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

NT

Client: NT
LumCAT: 1-1586-L
Luminaire: 92.70.410.00 LED HOLDER
Report No: 20250321-B004
Ballast type: DC

Test No: 20250321-C004	Voltage(V): 34.890
LampCAT: LUMILEDS LUXEON COB 1203	Current(A): 0.300
Lamp flux(lm): 1702.5	Power (W): 10.467
Number of Lamps: 1	PF: 0.000
Length(mm): 50	Width(mm): 50
Phm Type: C	Height(mm): 33

Photometric Results

Lumens(lm): 1615.47, Efficiency(%): 94.89% , Luminous Efficacy(lm/W): 154.34
Central intensity(cd): 2655.224, Maximum intensity(cd): 2677.463
Angle of maximum intensity: C=270.0 γ=3.0
Beam Angle(50%Imax): [C0/180]Total=48.6
[C90/270]Total=47.6
Field angle(10%Imax): [C0/180]Total=68.0
[C90/270]Total=68.0
Maximum s/h(1/2): C0_180=0.82 C90_270=0.77
Maximum s/h(1/4): C0_180=0.77 C90_270=0.72
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.77%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.461%

Equipment: GMS1980	Date: 2025/2/19	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	2657.199	0.000	0	0.00%	0.00%
1.0	2656.102	2.542	2.542	0.15%	0.16%
2.0	2653.542	7.621	10.163	0.45%	0.63%
3.0	2646.373	12.676	22.839	0.74%	1.41%
4.0	2628.523	17.657	40.496	1.04%	2.51%
5.0	2606.797	22.522	63.018	1.32%	3.90%
6.0	2593.483	27.329	90.347	1.61%	5.59%
7.0	2580.754	32.116	122.463	1.89%	7.58%
8.0	2562.832	36.812	159.275	2.16%	9.86%
9.0	2536.863	41.330	200.605	2.43%	12.42%
10.0	2500.798	45.589	246.194	2.68%	15.24%
11.0	2464.002	49.609	295.802	2.91%	18.31%
12.0	2417.257	53.359	349.162	3.13%	21.61%
13.0	2366.782	56.774	405.936	3.33%	25.13%
14.0	2313.233	59.904	465.84	3.52%	28.84%
15.0	2247.469	62.611	528.451	3.68%	32.71%
16.0	2183.752	64.930	593.381	3.81%	36.73%
17.0	2102.552	66.749	660.13	3.92%	40.86%
18.0	2013.891	67.871	728.002	3.99%	45.06%
19.0	1909.575	68.260	796.262	4.01%	49.29%
20.0	1804.015	67.969	864.231	3.99%	53.50%
21.0	1695.016	67.188	931.419	3.95%	57.66%
22.0	1586.311	65.940	997.359	3.87%	61.74%
23.0	1471.826	64.168	1061.527	3.77%	65.71%
24.0	1295.776	60.510	1122.037	3.55%	69.46%
25.0	1239.521	57.647	1179.684	3.39%	73.02%
26.0	1157.999	56.594	1236.277	3.32%	76.53%
27.0	1045.921	53.919	1290.197	3.17%	79.87%
28.0	925.863	49.921	1340.118	2.93%	82.96%
29.0	794.150	45.000	1385.119	2.64%	85.74%
30.0	664.004	39.370	1424.489	2.31%	88.18%
31.0	537.434	33.434	1457.923	1.96%	90.25%
32.0	425.759	27.594	1485.517	1.62%	91.96%
33.0	316.812	21.876	1507.394	1.28%	93.31%
34.0	239.379	16.832	1524.226	0.99%	94.35%
35.0	208.304	13.903	1538.129	0.82%	95.21%
36.0	96.584	9.708	1547.837	0.57%	95.81%
37.0	62.290	5.182	1553.018	0.30%	96.13%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	46.101	3.618	1556.636	0.21%	96.36%
39.0	38.866	2.900	1559.536	0.17%	96.54%
40.0	33.468	2.523	1562.059	0.15%	96.69%
41.0	28.815	2.218	1564.277	0.13%	96.83%
42.0	25.238	1.964	1566.241	0.12%	96.95%
43.0	22.743	1.777	1568.018	0.10%	97.06%
44.0	20.929	1.648	1569.666	0.10%	97.16%
45.0	19.451	1.552	1571.218	0.09%	97.26%
46.0	18.164	1.471	1572.689	0.09%	97.35%
47.0	17.059	1.401	1574.09	0.08%	97.44%
48.0	16.189	1.344	1575.434	0.08%	97.52%
49.0	15.377	1.296	1576.731	0.08%	97.60%
50.0	14.594	1.250	1577.98	0.07%	97.68%
51.0	13.921	1.206	1579.187	0.07%	97.75%
52.0	13.263	1.166	1580.353	0.07%	97.83%
53.0	12.707	1.130	1581.483	0.07%	97.90%
54.0	12.217	1.099	1582.581	0.06%	97.96%
55.0	11.756	1.070	1583.651	0.06%	98.03%
56.0	11.302	1.042	1584.693	0.06%	98.09%
57.0	10.929	1.016	1585.71	0.06%	98.16%
58.0	10.651	0.998	1586.708	0.06%	98.22%
59.0	10.366	0.983	1587.69	0.06%	98.28%
60.0	10.132	0.968	1588.659	0.06%	98.34%
61.0	9.978	0.960	1589.618	0.06%	98.40%
62.0	9.846	0.955	1590.573	0.06%	98.46%
63.0	9.729	0.952	1591.526	0.06%	98.52%
64.0	9.583	0.948	1592.473	0.06%	98.58%
65.0	9.437	0.941	1593.414	0.06%	98.63%
66.0	9.261	0.933	1594.347	0.05%	98.69%
67.0	9.093	0.923	1595.27	0.05%	98.75%
68.0	8.969	0.915	1596.185	0.05%	98.81%
69.0	8.903	0.912	1597.097	0.05%	98.86%
70.0	8.837	0.911	1598.008	0.05%	98.92%
71.0	8.764	0.910	1598.918	0.05%	98.98%
72.0	8.698	0.908	1599.826	0.05%	99.03%
73.0	8.639	0.907	1600.732	0.05%	99.09%
74.0	8.559	0.904	1601.636	0.05%	99.14%
75.0	8.500	0.901	1602.538	0.05%	99.20%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.427	0.899	1603.436	0.05%	99.26%
77.0	8.369	0.895	1604.332	0.05%	99.31%
78.0	8.318	0.893	1605.225	0.05%	99.37%
79.0	8.252	0.890	1606.115	0.05%	99.42%
80.0	8.186	0.886	1607.002	0.05%	99.48%
81.0	8.120	0.882	1607.883	0.05%	99.53%
82.0	8.047	0.877	1608.76	0.05%	99.58%
83.0	7.974	0.871	1609.631	0.05%	99.64%
84.0	7.886	0.864	1610.495	0.05%	99.69%
85.0	7.762	0.854	1611.349	0.05%	99.75%
86.0	7.637	0.842	1612.191	0.05%	99.80%
87.0	7.557	0.832	1613.022	0.05%	99.85%
88.0	7.476	0.823	1613.846	0.05%	99.90%
89.0	7.396	0.815	1614.661	0.05%	99.95%
90.0	7.330	0.807	1615.468	0.05%	100.00%

Zonal flux distribution table

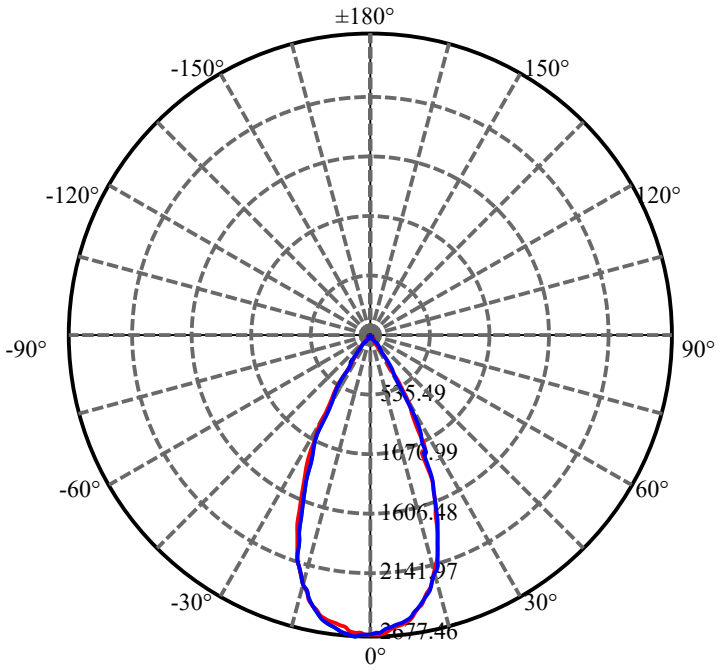
ZONAL LUMEN SUMMARY

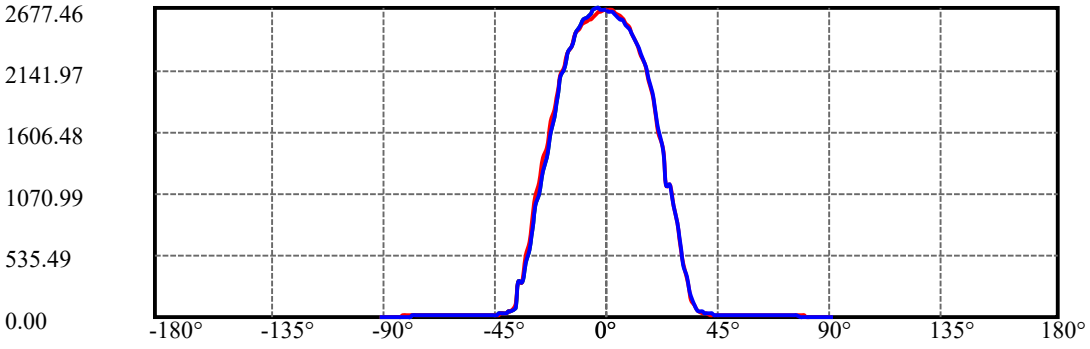
Zone	Lumens	%Lamp	%Fixt
0-30	1424.49	83.67%	88.18%
0-40	1562.06	91.75%	96.69%
0-60	1588.66	93.31%	98.34%
0-90	1614.66	94.84%	99.95%
0-120	1614.66	94.84%	99.95%
0-180	1615.47	94.89%	100.00%
60-90	26.00	1.53%	1.61%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.04	1292.38	75.91%	80.00%

ZONAL LUMEN SUMMARY

0-10	246.19
10-20	618.04
20-30	560.26
30-40	137.57
40-50	15.92
50-60	10.68
60-70	9.35
70-80	8.99
80-90	7.66
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]





C270(Max):

C0/C180:

C90/C270:

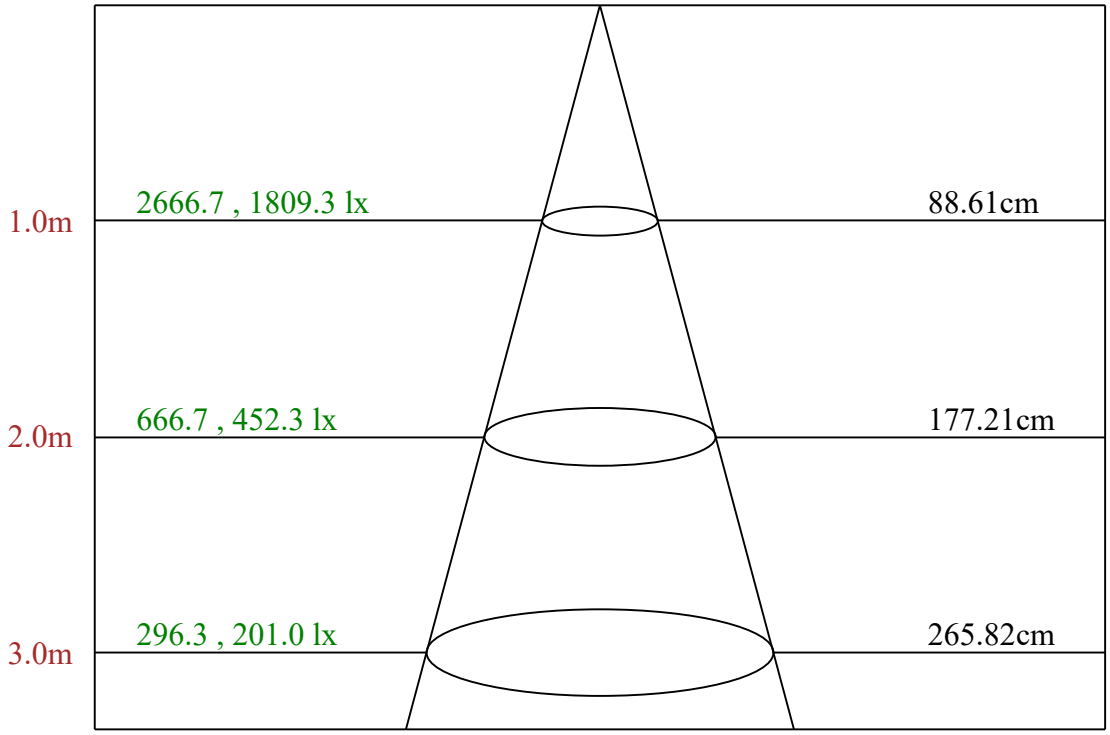
Field angle(10%Imax):C0/180Left:37.2 Right:30.8

:C90/270Left:32.2 Right:35.8

Beam Angle(50%Imax):C0/180Left:27.4 Right:21.3

:C90/270Left:21.4 Right:26.2

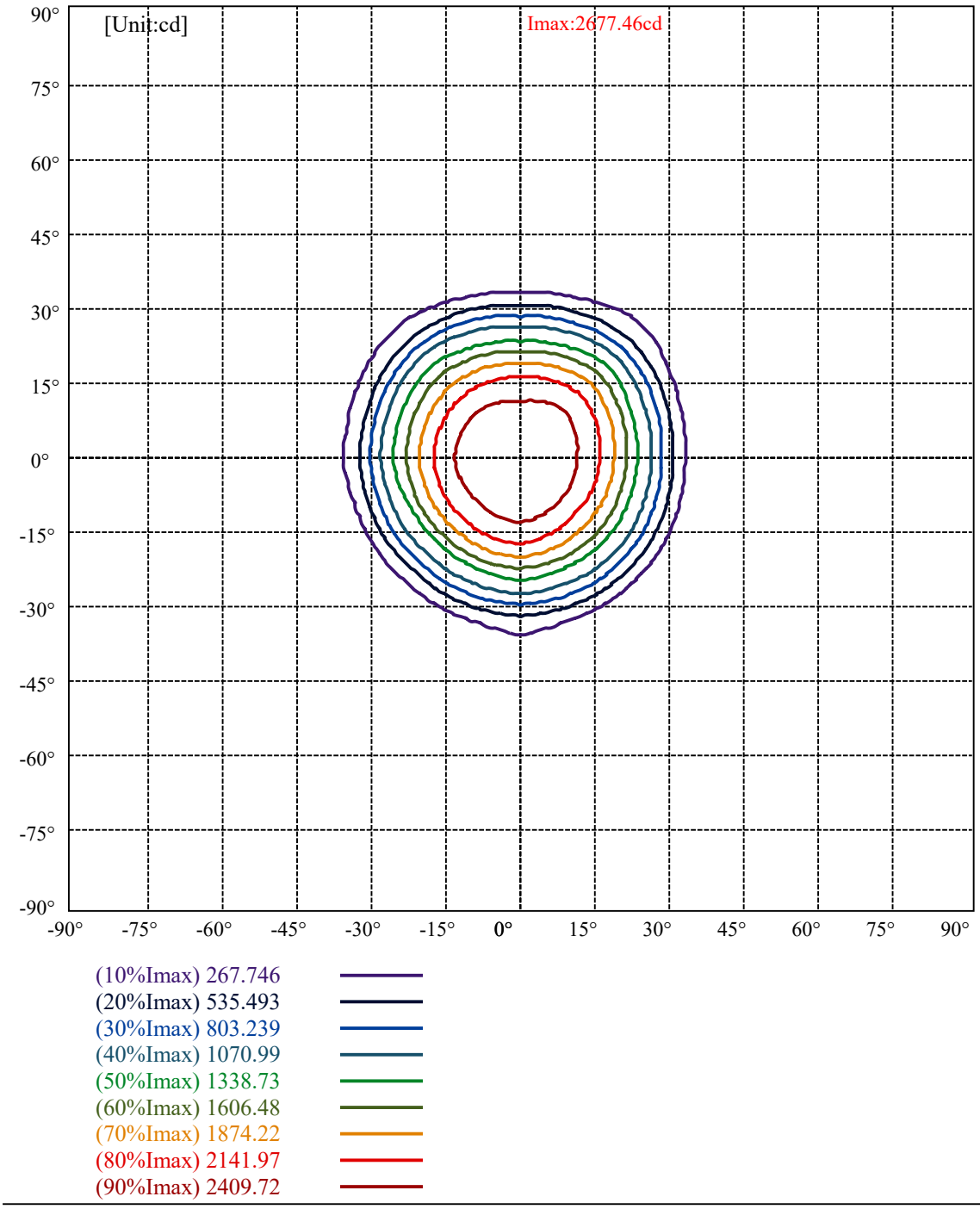
Lux distance Curve



Max , Ave

Beam angle of C270 plane 47.79

ISO-Intensity(V-H)



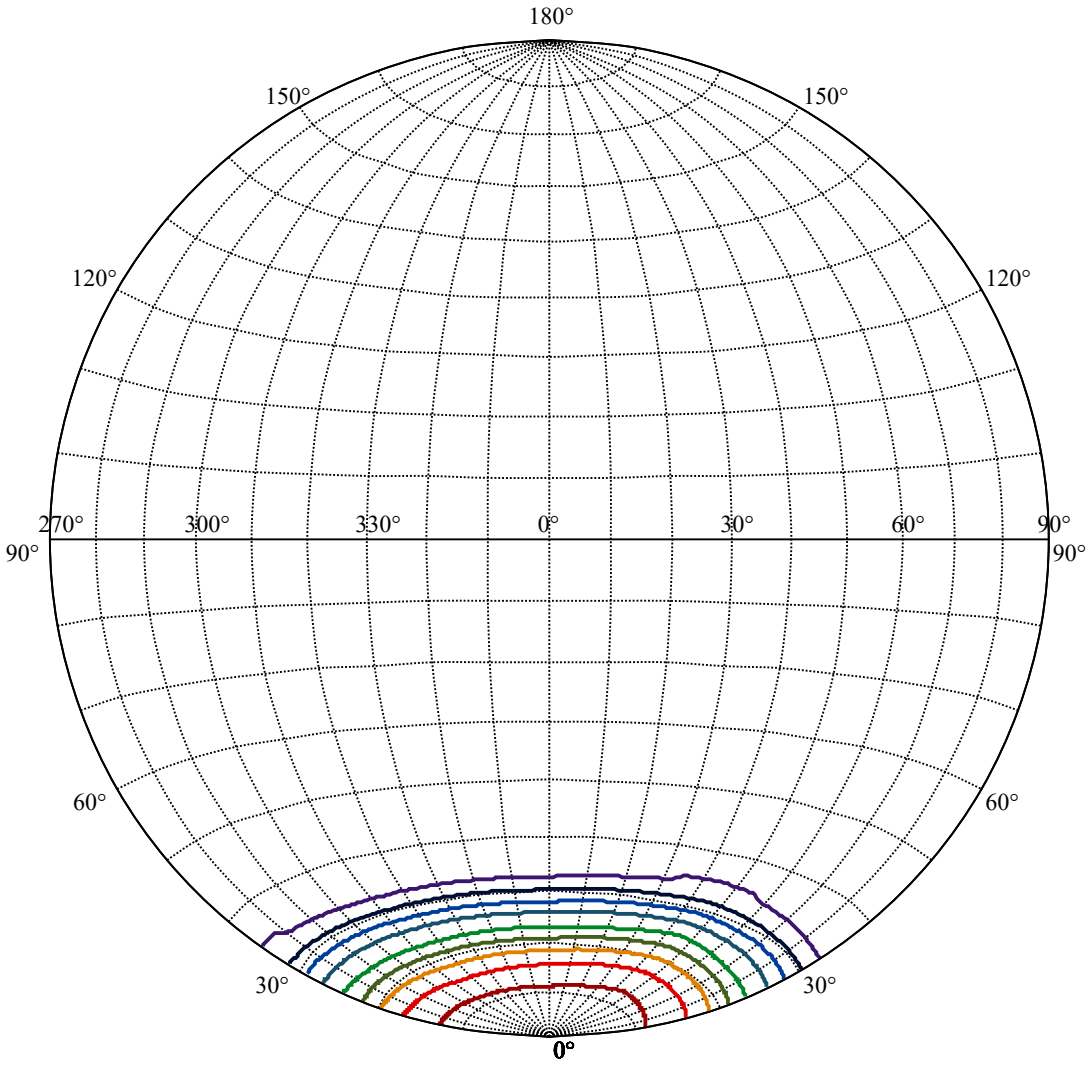
(10%Imax) 267.746
(20%Imax) 535.493
(30%Imax) 803.239
(40%Imax) 1070.99
(50%Imax) 1338.73
(60%Imax) 1606.48
(70%Imax) 1874.22
(80%Imax) 2141.97
(90%Imax) 2409.72

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/2/19
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

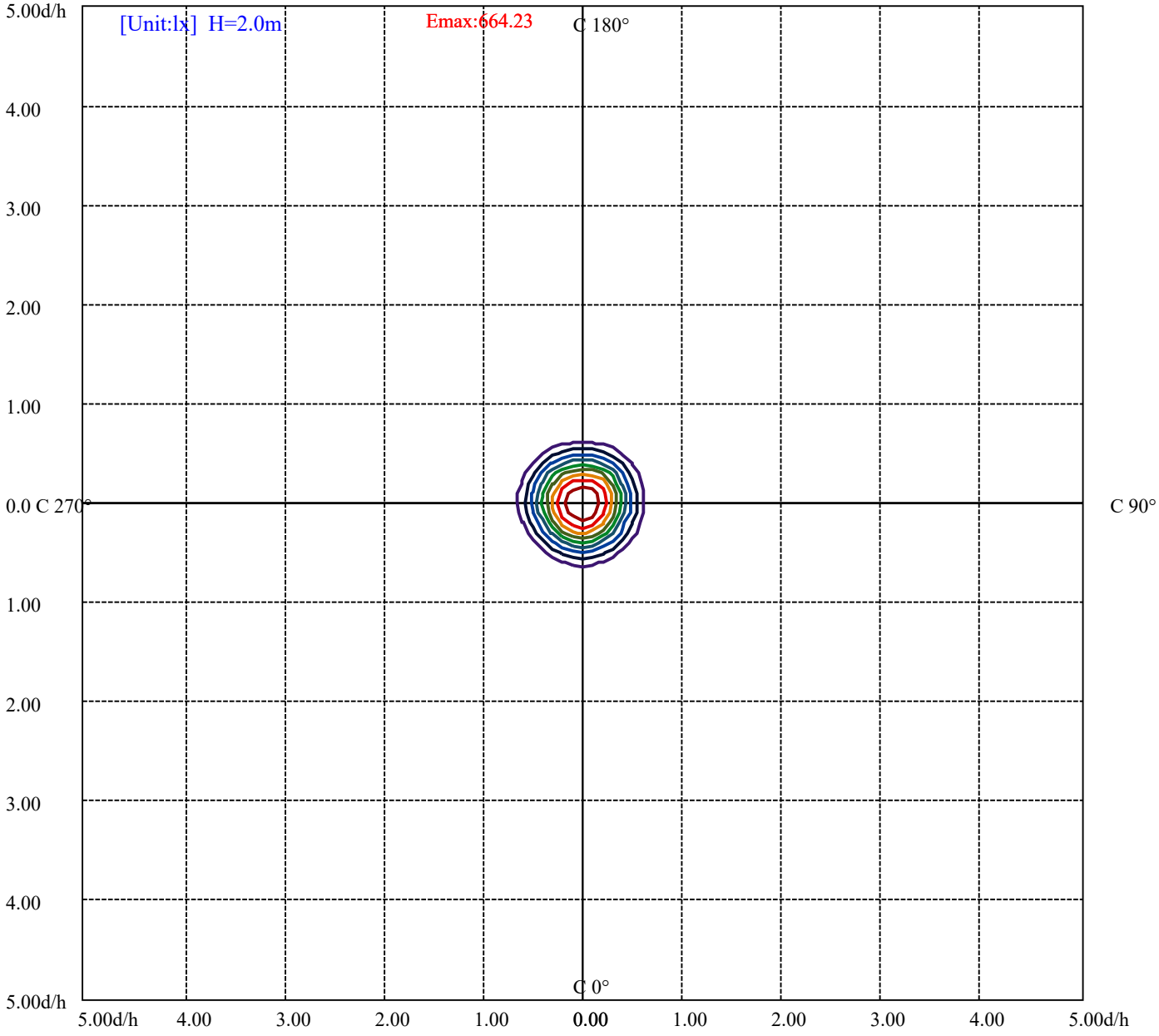
Imax:2677.46

(10%Imax) 268.033
(20%Imax) 536.066
(30%Imax) 804.099
(40%Imax) 1072.13
(50%Imax) 1340.17
(60%Imax) 1608.2
(70%Imax) 1876.23
(80%Imax) 2144.26
(90%Imax) 2412.3

Equipment: GMS1980 Date: 2025/2/19 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

NT NT 1-1586-L

ISO illuminance diagram

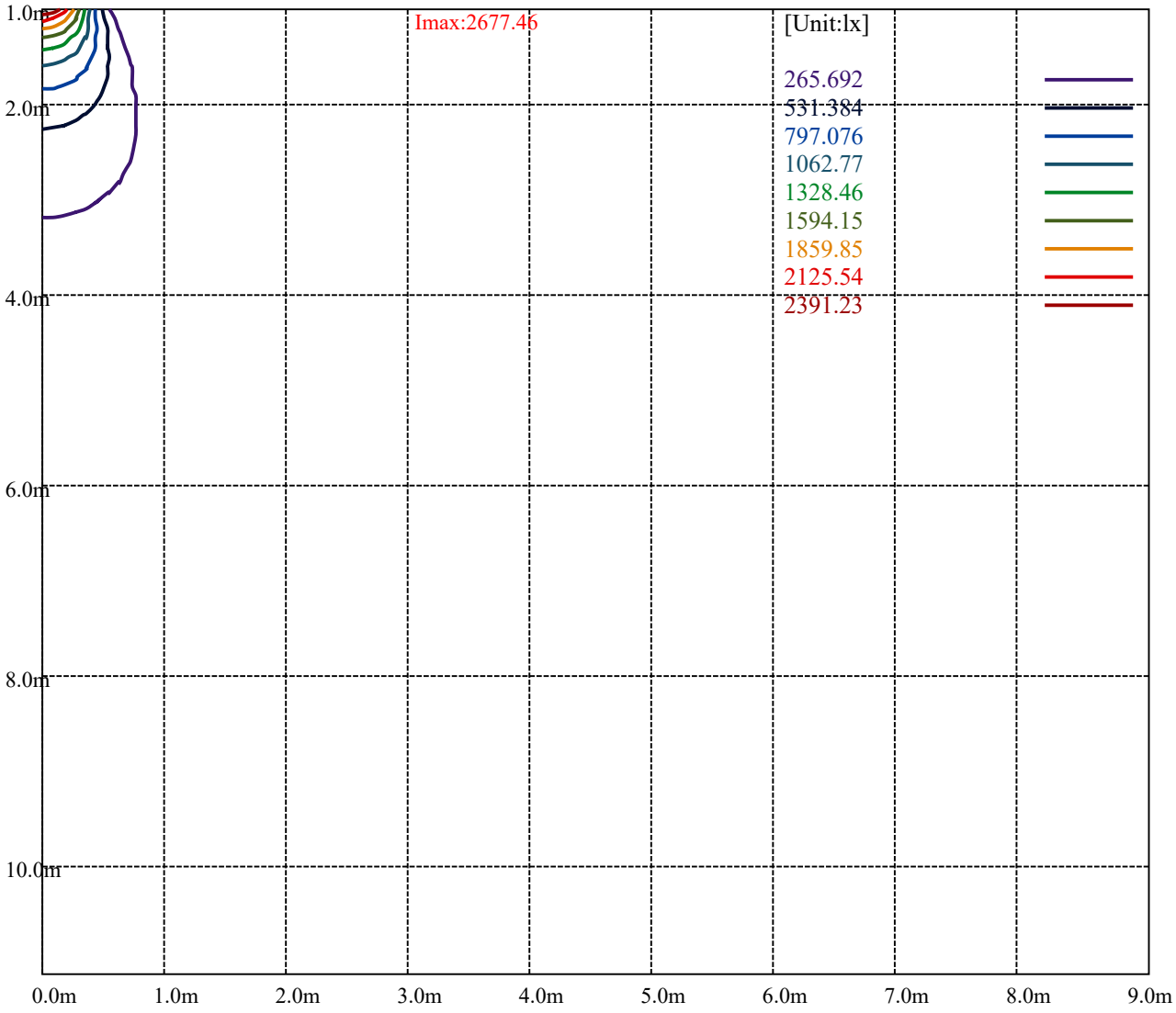


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/2/19
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980 Date: 2025/2/19 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

NT NT 1-1586-L

Luminance Limitting Curve(no luminous side)

Luminance Table

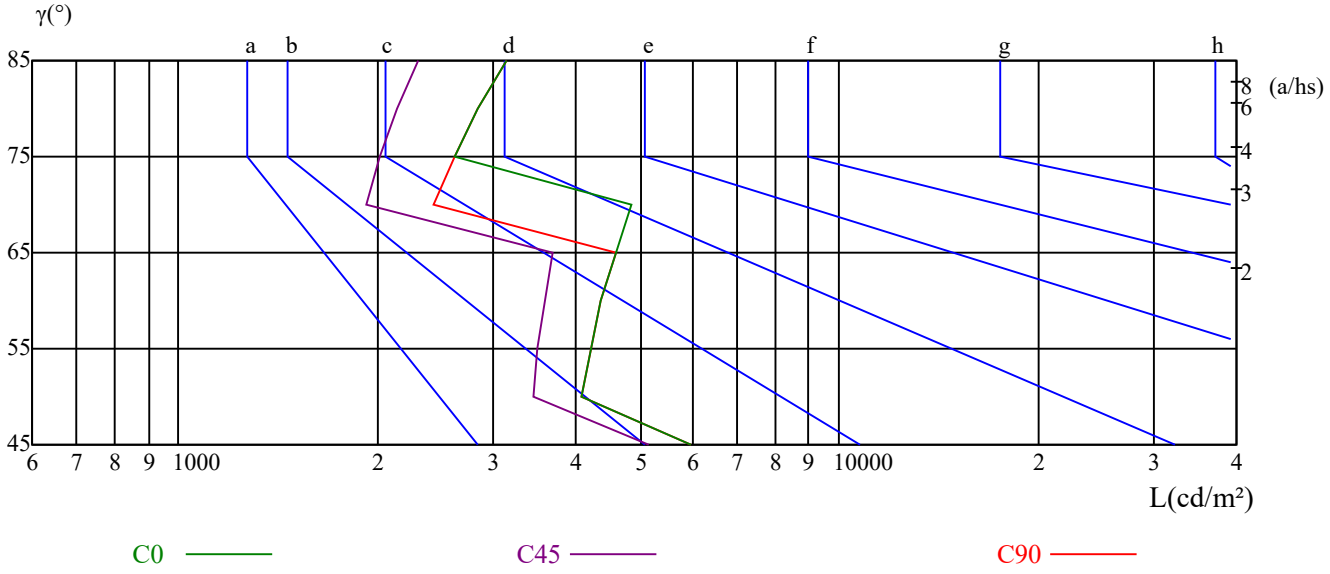
γ	45	50	55	60	65	70	75	80	85
C0	5983	4077	4202	4369	4586	4866	2612	2842	3144
C45	5137	3448	3499	3578	3691	1920	2017	2142	2302
C90	5983	4077	4202	4369	4586	2433	2612	2842	3144

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11078	11078	11078	13567	9045	9045	26859	26859	26859

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

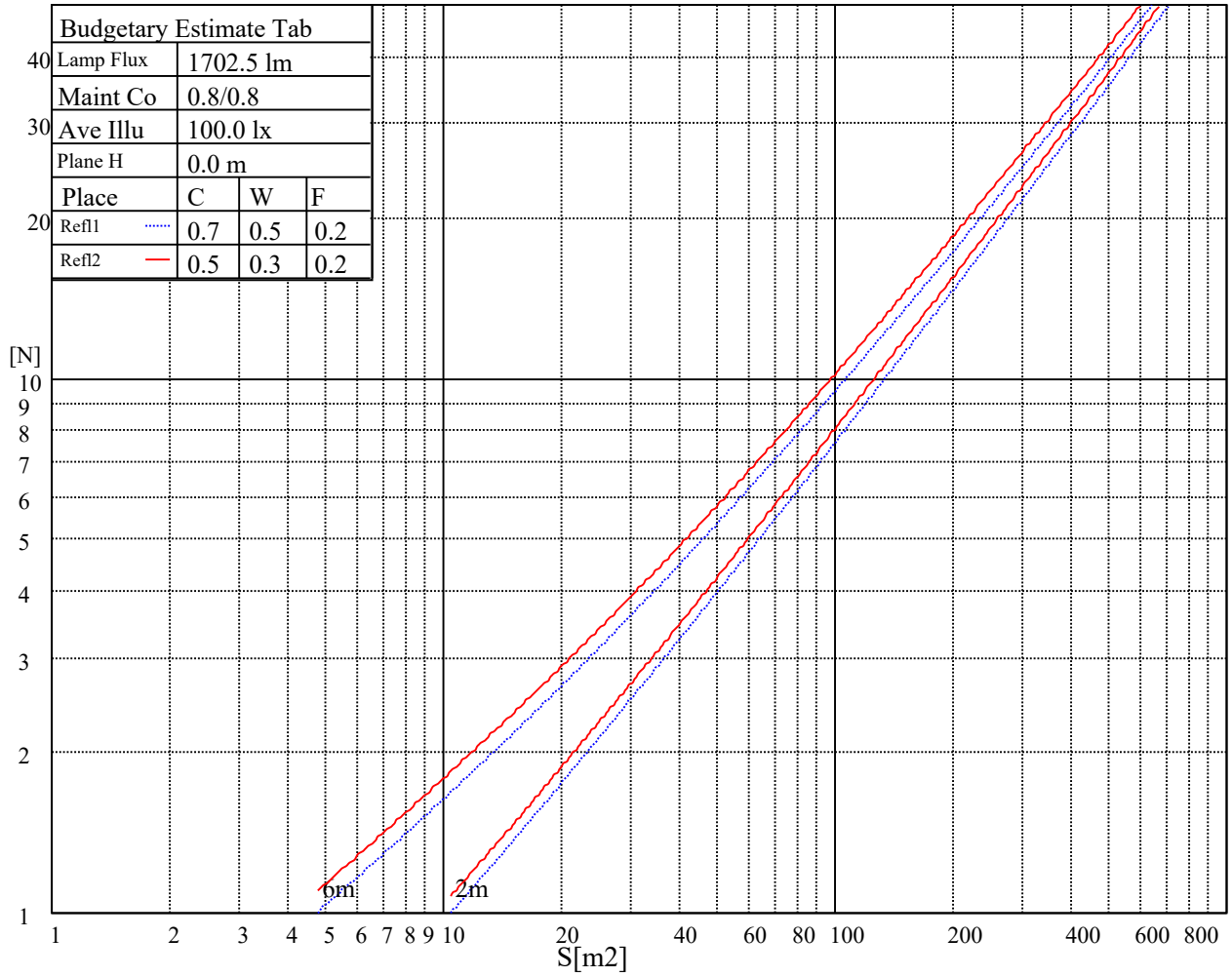
Date: 2025/2/19
Humidity(%): 60.0%

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	13.71	14.64	14.07	14.95	15.26	13.83	14.76	14.19	15.07	15.38
	3H	13.89	14.72	14.27	15.05	15.40	13.98	14.81	14.37	15.15	15.49
	4H	14.11	14.88	14.51	15.23	15.60	14.18	14.95	14.58	15.30	15.67
	6H	14.48	15.18	14.90	15.56	15.96	14.52	15.22	14.94	15.60	16.00
	8H	14.70	15.36	15.12	15.75	16.16	14.72	15.39	15.15	15.78	16.19
	12H	14.94	15.57	15.37	15.97	16.39	14.96	15.59	15.38	15.98	16.40
4H	2H	13.51	14.28	13.91	14.63	15.00	13.63	14.39	14.03	14.75	15.12
	3H	13.82	14.47	14.25	14.86	15.28	13.90	14.55	14.33	14.94	15.36
	4H	14.23	14.79	14.67	15.22	15.67	14.29	14.84	14.72	15.27	15.72
	6H	14.77	15.27	15.25	15.72	16.17	14.80	15.29	15.27	15.74	16.19
	8H	15.14	15.60	15.63	16.05	16.53	15.14	15.60	15.63	16.06	16.53
	12H	15.55	15.97	16.04	16.42	16.95	15.54	15.96	16.03	16.41	16.93
8H	4H	14.28	14.74	14.77	15.20	15.67	14.33	14.79	14.82	15.25	15.72
	6H	15.01	15.38	15.52	15.86	16.37	15.02	15.40	15.53	15.88	16.39
	8H	15.56	15.87	16.10	16.40	16.89	15.56	15.87	16.09	16.39	16.89
	12H	16.15	16.38	16.69	16.90	17.42	16.12	16.36	16.67	16.88	17.40
12H	4H	14.29	14.71	14.78	15.17	15.69	14.34	14.76	14.83	15.22	15.74
	6H	15.12	15.43	15.66	15.96	16.45	15.14	15.45	15.67	15.97	16.47
	8H	15.70	15.94	16.25	16.46	16.98	15.70	15.94	16.24	16.45	16.98
Variation with the observer position at spacings:											
S = 1.0H		5.5/-4.1					5.5/-4.1				
S = 1.5H		7.3/-3.0					7.3/-3.1				
S = 2.0H		8.6/-2.4					8.5/-2.4				
Standard tables:		BK3					BK3				
Uncorrected UGR		-2.7					-2.7				

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

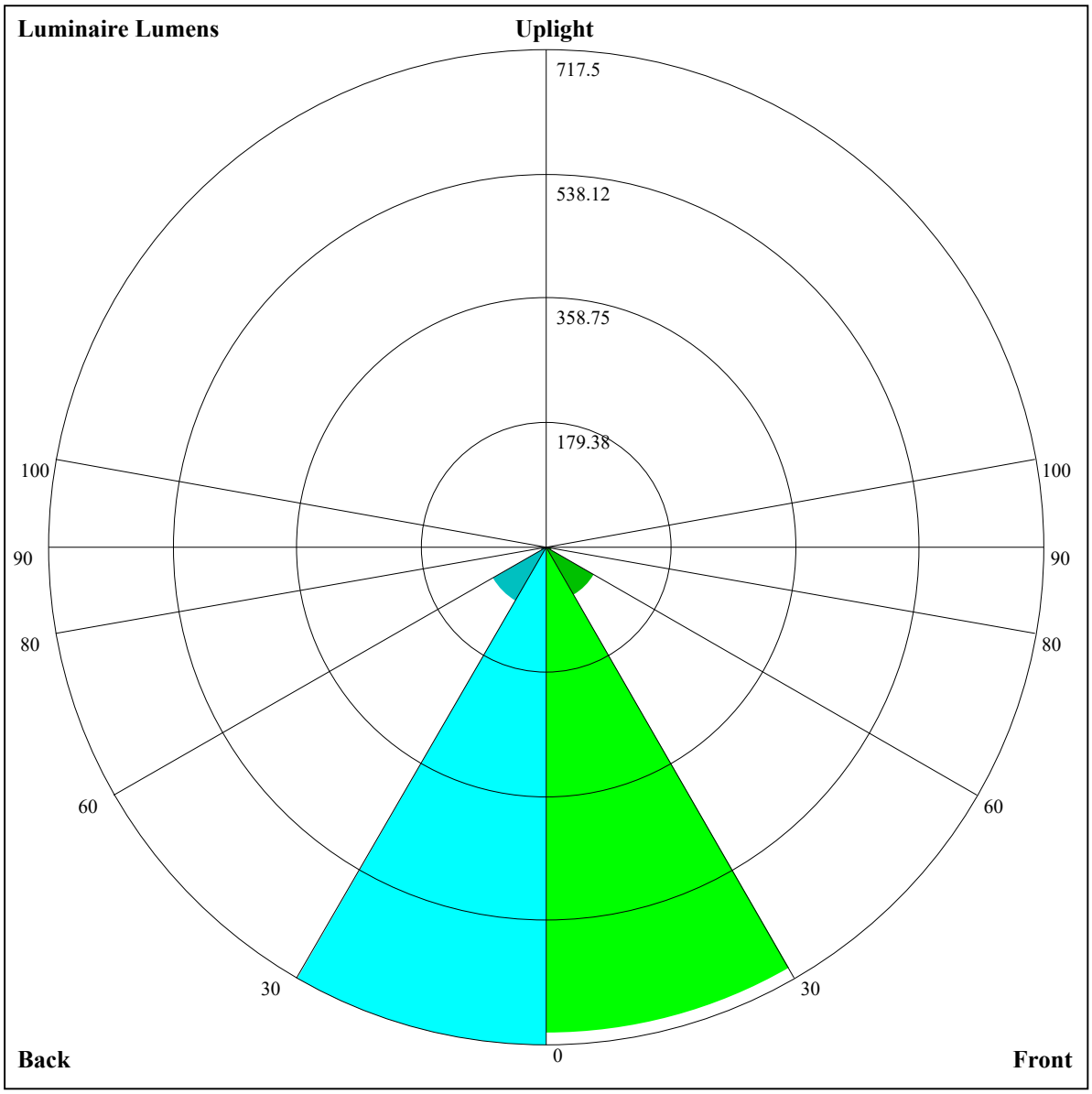
Budgetary Estimate Table



Equipment: GMS1980 Date: 2025/2/19 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	1.13	1.13	1.13	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.05	1.03	1.01	1.03	1.01	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.99	0.96	0.93	0.97	0.94	0.92	0.94	0.92	0.90	0.92	0.90	0.88	0.89	0.87	0.86	0.84
3	0.93	0.89	0.86	0.92	0.88	0.85	0.90	0.86	0.84	0.87	0.85	0.82	0.85	0.83	0.81	0.80
4	0.88	0.84	0.80	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.82	0.79	0.77	0.76
5	0.84	0.79	0.75	0.83	0.78	0.75	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.72
6	0.80	0.75	0.71	0.79	0.74	0.71	0.78	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.68
7	0.76	0.71	0.67	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.65
8	0.72	0.67	0.64	0.72	0.67	0.64	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.62
9	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.59
10	0.66	0.61	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.64	0.60	0.57	0.56



Luminaire Lumens:
FL=702.27,FM=80.8,FH=9.11,FVH=4.22
BL=717.5,BM=90.84,BH=9.21,BVH=4.24
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	2655.22	2658.15	2664.00	2650.54	2623.04	2606.07	2594.36	2573.29	2541.11
45.0	2656.98	2654.05	2651.71	2647.62	2633.57	2610.16	2591.43	2581.49	2570.37
90.0	2653.47	2642.35	2639.42	2621.28	2606.65	2585.58	2575.63	2553.98	2529.99
135.0	2663.42	2654.05	2635.33	2624.79	2603.72	2583.24	2569.78	2562.17	2552.22
180.0	2655.22	2654.05	2640.59	2639.42	2626.55	2597.29	2582.66	2574.46	2568.03
225.0	2656.98	2656.98	2658.74	2644.11	2619.53	2597.87	2589.09	2581.49	2558.66
270.0	2653.47	2662.25	2666.93	2677.46	2670.44	2654.64	2633.57	2618.36	2601.97
315.0	2662.83	2666.93	2671.61	2665.76	2644.69	2619.53	2611.33	2600.80	2580.32
360.0	2655.22	2658.15	2664.00	2650.54	2623.04	2606.07	2594.36	2573.29	2541.11

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2507.75	2466.20	2427.57	2361.44	2313.45	2266.05	2191.14	2129.11	2048.93
45.0	2550.47	2518.28	2486.68	2454.49	2406.50	2360.27	2307.60	2246.74	2165.39
90.0	2493.70	2457.42	2422.30	2368.46	2323.99	2276.00	2202.85	2143.74	2065.32
135.0	2529.40	2506.58	2474.98	2435.76	2395.38	2347.40	2268.98	2202.26	2119.74
180.0	2551.05	2527.06	2486.68	2453.32	2412.94	2350.91	2296.48	2237.37	2159.54
225.0	2537.59	2498.38	2466.78	2422.89	2367.88	2310.53	2253.17	2194.65	2093.41
270.0	2577.97	2547.54	2507.75	2453.32	2401.82	2345.06	2287.12	2211.04	2150.18
315.0	2546.96	2484.92	2439.28	2388.36	2312.28	2249.66	2172.41	2105.11	2017.91
360.0	2507.75	2466.20	2427.57	2361.44	2313.45	2266.05	2191.14	2129.11	2048.93

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1934.81	1832.98	1707.75	1604.16	1499.40	1392.31	1149.44	1149.44	1073.19
45.0	2089.90	2002.70	1904.38	1780.31	1676.73	1566.71	1458.44	1330.27	1231.37
90.0	1943.01	1842.93	1733.49	1623.47	1490.04	1378.85	1155.47	1155.47	1066.87
135.0	2049.52	1962.32	1849.37	1759.24	1667.95	1573.73	1448.49	1346.66	1246.59
180.0	2092.24	1985.14	1891.51	1792.60	1695.46	1570.22	1470.73	1372.41	1275.26
225.0	1999.19	1892.09	1789.09	1653.32	1549.73	1417.47	1145.05	1145.05	1095.54
270.0	2072.34	1952.95	1846.44	1732.91	1597.14	1488.29	1385.87	1264.14	1171.09
315.0	1930.13	1805.48	1710.09	1614.11	1514.04	1387.04	1152.72	1152.72	1104.09
360.0	1934.81	1832.98	1707.75	1604.16	1499.40	1392.31	1149.44	1149.44	1073.19

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	957.66	809.31	689.34	569.66	463.32	335.92	247.90	157.72	100.07
45.0	1113.16	1004.30	849.81	722.81	605.18	489.89	364.07	316.08	316.08
90.0	961.88	818.09	703.73	587.27	445.53	342.30	252.06	178.96	107.68
135.0	1151.78	1049.37	897.21	775.48	619.23	503.94	402.11	306.72	306.72
180.0	1155.88	1055.80	938.76	778.99	653.17	532.61	399.77	303.21	303.21
225.0	986.69	859.99	730.24	579.20	466.19	365.00	272.77	178.38	119.62
270.0	1072.19	965.09	822.30	695.31	582.94	472.34	342.42	296.18	296.18
315.0	968.14	844.95	721.82	603.31	463.91	364.07	253.40	177.79	116.87
360.0	957.66	809.31	689.34	569.66	463.32	335.92	247.90	157.72	100.07

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	65.02	46.17	39.44	34.06	29.14	23.35	21.07	19.02	17.03
45.0	118.57	74.73	47.11	40.20	34.65	28.68	24.52	21.30	19.02
90.0	71.16	51.32	43.89	37.63	33.36	29.55	25.57	23.82	21.83
135.0	133.96	75.32	50.56	41.14	35.17	29.44	25.93	23.64	22.06
180.0	134.54	84.39	54.60	42.19	35.05	30.72	27.45	24.58	22.82
225.0	75.96	50.21	43.95	39.33	34.53	30.90	27.68	25.40	23.88
270.0	107.97	69.35	49.28	41.84	36.99	33.07	28.15	25.11	23.35
315.0	65.49	46.82	39.97	34.53	28.85	24.81	21.54	19.08	17.44
360.0	65.02	46.17	39.44	34.06	29.14	23.35	21.07	19.02	17.03

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	16.04	15.10	14.40	13.69	13.11	12.70	12.11	11.76	11.29
45.0	17.44	16.15	15.22	14.46	13.87	13.17	12.70	12.23	11.76
90.0	19.66	18.26	16.80	15.92	15.04	14.40	13.93	13.17	12.70
135.0	20.48	19.37	18.38	17.32	16.50	15.63	14.69	14.10	13.52
180.0	21.71	20.54	19.49	18.79	17.85	16.80	16.04	15.10	14.40
225.0	22.41	20.89	19.37	18.20	17.26	16.04	15.10	14.28	13.69
270.0	21.71	19.72	18.49	17.38	16.21	15.39	14.63	13.87	13.05
315.0	16.15	15.27	14.34	13.75	13.17	12.64	12.17	11.59	11.24
360.0	16.04	15.10	14.40	13.69	13.11	12.70	12.11	11.76	11.29

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.00	10.77	10.53	10.36	10.18	10.07	9.95	9.89	9.77
45.0	11.29	11.00	10.65	10.36	10.18	9.95	9.83	9.71	9.60
90.0	12.17	11.59	11.12	10.89	10.65	10.42	10.12	9.95	9.89
135.0	12.93	12.58	12.17	11.53	11.12	10.71	10.42	10.24	10.12
180.0	13.93	13.34	12.64	12.23	11.88	11.47	11.06	10.83	10.59
225.0	12.93	12.35	11.65	11.12	10.77	10.36	10.07	9.89	9.71
270.0	12.52	11.82	11.29	10.77	10.42	10.07	9.83	9.66	9.54
315.0	10.94	10.59	10.36	10.18	10.01	9.89	9.77	9.66	9.54
360.0	11.00	10.77	10.53	10.36	10.18	10.07	9.95	9.89	9.77

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.71	9.60	9.48	9.36	9.25	9.13	9.07	9.01	8.90
45.0	9.48	9.31	9.13	8.95	8.90	8.78	8.78	8.72	8.66
90.0	9.71	9.48	9.31	9.13	8.95	8.90	8.84	8.72	8.66
135.0	10.07	9.89	9.71	9.48	9.13	8.95	8.84	8.78	8.72
180.0	10.42	10.30	10.12	9.89	9.60	9.36	9.25	9.19	9.13
225.0	9.54	9.42	9.31	9.07	8.90	8.72	8.72	8.66	8.54
270.0	9.42	9.36	9.25	9.13	9.01	9.01	8.90	8.84	8.78
315.0	9.48	9.31	9.19	9.07	9.01	8.90	8.84	8.78	8.72
360.0	9.71	9.60	9.48	9.36	9.25	9.13	9.07	9.01	8.90

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.84	8.78	8.72	8.66	8.60	8.54	8.43	8.37	8.31
45.0	8.60	8.54	8.49	8.43	8.31	8.25	8.25	8.19	8.13
90.0	8.60	8.60	8.49	8.37	8.37	8.31	8.25	8.19	8.13
135.0	8.60	8.54	8.49	8.43	8.37	8.31	8.25	8.19	8.08
180.0	9.07	9.01	8.90	8.84	8.72	8.66	8.60	8.54	8.49
225.0	8.49	8.43	8.37	8.31	8.25	8.19	8.13	8.08	8.02
270.0	8.72	8.66	8.54	8.54	8.43	8.37	8.31	8.25	8.19
315.0	8.66	8.54	8.49	8.43	8.37	8.31	8.31	8.19	8.13
360.0	8.84	8.78	8.72	8.66	8.60	8.54	8.43	8.37	8.31

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.25	8.19	8.02	7.96	7.84	7.67	7.55	7.49	7.32
45.0	8.02	7.96	7.90	7.84	7.78	7.61	7.55	7.43	7.37
90.0	8.02	8.02	7.90	7.78	7.61	7.55	7.43	7.43	7.37
135.0	8.08	8.02	7.96	7.90	7.72	7.67	7.61	7.49	7.43
180.0	8.43	8.31	8.25	8.13	8.02	7.84	7.78	7.72	7.61
225.0	7.96	7.90	7.84	7.78	7.67	7.61	7.55	7.43	7.37
270.0	8.13	8.02	7.96	7.84	7.72	7.61	7.55	7.43	7.37
315.0	8.08	7.96	7.96	7.84	7.72	7.55	7.43	7.37	7.32
360.0	8.25	8.19	8.02	7.96	7.84	7.67	7.55	7.49	7.32

Intensity data(cd)

C/γ(°)	90.0
0.0	7.32
45.0	7.32
90.0	7.32
135.0	7.32
180.0	7.37
225.0	7.32
270.0	7.37
315.0	7.32
360.0	7.32