NATA LIGHTING CO .LED
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NT

Client: NT
LumCAT: 3-2927-L
Luminaire: 92.70.412.00
Report No: 20250415-B005
Ballast type: AC

Test No: 20250415-C005	Voltage(V): 36.400
LampCAT: CITIZEN CLU038	Current(A): 0.707
Lamp flux(lm): 3351.5	Power (W): 25.730
Number of Lamps: 1	PF: 0.000
Length(mm): 85	Width(mm): 85
Phm Type: C	Height(mm): 52

Photometric Results

Lumens(lm): 3222.96, Efficiency(%): 96.16% , Luminous Efficacy(lm/W): 125.26
Central intensity(cd): 24231.660, Maximum intensity(cd): 24375.540
Angle of maximum intensity: C=135.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=15.2
[C90/270]Total=14.8
Field angle(10%Imax): [C0/180]Total=34.2
[C90/270]Total=34.1
Maximum s/h(1/2): C0_180=0.30 C90_270=0.19
Maximum s/h(1/4): C0_180=0.29 C90_270=0.24
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.09%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 100.032%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	24141.063	0.000	0	0.00%	0.00%
1.0	23905.256	22.989	22.989	0.69%	0.71%
2.0	23145.205	67.531	90.521	2.01%	2.81%
3.0	22133.361	108.291	198.812	3.23%	6.17%
4.0	20584.621	142.991	341.803	4.27%	10.61%
5.0	18668.180	168.864	510.666	5.04%	15.84%
6.0	16248.081	183.494	694.16	5.48%	21.54%
7.0	13482.663	184.538	878.699	5.51%	27.26%
8.0	11199.187	176.643	1055.342	5.27%	32.74%
9.0	9472.790	167.535	1222.877	5.00%	37.94%
10.0	7587.590	154.390	1377.267	4.61%	42.73%
11.0	6213.574	137.902	1515.169	4.11%	47.01%
12.0	5063.776	123.278	1638.447	3.68%	50.84%
13.0	4193.483	109.860	1748.307	3.28%	54.25%
14.0	3494.185	98.401	1846.709	2.94%	57.30%
15.0	3006.182	89.240	1935.949	2.66%	60.07%
16.0	2682.579	83.356	2019.305	2.49%	62.65%
17.0	2449.635	79.922	2099.227	2.38%	65.13%
18.0	2181.186	76.352	2175.579	2.28%	67.50%
19.0	1899.749	71.000	2246.579	2.12%	69.71%
20.0	1699.112	65.869	2312.449	1.97%	71.75%
21.0	1562.756	62.634	2375.083	1.87%	73.69%
22.0	1458.041	60.704	2435.787	1.81%	75.58%
23.0	1372.844	59.400	2495.187	1.77%	77.42%
24.0	1302.901	58.501	2553.688	1.75%	79.23%
25.0	1248.611	58.016	2611.704	1.73%	81.03%
26.0	1202.182	57.851	2669.555	1.73%	82.83%
27.0	1152.063	57.597	2727.152	1.72%	84.62%
28.0	1125.418	57.661	2784.813	1.72%	86.41%
29.0	1075.186	57.574	2842.387	1.72%	88.19%
30.0	1042.572	57.179	2899.566	1.71%	89.97%
31.0	972.156	56.067	2955.633	1.67%	91.71%
32.0	878.479	53.019	3008.652	1.58%	93.35%
33.0	766.277	48.455	3057.107	1.45%	94.85%
34.0	630.048	42.257	3099.364	1.26%	96.17%
35.0	508.906	35.372	3134.736	1.06%	97.26%
36.0	369.826	27.979	3162.715	0.83%	98.13%
37.0	275.549	21.049	3183.763	0.63%	98.78%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	203.768	15.999	3199.762	0.48%	99.28%
39.0	97.154	10.271	3210.033	0.31%	99.60%
40.0	32.773	4.531	3214.565	0.14%	99.74%
41.0	15.501	1.719	3216.284	0.05%	99.79%
42.0	9.779	0.918	3217.202	0.03%	99.82%
43.0	7.707	0.648	3217.85	0.02%	99.84%
44.0	6.088	0.521	3218.371	0.02%	99.86%
45.0	5.043	0.428	3218.798	0.01%	99.87%
46.0	4.370	0.368	3219.167	0.01%	99.88%
47.0	3.844	0.327	3219.493	0.01%	99.89%
48.0	3.337	0.290	3219.783	0.01%	99.90%
49.0	2.878	0.255	3220.039	0.01%	99.91%
50.0	2.485	0.224	3220.262	0.01%	99.92%
51.0	2.205	0.198	3220.461	0.01%	99.92%
52.0	1.998	0.180	3220.641	0.01%	99.93%
53.0	1.779	0.164	3220.805	0.00%	99.93%
54.0	1.612	0.149	3220.955	0.00%	99.94%
55.0	1.432	0.136	3221.091	0.00%	99.94%
56.0	1.326	0.125	3221.215	0.00%	99.95%
57.0	1.186	0.115	3221.33	0.00%	99.95%
58.0	1.086	0.105	3221.435	0.00%	99.95%
59.0	0.999	0.097	3221.533	0.00%	99.96%
60.0	0.919	0.091	3221.623	0.00%	99.96%
61.0	0.826	0.083	3221.707	0.00%	99.96%
62.0	0.746	0.076	3221.782	0.00%	99.96%
63.0	0.713	0.071	3221.853	0.00%	99.97%
64.0	0.639	0.066	3221.92	0.00%	99.97%
65.0	0.600	0.061	3221.981	0.00%	99.97%
66.0	0.546	0.057	3222.038	0.00%	99.97%
67.0	0.526	0.054	3222.092	0.00%	99.97%
68.0	0.473	0.051	3222.143	0.00%	99.97%
69.0	0.453	0.047	3222.19	0.00%	99.98%
70.0	0.446	0.046	3222.236	0.00%	99.98%
71.0	0.420	0.045	3222.281	0.00%	99.98%
72.0	0.400	0.043	3222.323	0.00%	99.98%
73.0	0.380	0.041	3222.364	0.00%	99.98%
74.0	0.373	0.040	3222.404	0.00%	99.98%
75.0	0.360	0.039	3222.442	0.00%	99.98%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	0.346	0.037	3222.48	0.00%	99.99%
77.0	0.346	0.037	3222.517	0.00%	99.99%
78.0	0.340	0.037	3222.554	0.00%	99.99%
79.0	0.326	0.036	3222.589	0.00%	99.99%
80.0	0.313	0.034	3222.624	0.00%	99.99%
81.0	0.320	0.034	3222.658	0.00%	99.99%
82.0	0.320	0.035	3222.693	0.00%	99.99%
83.0	0.293	0.033	3222.726	0.00%	99.99%
84.0	0.306	0.033	3222.759	0.00%	99.99%
85.0	0.300	0.033	3222.792	0.00%	99.99%
86.0	0.300	0.033	3222.825	0.00%	100.00%
87.0	0.300	0.033	3222.857	0.00%	100.00%
88.0	0.306	0.033	3222.891	0.00%	100.00%
89.0	0.306	0.034	3222.924	0.00%	100.00%
90.0	0.326	0.035	3222.959	0.00%	100.00%

Zonal flux distribution table

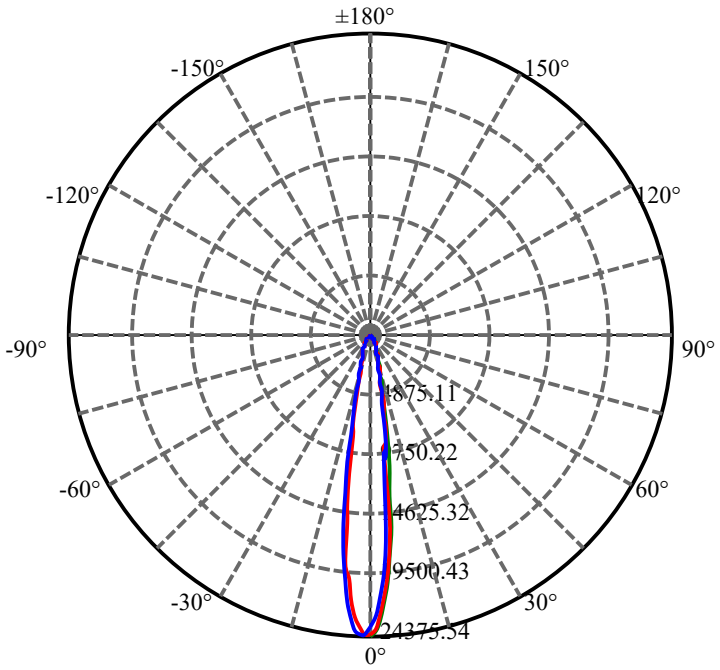
ZONAL LUMEN SUMMARY

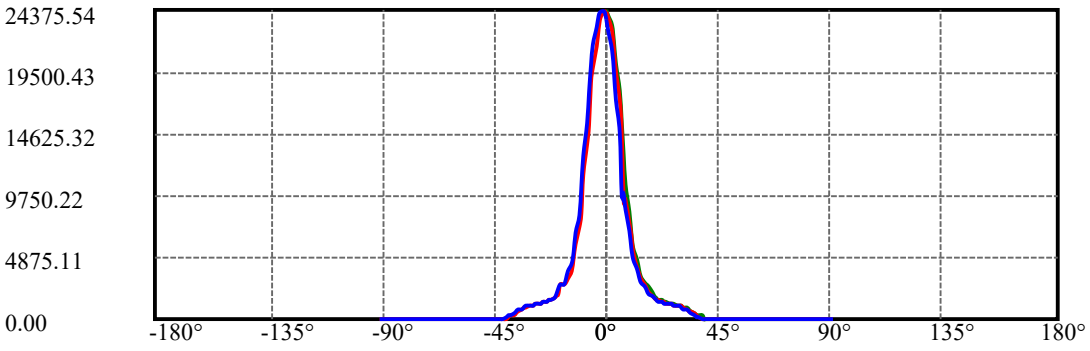
Zone	Lumens	%Lamp	%Fixt
0-30	2899.57	86.52%	89.97%
0-40	3214.56	95.91%	99.74%
0-60	3221.62	96.13%	99.96%
0-90	3222.92	96.16%	100.00%
0-120	3222.92	96.16%	100.00%
0-180	3222.96	96.16%	100.00%
60-90	1.30	0.04%	0.04%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.43	2578.37	76.93%	80.00%

ZONAL LUMEN SUMMARY

0-10	1377.27
10-20	935.18
20-30	587.12
30-40	315.00
40-50	5.70
50-60	1.36
60-70	0.61
70-80	0.39
80-90	0.30
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):

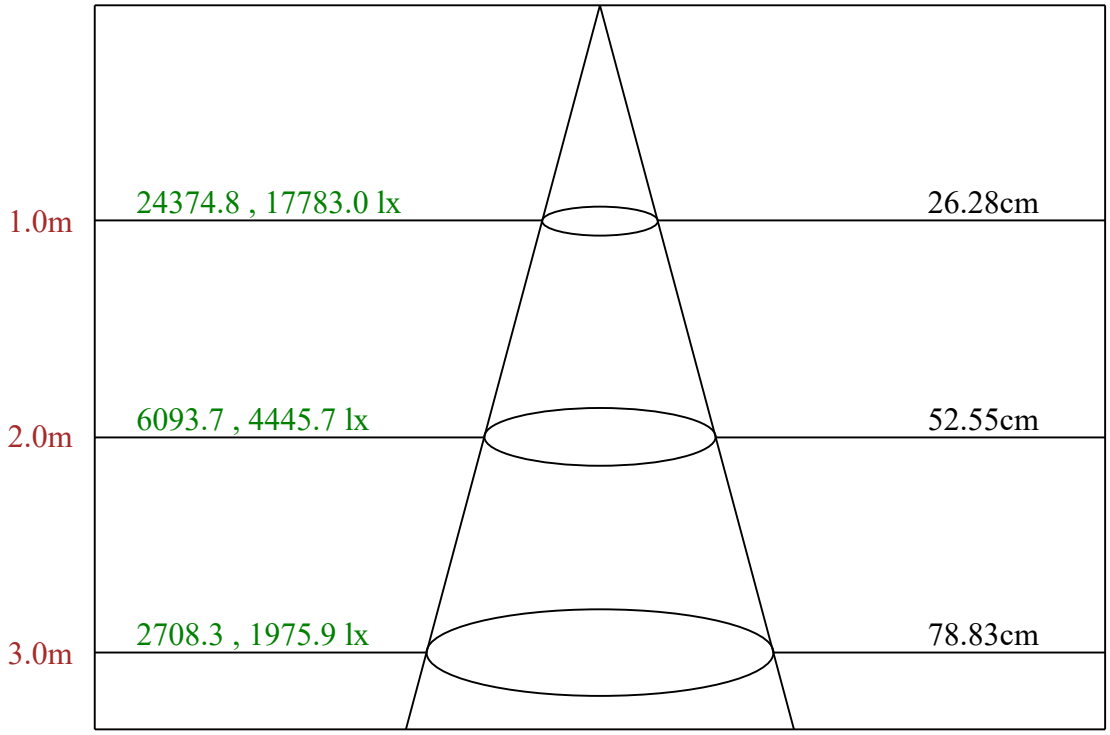
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:17.4 Right:16.8
:C90/270Left:16.8 Right:17.3

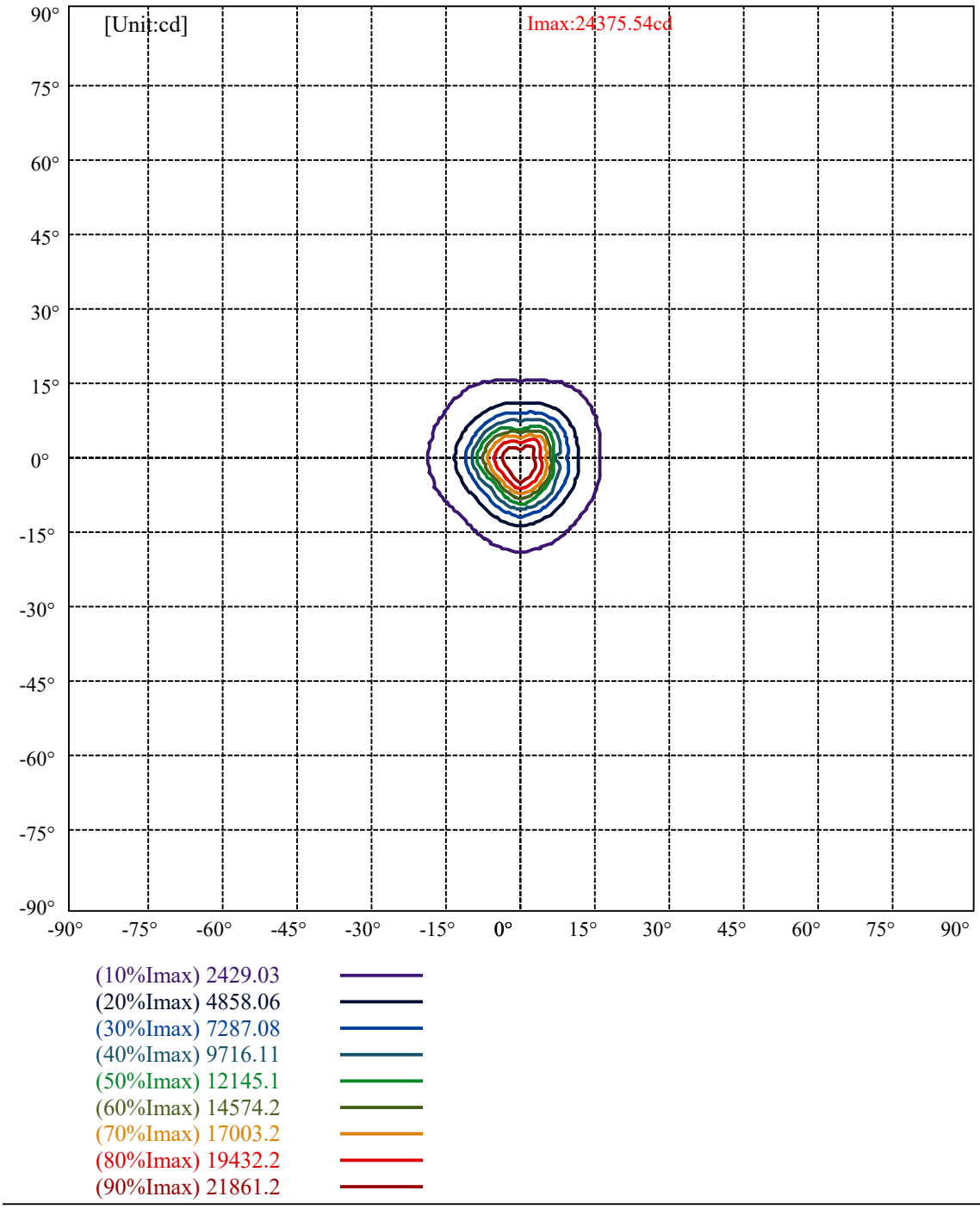
Beam Angle(50%Imax):C0/180Left:7.7 Right:7.5
:C90/270Left:7.3 Right:7.5

Lux distance Curve

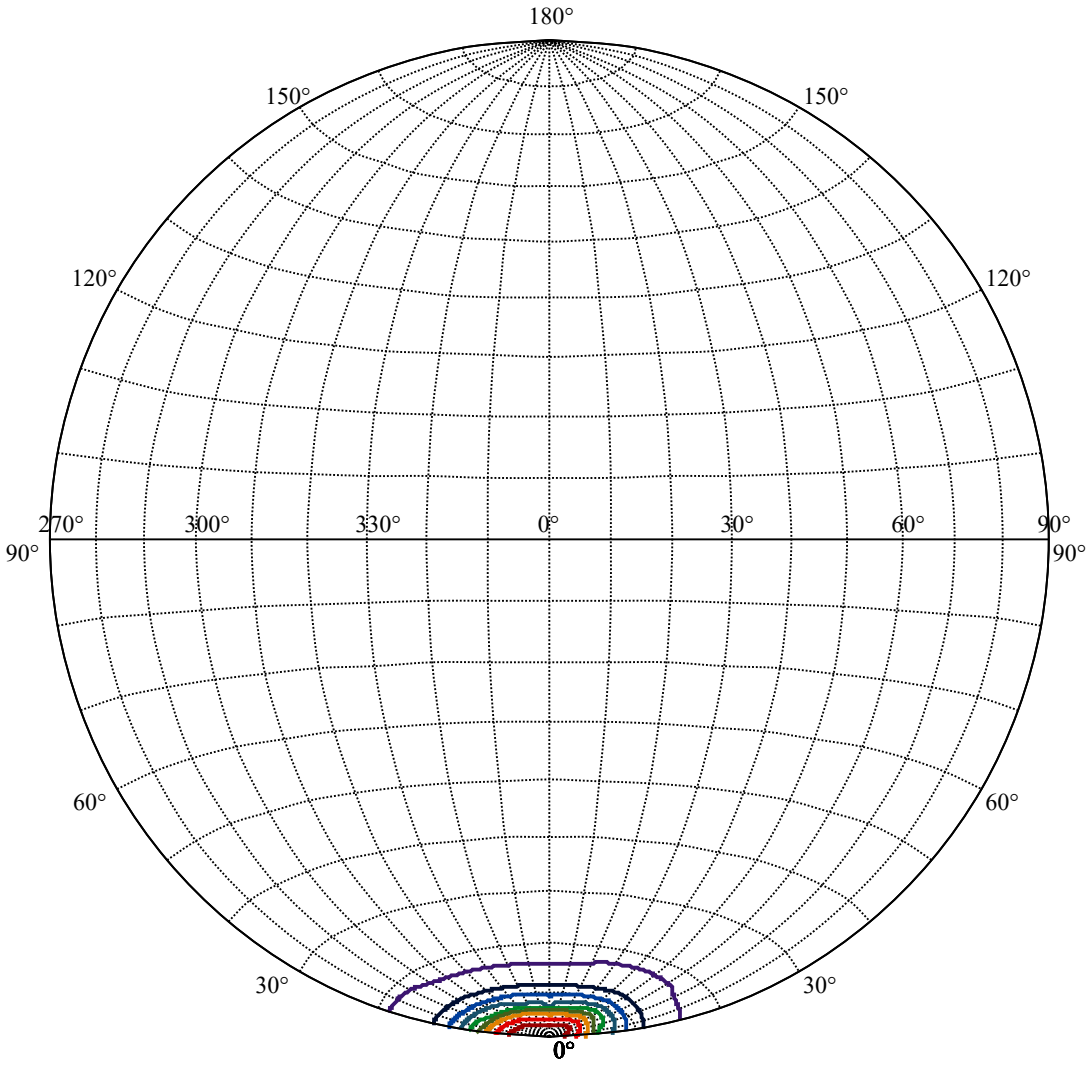


Max , Ave

Beam angle of C135 plane 14.97


[Unit:cd]
Imax:24375.54cd
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) 2429.03
(20%Imax) 4858.06
(30%Imax) 7287.08
(40%Imax) 9716.11
(50%Imax) 12145.1
(60%Imax) 14574.2
(70%Imax) 17003.2
(80%Imax) 19432.2
(90%Imax) 21861.2

ISO candela diagram on circular web



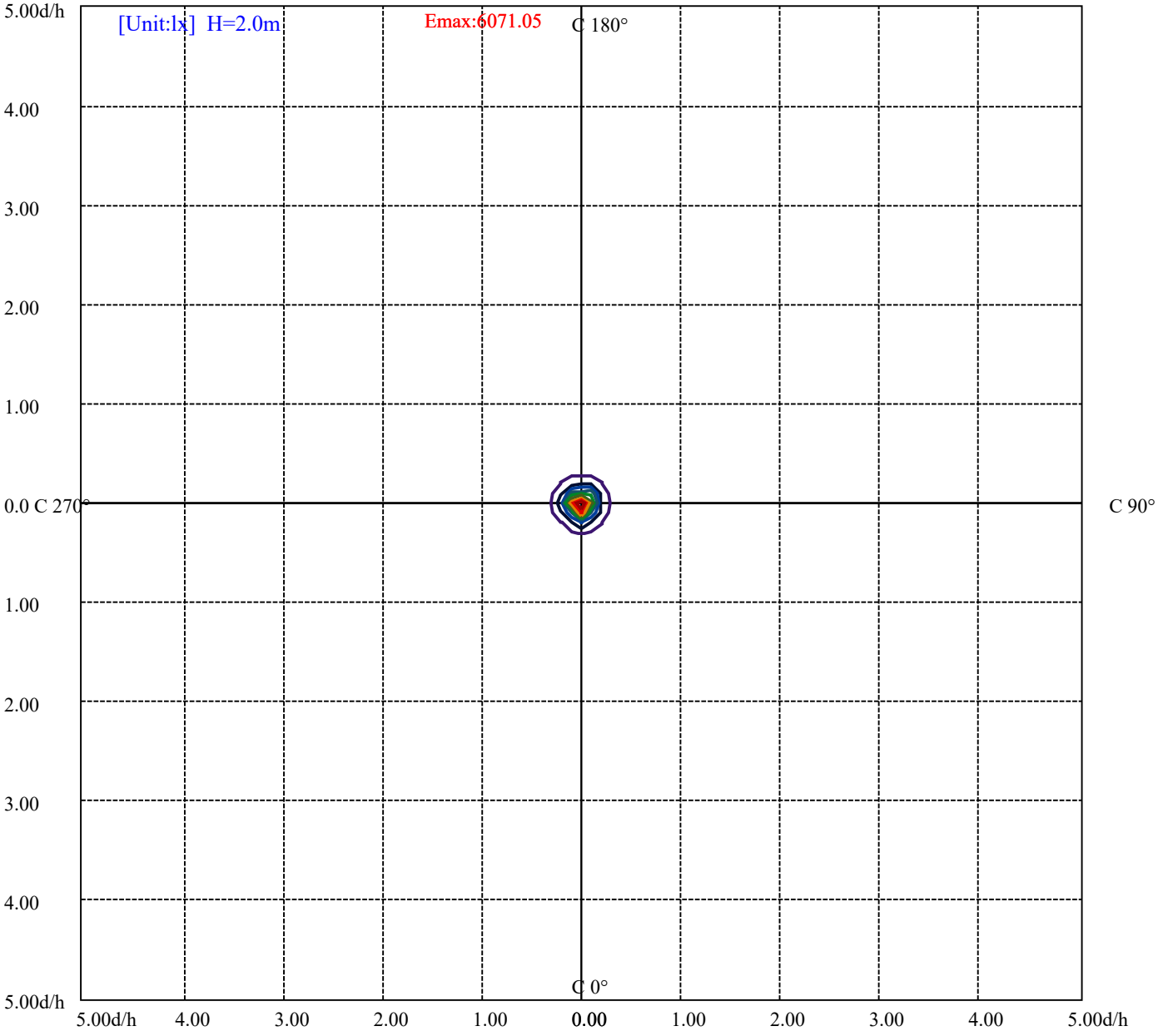
House [Unit:cd] Road

Imax:24375.54

(10%Imax) 2437.48
(20%Imax) 4874.97
(30%Imax) 7312.45
(40%Imax) 9749.94
(50%Imax) 12187.4
(60%Imax) 14624.9
(70%Imax) 17062.4
(80%Imax) 19499.9
(90%Imax) 21937.4

NT NT 3-2927-L

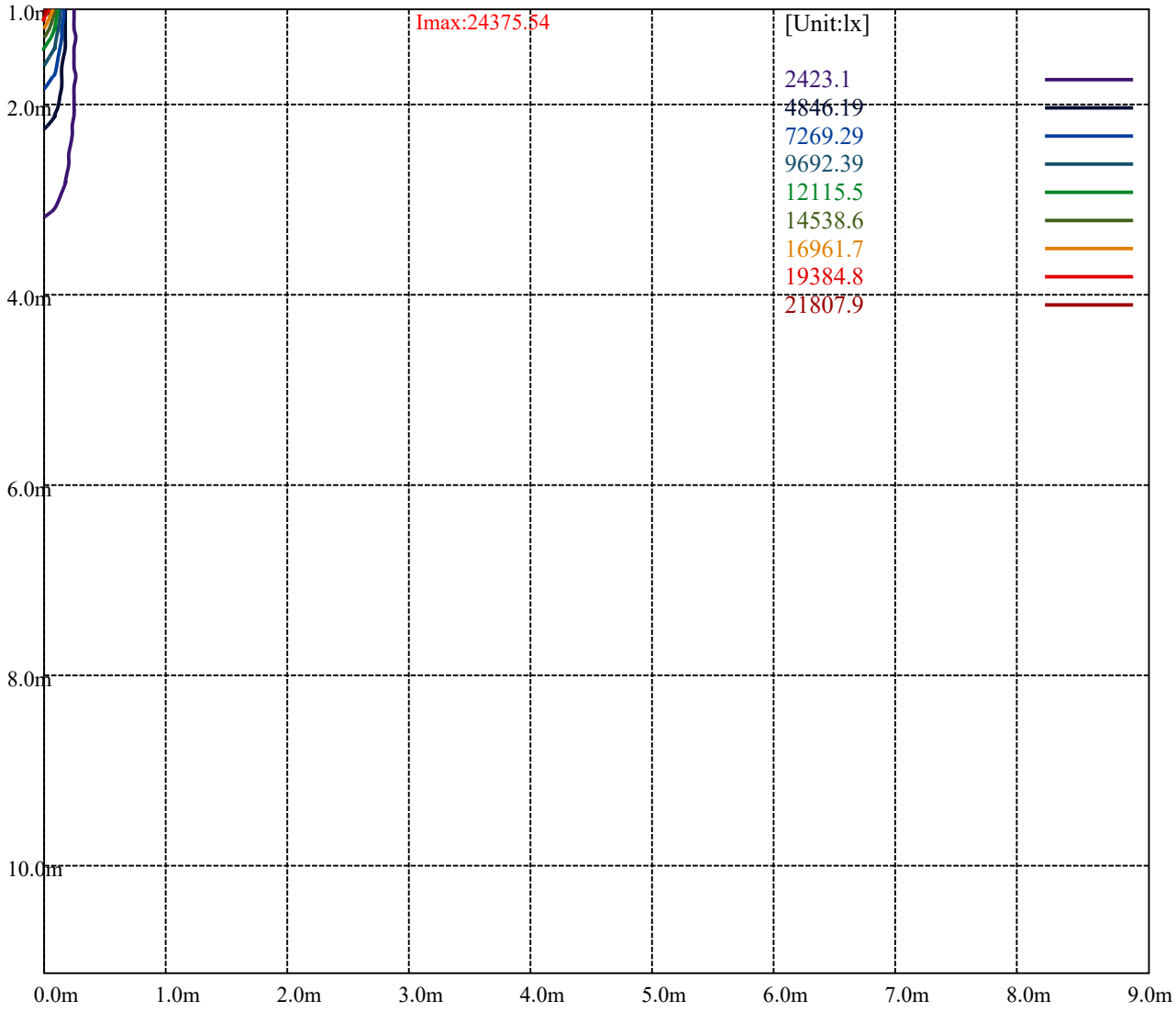
ISO illuminance diagram



(10%Emax) 607.105
(20%Emax) 1214.208
(30%Emax) 1821.313
(40%Emax) 2428.417
(50%Emax) 3035.525
(60%Emax) 3642.625
(70%Emax) 4249.725
(80%Emax) 4856.825
(90%Emax) 5463.925

Equipment: GMS 1800
Temperature(°C): 25.0
Date: 2025/5/12
Humidity(%): 60.0%
Operator: NT
Distance(m): 7.30

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0
Date: 2025/5/12
Humidity(%): 60.0%
Operator: NT
Distance(m): 7.30

NT NT 3-2927-L

Luminance Limitting Curve(no luminous side)

Luminance Table

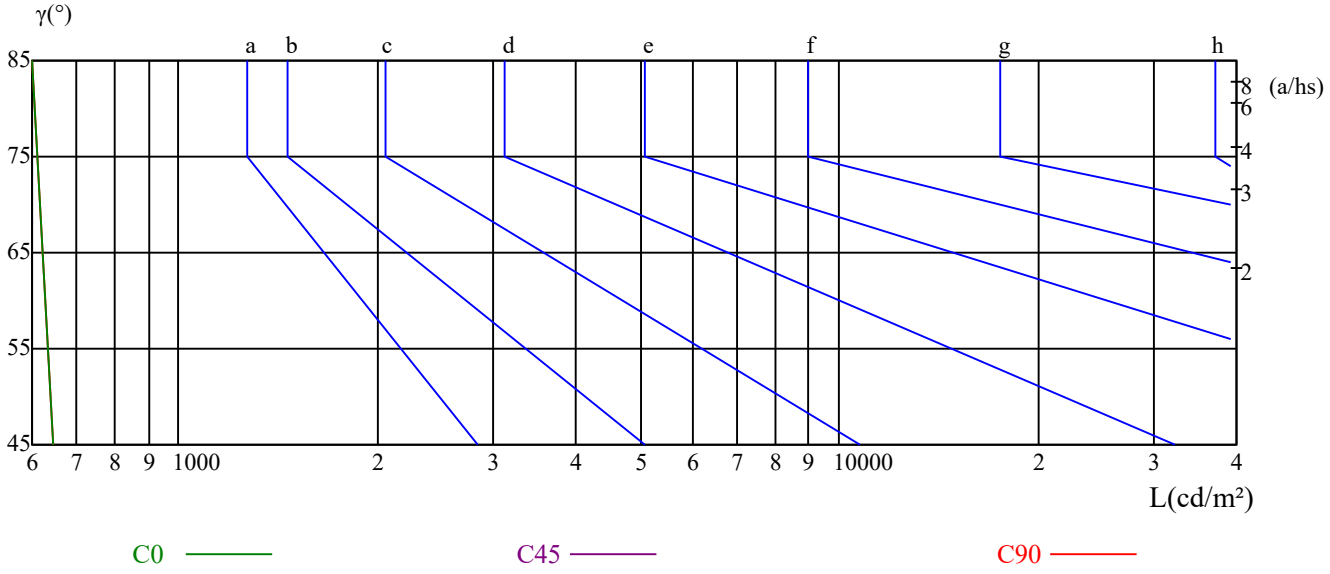
γ	45	50	55	60	65	70	75	80	85
C0	647	0	0	0	0	0	0	0	64
C45	559	0	0	0	0	0	0	0	47
C90	647	0	0	0	0	0	0	0	64

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	254	254	254

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: GMS 1800
Temperature(°C): 25.0

Date: 2025/5/12
Humidity(%): 60.0%

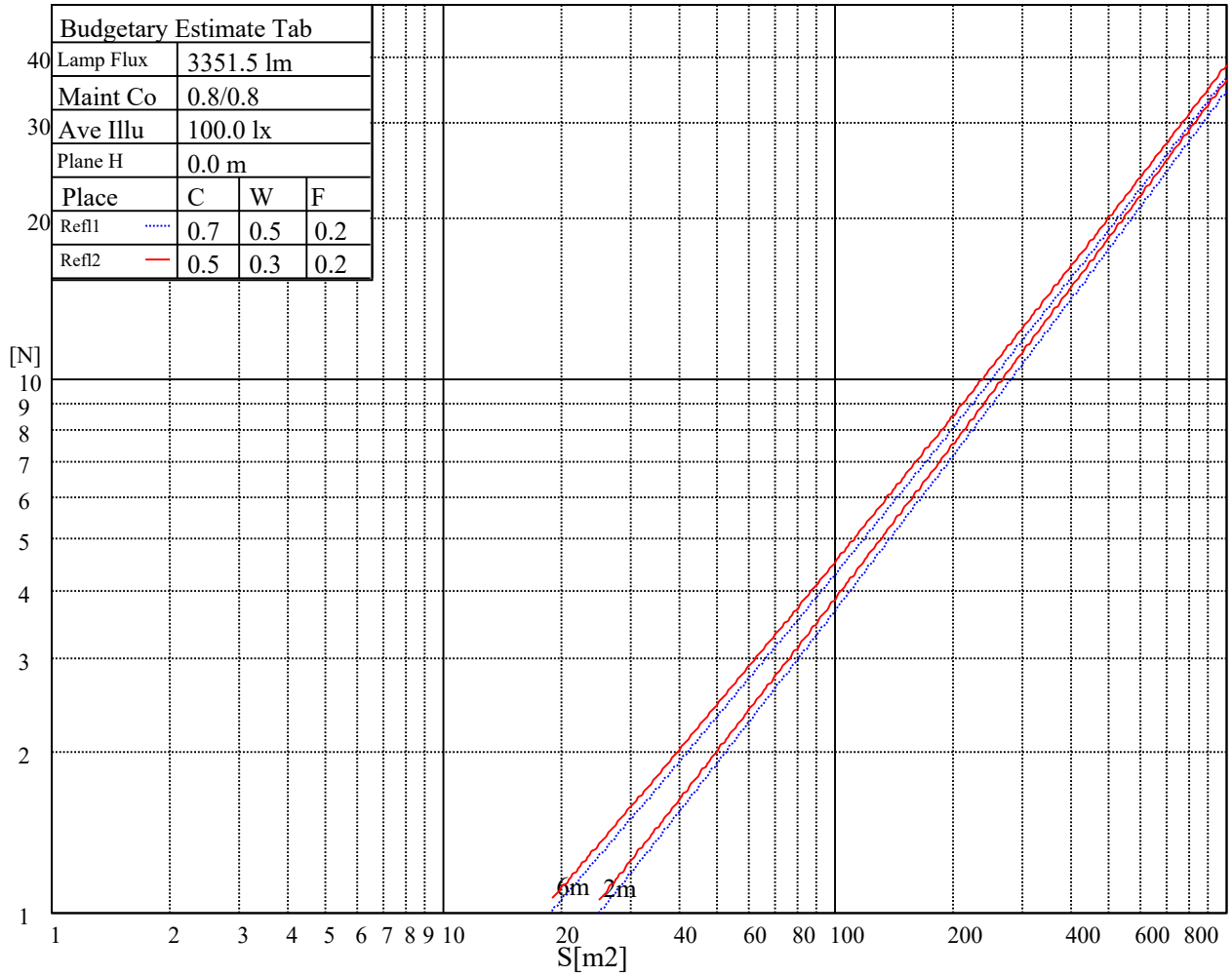
Operator: NT
Distance(m): 7.30

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	13.57	14.45	13.94	14.76	15.08	12.89	13.77	13.25	14.08	14.40
	3H	13.35	14.12	13.73	14.46	14.81	12.67	13.44	13.05	13.78	14.13
	4H	13.23	13.95	13.63	14.31	14.68	12.55	13.27	12.95	13.63	13.99
	6H	13.13	13.79	13.56	14.17	14.57	12.45	13.11	12.87	13.49	13.89
	8H	13.05	13.68	13.48	14.07	14.47	12.37	13.00	12.80	13.39	13.79
	12H	12.98	13.57	13.41	13.97	14.38	12.30	12.89	12.73	13.28	13.70
4H	2H	13.23	13.95	13.63	14.31	14.68	12.55	13.27	12.95	13.63	13.99
	3H	12.96	13.57	13.39	13.96	14.38	12.28	12.88	12.71	13.28	13.70
	4H	12.87	13.39	13.31	13.82	14.27	12.19	12.71	12.63	13.14	13.59
	6H	12.72	13.18	13.20	13.63	14.09	12.04	12.50	12.52	12.95	13.41
	8H	12.66	13.08	13.15	13.54	14.01	11.98	12.40	12.47	12.86	13.33
	12H	12.60	12.99	13.09	13.44	13.96	11.92	12.31	12.41	12.76	13.28
8H	4H	12.66	13.08	13.15	13.54	14.01	11.98	12.40	12.46	12.86	13.33
	6H	12.49	12.83	13.00	13.31	13.83	11.81	12.15	12.32	12.63	13.15
	8H	12.47	12.75	13.01	13.28	13.77	11.79	12.07	12.33	12.60	13.09
	12H	12.41	12.62	12.96	13.14	13.66	11.73	11.94	12.28	12.46	12.98
12H	4H	12.60	12.99	13.09	13.44	13.96	11.92	12.31	12.41	12.76	13.28
	6H	12.47	12.75	13.01	13.28	13.77	11.79	12.07	12.33	12.59	13.09
	8H	12.41	12.62	12.96	13.14	13.66	11.73	11.94	12.28	12.46	12.98

Variation with the observer position at spacings:		
S = 1.0H	6.6/-26.7	6.6/-26.7
S = 1.5H	9.4/-26.8	9.4/-26.8
S = 2.0H	11.4/-25.8	11.4/-26.2
Standard tables:	BK0	BK0
Uncorrected UGR	-6.4	-5.7

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

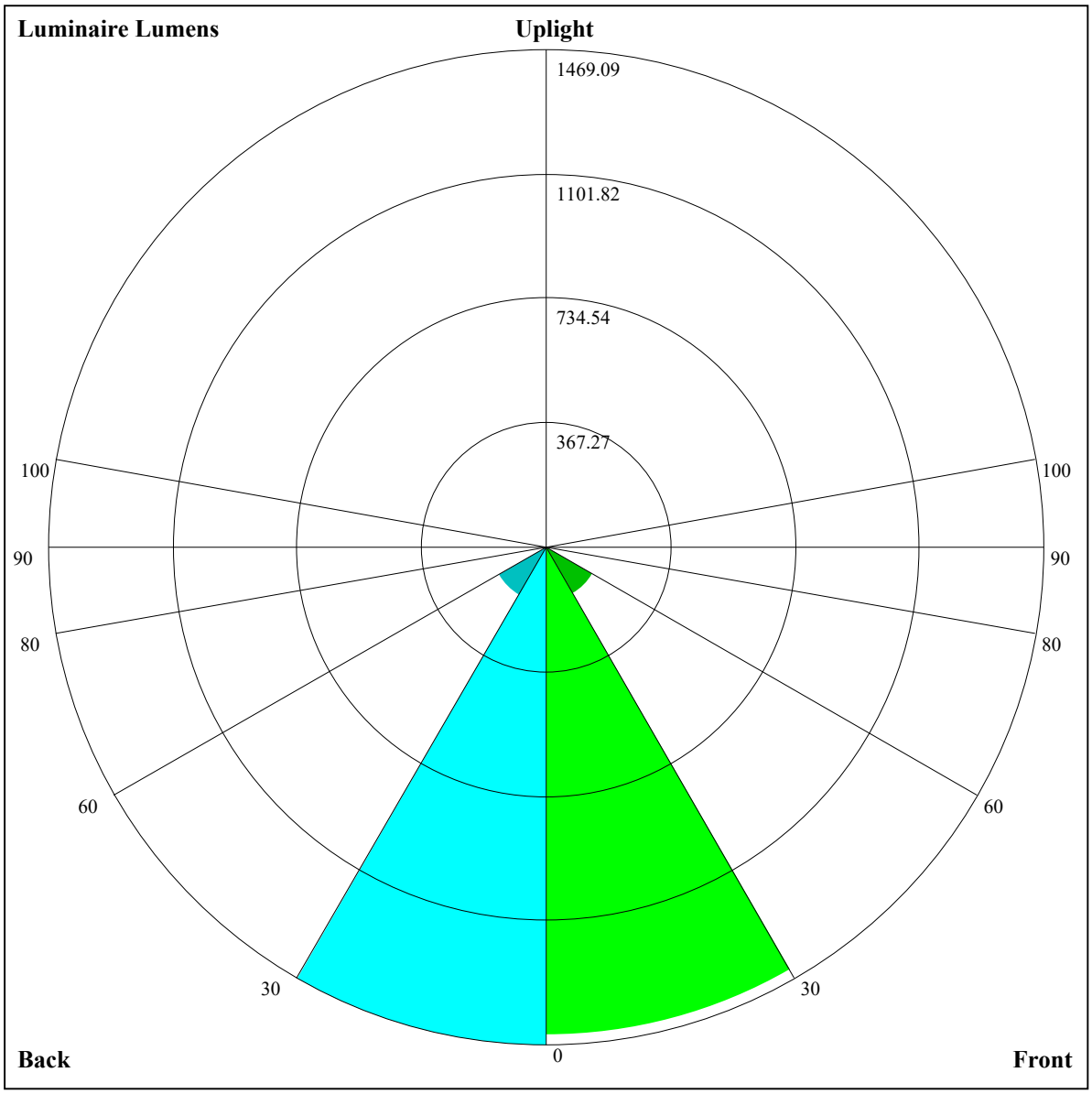
Budgetary Estimate Table



Equipment: GMS 1800 Date: 2025/5/12 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.30

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	1.14	1.14	1.14	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	1.09	1.07	1.05	1.07	1.05	1.03	1.03	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.95	0.93
2	1.03	1.01	0.98	1.02	0.99	0.97	0.99	0.97	0.95	0.96	0.94	0.93	0.94	0.92	0.91	0.90
3	0.99	0.96	0.93	0.98	0.95	0.92	0.95	0.93	0.91	0.93	0.91	0.89	0.91	0.89	0.88	0.87
4	0.95	0.91	0.88	0.94	0.91	0.88	0.92	0.89	0.87	0.90	0.88	0.86	0.89	0.87	0.85	0.84
5	0.92	0.88	0.85	0.91	0.87	0.84	0.89	0.86	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.81
6	0.88	0.84	0.81	0.88	0.84	0.81	0.86	0.83	0.81	0.85	0.82	0.80	0.84	0.82	0.80	0.79
7	0.86	0.82	0.79	0.85	0.81	0.78	0.84	0.81	0.78	0.83	0.80	0.78	0.82	0.79	0.77	0.76
8	0.83	0.79	0.76	0.82	0.79	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.74
9	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
10	0.78	0.74	0.72	0.78	0.74	0.72	0.77	0.74	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70



Luminaire Lumens:
FL=1441.78,FM=159.52,FH=0.52,FVH=0.17
BL=1469.09,BM=163.87,BH=0.5,BVH=0.17
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	24231.66	23720.07	22691.57	21247.42	19462.20	17234.68	14762.02	9409.04	9409.04
45.0	24284.95	23991.85	23181.84	22446.44	20911.69	19051.87	16824.35	14341.03	11857.72
90.0	23672.11	22659.60	21242.09	19451.54	17255.99	14756.69	9837.49	9837.49	8606.49
135.0	24375.54	23965.21	23107.24	21806.96	20128.33	18050.02	15646.64	13088.72	10653.36
180.0	24231.66	24274.29	23842.64	22926.05	21551.17	19808.59	18598.90	15316.24	13797.47
225.0	24284.95	24082.44	23027.30	22286.57	20757.15	18923.97	16680.46	12848.91	9779.94
270.0	23672.11	24236.98	24290.27	23938.56	23011.31	21684.39	19952.47	17884.82	15433.48
315.0	24375.54	24311.59	23778.69	22963.35	21599.13	19835.23	17682.31	15135.05	10055.98
360.0	24231.66	23720.07	22691.57	21247.42	19462.20	17234.68	14762.02	9409.04	9409.04

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7520.44	6596.40	5372.32	4092.83	3683.03	3120.29	2701.43	2368.37	2096.06
45.0	9582.23	7690.44	6224.96	5089.89	4194.62	3507.17	2990.26	2745.13	2745.13
90.0	6932.12	5652.10	4659.84	3909.51	3320.66	2881.02	2514.38	2220.22	1979.88
135.0	8527.09	6880.43	5628.12	4620.94	3885.53	3315.33	2878.35	2798.42	2649.21
180.0	11351.46	8329.92	7312.08	5953.19	4887.39	3789.61	3224.74	2947.63	2713.15
225.0	8948.08	7187.38	5865.26	4786.13	3966.53	3349.44	2874.62	2502.13	2312.41
270.0	12864.90	10381.58	8249.98	6880.43	5356.34	4407.78	3810.93	3224.74	2777.10
315.0	10055.98	7982.47	6396.03	5177.28	4253.77	3582.85	3054.74	2654.00	2324.14
360.0	7520.44	6596.40	5372.32	4092.83	3683.03	3120.29	2701.43	2368.37	2096.06

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1877.03	1703.84	1564.75	1458.17	1373.44	1305.76	1251.94	1207.18	1163.48
45.0	2087.00	1868.51	1696.38	1561.56	1453.38	1368.11	1300.97	1246.61	1200.78
90.0	1787.51	1633.50	1510.40	1414.48	1336.14	1272.73	1219.97	1184.80	1140.57
135.0	2079.00	1863.71	1696.91	1565.29	1460.31	1376.64	1308.43	1251.41	1203.98
180.0	2713.15	2012.92	1806.16	1646.29	1545.57	1444.32	1349.46	1287.11	1245.55
225.0	2044.90	1829.07	1662.81	1530.65	1425.13	1345.20	1282.32	1232.76	1189.59
270.0	2702.50	2362.51	1914.87	1728.35	1585.54	1473.63	1385.17	1312.16	1254.07
315.0	2158.40	1923.93	1740.61	1597.26	1484.82	1396.36	1324.95	1266.86	1219.44
360.0	1877.03	1703.84	1564.75	1458.17	1373.44	1305.76	1251.94	1207.18	1163.48

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1125.64	1124.58	1043.42	1014.80	919.89	805.37	672.79	533.17	394.35
45.0	1158.15	1120.32	1086.74	1051.04	984.43	891.70	770.73	635.91	551.18
90.0	1054.56	1054.56	1030.63	943.29	831.48	705.51	572.49	441.88	310.63
135.0	1157.09	1118.18	1084.08	1040.38	955.65	848.54	722.77	618.86	458.99
180.0	1191.19	1154.95	1117.65	1085.14	1044.11	965.24	859.19	736.09	599.67
225.0	1145.89	1110.72	1045.50	1045.50	970.36	892.18	772.01	607.83	494.80
270.0	1208.24	1184.26	1134.70	1101.66	1072.35	1020.66	932.20	817.10	689.20
315.0	1175.74	1135.77	1058.77	1058.77	998.97	898.63	828.02	649.55	572.44
360.0	1125.64	1124.58	1043.42	1014.80	919.89	805.37	672.79	533.17	394.35

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	264.05	154.06	67.63	23.82	12.74	9.54	7.46	5.86	4.74
45.0	357.74	330.56	330.56	74.02	26.27	13.43	10.18	8.05	6.18
90.0	192.64	93.10	31.44	13.70	11.78	7.89	6.98	5.22	4.37
135.0	332.16	332.16	282.60	46.63	15.93	11.67	8.53	6.93	5.33
180.0	460.59	325.76	300.72	169.73	57.39	19.24	10.76	8.95	7.14
225.0	355.50	229.63	124.91	51.90	18.12	11.62	8.85	7.14	5.81
270.0	557.57	428.61	300.72	300.72	86.17	36.13	14.28	11.03	8.31
315.0	438.36	310.52	191.58	96.72	33.79	14.49	11.19	8.47	6.82
360.0	264.05	154.06	67.63	23.82	12.74	9.54	7.46	5.86	4.74

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	4.32	4.00	3.36	3.04	2.66	2.34	2.08	1.87	1.71
45.0	5.06	4.53	4.05	3.52	3.04	2.56	2.29	2.13	1.87
90.0	3.84	3.36	2.88	2.34	2.03	1.87	1.71	1.55	1.33
135.0	4.53	4.00	3.46	2.88	2.40	2.13	2.03	1.87	1.65
180.0	5.44	4.48	4.00	3.57	3.09	2.50	2.18	1.97	1.76
225.0	4.96	4.48	4.05	3.46	2.88	2.56	2.24	2.03	1.76
270.0	6.66	5.28	4.64	4.10	3.68	3.09	2.61	2.34	2.13
315.0	5.54	4.85	4.32	3.78	3.25	2.82	2.50	2.24	2.03
360.0	4.32	4.00	3.36	3.04	2.66	2.34	2.08	1.87	1.71

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	1.49	1.33	1.28	1.17	1.07	0.96	0.85	0.80	0.75
45.0	1.71	1.55	1.39	1.23	1.17	1.07	0.96	0.85	0.80
90.0	1.23	1.17	1.01	0.91	0.85	0.85	0.75	0.69	0.59
135.0	1.44	1.33	1.17	1.07	1.01	0.91	0.85	0.75	0.75
180.0	1.60	1.39	1.33	1.17	1.07	0.96	0.96	0.85	0.75
225.0	1.65	1.44	1.39	1.23	1.07	1.01	0.91	0.80	0.69
270.0	1.92	1.71	1.55	1.44	1.28	1.17	1.07	1.01	0.91
315.0	1.87	1.55	1.49	1.28	1.17	1.07	1.01	0.85	0.75
360.0	1.49	1.33	1.28	1.17	1.07	0.96	0.85	0.80	0.75

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	0.69	0.64	0.59	0.53	0.59	0.48	0.48	0.43	0.43
45.0	0.75	0.64	0.64	0.59	0.59	0.48	0.48	0.48	0.43
90.0	0.59	0.53	0.53	0.48	0.43	0.43	0.43	0.43	0.37
135.0	0.69	0.59	0.59	0.59	0.53	0.43	0.43	0.48	0.43
180.0	0.69	0.64	0.64	0.53	0.48	0.48	0.48	0.43	0.37
225.0	0.69	0.64	0.53	0.48	0.48	0.43	0.37	0.43	0.43
270.0	0.85	0.75	0.69	0.64	0.59	0.59	0.53	0.48	0.48
315.0	0.75	0.69	0.59	0.53	0.53	0.48	0.43	0.43	0.43
360.0	0.69	0.64	0.59	0.53	0.59	0.48	0.48	0.43	0.43

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	0.43	0.37	0.37	0.43	0.37	0.37	0.37	0.37	0.32
45.0	0.43	0.43	0.37	0.37	0.37	0.37	0.37	0.37	0.37
90.0	0.37	0.37	0.37	0.37	0.32	0.37	0.37	0.27	0.32
135.0	0.37	0.37	0.43	0.37	0.37	0.37	0.32	0.32	0.32
180.0	0.37	0.37	0.37	0.32	0.37	0.32	0.37	0.32	0.27
225.0	0.37	0.32	0.32	0.32	0.27	0.32	0.27	0.27	0.27
270.0	0.43	0.43	0.43	0.37	0.37	0.32	0.32	0.37	0.32
315.0	0.43	0.37	0.32	0.32	0.32	0.32	0.32	0.32	0.32
360.0	0.43	0.37	0.37	0.43	0.37	0.37	0.37	0.37	0.32

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.32	0.32	0.32	0.37	0.32	0.32	0.32	0.32	0.32
45.0	0.37	0.37	0.32	0.32	0.32	0.32	0.32	0.32	0.32
90.0	0.37	0.32	0.27	0.27	0.32	0.32	0.37	0.37	0.43
135.0	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.37	0.32
180.0	0.32	0.27	0.27	0.32	0.27	0.32	0.32	0.27	0.27
225.0	0.27	0.32	0.27	0.27	0.27	0.27	0.27	0.27	0.21
270.0	0.27	0.37	0.27	0.32	0.32	0.27	0.27	0.27	0.32
315.0	0.32	0.27	0.32	0.27	0.27	0.27	0.21	0.27	0.27
360.0	0.32	0.32	0.32	0.37	0.32	0.32	0.32	0.32	0.32

Intensity data(cd)

C/γ(°)	90.0
0.0	0.32
45.0	0.32
90.0	0.53
135.0	0.32
180.0	0.27
225.0	0.27
270.0	0.32
315.0	0.27
360.0	0.32