NATA LIGHTING CO .LED
www.nata.cn
Email:info@nata.cn
Tel:+86 0750-377 0000（10 lines） Fax:+86 0750-377 1111
Address:380 JinOu Road, JiangMen City, GuangDong, China 529040

NT

Client:
LumCAT: 2-2894-L
Luminaire: 92.70.411.00 LED HOLDER
Report No: 20250320-B004
Ballast type: AC

Test No: 20250320-C004	Voltage(V): 34.430
LampCAT: LUMILEDS LUXEON COB 1208	Current(A): 0.576
Lamp flux(lm): 2834.5	Power (W): 19.831
Number of Lamps: 1	PF: 0.000
Length(mm): 69	Width(mm): 69
Phm Type: C	Height(mm): 44

Photometric Results

Lumens(lm): 2739.39, Efficiency(%): 96.64% , Luminous Efficacy(lm/W): 138.14
Central intensity(cd): 14546.350, Maximum intensity(cd): 14563.910
Angle of maximum intensity: C=135.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=17.6
[C90/270]Total=17.6
Field angle(10%Imax): [C0/180]Total=47.0
[C90/270]Total=45.6
Maximum s/h(1/2): C0_180=0.30 C90_270=0.28
Maximum s/h(1/4): C0_180=0.33 C90_270=0.31
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.60%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.492%

Equipment: GMS1980	Date: 2024/3/29	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	14530.259	0.000	0	0.00%	0.00%
1.0	14416.140	13.850	13.85	0.49%	0.51%
2.0	14146.937	40.996	54.847	1.45%	2.00%
3.0	13498.076	66.118	120.965	2.33%	4.42%
4.0	12424.649	86.772	207.736	3.06%	7.58%
5.0	12018.649	105.154	312.89	3.71%	11.42%
6.0	10945.200	120.681	433.571	4.26%	15.83%
7.0	9709.278	128.202	561.773	4.52%	20.51%
8.0	8277.086	128.725	690.498	4.54%	25.21%
9.0	7019.291	123.969	814.467	4.37%	29.73%
10.0	5913.728	117.039	931.506	4.13%	34.00%
11.0	5046.937	109.520	1041.026	3.86%	38.00%
12.0	4395.142	103.215	1144.241	3.64%	41.77%
13.0	3911.454	98.578	1242.819	3.48%	45.37%
14.0	3471.657	94.503	1337.323	3.33%	48.82%
15.0	3129.959	90.630	1427.952	3.20%	52.13%
16.0	2845.686	87.560	1515.512	3.09%	55.32%
17.0	2716.424	86.617	1602.129	3.06%	58.48%
18.0	2362.531	83.741	1685.87	2.95%	61.54%
19.0	2105.040	77.727	1763.597	2.74%	64.38%
20.0	1924.132	73.745	1837.342	2.60%	67.07%
21.0	1771.315	70.960	1908.302	2.50%	69.66%
22.0	1622.010	68.190	1976.492	2.41%	72.15%
23.0	1489.968	65.298	2041.79	2.30%	74.53%
24.0	1330.202	61.659	2103.449	2.18%	76.79%
25.0	1232.082	58.261	2161.71	2.06%	78.91%
26.0	1164.422	56.570	2218.28	2.00%	80.98%
27.0	1090.735	55.173	2273.452	1.95%	82.99%
28.0	1017.055	53.365	2326.817	1.88%	84.94%
29.0	929.791	50.935	2377.752	1.80%	86.80%
30.0	834.019	47.623	2425.375	1.68%	88.54%
31.0	731.948	43.579	2468.953	1.54%	90.13%
32.0	637.537	39.234	2508.187	1.38%	91.56%
33.0	536.717	34.594	2542.781	1.22%	92.82%
34.0	448.231	29.807	2572.589	1.05%	93.91%
35.0	355.107	24.949	2597.538	0.88%	94.82%
36.0	284.573	20.368	2617.905	0.72%	95.57%
37.0	240.813	17.135	2635.04	0.60%	96.19%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	141.251	12.753	2647.793	0.45%	96.66%
39.0	75.355	7.393	2655.186	0.26%	96.93%
40.0	46.145	4.237	2659.424	0.15%	97.08%
41.0	35.157	2.895	2662.319	0.10%	97.19%
42.0	31.412	2.419	2664.738	0.09%	97.27%
43.0	29.027	2.239	2666.976	0.08%	97.36%
44.0	27.425	2.131	2669.107	0.08%	97.43%
45.0	26.013	2.054	2671.161	0.07%	97.51%
46.0	24.733	1.985	2673.145	0.07%	97.58%
47.0	23.511	1.919	2675.064	0.07%	97.65%
48.0	22.509	1.860	2676.925	0.07%	97.72%
49.0	21.639	1.813	2678.738	0.06%	97.79%
50.0	20.732	1.767	2680.504	0.06%	97.85%
51.0	19.920	1.720	2682.224	0.06%	97.91%
52.0	19.210	1.679	2683.903	0.06%	97.97%
53.0	18.676	1.648	2685.551	0.06%	98.03%
54.0	18.222	1.626	2687.177	0.06%	98.09%
55.0	17.813	1.609	2688.786	0.06%	98.15%
56.0	17.520	1.597	2690.383	0.06%	98.21%
57.0	17.264	1.590	2691.973	0.06%	98.27%
58.0	17.081	1.588	2693.561	0.06%	98.33%
59.0	17.001	1.593	2695.155	0.06%	98.39%
60.0	16.950	1.604	2696.759	0.06%	98.44%
61.0	16.833	1.612	2698.371	0.06%	98.50%
62.0	16.686	1.615	2699.986	0.06%	98.56%
63.0	16.416	1.610	2701.596	0.06%	98.62%
64.0	16.050	1.593	2703.189	0.06%	98.68%
65.0	15.604	1.566	2704.755	0.06%	98.74%
66.0	15.070	1.530	2706.286	0.05%	98.79%
67.0	14.536	1.489	2707.774	0.05%	98.85%
68.0	14.192	1.455	2709.23	0.05%	98.90%
69.0	13.950	1.436	2710.665	0.05%	98.95%
70.0	13.731	1.422	2712.087	0.05%	99.00%
71.0	13.606	1.413	2713.5	0.05%	99.05%
72.0	13.475	1.408	2714.908	0.05%	99.11%
73.0	13.365	1.404	2716.312	0.05%	99.16%
74.0	13.255	1.400	2717.711	0.05%	99.21%
75.0	13.146	1.395	2719.106	0.05%	99.26%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.065	1.391	2720.497	0.05%	99.31%
77.0	12.977	1.388	2721.886	0.05%	99.36%
78.0	12.875	1.384	2723.27	0.05%	99.41%
79.0	12.802	1.380	2724.649	0.05%	99.46%
80.0	12.707	1.375	2726.025	0.05%	99.51%
81.0	12.634	1.370	2727.395	0.05%	99.56%
82.0	12.546	1.365	2728.76	0.05%	99.61%
83.0	12.443	1.358	2730.119	0.05%	99.66%
84.0	12.356	1.351	2731.47	0.05%	99.71%
85.0	12.268	1.344	2732.814	0.05%	99.76%
86.0	12.158	1.335	2734.149	0.05%	99.81%
87.0	12.056	1.325	2735.474	0.05%	99.86%
88.0	11.968	1.316	2736.79	0.05%	99.91%
89.0	11.843	1.305	2738.095	0.05%	99.95%
90.0	11.770	1.295	2739.39	0.05%	100.00%

Zonal flux distribution table

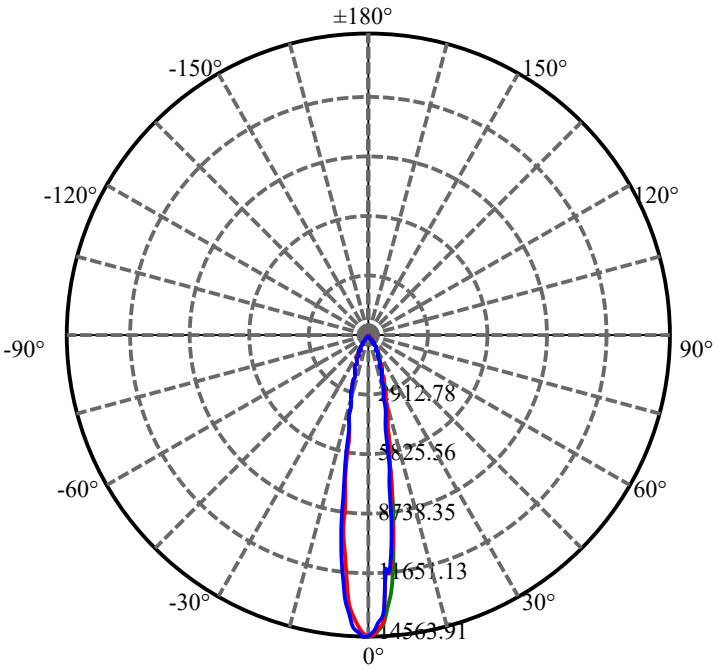
ZONAL LUMEN SUMMARY

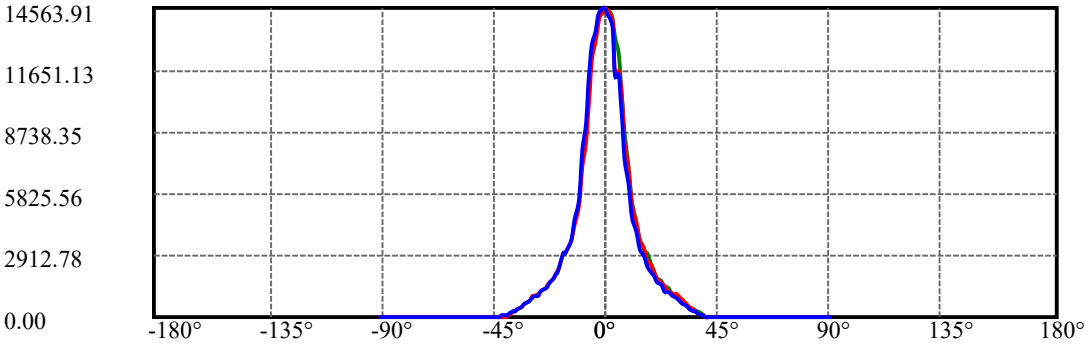
Zone	Lumens	%Lamp	%Fixt
0-30	2425.37	85.57%	88.54%
0-40	2659.42	93.82%	97.08%
0-60	2696.76	95.14%	98.44%
0-90	2738.10	96.60%	99.95%
0-120	2738.10	96.60%	99.95%
0-180	2739.39	96.64%	100.00%
60-90	41.34	1.46%	1.51%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.53	2191.51	77.32%	80.00%

ZONAL LUMEN SUMMARY

0-10	931.51
10-20	905.84
20-30	588.03
30-40	234.05
40-50	21.08
50-60	16.25
60-70	15.33
70-80	13.94
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]





C135(Max):

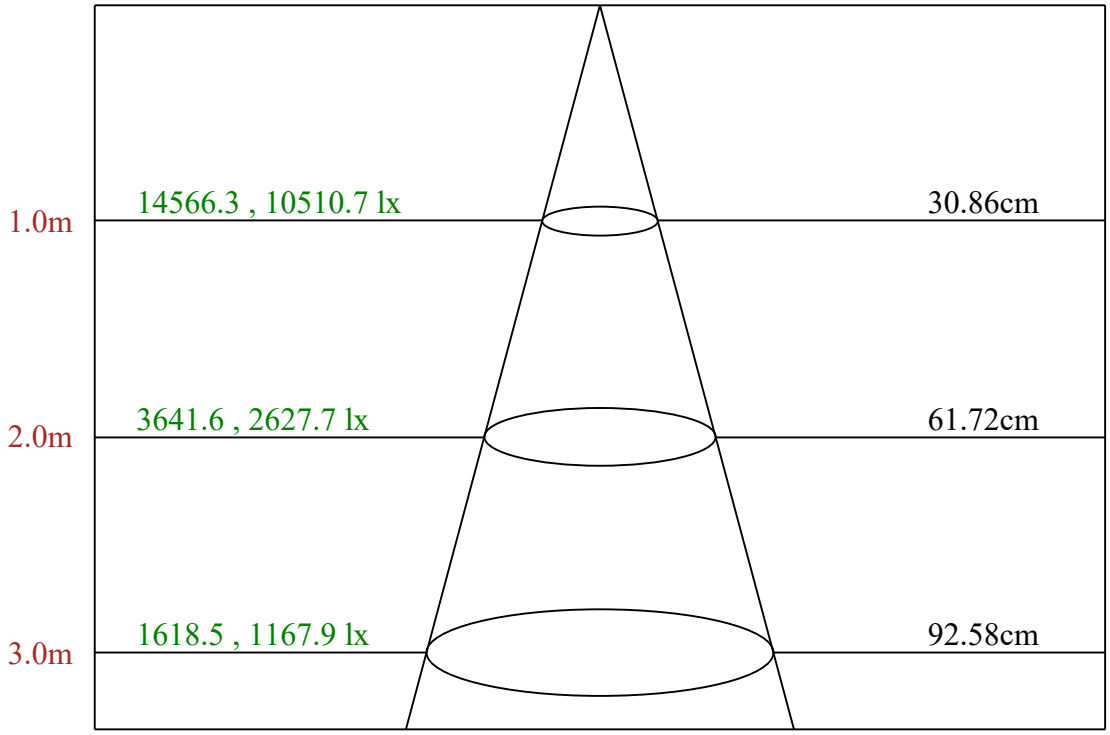
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:23.4 Right:23.6
:C90/270Left:23.2 Right:22.4

Beam Angle(50%Imax):C0/180Left:8.8 Right:8.8
:C90/270Left:9.4 Right:8.2

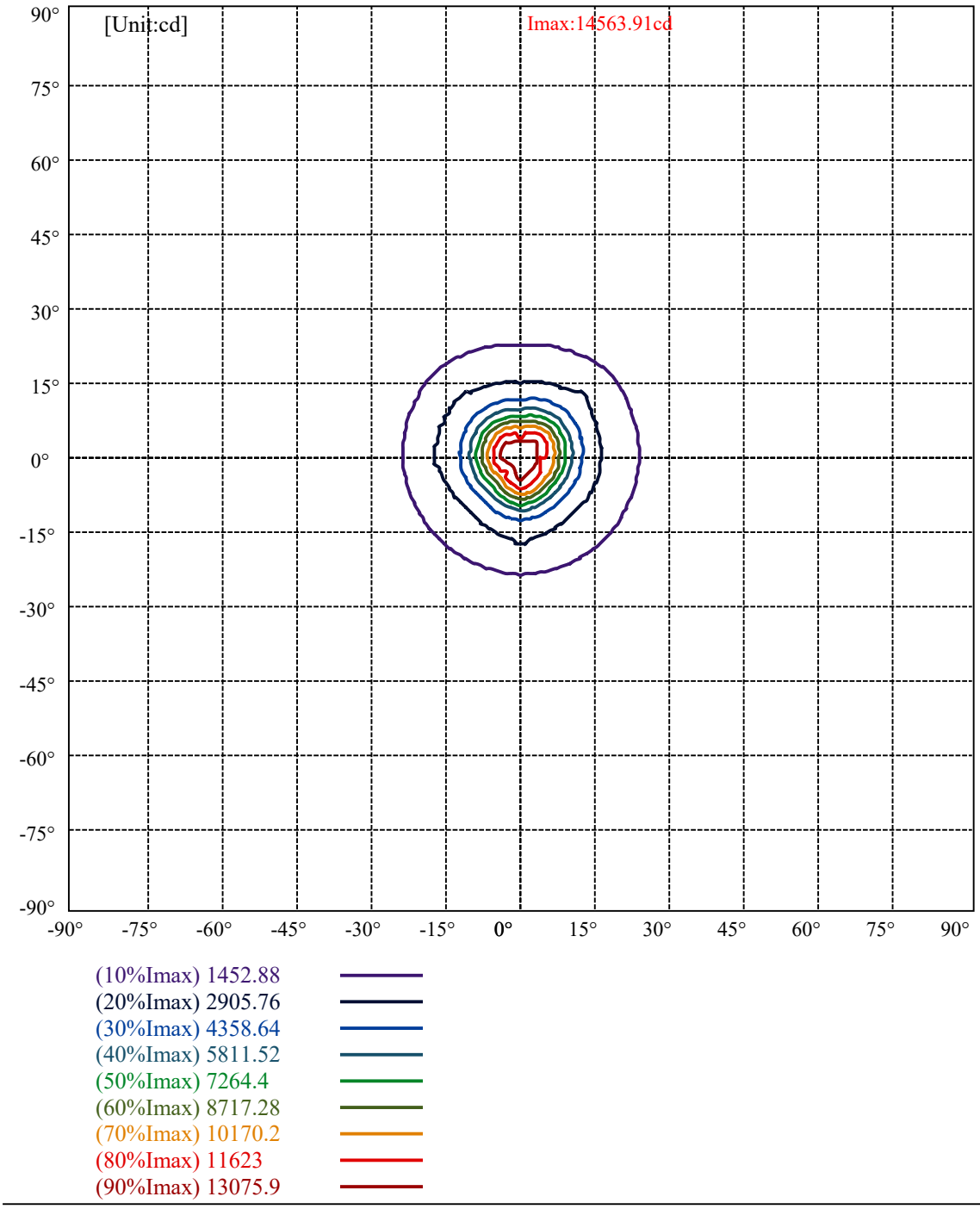
Lux distance Curve



Max , Ave

Beam angle of C135 plane 17.54

ISO-Intensity(V-H)



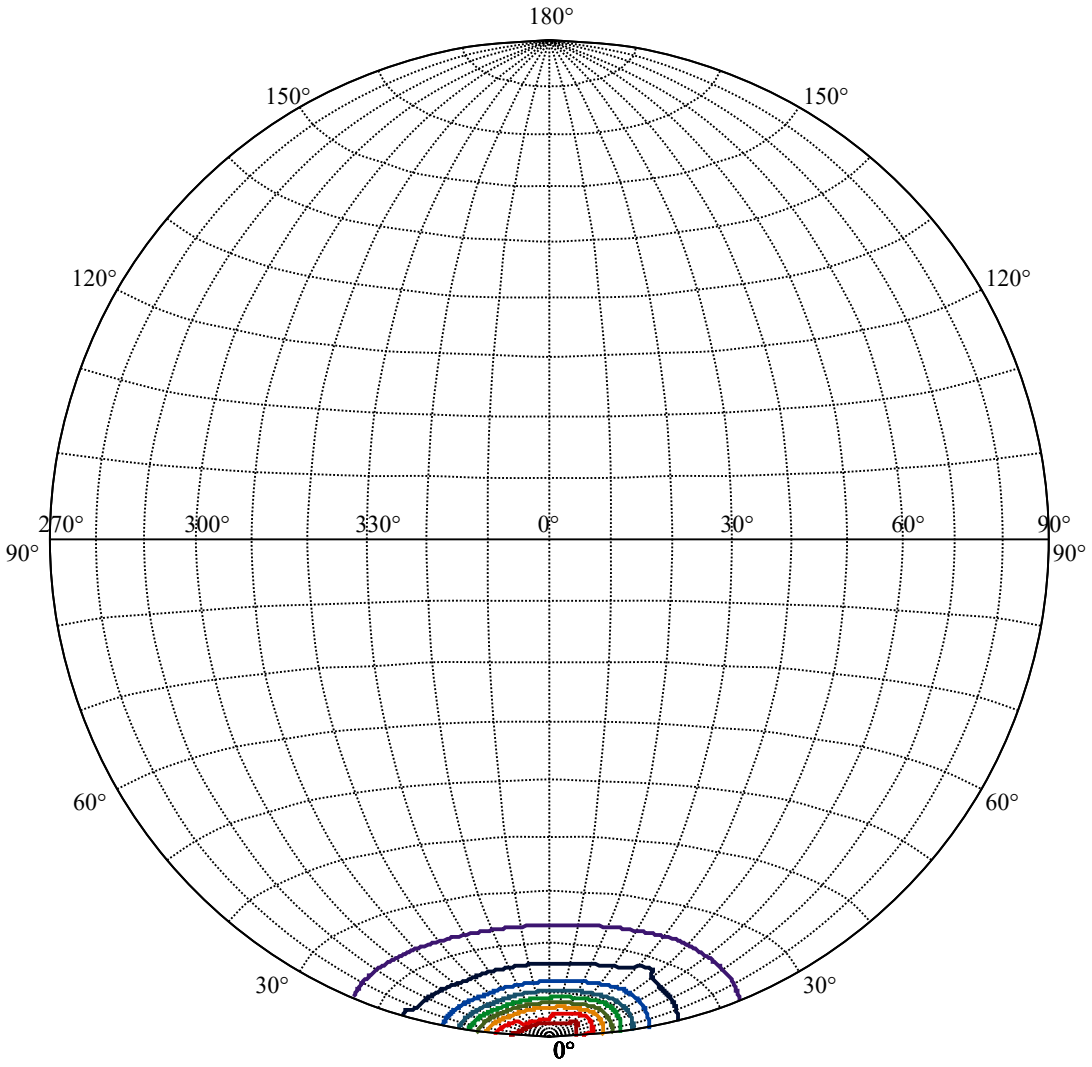
(10%Imax) 1452.88
(20%Imax) 2905.76
(30%Imax) 4358.64
(40%Imax) 5811.52
(50%Imax) 7264.4
(60%Imax) 8717.28
(70%Imax) 10170.2
(80%Imax) 11623
(90%Imax) 13075.9

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/29
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

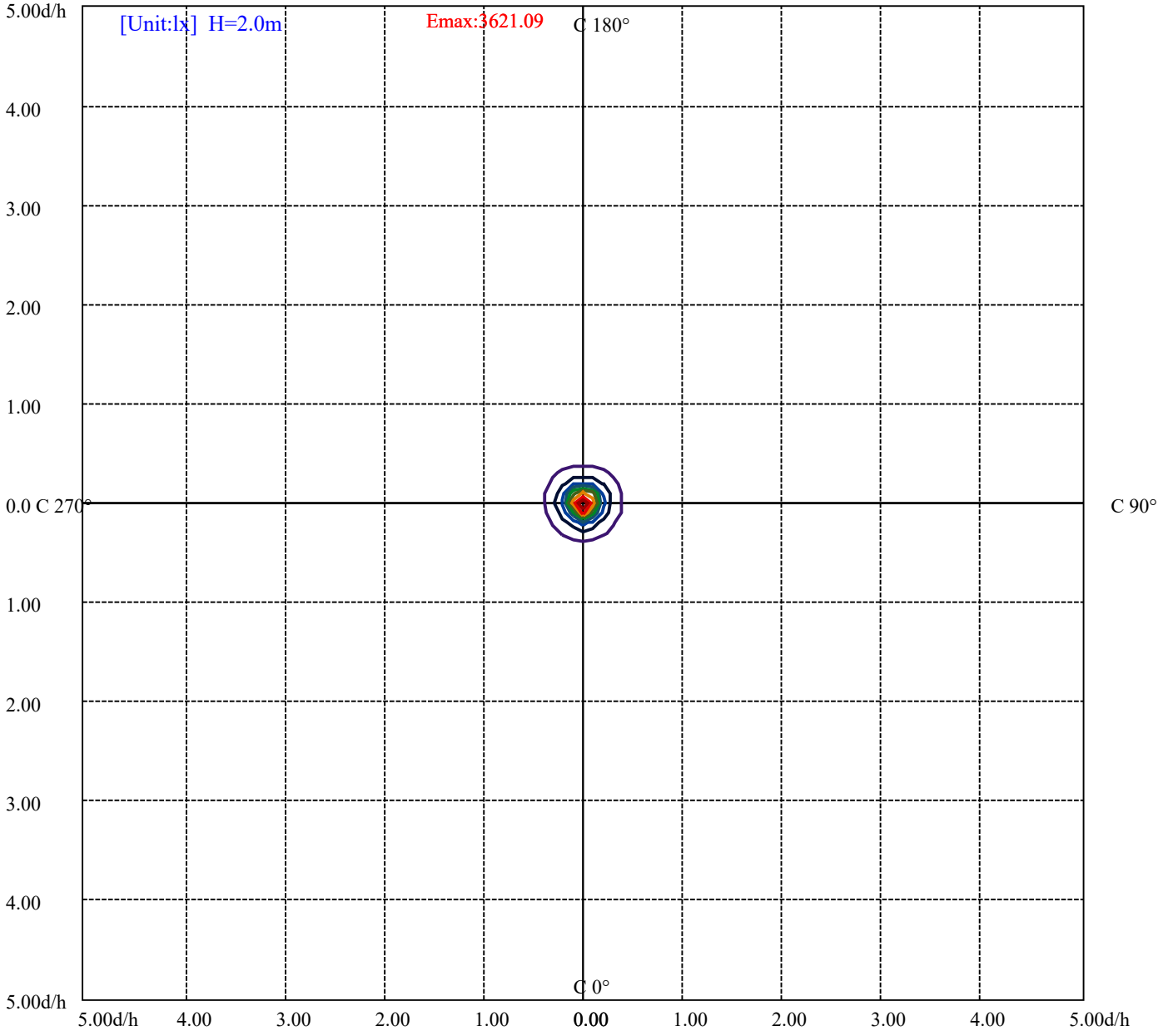
Imax:14563.91

(10%Imax) 1456.63
(20%Imax) 2913.25
(30%Imax) 4369.88
(40%Imax) 5826.5
(50%Imax) 7283.13
(60%Imax) 8739.75
(70%Imax) 10196.4
(80%Imax) 11653
(90%Imax) 13109.6

Equipment: GMS1980 Date: 2024/3/29 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

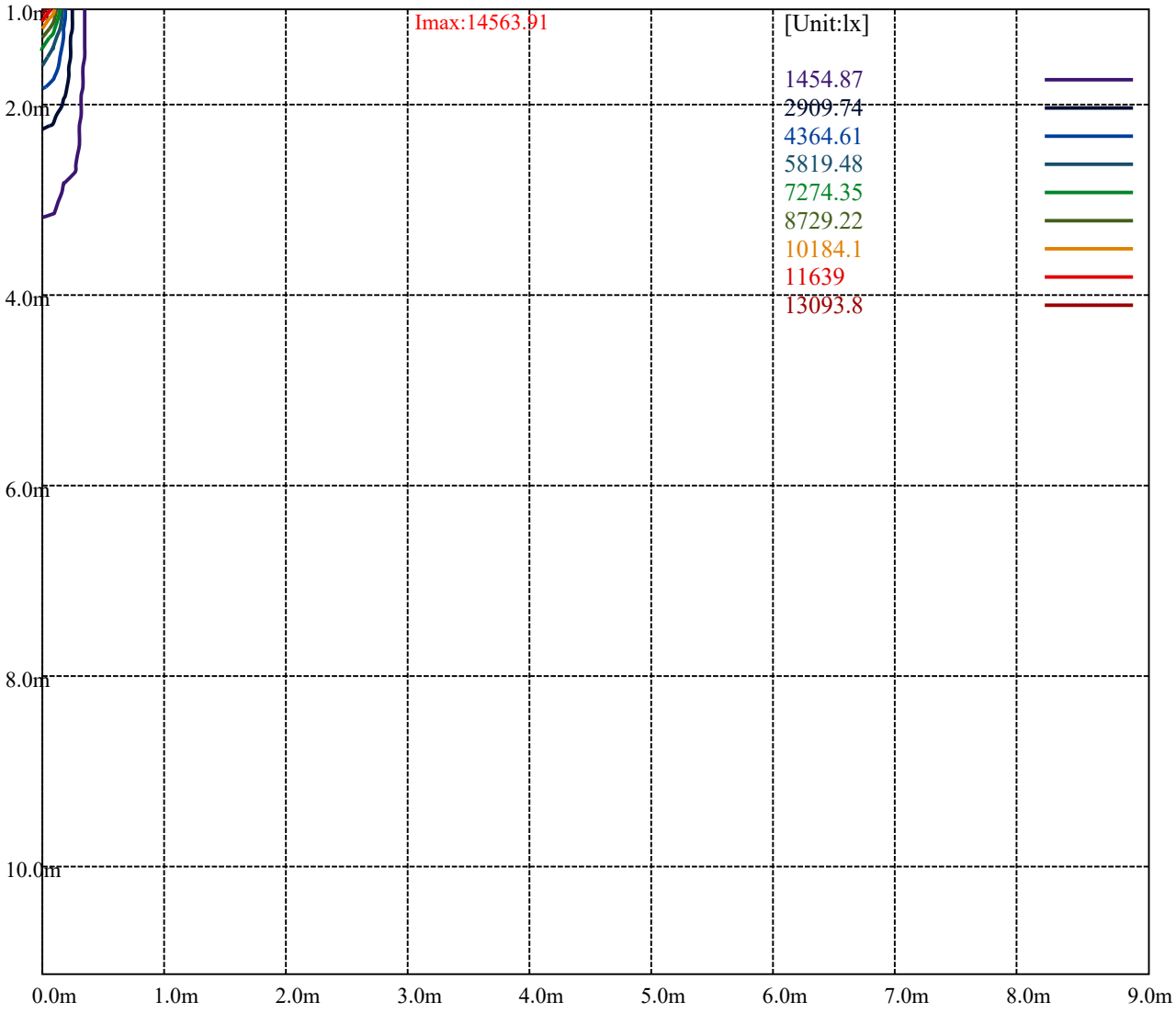
NT 2-2894-L

ISO illuminance diagram



Equipment: GMS1980	Date: 2024/3/29	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/29
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 2-2894-L

Luminance Limitting Curve(no luminous side)

Luminance Table

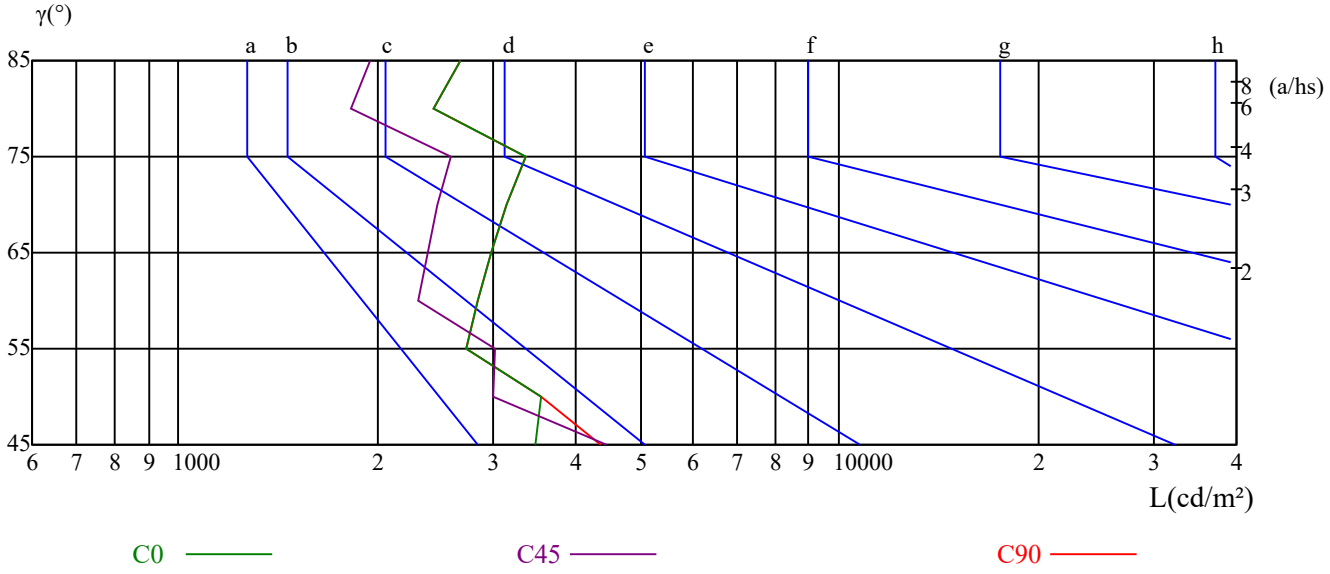
γ	45	50	55	60	65	70	75	80	85
C0	3476	3545	2734	2836	2970	3141	3361	2430	2675
C45	4457	2986	3023	2313	2380	2470	2588	1826	1956
C90	4345	3545	2734	2836	2970	3141	3361	2430	2675

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7385	7385	7385	12059	12059	12059	23875	23875	23875

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

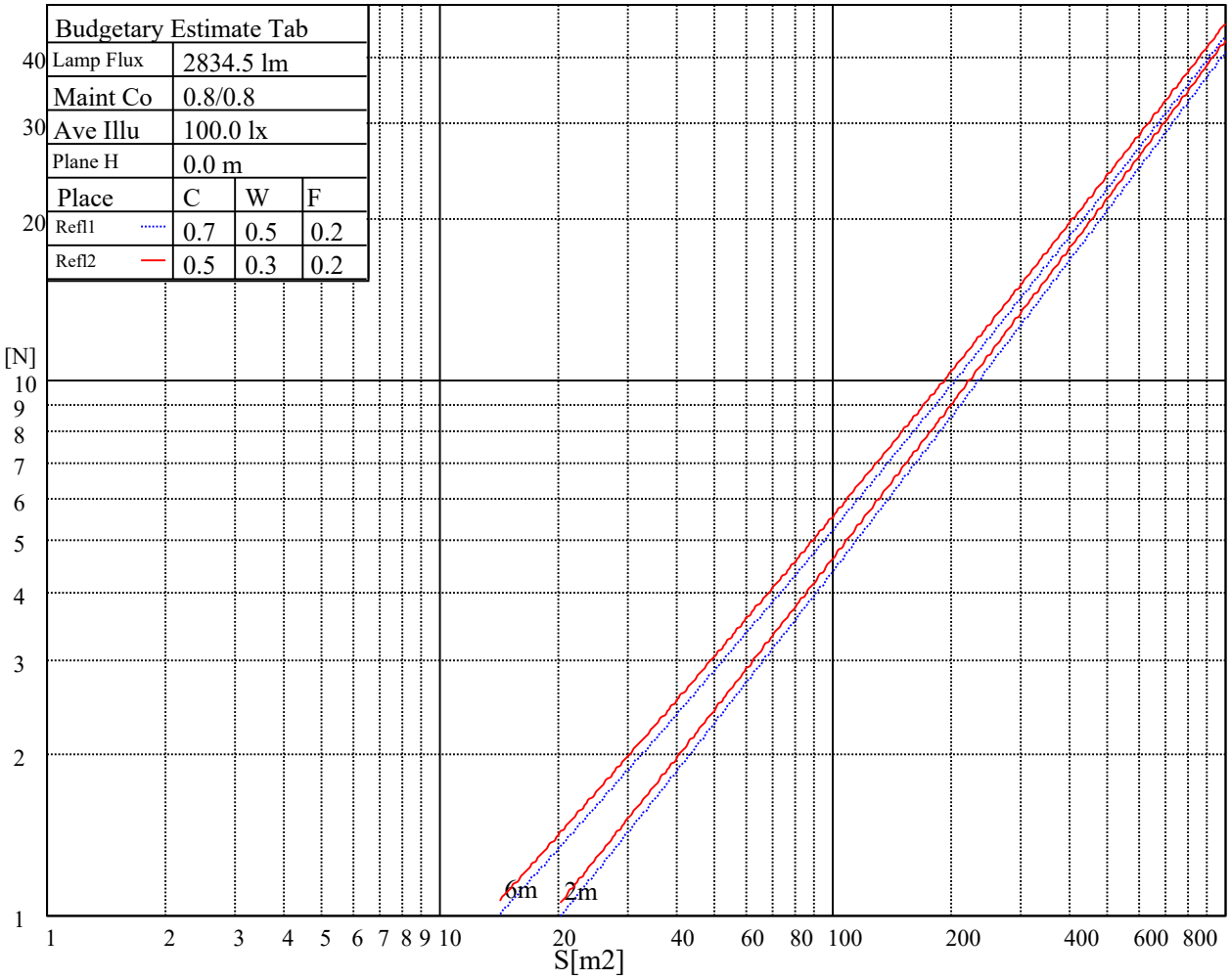
Date: 2024/3/29
Humidity(%): 60.0%

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

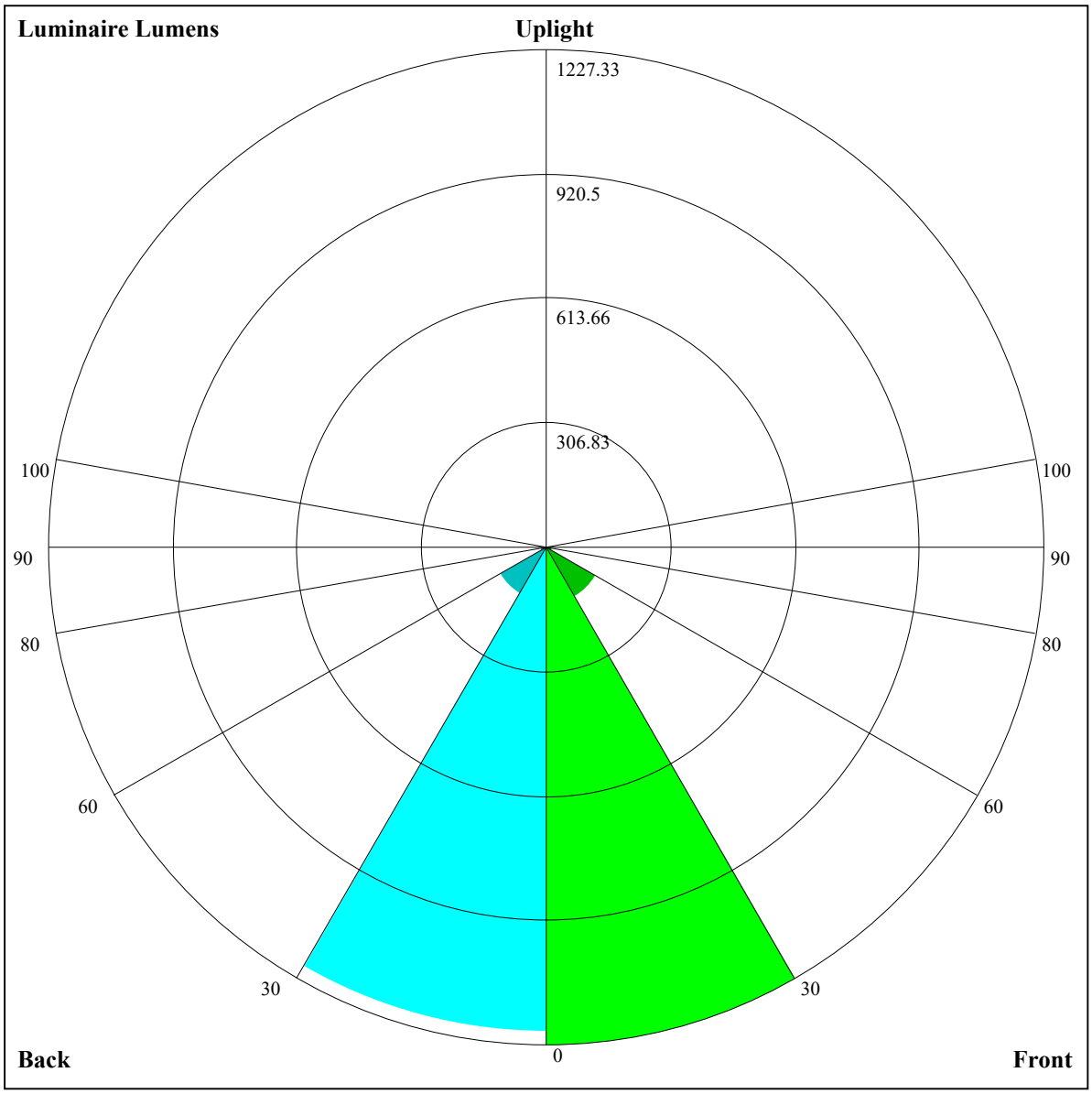
Budgetary Estimate Table



Equipment: GMS1980 Date: 2024/3/29 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	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.03	1.03	1.03	0.99	0.99	0.99	0.97
1	1.08	1.06	1.04	1.06	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.92
2	1.03	0.99	0.97	1.01	0.98	0.96	0.98	0.96	0.94	0.95	0.93	0.92	0.93	0.91	0.90	0.88
3	0.98	0.94	0.91	0.96	0.93	0.90	0.94	0.91	0.89	0.92	0.89	0.87	0.90	0.88	0.86	0.85
4	0.93	0.89	0.86	0.92	0.88	0.85	0.90	0.87	0.84	0.88	0.86	0.83	0.87	0.84	0.83	0.81
5	0.89	0.85	0.82	0.89	0.85	0.81	0.87	0.83	0.81	0.85	0.82	0.80	0.84	0.82	0.79	0.78
6	0.86	0.81	0.78	0.85	0.81	0.78	0.84	0.80	0.78	0.83	0.79	0.77	0.82	0.79	0.77	0.75
7	0.83	0.78	0.75	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.73
8	0.80	0.76	0.72	0.79	0.75	0.72	0.78	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.72	0.71
9	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.75	0.72	0.69	0.68
10	0.75	0.71	0.68	0.74	0.70	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.73	0.69	0.67	0.66



Luminaire Lumens:
FL=1227.33,FM=140.88,FH=14.81,FVH=6.73
BL=1196.18,BM=132.14,BH=14.66,BVH=6.68
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	14546.35	14476.13	14160.10	13715.33	11591.02	11591.02	11051.45	9845.30	8262.27
45.0	14481.98	14534.65	14400.05	14113.29	13516.36	12831.64	11942.10	10841.88	9296.88
90.0	14528.80	14271.30	13914.31	13370.05	11416.04	11416.04	10253.79	8970.39	7436.51
135.0	14563.91	14517.09	14294.71	13926.01	13206.19	12410.28	11140.34	9928.93	8658.99
180.0	14546.35	14382.49	14095.73	13598.29	12983.80	12152.78	10806.76	9525.12	8225.92
225.0	14481.98	14218.63	13814.82	11520.80	11520.80	11245.74	9678.51	8351.22	7111.71
270.0	14528.80	14522.94	14400.05	14089.88	13510.50	12849.20	11942.10	10783.36	9144.73
315.0	14563.91	14405.90	14095.73	13650.96	11652.47	11652.47	10746.55	9428.03	8079.67
360.0	14546.35	14476.13	14160.10	13715.33	11591.02	11591.02	11051.45	9845.30	8262.27

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7090.64	6071.18	5257.72	4498.10	4039.87	3647.18	3293.70	2913.31	2649.96
45.0	8056.21	6915.02	5680.19	4972.07	4421.96	3848.44	3468.04	3052.53	2970.60
90.0	6343.90	5442.07	4596.42	4073.22	3648.94	3198.31	2879.95	2608.41	2375.49
135.0	7166.67	6142.52	5323.21	4544.86	4053.27	3637.76	3280.77	2964.75	2964.75
180.0	7073.03	5844.06	5077.41	4363.44	3924.52	3544.12	3140.32	2999.86	2999.86
225.0	6048.36	5009.58	4400.37	3931.60	3534.82	3111.70	2829.04	2576.22	2355.00
270.0	7845.53	6335.65	5370.02	4632.64	3965.48	3538.27	3198.84	2964.75	2964.75
315.0	6530.00	5549.75	4670.15	4145.21	3702.78	3247.47	2949.01	2685.66	2450.98
360.0	7090.64	6071.18	5257.72	4498.10	4039.87	3647.18	3293.70	2913.31	2649.96

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2416.45	2164.81	1985.73	1824.79	1648.64	1523.98	1410.45	1154.47	1154.47
45.0	2970.60	2293.56	2061.22	1899.70	1752.22	1621.72	1472.48	1368.31	1275.26
90.0	2124.43	1954.71	1794.94	1659.17	1502.33	1383.53	1160.38	1160.38	1086.59
135.0	2417.04	2217.48	1999.77	1840.01	1696.04	1565.54	1421.57	1314.47	1202.70
180.0	2333.35	2126.18	1965.83	1814.84	1628.15	1498.82	1387.04	1285.80	1179.87
225.0	2111.55	1950.03	1769.19	1642.79	1525.15	1387.04	1164.83	1164.83	1124.86
270.0	2334.52	2113.89	1948.27	1765.68	1628.15	1481.85	1347.25	1240.74	1143.59
315.0	2192.31	2019.67	1868.10	1723.55	1595.38	1457.27	1277.60	1167.64	1148.04
360.0	2416.45	2164.81	1985.73	1824.79	1648.64	1523.98	1410.45	1154.47	1154.47

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1120.06	1054.28	959.36	867.36	770.98	676.70	561.64	467.71	382.15
45.0	1191.58	1107.30	1043.51	969.78	855.66	762.02	642.05	550.17	461.80
90.0	1010.74	939.81	858.70	748.27	661.25	570.71	485.09	401.93	304.38
135.0	1128.37	1059.32	956.32	862.68	769.04	675.41	563.63	474.09	388.06
180.0	1107.89	1037.66	955.73	834.59	735.10	618.64	527.93	438.98	333.05
225.0	1045.33	963.87	867.71	771.50	653.81	562.23	469.12	385.02	285.59
270.0	1040.00	976.21	888.43	803.57	715.79	633.27	533.20	445.41	365.82
315.0	1081.91	997.98	908.56	814.40	693.96	601.32	511.08	422.53	320.00
360.0	1120.06	1054.28	959.36	867.36	770.98	676.70	561.64	467.71	382.15

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	283.37	212.09	128.63	74.79	41.32	29.09	26.45	23.94	22.77
45.0	372.85	311.40	311.40	129.28	75.73	44.36	33.53	30.61	28.27
90.0	232.57	165.44	97.73	60.22	44.13	38.92	35.99	33.94	32.13
135.0	307.89	307.89	138.58	82.17	42.25	33.12	29.90	27.68	26.28
180.0	313.74	313.74	117.81	57.12	33.42	26.98	24.99	23.29	22.36
225.0	210.80	128.40	75.20	45.24	32.83	30.37	28.56	26.86	25.57
270.0	309.06	309.06	143.20	96.85	62.21	45.41	41.84	38.68	36.17
315.0	246.32	178.49	117.45	57.18	37.28	33.01	30.02	27.21	25.87
360.0	283.37	212.09	128.63	74.79	41.32	29.09	26.45	23.94	22.77

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	21.65	20.66	19.84	19.25	18.67	17.91	17.32	16.85	16.39
45.0	26.74	25.46	24.17	22.71	21.89	20.89	20.19	19.61	19.08
90.0	30.37	28.97	27.27	26.04	24.99	23.76	22.71	21.89	21.19
135.0	24.58	23.29	22.12	21.07	20.25	19.31	18.73	18.14	17.73
180.0	21.54	20.60	19.78	19.08	18.43	18.02	17.38	16.80	16.33
225.0	24.52	23.47	22.65	21.83	21.30	20.48	19.66	19.20	18.84
270.0	34.29	32.01	30.26	28.85	27.10	25.69	24.29	23.00	22.06
315.0	24.40	23.41	22.00	21.24	20.48	19.78	19.08	18.20	17.79
360.0	21.65	20.66	19.84	19.25	18.67	17.91	17.32	16.85	16.39

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	16.04	15.74	15.63	15.39	15.16	15.04	14.98	14.98	14.92
45.0	18.67	18.26	17.97	18.02	18.02	17.97	18.32	18.49	18.32
90.0	20.89	20.07	19.55	18.84	18.55	18.38	18.14	17.73	17.38
135.0	17.26	17.03	16.80	16.50	16.21	16.15	16.33	16.33	16.27
180.0	16.04	15.80	15.51	15.33	15.22	15.16	15.16	15.16	15.10
225.0	18.43	18.14	18.08	18.02	18.02	18.08	17.67	17.38	17.15
270.0	21.01	20.37	19.84	19.37	19.02	18.84	18.43	17.97	17.56
315.0	17.44	17.09	16.80	16.62	16.44	16.39	16.56	16.62	16.80
360.0	16.04	15.74	15.63	15.39	15.16	15.04	14.98	14.98	14.92

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.86	14.75	14.63	14.40	14.28	14.10	13.81	13.64	13.52
45.0	18.14	18.02	17.09	16.27	15.22	14.40	14.05	13.69	13.58
90.0	16.97	16.15	15.74	14.92	14.46	14.22	14.10	14.05	13.99
135.0	16.09	15.92	15.57	15.04	14.57	14.16	13.87	13.52	13.40
180.0	15.10	15.04	14.92	14.69	14.46	14.34	14.16	13.87	13.58
225.0	16.39	15.74	15.10	14.40	13.93	13.69	13.58	13.46	13.40
270.0	17.21	16.50	15.86	15.39	14.63	14.40	14.22	14.10	14.05
315.0	16.56	16.27	15.92	15.45	14.75	14.22	13.81	13.52	13.34
360.0	14.86	14.75	14.63	14.40	14.28	14.10	13.81	13.64	13.52

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.28	13.17	12.99	12.87	12.82	12.70	12.58	12.52	12.47
45.0	13.52	13.46	13.34	13.23	13.17	13.05	12.93	12.87	12.76
90.0	13.93	13.93	13.87	13.81	13.75	13.69	13.58	13.46	13.28
135.0	13.28	13.11	12.99	12.87	12.76	12.70	12.64	12.58	12.47
180.0	13.28	13.11	12.99	12.82	12.70	12.58	12.52	12.47	12.41
225.0	13.34	13.17	13.11	12.99	12.87	12.76	12.70	12.64	12.58
270.0	13.93	13.93	13.81	13.75	13.69	13.64	13.46	13.34	13.23
315.0	13.23	13.05	12.93	12.82	12.76	12.70	12.58	12.52	12.47
360.0	13.28	13.17	12.99	12.87	12.82	12.70	12.58	12.52	12.47

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.41	12.35	12.29	12.23	12.23	12.17	12.06	12.00	11.88
45.0	12.70	12.70	12.58	12.52	12.47	12.35	12.29	12.11	12.06
90.0	13.17	12.99	12.82	12.52	12.41	12.17	12.06	12.00	11.82
135.0	12.41	12.35	12.35	12.29	12.23	12.17	12.06	12.00	11.88
180.0	12.35	12.29	12.17	12.17	12.06	12.00	11.94	11.88	11.70
225.0	12.52	12.41	12.29	12.23	12.11	11.94	11.88	11.76	11.70
270.0	13.11	12.93	12.76	12.58	12.41	12.29	12.11	12.00	11.88
315.0	12.41	12.35	12.29	12.29	12.23	12.17	12.06	12.00	11.82
360.0	12.41	12.35	12.29	12.23	12.23	12.17	12.06	12.00	11.88

Intensity data(cd)

C/γ(°)	90.0
0.0	11.76
45.0	11.94
90.0	11.76
135.0	11.76
180.0	11.65
225.0	11.70
270.0	11.76
315.0	11.82
360.0	11.76