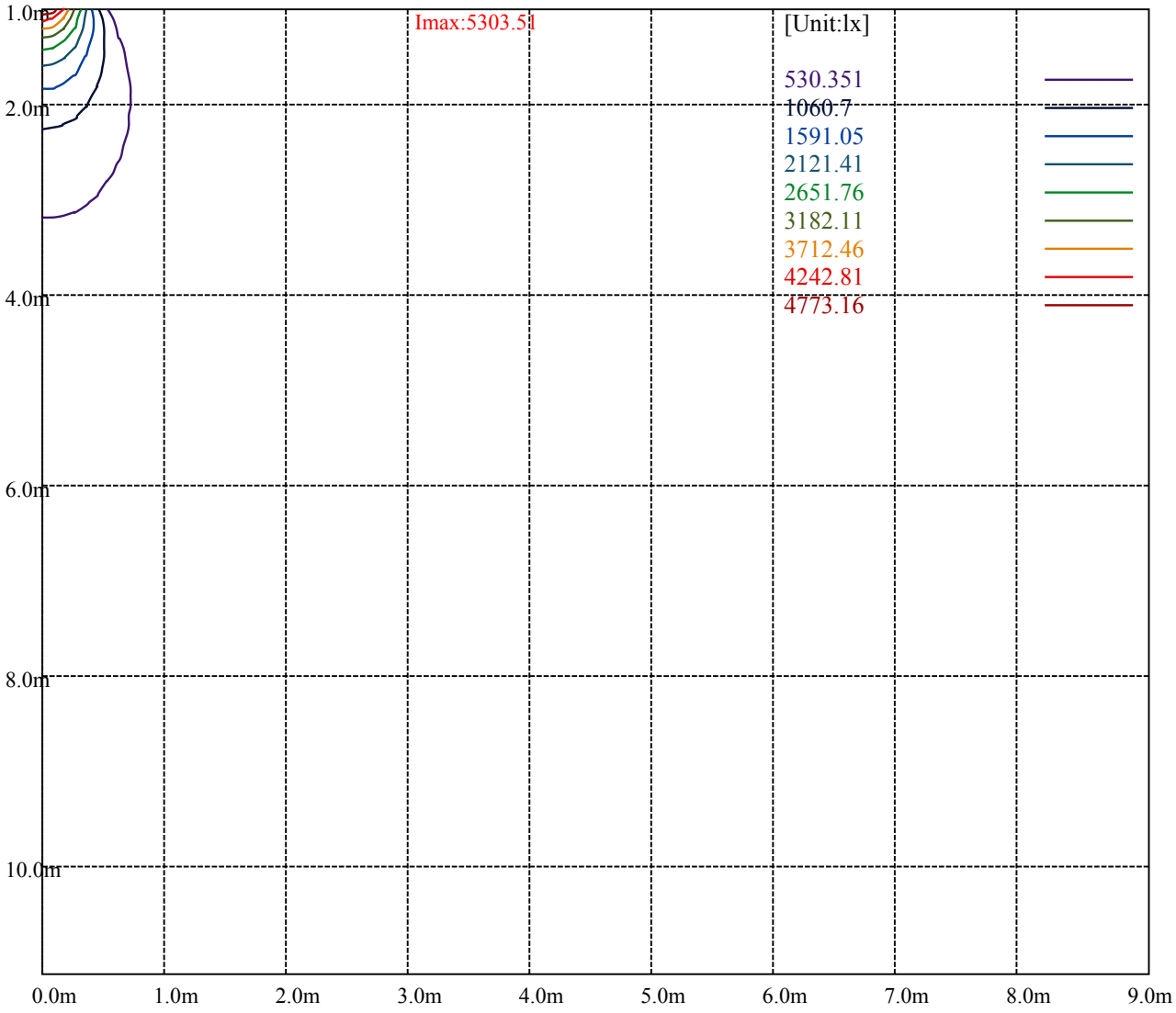
(10%Imax) 530.351
(20%Imax) 1060.7
(30%Imax) 1591.05
(40%Imax) 2121.41
(50%Imax) 2651.76
(60%Imax) 3182.11
(70%Imax) 3712.46
(80%Imax) 4242.81
(90%Imax) 4773.16

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/03
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/03
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 2-2689-L

Luminance Limitting Curve(no luminous side)

Luminance Table

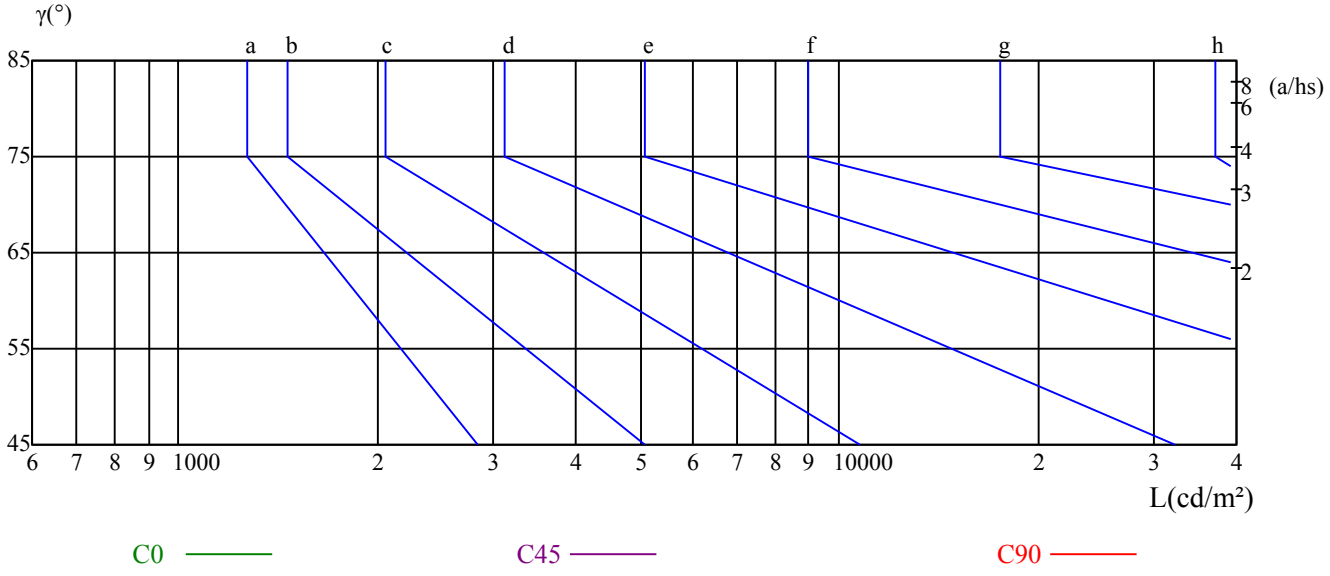
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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



Equipment: GMS1980
Temperature(°C): 25.0

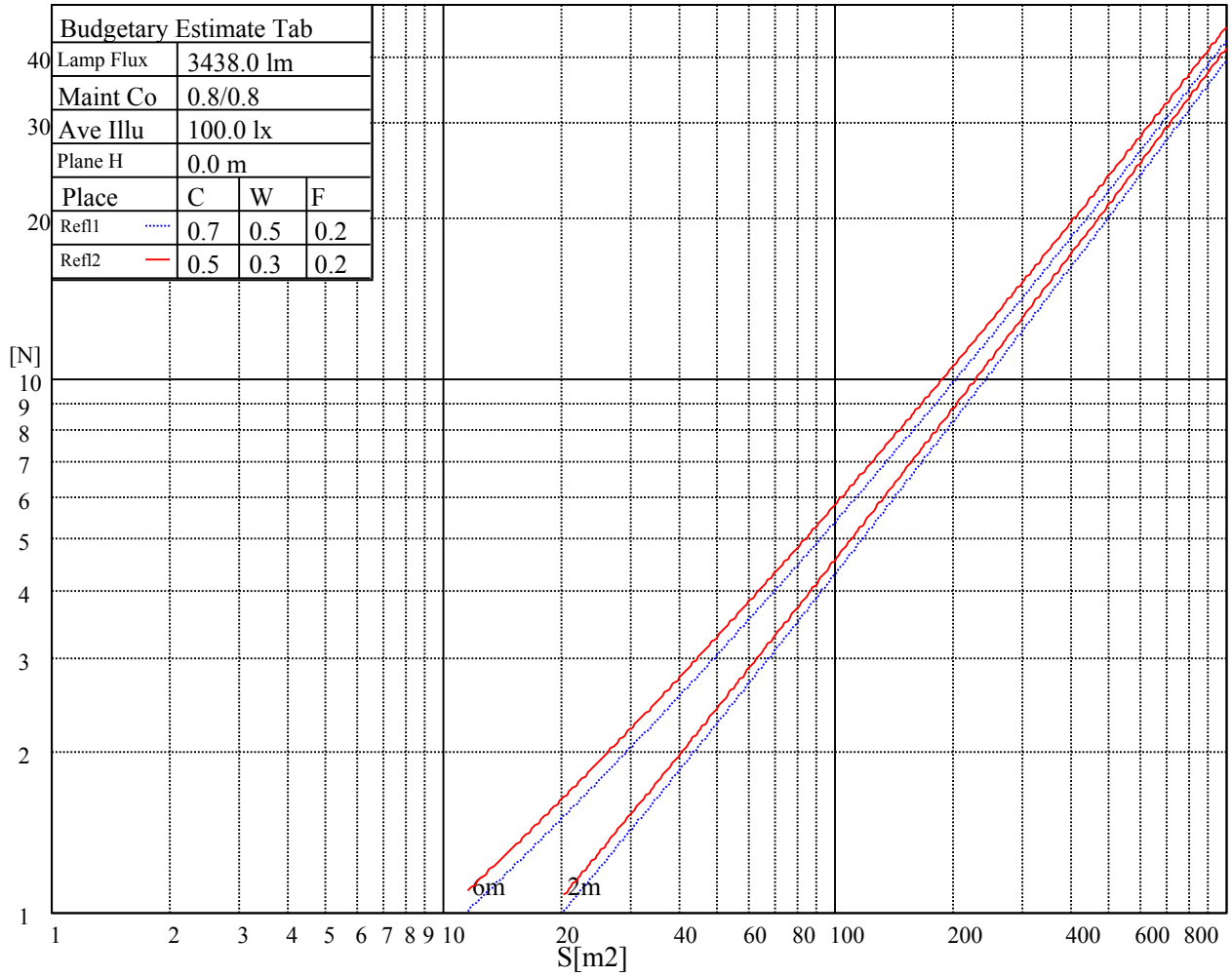
Date: 2024/4/03
Humidity(%): 60.0%

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

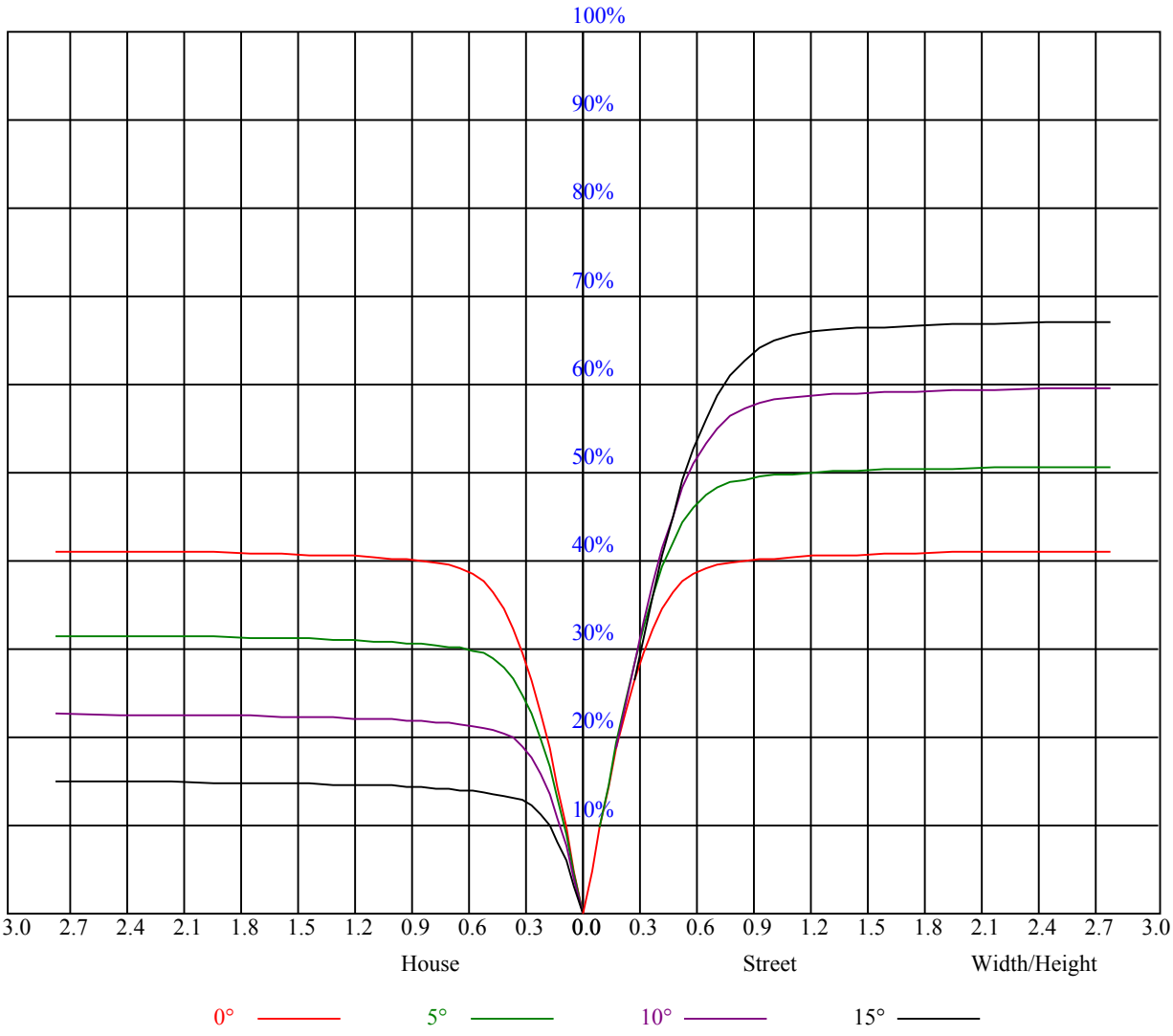


Equipment: GMS1980 Date: 2024/4/03 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

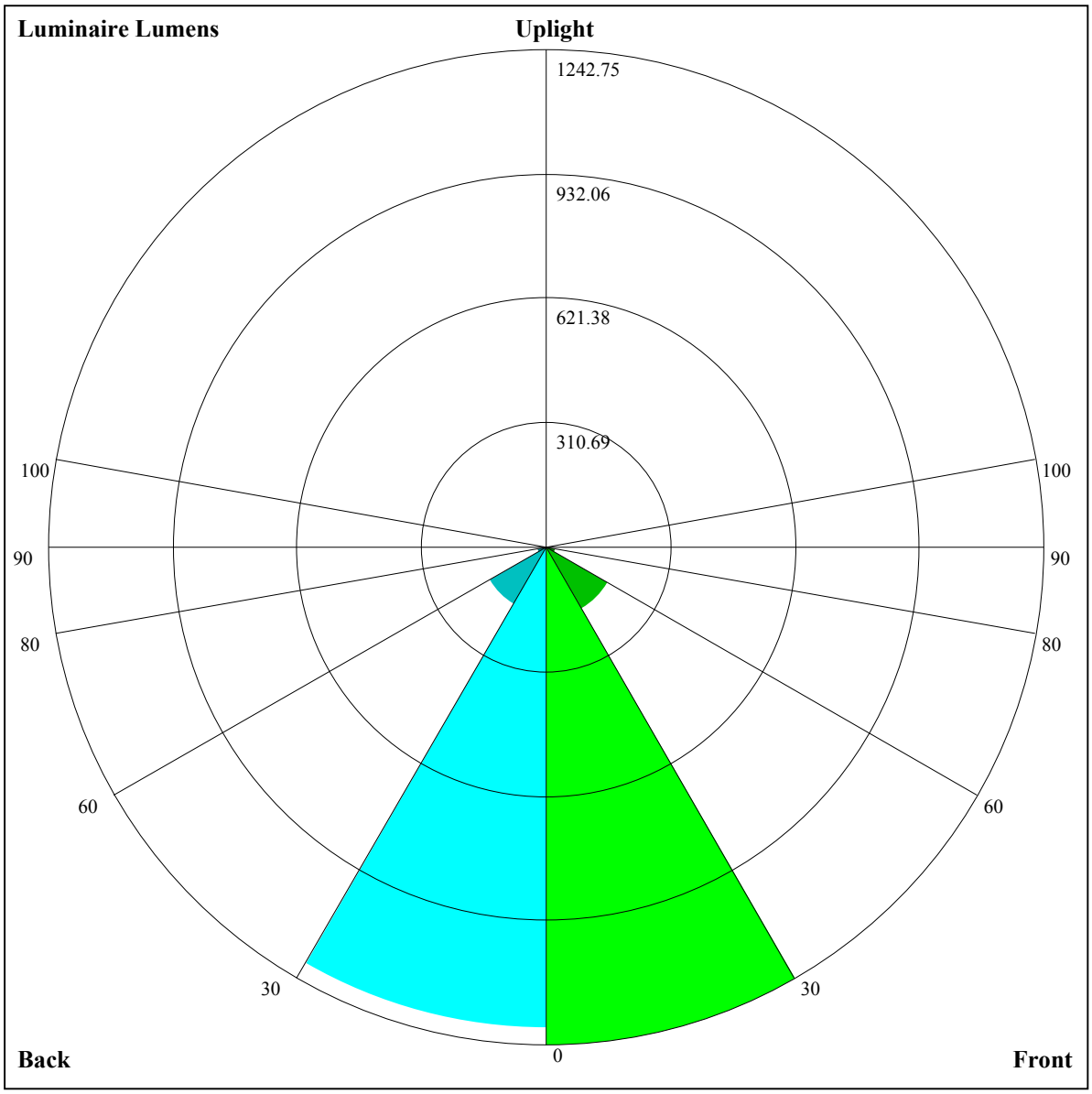
Utilization factor table for indoor luminaire

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	0.99	0.99	0.99	0.97	0.97	0.97	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.92	0.90	0.88	0.90	0.89	0.87	0.87	0.86	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.78
2	0.86	0.83	0.81	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.75	0.73
3	0.81	0.78	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.74	0.72	0.71	0.69
4	0.77	0.73	0.70	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.71	0.69	0.67	0.66
5	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
6	0.69	0.65	0.62	0.69	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.59
7	0.66	0.62	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.63	0.60	0.57	0.56
8	0.63	0.59	0.55	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.54
9	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.52	0.58	0.55	0.52	0.51
10	0.58	0.53	0.50	0.57	0.53	0.50	0.57	0.53	0.50	0.56	0.53	0.50	0.55	0.52	0.50	0.49

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/4/03	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1242.75,FM=177.44,FH=24.12,FVH=8.26
BL=1200.24,BM=164.42,BH=25.77,BVH=8.16
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	5309.80	5304.54	5295.76	5280.54	5247.19	5191.59	5147.70	5078.64	5001.98
45.0	5305.12	5302.20	5299.27	5292.25	5269.42	5227.87	5180.47	5101.46	5028.31
90.0	5304.54	5300.44	5279.96	5246.02	5206.22	5149.45	5055.82	4962.77	4857.43
135.0	5294.59	5292.83	5292.25	5271.18	5234.90	5177.54	5120.19	5015.44	4927.07
180.0	5309.80	5306.88	5301.61	5282.88	5226.70	5181.06	5114.34	5030.07	4932.92
225.0	5305.12	5301.61	5280.54	5252.45	5195.69	5128.97	5034.75	4942.87	4834.60
270.0	5304.54	5308.63	5305.71	5288.74	5262.99	5234.90	5174.03	5114.34	5041.77
315.0	5294.59	5292.83	5279.96	5265.91	5230.21	5187.49	5128.97	5063.43	4987.35
360.0	5309.80	5304.54	5295.76	5280.54	5247.19	5191.59	5147.70	5078.64	5001.98

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4879.08	4772.57	4645.57	4510.39	4317.26	4161.01	4001.24	3785.88	3622.02
45.0	4949.31	4843.38	4701.17	4550.77	4416.75	4223.63	4058.59	3853.18	3689.90
90.0	4711.12	4577.10	4431.97	4236.50	4078.49	3916.38	3712.73	3549.45	3379.73
135.0	4811.19	4698.24	4518.00	4367.01	4215.43	4051.57	3847.91	3680.54	3512.58
180.0	4799.49	4671.32	4528.53	4336.58	4180.91	4016.46	3846.74	3650.69	3482.73
225.0	4707.61	4549.60	4402.12	4252.30	4100.14	3900.00	3733.79	3572.86	3406.07
270.0	4933.51	4831.68	4715.80	4539.65	4392.17	4241.18	4070.30	3879.52	3717.99
315.0	4893.71	4749.74	4626.85	4482.88	4334.82	4136.43	3972.57	3762.47	3595.10
360.0	4879.08	4772.57	4645.57	4510.39	4317.26	4161.01	4001.24	3785.88	3622.02

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3415.43	3241.62	3065.47	2881.71	2645.86	2466.20	2291.21	2080.53	1896.19
45.0	3522.53	3356.91	3136.28	2957.79	2768.76	2587.92	2369.05	2199.33	2019.08
90.0	3211.19	2992.90	2812.06	2623.62	2391.87	2219.23	2047.18	1824.79	1628.74
135.0	3294.29	3125.16	2952.52	2727.21	2545.79	2372.56	2157.78	1982.80	1800.80
180.0	3278.49	3097.65	2918.58	2692.09	2526.47	2353.25	2176.51	1951.78	1773.29
225.0	3190.71	3016.89	2792.17	2618.36	2441.62	2226.84	2058.88	1885.07	1698.38
270.0	3552.96	3381.49	3160.86	2983.54	2807.97	2582.66	2396.55	2185.29	2018.50
315.0	3423.62	3203.58	3032.11	2854.20	2674.54	2456.83	2271.90	2105.70	1926.03
360.0	3415.43	3241.62	3065.47	2881.71	2645.86	2466.20	2291.21	2080.53	1896.19

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1701.89	1156.87	1156.87	1064.88	883.81	674.35	524.07	394.62	269.09
45.0	1828.89	1577.83	1377.09	1135.40	950.46	776.07	578.85	443.07	329.54
90.0	1135.57	1135.57	996.17	815.34	615.77	476.20	359.56	269.50	201.08
135.0	1604.75	1353.10	1159.39	970.36	798.31	598.74	462.39	346.51	298.52
180.0	1584.85	1390.55	1150.03	963.92	790.11	594.65	456.53	340.66	315.49
225.0	1119.07	1119.07	1070.49	887.44	676.99	526.12	395.67	267.74	204.30
270.0	1835.32	1596.55	1398.16	1198.01	1003.72	771.97	608.11	467.07	347.68
315.0	1700.14	1154.01	1154.01	1054.81	871.75	661.13	512.48	385.72	284.77
360.0	1701.89	1156.87	1156.87	1064.88	883.81	674.35	524.07	394.62	269.09

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	208.81	177.21	151.16	137.06	126.00	116.58	106.04	98.73	92.00
45.0	306.13	222.21	166.50	149.00	136.24	123.54	114.82	106.80	97.97
90.0	172.70	154.21	140.45	126.94	117.92	109.61	100.37	93.69	86.26
135.0	298.52	165.15	144.67	132.61	122.78	111.95	104.23	97.21	91.00
180.0	220.63	160.18	140.51	128.87	118.86	109.85	99.90	92.82	86.50
225.0	170.71	145.49	131.73	120.79	109.20	101.01	93.64	87.26	80.00
270.0	299.11	299.11	159.01	140.81	124.59	114.24	103.29	95.68	89.01
315.0	202.78	168.19	148.12	133.31	119.50	110.72	102.71	95.63	87.61
360.0	208.81	177.21	151.16	137.06	126.00	116.58	106.04	98.73	92.00

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	85.97	79.24	74.27	69.88	64.67	60.80	56.59	53.43	50.45
45.0	91.70	85.91	79.30	74.50	69.93	64.67	60.86	57.35	53.26
90.0	80.82	75.79	71.10	66.77	61.80	58.17	54.84	51.15	48.28
135.0	84.04	78.83	73.91	68.41	64.37	60.57	56.53	53.55	50.62
180.0	80.76	74.50	69.99	65.72	60.98	57.59	54.31	50.50	47.70
225.0	75.08	70.46	66.42	61.62	58.23	55.01	51.21	48.34	45.00
270.0	81.52	76.49	71.98	67.94	63.20	59.75	56.65	53.61	50.04
315.0	82.17	76.02	71.57	67.48	62.79	59.40	56.18	52.32	49.45
360.0	85.97	79.24	74.27	69.88	64.67	60.80	56.59	53.43	50.45

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	47.81	44.89	42.60	40.44	38.57	36.40	34.82	33.30	31.72
45.0	50.21	47.75	45.18	42.84	40.26	38.33	36.64	34.70	33.07
90.0	45.71	42.78	40.73	38.80	36.93	34.94	33.36	31.43	29.79
135.0	47.29	44.95	42.66	40.56	38.22	36.34	34.76	32.89	31.25
180.0	44.48	42.14	39.85	37.98	36.23	34.24	32.83	31.37	29.55
225.0	42.66	40.44	37.98	36.17	34.47	32.95	31.13	29.79	28.27
270.0	47.40	44.89	42.02	39.91	37.45	35.82	34.18	32.66	30.90
315.0	46.88	44.42	41.61	39.62	37.86	36.17	34.12	32.60	31.13
360.0	47.81	44.89	42.60	40.44	38.57	36.40	34.82	33.30	31.72

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	29.67	28.15	26.28	24.81	23.64	23.53	24.17	25.05	24.81
45.0	31.02	29.44	27.80	25.81	24.23	22.94	22.18	21.42	20.89
90.0	28.32	26.98	25.28	24.11	23.41	23.00	23.06	23.53	23.99
135.0	29.73	28.32	26.74	25.22	24.40	24.70	25.93	27.68	29.44
180.0	28.27	27.33	27.10	27.27	27.97	29.38	30.31	31.25	31.49
225.0	26.80	25.22	23.76	22.30	21.13	20.54	20.01	19.55	19.20
270.0	29.44	27.86	26.28	24.58	23.17	21.83	20.95	20.19	19.72
315.0	29.09	27.45	25.63	24.11	22.71	21.65	20.83	20.37	19.90
360.0	29.67	28.15	26.28	24.81	23.64	23.53	24.17	25.05	24.81

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	24.40	23.70	22.77	21.95	20.95	20.13	19.25	18.55	17.97
45.0	20.42	20.01	19.61	19.08	18.73	18.32	18.08	17.85	17.62
90.0	24.76	25.22	25.69	25.46	24.99	23.94	22.88	20.89	18.79
135.0	31.08	32.42	33.53	33.77	32.83	31.19	27.86	24.23	21.24
180.0	31.49	30.61	29.73	28.91	27.80	26.86	25.52	21.83	18.38
225.0	18.79	18.38	18.08	17.73	17.38	17.03	16.85	16.74	16.62
270.0	19.20	18.84	18.49	18.08	17.79	17.56	17.26	17.03	16.85
315.0	19.61	19.25	19.02	18.73	18.43	18.08	17.85	17.62	17.50
360.0	24.40	23.70	22.77	21.95	20.95	20.13	19.25	18.55	17.97

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	17.21	16.80	16.44	16.21	15.27	14.34	13.75	13.40	12.64
45.0	17.56	17.44	17.32	17.15	16.39	15.45	14.05	13.75	12.82
90.0	17.62	17.62	17.38	16.09	14.40	13.99	13.46	12.35	12.29
135.0	18.26	17.73	17.50	16.74	15.39	13.93	13.52	12.52	12.17
180.0	17.26	17.03	16.33	15.33	14.16	13.87	13.28	12.52	12.41
225.0	16.50	16.39	15.86	14.92	13.93	13.64	12.93	12.41	12.35
270.0	16.68	16.39	15.98	15.92	15.27	14.34	13.64	13.40	12.58
315.0	17.32	16.44	16.33	16.15	14.92	13.99	13.64	13.23	12.35
360.0	17.21	16.80	16.44	16.21	15.27	14.34	13.75	13.40	12.64

Intensity data(cd)

C/γ(°)	90.0
0.0	12.35
45.0	12.29
90.0	12.52
135.0	12.47
180.0	12.64
225.0	12.58
270.0	12.23
315.0	12.17
360.0	12.35