NATA LIGHTING CO .LED
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Address:380 JinOu Road, JiangMen City, GuangDong, China 529040

NT

Client: NT
LumCAT: 2-2881-L2
Luminaire: 92.70.411.00 LED HOLDER
Report No: 20250319-B003
Ballast type: AC

Test No: 20250319-C003	Voltage(V): 34.610
LampCAT: LUMILEDS LUXEON COB 1208	Current(A): 0.661
Lamp flux(lm): 3049.2	Power (W): 22.877
Number of Lamps: 1	PF: 0.000
Length(mm): 75	Width(mm): 75
Phm Type: C	Height(mm): 52

Photometric Results

Lumens(lm): 2936.88, Efficiency(%): 96.32% , Luminous Efficacy(lm/W): 128.38
Central intensity(cd): 16108.900, Maximum intensity(cd): 16108.900
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=18.0
[C90/270]Total=18.0
Field angle(10%Imax): [C0/180]Total=46.1
[C90/270]Total=45.3
Maximum s/h(1/2): C0_180=0.31 C90_270=0.30
Maximum s/h(1/4): C0_180=0.34 C90_270=0.33
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.26%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.410%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	16032.824	0.000	0	0.00%	0.00%
1.0	15917.242	15.288	15.288	0.50%	0.52%
2.0	15597.563	45.233	60.521	1.48%	2.06%
3.0	15043.794	73.284	133.805	2.40%	4.56%
4.0	13920.681	96.953	230.758	3.18%	7.86%
5.0	12573.881	113.978	344.736	3.74%	11.74%
6.0	11848.129	128.344	473.08	4.21%	16.11%
7.0	10634.811	139.551	612.632	4.58%	20.86%
8.0	9309.789	142.740	755.371	4.68%	25.72%
9.0	8078.621	140.924	896.295	4.62%	30.52%
10.0	6945.260	135.961	1032.256	4.46%	35.15%
11.0	6004.291	129.393	1161.648	4.24%	39.55%
12.0	5220.309	122.701	1284.349	4.02%	43.73%
13.0	4591.046	116.436	1400.785	3.82%	47.70%
14.0	4017.891	110.194	1510.979	3.61%	51.45%
15.0	3594.335	104.504	1615.483	3.43%	55.01%
16.0	3215.548	99.784	1715.267	3.27%	58.40%
17.0	2904.135	95.300	1810.567	3.13%	61.65%
18.0	2711.742	92.594	1903.16	3.04%	64.80%
19.0	2453.307	89.861	1993.022	2.95%	67.86%
20.0	2131.375	83.912	2076.934	2.75%	70.72%
21.0	1926.619	77.922	2154.856	2.56%	73.37%
22.0	1755.807	74.000	2228.856	2.43%	75.89%
23.0	1596.479	70.340	2299.196	2.31%	78.29%
24.0	1369.646	64.850	2364.046	2.13%	80.50%
25.0	1261.818	59.834	2423.879	1.96%	82.53%
26.0	1184.510	57.746	2481.625	1.89%	84.50%
27.0	1081.949	55.449	2537.075	1.82%	86.39%
28.0	973.441	52.038	2589.113	1.71%	88.16%
29.0	859.944	47.967	2637.079	1.57%	89.79%
30.0	740.514	43.212	2680.292	1.42%	91.26%
31.0	629.848	38.135	2718.427	1.25%	92.56%
32.0	528.239	33.178	2751.605	1.09%	93.69%
33.0	416.775	27.840	2779.445	0.91%	94.64%
34.0	313.988	22.115	2801.56	0.73%	95.39%
35.0	241.010	17.236	2818.796	0.57%	95.98%
36.0	191.193	13.761	2832.558	0.45%	96.45%
37.0	76.686	8.737	2841.294	0.29%	96.75%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	46.569	4.114	2845.409	0.13%	96.89%
39.0	37.315	2.863	2848.272	0.09%	96.98%
40.0	33.168	2.458	2850.73	0.08%	97.07%
41.0	30.315	2.261	2852.991	0.07%	97.14%
42.0	28.778	2.147	2855.137	0.07%	97.22%
43.0	27.323	2.078	2857.216	0.07%	97.29%
44.0	26.116	2.017	2859.233	0.07%	97.36%
45.0	25.084	1.968	2861.2	0.06%	97.42%
46.0	24.236	1.929	2863.129	0.06%	97.49%
47.0	23.416	1.895	2865.024	0.06%	97.55%
48.0	22.795	1.868	2866.892	0.06%	97.62%
49.0	22.326	1.853	2868.745	0.06%	97.68%
50.0	21.792	1.839	2870.585	0.06%	97.74%
51.0	21.302	1.823	2872.408	0.06%	97.80%
52.0	20.922	1.812	2874.22	0.06%	97.87%
53.0	20.578	1.805	2876.025	0.06%	97.93%
54.0	20.241	1.799	2877.824	0.06%	97.99%
55.0	19.963	1.795	2879.619	0.06%	98.05%
56.0	19.781	1.796	2881.415	0.06%	98.11%
57.0	19.583	1.800	2883.215	0.06%	98.17%
58.0	19.393	1.802	2885.017	0.06%	98.23%
59.0	19.254	1.807	2886.824	0.06%	98.30%
60.0	19.071	1.811	2888.634	0.06%	98.36%
61.0	18.852	1.810	2890.444	0.06%	98.42%
62.0	18.544	1.802	2892.246	0.06%	98.48%
63.0	18.215	1.788	2894.034	0.06%	98.54%
64.0	17.842	1.769	2895.803	0.06%	98.60%
65.0	17.506	1.749	2897.553	0.06%	98.66%
66.0	17.103	1.727	2899.279	0.06%	98.72%
67.0	16.737	1.702	2900.981	0.06%	98.78%
68.0	16.372	1.677	2902.658	0.06%	98.83%
69.0	16.079	1.655	2904.314	0.05%	98.89%
70.0	15.852	1.640	2905.953	0.05%	98.95%
71.0	15.647	1.628	2907.582	0.05%	99.00%
72.0	15.399	1.614	2909.196	0.05%	99.06%
73.0	15.172	1.599	2910.795	0.05%	99.11%
74.0	14.982	1.585	2912.38	0.05%	99.17%
75.0	14.814	1.574	2913.954	0.05%	99.22%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.696	1.567	2915.521	0.05%	99.27%
77.0	14.587	1.561	2917.082	0.05%	99.33%
78.0	14.514	1.558	2918.64	0.05%	99.38%
79.0	14.411	1.554	2920.194	0.05%	99.43%
80.0	14.331	1.550	2921.743	0.05%	99.48%
81.0	14.221	1.544	2923.287	0.05%	99.54%
82.0	14.170	1.540	2924.827	0.05%	99.59%
83.0	14.082	1.536	2926.363	0.05%	99.64%
84.0	14.023	1.531	2927.894	0.05%	99.69%
85.0	13.921	1.525	2929.419	0.05%	99.75%
86.0	13.797	1.515	2930.934	0.05%	99.80%
87.0	13.672	1.503	2932.437	0.05%	99.85%
88.0	13.577	1.493	2933.93	0.05%	99.90%
89.0	13.446	1.481	2935.411	0.05%	99.95%
90.0	13.307	1.467	2936.878	0.05%	100.00%

Zonal flux distribution table

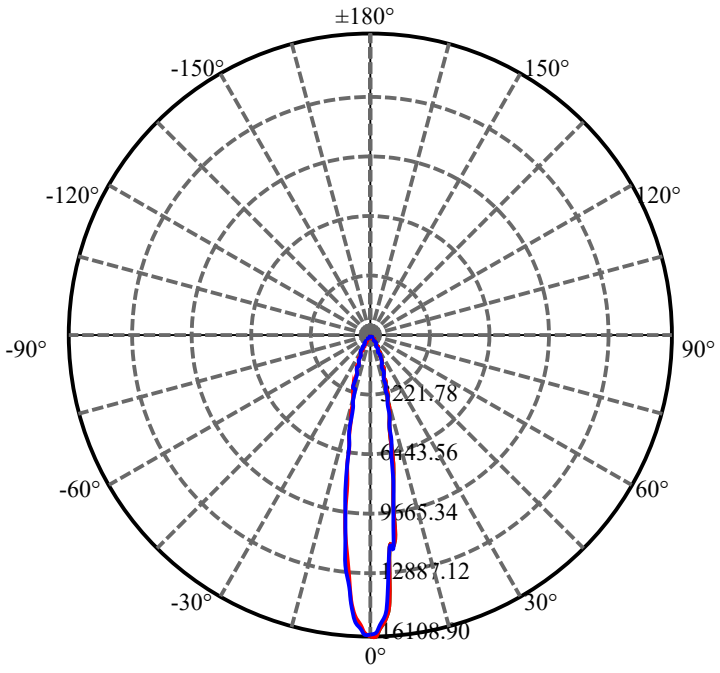
ZONAL LUMEN SUMMARY

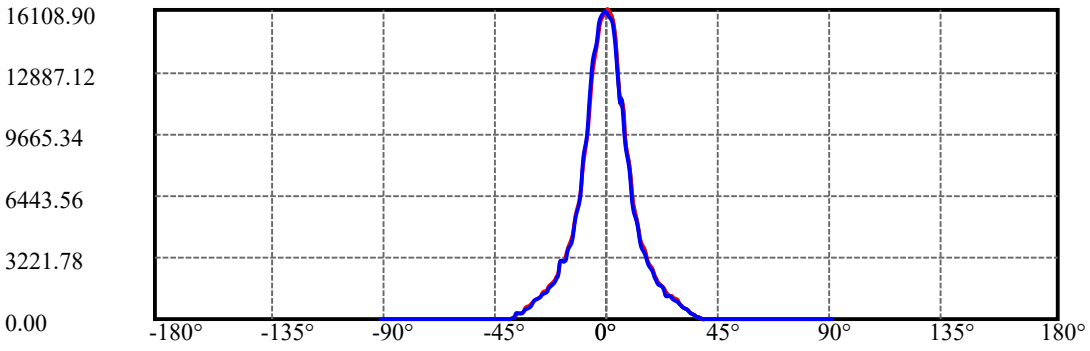
Zone	Lumens	%Lamp	%Fixt
0-30	2680.29	87.90%	91.26%
0-40	2850.73	93.49%	97.07%
0-60	2888.63	94.73%	98.36%
0-90	2935.41	96.27%	99.95%
0-120	2935.41	96.27%	99.95%
0-180	2936.88	96.32%	100.00%
60-90	46.78	1.53%	1.59%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-23.78	2349.50	77.05%	80.00%

ZONAL LUMEN SUMMARY

0-10	1032.26
10-20	1044.68
20-30	603.36
30-40	170.44
40-50	19.85
50-60	18.05
60-70	17.32
70-80	15.79
80-90	13.67
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):

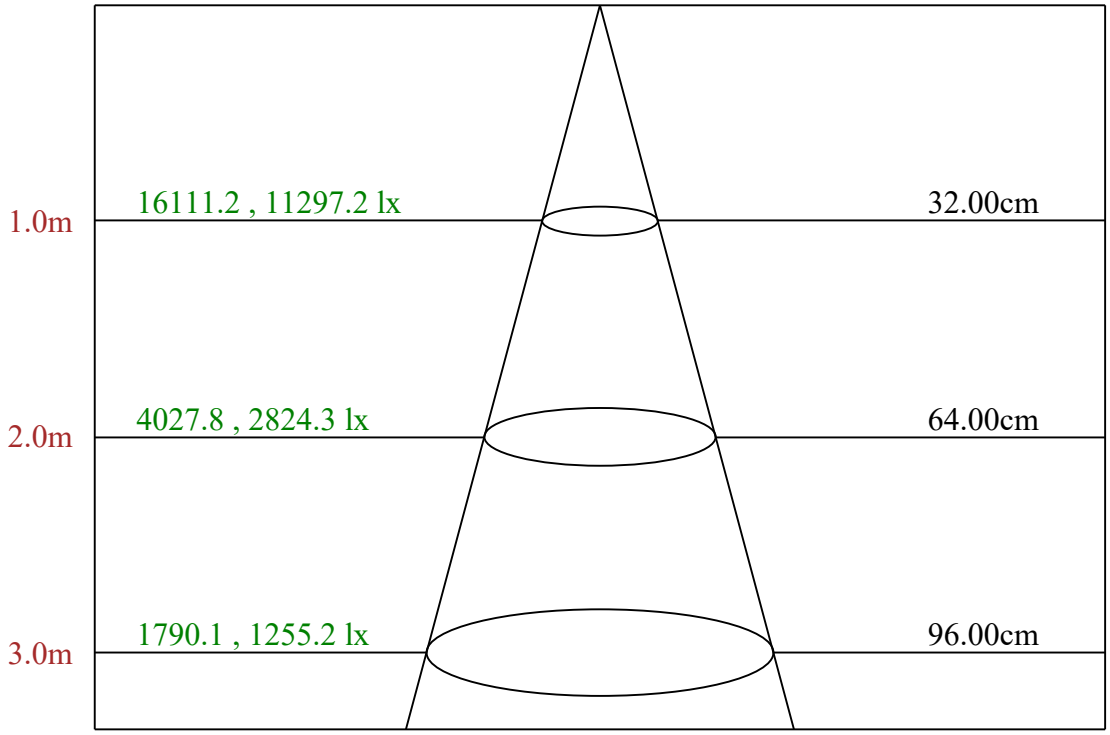
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:23.3 Right:22.8
:C90/270Left:22.9 Right:22.4

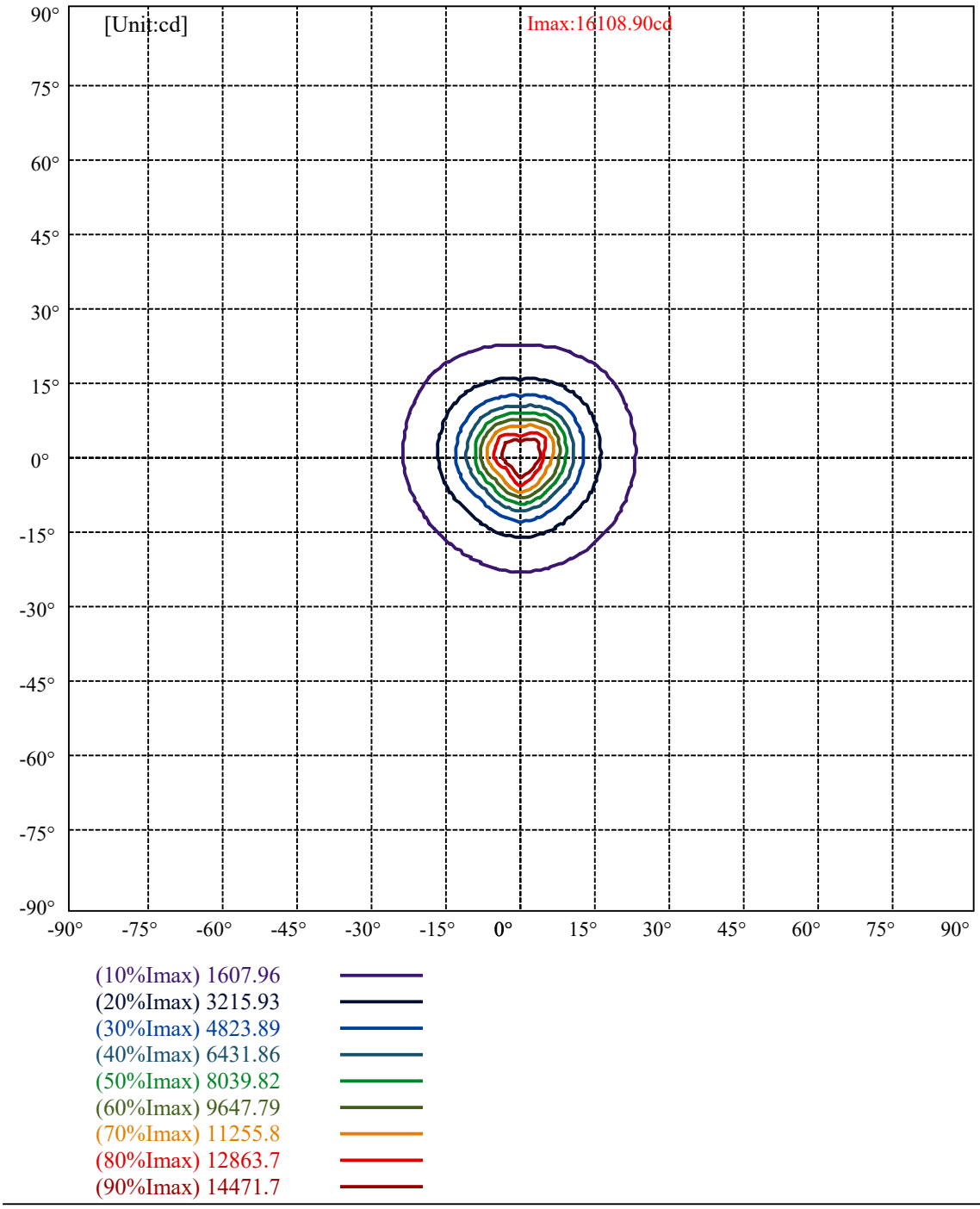
Beam Angle(50%Imax):C0/180Left:9.0 Right:9.0
:C90/270Left:9.2 Right:8.8

Lux distance Curve

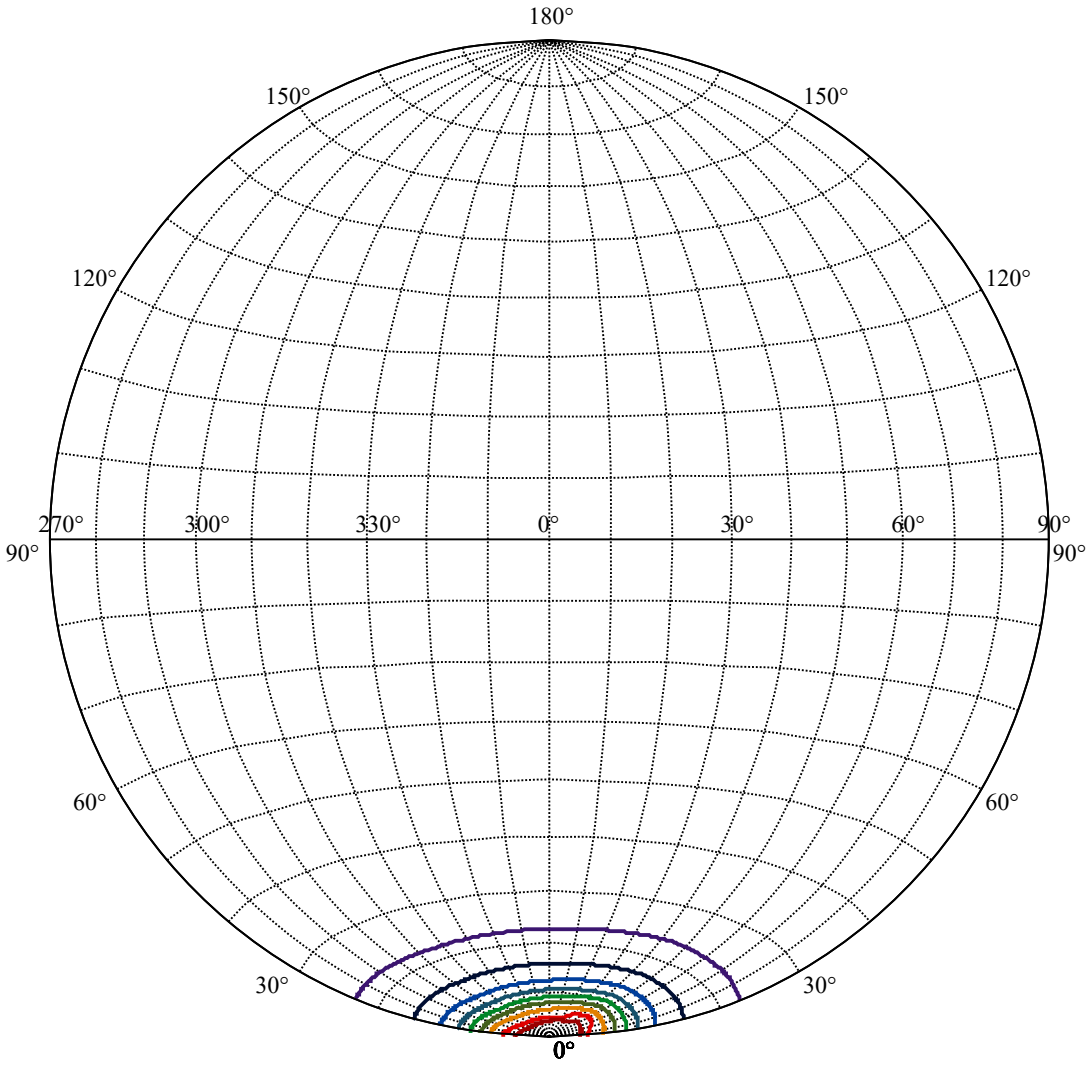


Max , Ave

Beam angle of C0 plane 18.18


[Unit:cd]
Imax:16108.90cd
90°
75°
60°
45°
30°
15°
0°
-15°
-30°
-45°
-60°
-75°
-90°
-90° -75° -60° -45° -30° -15° 0° 15° 30° 45° 60° 75° 90°
(10%Imax) 1607.96
(20%Imax) 3215.93
(30%Imax) 4823.89
(40%Imax) 6431.86
(50%Imax) 8039.82
(60%Imax) 9647.79
(70%Imax) 11255.8
(80%Imax) 12863.7
(90%Imax) 14471.7

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:16108.90

(10%Imax) 1611.12
(20%Imax) 3222.25
(30%Imax) 4833.37
(40%Imax) 6444.5
(50%Imax) 8055.62
(60%Imax) 9666.75
(70%Imax) 11277.9
(80%Imax) 12889
(90%Imax) 14500.1

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2025/1/2
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.65

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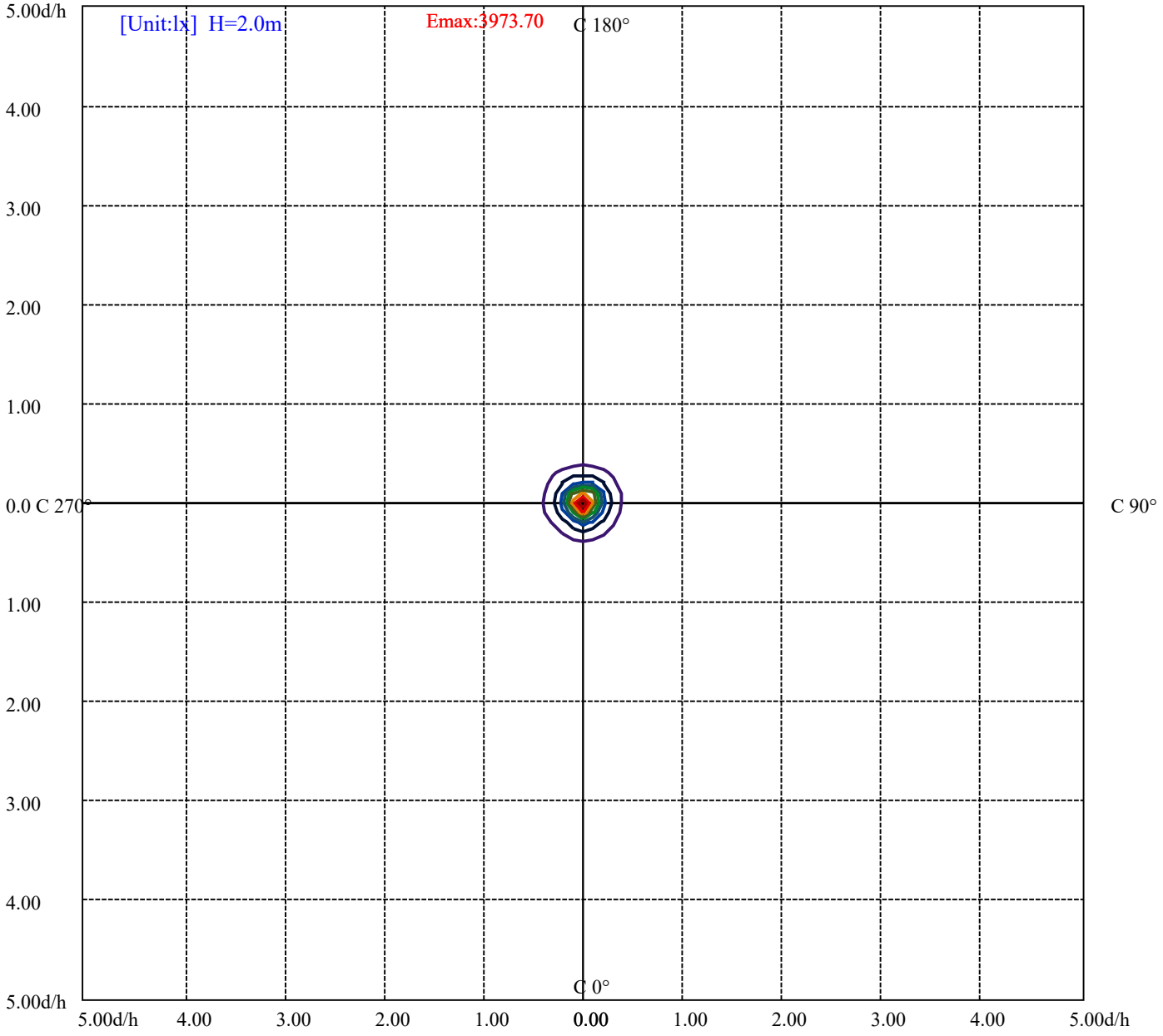
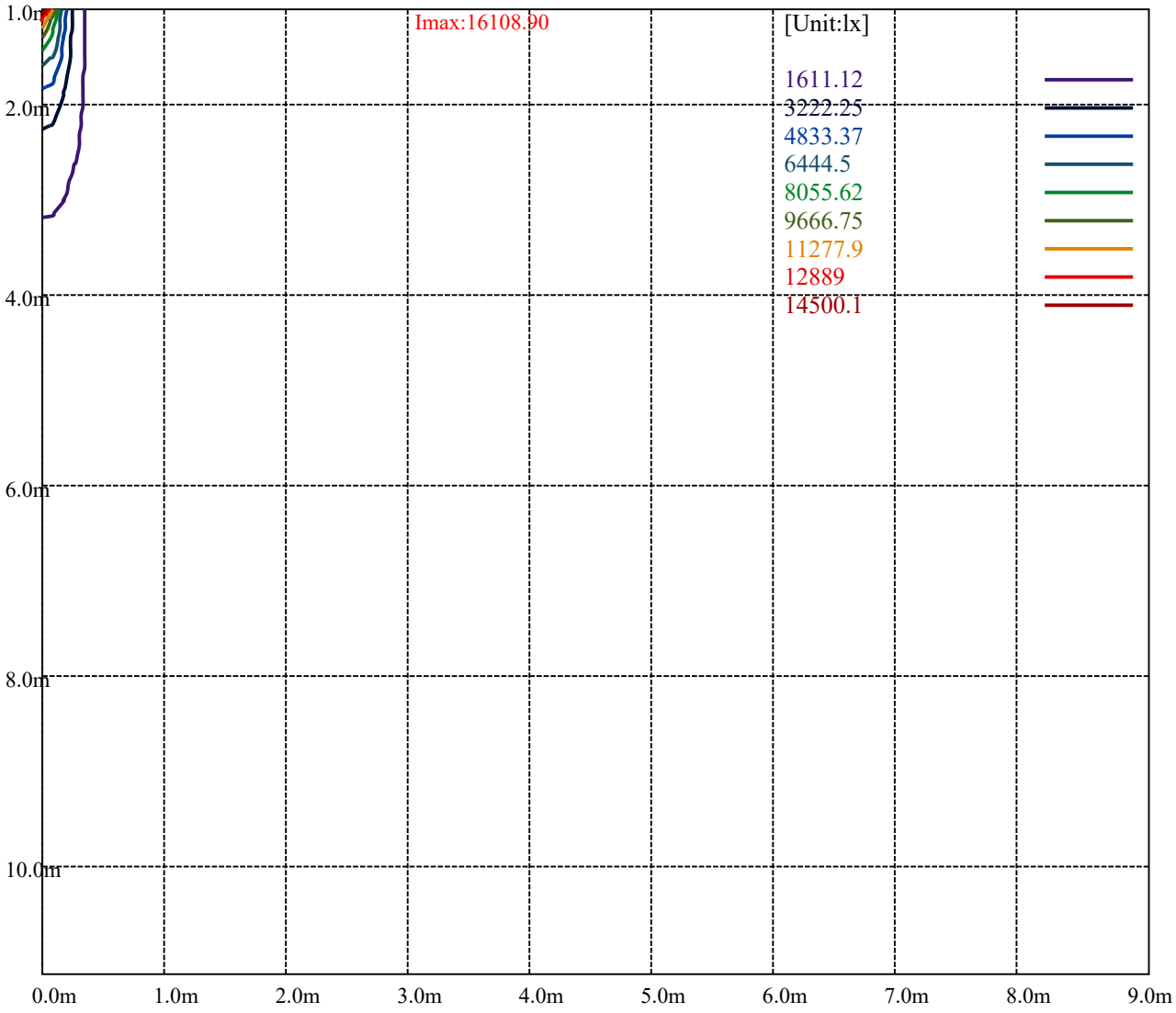
ISO illuminance diagram



Equipment: GMS1980
Date: 2025/1/2
Operator: NT07
Temperature(°C): 25.0
Humidity(%): 60.0%
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/1/2
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT NT 2-2881-L2

Luminance Limitting Curve(no luminous side)

Luminance Table

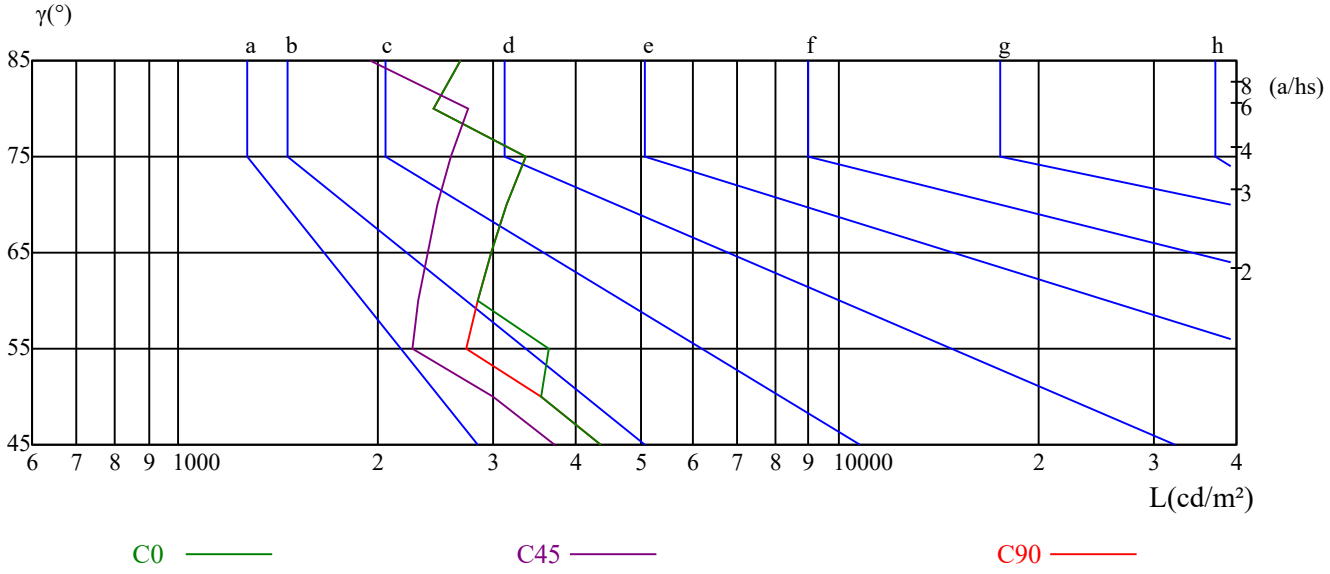
γ	45	50	55	60	65	70	75	80	85
C0	4345	3545	3646	2836	2970	3141	3361	2430	2675
C45	3715	2986	2267	2313	2380	2470	2588	2740	1956
C90	4345	3545	2734	2836	2970	3141	3361	2430	2675

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	10049	12059	10049	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: 2025/1/2
Humidity(%): 60.0%

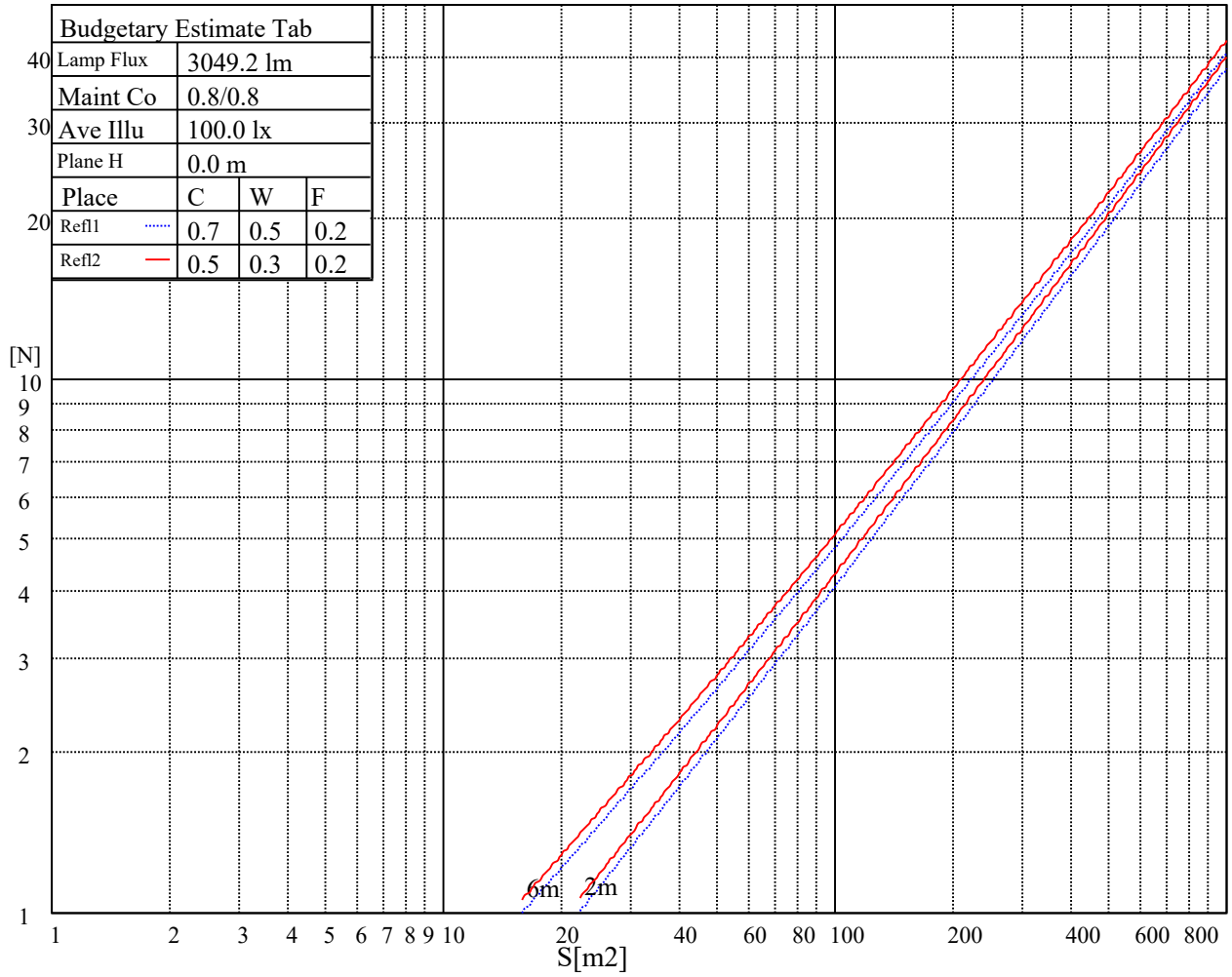
Operator: NT07
Distance(m): 7.65

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	12.09	13.02	12.46	13.33	13.64	11.95	12.87	12.31	13.18	13.50
	3H	12.40	13.22	12.79	13.56	13.91	12.24	13.06	12.63	13.40	13.75
	4H	12.66	13.42	13.06	13.77	14.14	12.51	13.28	12.92	13.63	14.00
	6H	13.05	13.75	13.47	14.13	14.53	12.95	13.65	13.37	14.02	14.42
	8H	13.29	13.95	13.71	14.34	14.74	13.20	13.87	13.63	14.25	14.66
	12H	13.56	14.19	13.99	14.59	15.01	13.49	14.12	13.92	14.52	14.94
4H	2H	11.96	12.72	12.36	13.07	13.44	11.81	12.58	12.22	12.93	13.30
	3H	12.42	13.06	12.85	13.46	13.88	12.27	12.92	12.70	13.31	13.73
	4H	12.87	13.43	13.31	13.85	14.30	12.75	13.31	13.19	13.73	14.18
	6H	13.44	13.93	13.91	14.38	14.84	13.37	13.86	13.84	14.31	14.76
	8H	13.82	14.28	14.31	14.74	15.21	13.77	14.23	14.26	14.69	15.16
	12H	14.27	14.69	14.76	15.14	15.66	14.23	14.65	14.72	15.10	15.62
8H	4H	12.96	13.41	13.45	13.87	14.35	12.85	13.30	13.34	13.76	14.24
	6H	13.72	14.09	14.23	14.57	15.09	13.66	14.04	14.17	14.52	15.03
	8H	14.30	14.61	14.83	15.13	15.63	14.26	14.57	14.80	15.10	15.60
	12H	14.92	15.16	15.47	15.67	16.20	14.90	15.13	15.44	15.65	16.18
12H	4H	12.98	13.39	13.47	13.85	14.37	12.87	13.29	13.36	13.74	14.26
	6H	13.85	14.16	14.39	14.68	15.18	13.79	14.10	14.33	14.63	15.12
	8H	14.46	14.70	15.01	15.21	15.74	14.43	14.66	14.97	15.18	15.70

Variation with the observer position at spacings:		
S = 1.0H	4.7/-3.6	4.8/-3.6
S = 1.5H	6.3/-2.6	6.4/-2.6
S = 2.0H	7.5/-2.0	7.6/-2.0
Standard tables:	BK3	BK3
Uncorrected UGR	-4.2	-4.1

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

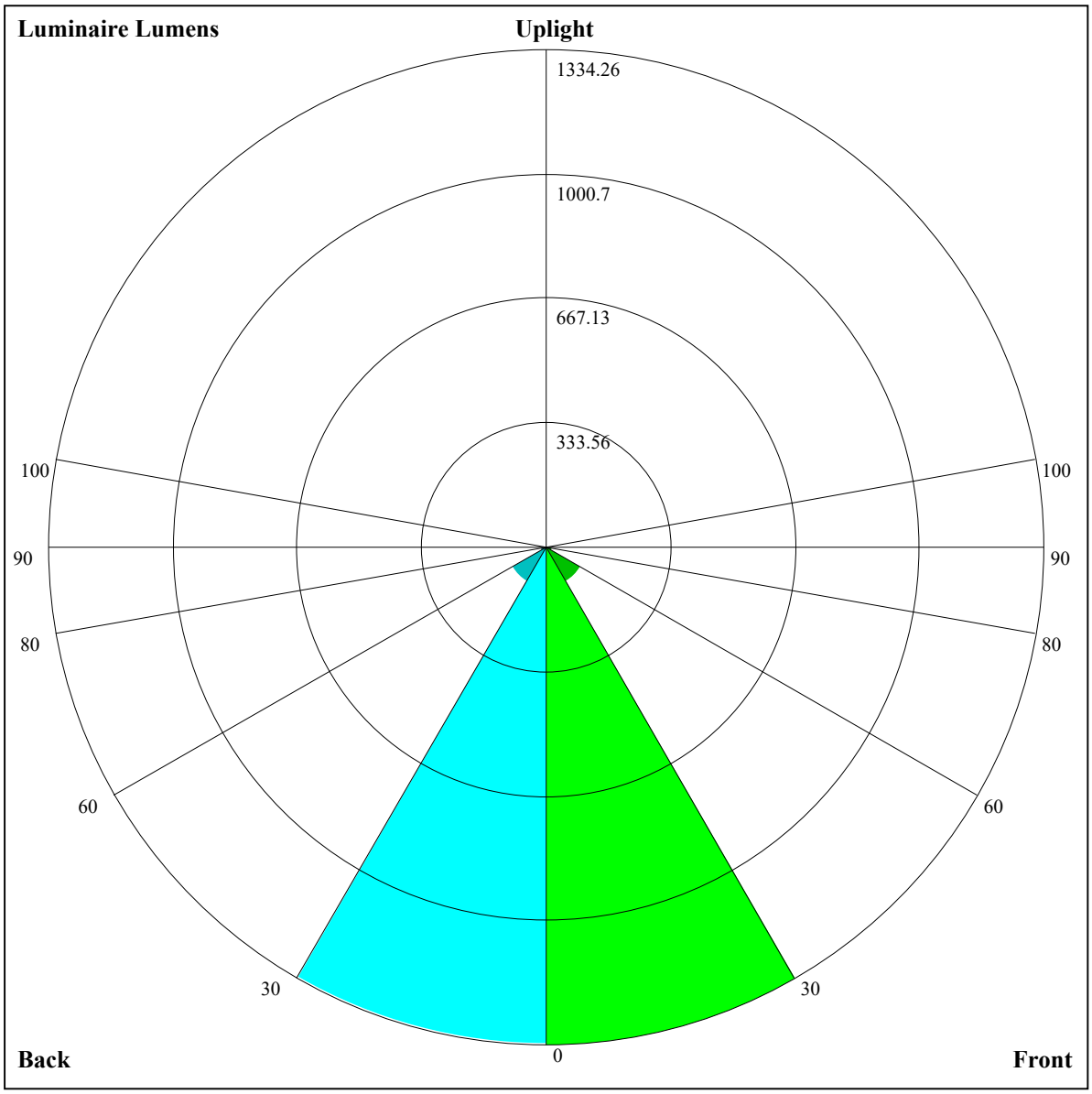
Budgetary Estimate Table



Equipment: GMS1980 Date: 2025/1/2 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	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.08	1.06	1.04	1.06	1.04	1.03	1.02	1.01	0.99	0.99	0.97	0.96	0.95	0.94	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	0.90	0.88	0.90	0.88	0.86	0.85
4	0.94	0.90	0.86	0.93	0.89	0.86	0.91	0.87	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.82
5	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.86	0.83	0.81	0.85	0.82	0.80	0.79
6	0.87	0.82	0.79	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.78	0.82	0.80	0.77	0.76
7	0.84	0.79	0.76	0.83	0.79	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.74
8	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.73	0.72
9	0.78	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.71	0.76	0.73	0.71	0.70
10	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.69	0.74	0.71	0.69	0.68



Luminaire Lumens:
FL=1334.26,FM=104.08,FH=16.74,FVH=7.6
BL=1331.2,BM=105.94,BH=16.43,BVH=7.56
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	16108.90	16079.64	15757.77	15242.77	14265.44	11399.66	11399.66	10768.20	9206.23
45.0	15892.37	16079.64	16026.97	15693.39	15178.40	14411.75	13428.57	11988.92	10754.09
90.0	16056.23	15857.26	15494.42	14926.75	13926.01	11426.58	11426.58	10209.89	8999.06
135.0	16073.79	16032.82	15810.44	15400.78	14610.73	13750.45	12714.60	11286.65	10104.49
180.0	16108.90	15886.52	15506.12	14950.16	14201.07	12995.51	11883.58	10654.61	9484.16
225.0	15892.37	15541.24	14991.12	14031.35	11583.42	11583.42	10356.20	9130.15	7960.29
270.0	16056.23	16009.42	15757.77	15313.00	14441.01	13487.10	12357.61	11093.53	9560.24
315.0	16073.79	15851.40	15435.89	14792.15	13159.37	11536.60	11218.24	9946.54	8409.74
360.0	16108.90	16079.64	15757.77	15242.77	14265.44	11399.66	11399.66	10768.20	9206.23

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8019.98	6955.46	6044.85	5115.51	4520.92	4034.60	3619.09	3183.10	2884.05
45.0	9495.86	8307.85	6950.13	6019.62	5252.98	4468.78	3959.63	3532.42	3087.65
90.0	7845.58	6570.38	5715.95	5009.58	4420.85	3821.58	3424.21	3081.85	2781.05
135.0	8658.99	7593.88	6639.96	5674.34	5024.74	4486.33	4024.01	3626.05	3198.84
180.0	8056.21	7032.06	6177.64	5434.40	4667.75	4182.02	3690.43	3333.44	3017.42
225.0	6898.11	5800.22	5092.69	4503.95	4011.78	3500.29	3154.42	2853.03	2588.51
270.0	8366.38	6985.25	6072.29	5293.95	4632.64	3983.04	3579.24	3122.76	2964.75
315.0	7287.87	6316.98	5340.82	4711.12	4196.71	3666.49	3303.65	2991.73	2710.82
360.0	8019.98	6955.46	6044.85	5115.51	4520.92	4034.60	3619.09	3183.10	2884.05

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2562.76	2336.28	2134.37	1909.06	1744.03	1585.43	1432.69	1151.78	1151.78
45.0	3005.72	3005.72	2267.22	2072.34	1897.36	1738.76	1545.64	1400.50	1270.00
90.0	2465.61	2247.32	2050.10	1830.64	1672.05	1520.47	1154.65	1154.65	1132.64
135.0	2970.60	2970.60	2410.02	2154.27	1970.51	1799.04	1597.14	1440.88	1304.53
180.0	3017.42	2445.71	2231.52	2039.57	1819.52	1660.34	1507.01	1360.71	1227.28
225.0	2300.58	2101.02	1881.56	1721.79	1572.56	1395.82	1157.75	1157.75	1096.54
270.0	2964.75	2323.40	2071.76	1893.85	1736.42	1588.36	1406.94	1272.92	1176.36
315.0	2406.50	2196.41	2004.45	1791.43	1634.01	1483.60	1155.35	1155.35	1116.96
360.0	2562.76	2336.28	2134.37	1909.06	1744.03	1585.43	1432.69	1151.78	1151.78

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1079.27	969.19	832.07	723.75	617.06	514.47	391.52	298.11	210.92
45.0	1174.61	1062.24	959.24	857.41	729.25	626.83	524.42	398.60	303.21
90.0	1016.07	912.95	812.00	685.42	585.81	487.32	389.53	274.29	190.20
135.0	1178.12	1075.12	941.69	832.83	725.74	621.57	494.57	396.26	300.28
180.0	1134.22	1032.98	922.96	782.50	674.82	570.07	440.73	341.83	317.84
225.0	973.81	869.47	762.49	658.38	529.04	428.74	333.75	222.68	144.96
270.0	1081.55	985.58	879.07	746.81	643.22	543.15	420.25	328.37	306.13
315.0	1017.94	880.00	770.04	637.02	533.84	433.77	339.43	251.76	154.56
360.0	1079.27	969.19	832.07	723.75	617.06	514.47	391.52	298.11	210.92

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	119.44	67.77	42.19	38.33	34.12	31.66	30.14	29.03	27.97
45.0	303.21	117.51	64.32	43.31	39.50	35.00	33.24	31.31	29.55
90.0	117.10	64.67	42.25	38.68	34.76	33.30	31.66	29.73	28.32
135.0	300.28	108.56	55.13	35.82	31.89	27.45	25.93	24.46	23.58
180.0	208.46	77.72	40.79	32.66	28.62	26.63	25.57	24.46	23.70
225.0	83.34	44.36	39.91	35.87	33.07	31.54	30.02	28.79	27.51
270.0	306.13	82.11	49.63	41.67	36.75	31.66	29.90	28.15	26.74
315.0	91.59	50.80	38.33	32.19	26.63	25.28	23.76	22.65	21.54
360.0	119.44	67.77	42.19	38.33	34.12	31.66	30.14	29.03	27.97

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	27.27	26.51	25.93	25.34	24.87	24.35	23.94	23.41	22.94
45.0	27.62	26.34	25.40	24.23	23.35	22.77	22.06	21.54	21.19
90.0	27.39	26.34	25.05	24.23	23.70	23.06	22.12	21.71	21.19
135.0	22.82	22.24	21.95	21.65	21.48	21.19	20.89	20.60	20.31
180.0	23.06	22.53	22.12	22.00	21.77	21.48	21.07	20.54	20.13
225.0	26.51	25.63	24.58	24.11	23.70	22.77	22.36	22.00	21.36
270.0	25.16	24.11	22.82	21.83	21.19	20.60	19.96	19.66	19.61
315.0	20.83	20.19	19.49	18.96	18.55	18.14	18.02	17.91	17.91
360.0	27.27	26.51	25.93	25.34	24.87	24.35	23.94	23.41	22.94

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.47	21.95	21.65	21.30	21.01	20.72	20.42	20.13	19.61
45.0	20.95	20.42	20.01	19.78	19.55	19.37	19.25	19.20	18.96
90.0	20.42	20.07	19.90	19.61	19.14	19.08	18.84	18.55	18.32
135.0	20.01	19.90	19.84	19.72	19.61	19.43	19.14	18.84	18.49
180.0	19.84	19.61	19.55	19.31	19.20	18.84	18.55	18.20	17.85
225.0	20.95	20.66	20.19	19.72	19.49	19.49	19.20	18.67	18.43
270.0	19.37	19.14	19.08	19.14	19.02	18.96	19.02	19.08	18.79
315.0	17.91	17.97	18.02	18.08	18.14	18.14	18.14	18.14	17.91
360.0	22.47	21.95	21.65	21.30	21.01	20.72	20.42	20.13	19.61

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.25	18.79	18.38	17.85	17.50	17.15	16.80	16.44	16.15
45.0	18.67	18.43	18.26	17.85	17.44	17.15	16.91	16.62	16.56
90.0	18.08	17.73	17.38	17.03	16.80	16.33	16.04	15.86	15.57
135.0	18.08	17.79	17.44	17.09	16.68	16.33	16.04	15.86	15.57
180.0	17.44	17.03	16.74	16.33	16.09	15.80	15.51	15.33	15.16
225.0	18.14	17.50	16.97	16.62	15.98	15.63	15.39	15.16	14.98
270.0	18.55	18.32	18.02	17.50	17.15	16.68	16.27	16.04	15.80
315.0	17.50	17.15	16.85	16.56	16.27	15.92	15.68	15.51	15.39
360.0	19.25	18.79	18.38	17.85	17.50	17.15	16.80	16.44	16.15

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.80	15.39	15.04	14.75	14.63	14.51	14.40	14.28	14.22
45.0	16.04	15.63	15.51	15.27	15.16	15.04	14.92	14.81	14.69
90.0	15.39	15.27	15.16	15.04	14.92	14.81	14.75	14.69	14.57
135.0	15.33	15.16	14.92	14.75	14.63	14.51	14.46	14.34	14.28
180.0	14.92	14.75	14.57	14.51	14.40	14.28	14.22	14.10	14.05
225.0	14.86	14.75	14.69	14.63	14.51	14.46	14.40	14.28	14.22
270.0	15.63	15.45	15.22	15.04	14.92	14.81	14.75	14.63	14.51
315.0	15.22	14.98	14.75	14.51	14.40	14.28	14.22	14.16	14.10
360.0	15.80	15.39	15.04	14.75	14.63	14.51	14.40	14.28	14.22

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.16	14.10	14.05	13.99	13.93	13.75	13.69	13.58	13.52
45.0	14.57	14.51	14.34	14.28	14.16	14.10	13.81	13.69	13.64
90.0	14.40	14.40	14.22	14.10	13.99	13.75	13.64	13.58	13.40
135.0	14.22	14.16	14.10	14.10	13.99	13.99	13.81	13.69	13.58
180.0	13.99	13.93	13.93	13.87	13.81	13.69	13.58	13.52	13.40
225.0	14.10	13.99	13.93	13.81	13.69	13.58	13.52	13.40	13.28
270.0	14.34	14.28	14.16	14.10	13.99	13.81	13.69	13.64	13.40
315.0	13.99	13.99	13.93	13.93	13.81	13.69	13.64	13.52	13.34
360.0	14.16	14.10	14.05	13.99	13.93	13.75	13.69	13.58	13.52

Intensity data(cd)

C/γ(°)	90.0
0.0	13.34
45.0	13.46
90.0	13.28
135.0	13.34
180.0	13.23
225.0	13.23
270.0	13.34
315.0	13.23
360.0	13.34