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: NT
LumCAT: 1-1606-L
Luminaire: 92.70.410.00 LED HOLDER
Report No: 20250317-B003
Ballast type: DC

Test No: 20250317-C003	Voltage(V): 35.020
LampCAT: LUMILEDS LUXEON COB 1203	Current(A): 0.301
Lamp flux(lm): 1719.3	Power (W): 10.541
Number of Lamps: 1	PF: 0.000
Length(mm): 50	Width(mm): 50
Phm Type: C	Height(mm): 33

Photometric Results

Lumens(lm): 1655.93, Efficiency(%): 96.32% , Luminous Efficacy(lm/W): 157.09
Central intensity(cd): 3746.669, Maximum intensity(cd): 3760.715
Angle of maximum intensity: C=45.0 γ=2.0
Beam Angle(50%Imax): [C0/180]Total=39.2
[C90/270]Total=39.1
Field angle(10%Imax): [C0/180]Total=62.2
[C90/270]Total=62.3
Maximum s/h(1/2): C0_180=0.69 C90_270=0.64
Maximum s/h(1/4): C0_180=0.64 C90_270=0.57
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.05%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.851%

Equipment: GMS1980	Date: 2025/3/20	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	3751.058	0.000	0	0.00%	0.00%
1.0	3742.938	3.586	3.586	0.21%	0.22%
2.0	3721.724	10.714	14.3	0.62%	0.86%
3.0	3691.731	17.731	32.03	1.03%	1.93%
4.0	3654.935	24.592	56.622	1.43%	3.42%
5.0	3601.679	31.218	87.839	1.82%	5.30%
6.0	3542.279	37.543	125.383	2.18%	7.57%
7.0	3477.100	43.569	168.952	2.53%	10.20%
8.0	3405.629	49.258	218.21	2.87%	13.18%
9.0	3327.794	54.571	272.781	3.17%	16.47%
10.0	3256.177	59.583	332.364	3.47%	20.07%
11.0	3171.905	64.230	396.593	3.74%	23.95%
12.0	3072.490	68.260	464.854	3.97%	28.07%
13.0	2948.642	71.456	536.309	4.16%	32.39%
14.0	2828.012	73.941	610.25	4.30%	36.85%
15.0	2690.045	75.754	686.004	4.41%	41.43%
16.0	2540.886	76.648	762.652	4.46%	46.06%
17.0	2360.198	76.323	838.975	4.44%	50.66%
18.0	2172.633	74.737	913.712	4.35%	55.18%
19.0	1988.507	72.395	986.107	4.21%	59.55%
20.0	1809.501	69.514	1055.621	4.04%	63.75%
21.0	1569.544	64.885	1120.506	3.77%	67.67%
22.0	1352.045	58.711	1179.216	3.41%	71.21%
23.0	1259.668	54.801	1234.017	3.19%	74.52%
24.0	1136.522	52.389	1286.406	3.05%	77.68%
25.0	996.389	48.498	1334.904	2.82%	80.61%
26.0	875.445	44.185	1379.089	2.57%	83.28%
27.0	771.875	40.302	1419.391	2.34%	85.72%
28.0	674.347	36.615	1456.006	2.13%	87.93%
29.0	573.477	32.647	1488.653	1.90%	89.90%
30.0	477.171	28.367	1517.02	1.65%	91.61%
31.0	395.078	24.273	1541.294	1.41%	93.08%
32.0	315.685	20.363	1561.656	1.18%	94.31%
33.0	250.023	16.666	1578.322	0.97%	95.31%
34.0	204.478	13.755	1592.077	0.80%	96.14%
35.0	118.157	10.020	1602.096	0.58%	96.75%
36.0	67.930	5.925	1608.021	0.34%	97.11%
37.0	37.359	3.434	1611.455	0.20%	97.31%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	23.343	2.026	1613.482	0.12%	97.44%
39.0	18.764	1.437	1614.919	0.08%	97.52%
40.0	16.518	1.231	1616.149	0.07%	97.60%
41.0	14.250	1.096	1617.245	0.06%	97.66%
42.0	12.363	0.967	1618.212	0.06%	97.72%
43.0	11.244	0.874	1619.086	0.05%	97.77%
44.0	10.783	0.831	1619.918	0.05%	97.83%
45.0	10.417	0.815	1620.732	0.05%	97.87%
46.0	10.081	0.802	1621.534	0.05%	97.92%
47.0	9.839	0.792	1622.326	0.05%	97.97%
48.0	9.642	0.788	1623.114	0.05%	98.02%
49.0	9.459	0.784	1623.898	0.05%	98.07%
50.0	9.305	0.782	1624.68	0.05%	98.11%
51.0	9.100	0.779	1625.459	0.05%	98.16%
52.0	8.947	0.774	1626.233	0.05%	98.21%
53.0	8.793	0.772	1627.005	0.04%	98.25%
54.0	8.683	0.770	1627.775	0.04%	98.30%
55.0	8.537	0.769	1628.544	0.04%	98.35%
56.0	8.435	0.767	1629.311	0.04%	98.39%
57.0	8.325	0.766	1630.077	0.04%	98.44%
58.0	8.222	0.765	1630.843	0.04%	98.48%
59.0	8.105	0.763	1631.606	0.04%	98.53%
60.0	8.010	0.761	1632.367	0.04%	98.58%
61.0	7.915	0.760	1633.127	0.04%	98.62%
62.0	7.879	0.761	1633.888	0.04%	98.67%
63.0	7.820	0.764	1634.652	0.04%	98.71%
64.0	7.769	0.765	1635.417	0.04%	98.76%
65.0	7.725	0.767	1636.183	0.04%	98.81%
66.0	7.696	0.769	1636.953	0.04%	98.85%
67.0	7.659	0.772	1637.725	0.04%	98.90%
68.0	7.623	0.774	1638.499	0.05%	98.95%
69.0	7.601	0.777	1639.276	0.05%	98.99%
70.0	7.557	0.778	1640.054	0.05%	99.04%
71.0	7.535	0.780	1640.834	0.05%	99.09%
72.0	7.513	0.782	1641.617	0.05%	99.14%
73.0	7.506	0.785	1642.402	0.05%	99.18%
74.0	7.491	0.788	1643.19	0.05%	99.23%
75.0	7.462	0.790	1643.98	0.05%	99.28%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.447	0.791	1644.772	0.05%	99.33%
77.0	7.454	0.794	1645.566	0.05%	99.37%
78.0	7.425	0.797	1646.363	0.05%	99.42%
79.0	7.410	0.797	1647.16	0.05%	99.47%
80.0	7.381	0.797	1647.957	0.05%	99.52%
81.0	7.374	0.798	1648.755	0.05%	99.57%
82.0	7.359	0.799	1649.554	0.05%	99.61%
83.0	7.330	0.799	1650.353	0.05%	99.66%
84.0	7.315	0.798	1651.151	0.05%	99.71%
85.0	7.308	0.798	1651.949	0.05%	99.76%
86.0	7.286	0.798	1652.746	0.05%	99.81%
87.0	7.286	0.798	1653.544	0.05%	99.86%
88.0	7.271	0.797	1654.341	0.05%	99.90%
89.0	7.249	0.796	1655.137	0.05%	99.95%
90.0	7.242	0.795	1655.932	0.05%	100.00%

Zonal flux distribution table

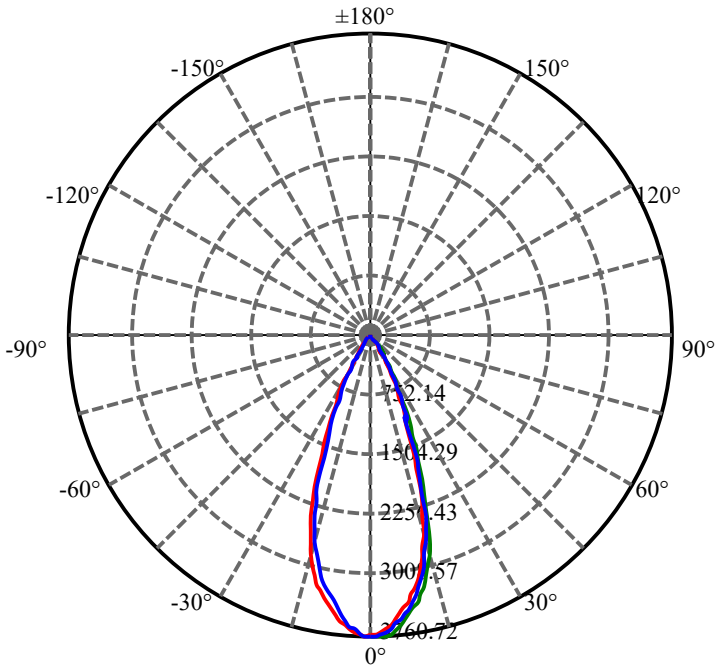
ZONAL LUMEN SUMMARY

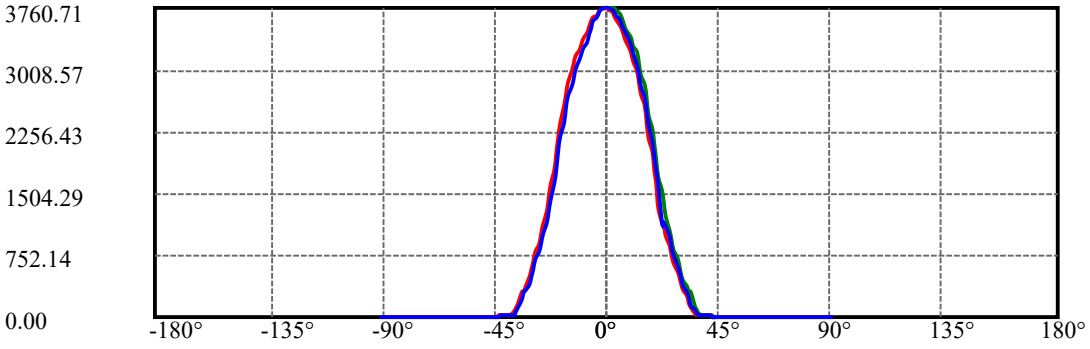
Zone	Lumens	%Lamp	%Fixt
0-30	1517.02	88.24%	91.61%
0-40	1616.15	94.00%	97.60%
0-60	1632.37	94.94%	98.58%
0-90	1655.14	96.27%	99.95%
0-120	1655.14	96.27%	99.95%
0-180	1655.93	96.32%	100.00%
60-90	22.77	1.32%	1.38%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.79	1324.75	77.05%	80.00%

ZONAL LUMEN SUMMARY

0-10	332.36
10-20	723.26
20-30	461.40
30-40	99.13
40-50	8.53
50-60	7.69
60-70	7.69
70-80	7.90
80-90	7.18
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]





C45(Max):

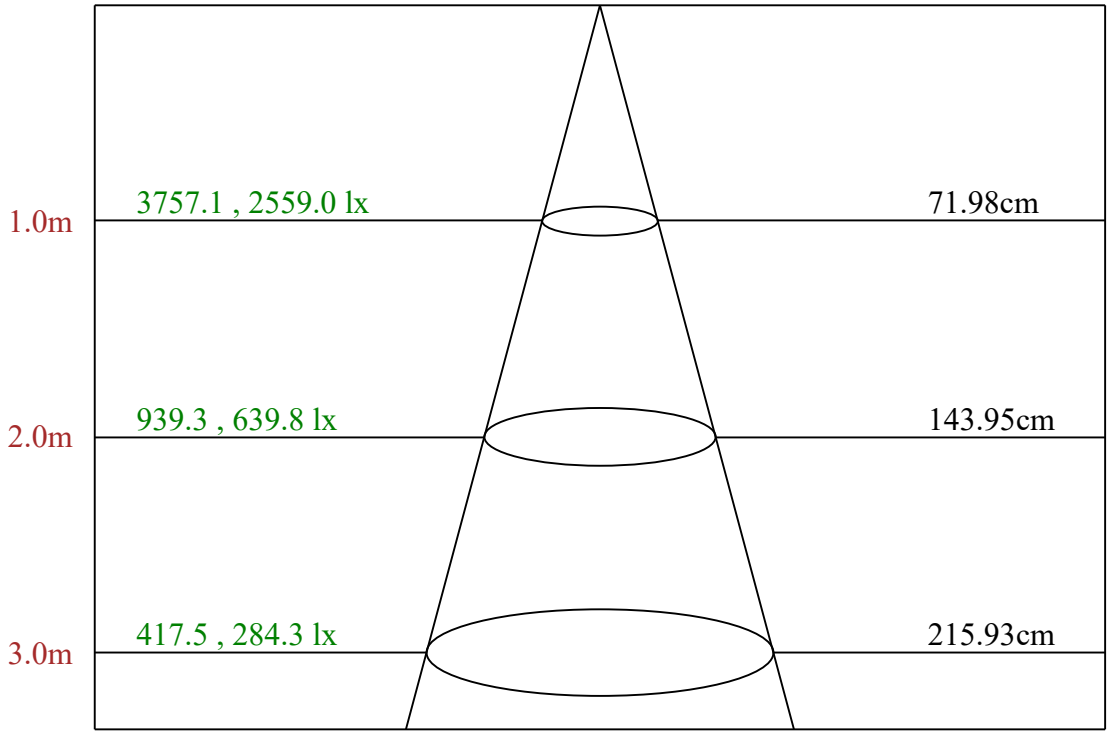
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:31.0 Right:31.2
:C90/270Left:31.4 Right:31.0

Beam Angle(50%Imax):C0/180Left:19.6 Right:19.6
:C90/270Left:19.7 Right:19.4

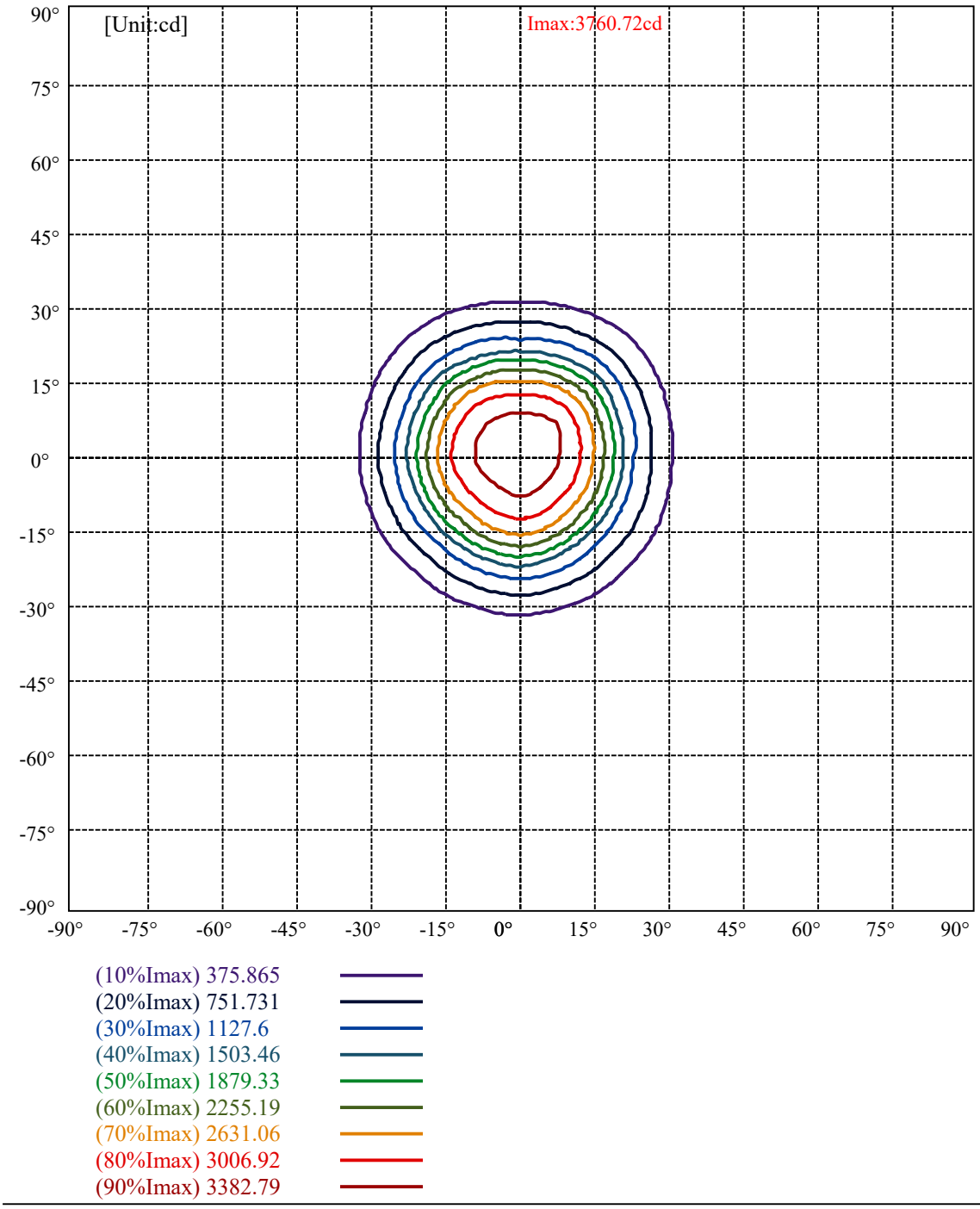
Lux distance Curve



Max , Ave

Beam angle of C45 plane 39.59

ISO-Intensity(V-H)



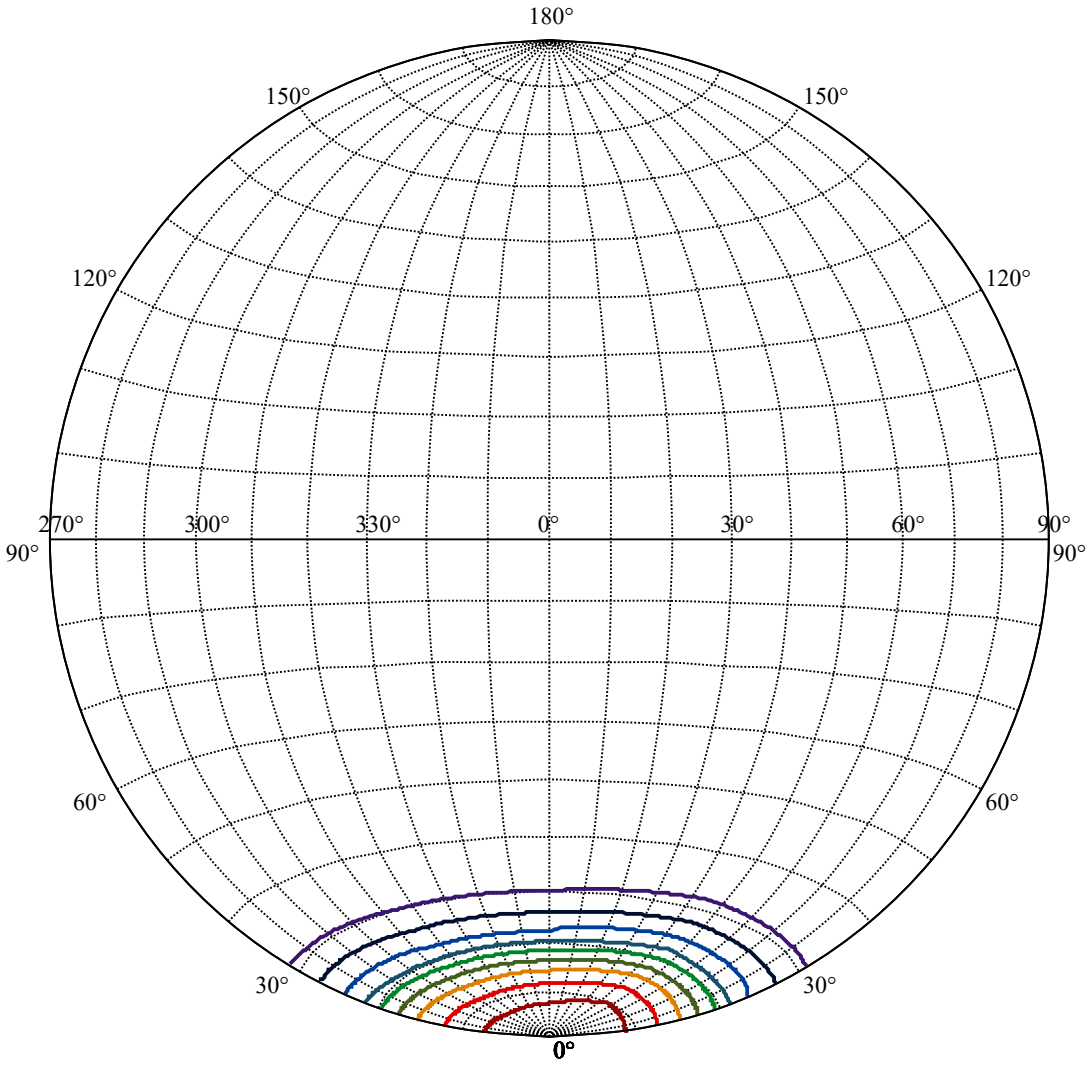
(10%Imax) 375.865
(20%Imax) 751.731
(30%Imax) 1127.6
(40%Imax) 1503.46
(50%Imax) 1879.33
(60%Imax) 2255.19
(70%Imax) 2631.06
(80%Imax) 3006.92
(90%Imax) 3382.79

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/3/20
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

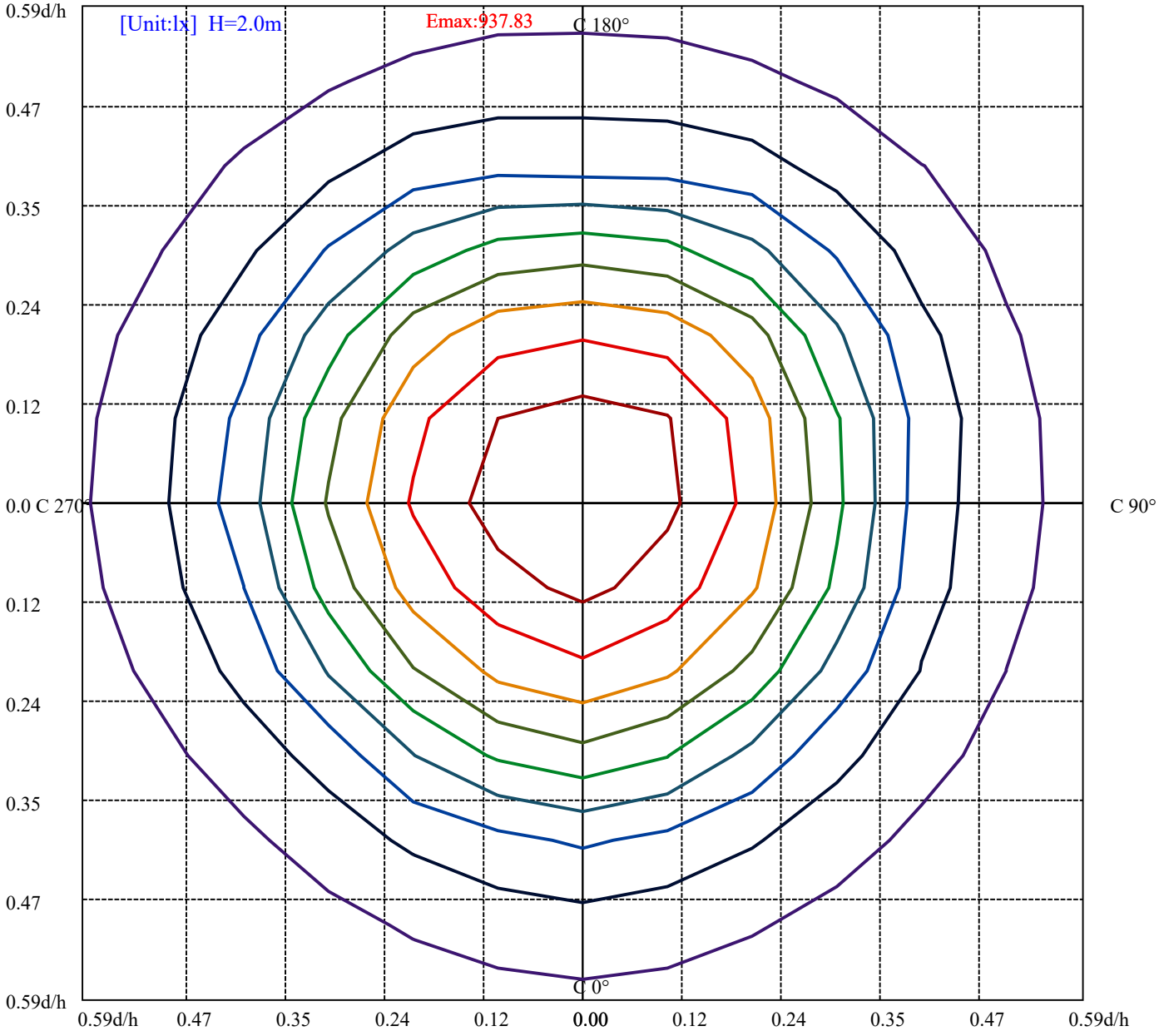
Imax:3760.72

(10%Imax) 376.3
(20%Imax) 752.599
(30%Imax) 1128.9
(40%Imax) 1505.2
(50%Imax) 1881.5
(60%Imax) 2257.8
(70%Imax) 2634.1
(80%Imax) 3010.4
(90%Imax) 3386.7

Equipment: GMS1980 Date: 2025/3/20 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

NT NT 1-1606-L

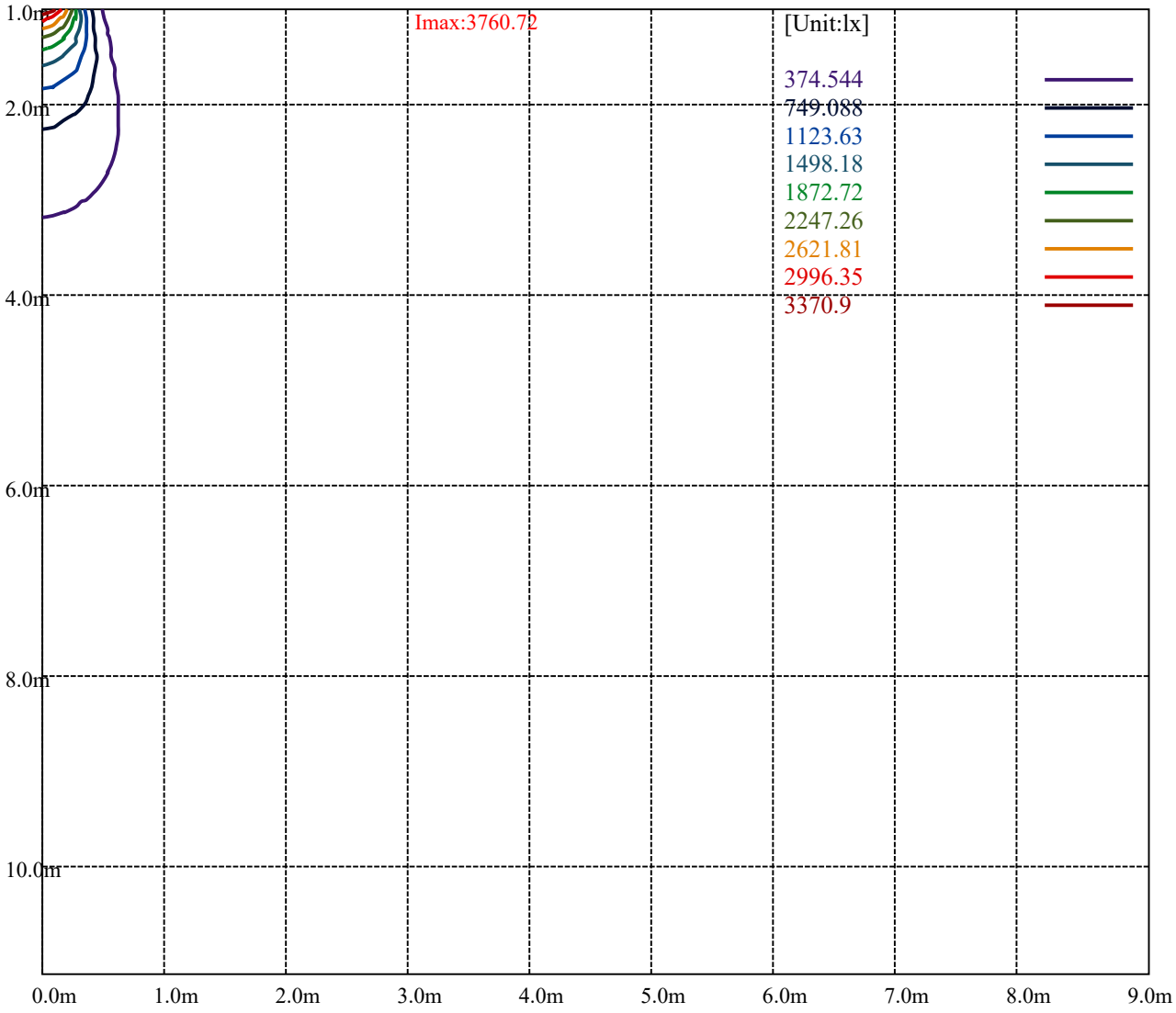
ISO illuminance diagram



(10%Emax) 93.78225
(20%Emax) 187.5647
(30%Emax) 281.3475
(40%Emax) 375.13
(50%Emax) 468.9125
(60%Emax) 562.695
(70%Emax) 656.4775
(80%Emax) 750.2575
(90%Emax) 844.04

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2025/3/20
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980 Date: 2025/3/20 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

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Luminance Limitting Curve(no luminous side)

Luminance Table

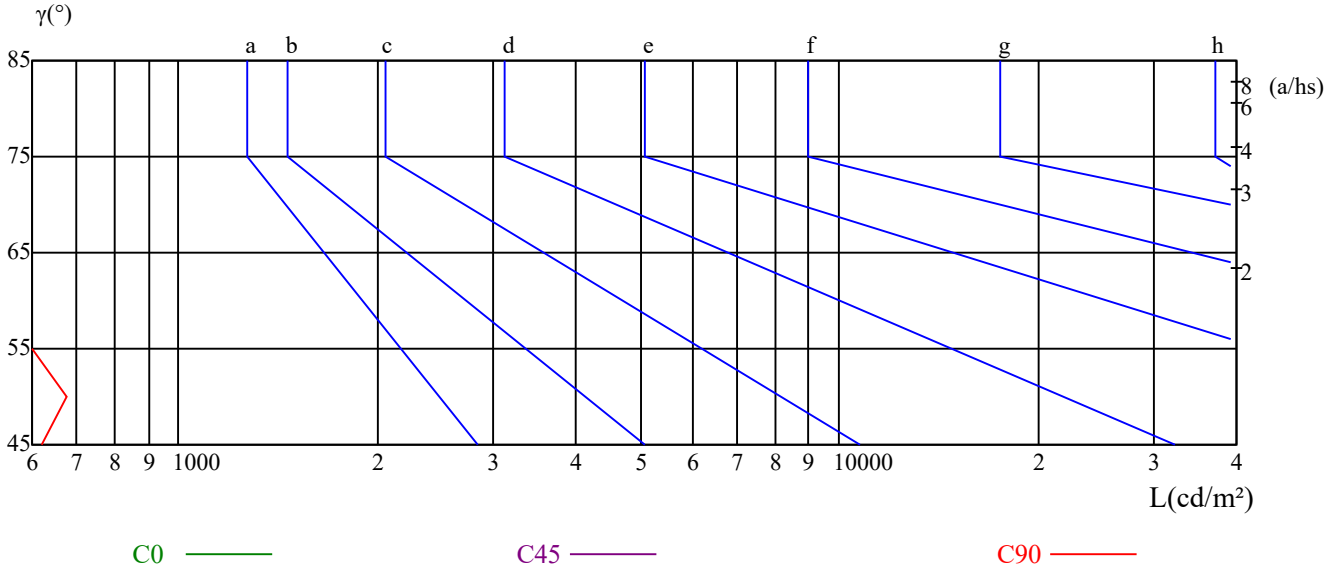
γ	45	50	55	60	65	70	75	80	85
C0	399	408	210	218	300	311	332	358	390
C45	438	452	235	248	345	363	394	434	485
C90	621	675	373	420	485	579	922	1236	1531

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
640	554	597	1027	1027	966	3008	2686	2847

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

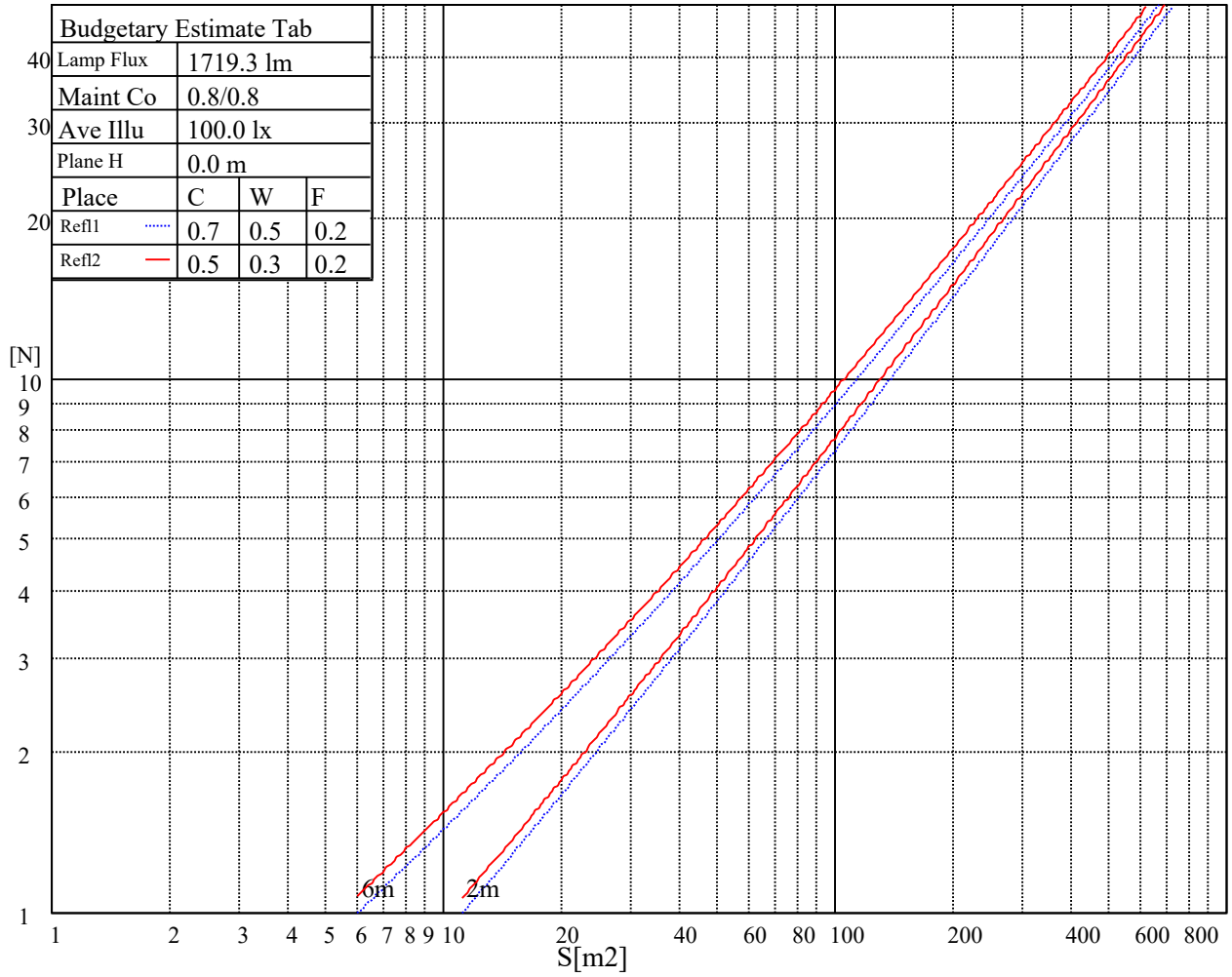
Date: 2025/3/20
Humidity(%): 60.0%

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	4.36	5.27	4.72	5.58	5.90	5.52	6.44	5.89	6.75	7.07
	3H	4.62	5.43	5.00	5.77	6.12	5.80	6.61	6.19	6.95	7.30
	4H	4.91	5.66	5.31	6.02	6.39	6.16	6.92	6.56	7.27	7.64
	6H	5.38	6.07	5.80	6.44	6.84	6.83	7.52	7.25	7.90	8.29
	8H	5.65	6.31	6.07	6.69	7.10	7.29	7.95	7.72	8.34	8.75
	12H	5.96	6.58	6.39	6.98	7.40	7.90	8.52	8.33	8.92	9.34
4H	2H	4.21	4.96	4.61	5.32	5.69	5.33	6.08	5.73	6.44	6.80
	3H	4.65	5.29	5.08	5.68	6.10	5.76	6.40	6.19	6.79	7.21
	4H	5.18	5.72	5.61	6.15	6.60	6.36	6.91	6.80	7.33	7.78
	6H	5.85	6.34	6.32	6.79	7.24	7.27	7.75	7.74	8.21	8.66
	8H	6.29	6.74	6.77	7.20	7.67	7.93	8.38	8.42	8.84	9.32
	12H	6.77	7.18	7.26	7.64	8.16	8.76	9.18	9.25	9.63	10.15
8H	4H	5.36	5.81	5.85	6.27	6.75	6.44	6.89	6.93	7.35	7.83
	6H	6.28	6.64	6.79	7.13	7.64	7.57	7.94	8.08	8.42	8.93
	8H	6.93	7.23	7.46	7.75	8.25	8.45	8.75	8.98	9.28	9.77
	12H	7.60	7.83	8.14	8.35	8.87	9.49	9.72	10.03	10.24	10.76
12H	4H	5.43	5.84	5.92	6.30	6.82	6.46	6.87	6.95	7.32	7.85
	6H	6.48	6.78	7.01	7.31	7.81	7.69	8.00	8.23	8.52	9.02
	8H	7.17	7.40	7.72	7.92	8.45	8.60	8.83	9.15	9.35	9.88
Variation with the observer position at spacings:											
S = 1.0H		5.4/-4.2					5.3/-4.0				
S = 1.5H		6.7/-2.9					6.8/-2.7				
S = 2.0H		7.6/-2.1					7.9/-2.0				
Standard tables:		BK4					BK4				
Uncorrected UGR		-9.7					-11.2				

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

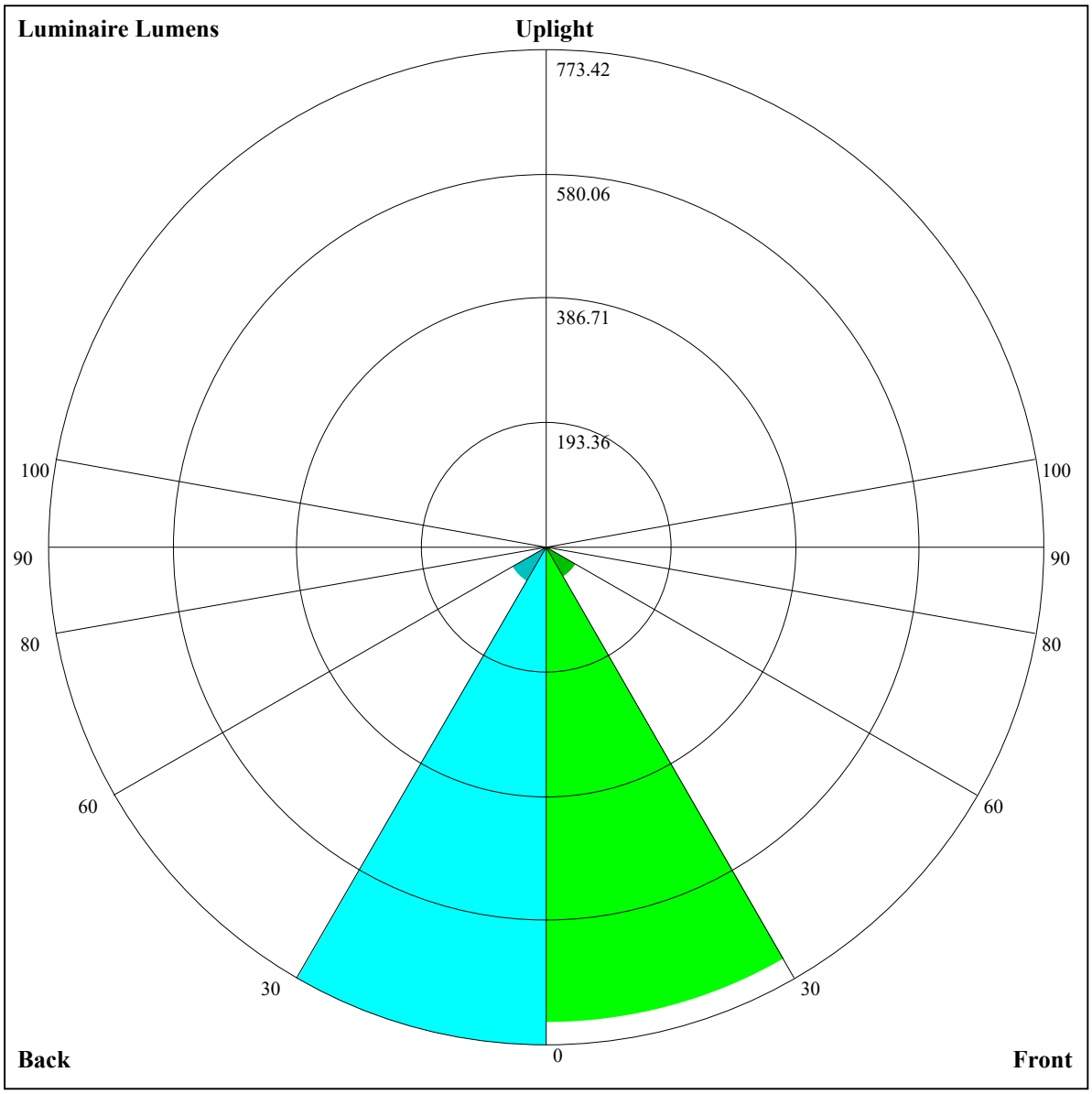
Budgetary Estimate Table



Equipment: GMS1980 Date: 2025/3/20 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	1.14	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	1.07	1.05	1.03	1.05	1.04	1.02	1.02	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.91
2	1.01	0.98	0.95	1.00	0.97	0.94	0.97	0.94	0.92	0.94	0.92	0.90	0.91	0.90	0.88	0.87
3	0.96	0.92	0.89	0.95	0.91	0.88	0.92	0.89	0.87	0.90	0.88	0.86	0.88	0.86	0.84	0.83
4	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.79
5	0.87	0.83	0.79	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.78	0.82	0.79	0.77	0.76
6	0.83	0.79	0.75	0.83	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.72
7	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.69
8	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.67
9	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.64
10	0.71	0.66	0.63	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62



Luminaire Lumens:
FL=740.08,FM=53.66,FH=7.77,FVH=3.99
BL=773.42,BM=62.37,BH=7.82,BVH=3.99
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	3746.67	3730.87	3704.53	3674.69	3629.62	3551.20	3495.61	3434.16	3361.59
45.0	3753.11	3757.20	3760.71	3754.86	3734.38	3698.10	3639.57	3570.52	3504.39
90.0	3758.37	3750.18	3736.72	3715.65	3674.69	3613.82	3558.81	3509.07	3452.89
135.0	3746.08	3757.79	3743.16	3722.67	3691.66	3657.71	3612.65	3562.32	3482.15
180.0	3746.67	3754.86	3739.06	3709.21	3676.44	3633.14	3591.00	3530.14	3466.93
225.0	3753.11	3720.33	3678.78	3630.79	3582.22	3537.74	3478.64	3391.44	3328.23
270.0	3758.37	3754.86	3727.36	3681.71	3644.25	3592.75	3507.31	3436.50	3341.69
315.0	3746.08	3717.41	3683.46	3644.25	3606.21	3528.97	3454.64	3382.66	3307.16
360.0	3746.67	3730.87	3704.53	3674.69	3629.62	3551.20	3495.61	3434.16	3361.59

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3273.81	3201.82	3106.43	2990.56	2841.33	2708.48	2559.83	2349.15	2174.75
45.0	3439.43	3385.00	3300.73	3214.11	3071.90	2949.01	2825.52	2671.61	2463.27
90.0	3364.52	3283.76	3191.29	3063.13	2945.50	2795.68	2659.32	2510.67	2346.23
135.0	3417.77	3353.40	3283.76	3186.61	3102.34	2996.41	2850.10	2722.53	2574.46
180.0	3383.83	3323.55	3248.64	3177.25	3080.68	2986.46	2838.98	2711.99	2563.93
225.0	3262.69	3173.73	3088.29	2993.48	2858.88	2740.67	2604.31	2463.27	2262.54
270.0	3273.22	3201.82	3120.48	3024.50	2899.26	2795.09	2677.46	2544.03	2358.52
315.0	3207.09	3126.33	3035.62	2930.28	2789.24	2652.30	2504.82	2353.83	2137.89
360.0	3273.81	3201.82	3106.43	2990.56	2841.33	2708.48	2559.83	2349.15	2174.75

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1999.77	1784.99	1614.11	1330.86	1141.19	1105.67	972.82	866.89	757.46
45.0	2281.27	2094.58	1920.18	1698.97	1532.76	1377.09	1224.93	1055.22	934.08
90.0	2126.18	1948.86	1781.48	1605.33	1142.07	1142.07	1106.54	980.25	848.11
135.0	2361.44	2187.63	2021.43	1804.89	1641.03	1476.58	1320.33	1142.42	1013.67
180.0	2369.63	2198.75	2009.72	1787.34	1612.35	1444.98	1291.65	1122.52	996.70
225.0	2085.80	1918.43	1737.59	1529.84	1152.07	1152.07	1053.05	939.11	803.87
270.0	2192.31	2023.77	1808.99	1636.93	1432.69	1285.21	1150.61	998.45	893.11
315.0	1964.66	1751.05	1582.51	1162.20	1162.20	1093.67	972.23	866.25	756.58
360.0	1999.77	1784.99	1614.11	1330.86	1141.19	1105.67	972.82	866.89	757.46

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	660.89	570.54	487.61	386.95	316.61	247.73	168.49	115.00	57.76
45.0	810.01	721.64	628.00	525.01	442.49	369.92	298.52	298.52	146.66
90.0	753.77	638.95	550.87	471.93	373.55	298.70	227.13	150.46	97.26
135.0	903.65	804.74	682.43	588.79	500.43	400.35	326.03	309.06	224.55
180.0	887.84	794.79	669.56	572.41	484.62	376.94	306.72	306.72	157.48
225.0	704.73	600.62	511.84	404.10	328.55	262.53	199.33	125.18	78.60
270.0	788.94	691.79	574.16	484.62	403.28	324.86	305.55	219.81	116.99
315.0	665.17	571.71	483.34	383.56	311.11	244.45	168.43	111.08	65.95
360.0	660.89	570.54	487.61	386.95	316.61	247.73	168.49	115.00	57.76

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	30.67	20.72	17.91	15.57	13.58	11.70	10.89	10.48	10.07
45.0	95.33	51.32	24.87	19.72	17.44	14.57	12.58	11.24	10.65
90.0	55.95	32.13	20.89	17.97	15.68	13.58	11.41	10.94	10.53
135.0	112.48	56.18	33.01	22.65	20.07	16.85	14.57	12.41	11.82
180.0	107.15	63.26	29.96	21.30	19.02	16.74	14.10	11.76	11.24
225.0	40.79	22.18	19.96	17.85	15.22	13.58	11.88	11.35	11.00
270.0	70.05	31.89	21.19	18.67	16.68	14.63	12.06	11.00	10.59
315.0	31.02	21.19	18.96	16.39	14.46	12.35	11.41	10.77	10.36
360.0	30.67	20.72	17.91	15.57	13.58	11.70	10.89	10.48	10.07

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	9.83	9.48	9.36	9.19	8.95	8.84	8.66	8.49	8.37
45.0	10.24	9.95	9.71	9.48	9.31	9.07	8.90	8.78	8.60
90.0	10.12	9.89	9.66	9.42	9.31	9.13	8.90	8.78	8.66
135.0	11.29	10.77	10.42	10.12	9.89	9.71	9.48	9.31	9.13
180.0	10.83	10.36	10.07	9.89	9.66	9.54	9.36	9.19	9.07
225.0	10.71	10.48	10.24	10.12	10.01	9.89	9.60	9.48	9.25
270.0	10.24	9.89	9.71	9.54	9.36	9.25	9.07	8.90	8.66
315.0	10.07	9.83	9.54	9.36	9.19	9.01	8.84	8.66	8.60
360.0	9.83	9.48	9.36	9.19	8.95	8.84	8.66	8.49	8.37

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	8.31	8.19	8.13	8.02	7.96	7.90	7.84	7.78	7.78
45.0	8.49	8.37	8.25	8.13	8.08	8.02	7.90	7.84	7.84
90.0	8.54	8.43	8.31	8.25	8.13	8.02	7.96	7.84	7.78
135.0	9.01	8.78	8.72	8.60	8.49	8.37	8.25	8.13	8.08
180.0	8.90	8.72	8.60	8.54	8.43	8.25	8.13	8.02	7.96
225.0	9.13	8.95	8.78	8.60	8.43	8.13	8.02	7.84	7.84
270.0	8.60	8.49	8.37	8.25	8.13	8.08	7.96	7.90	7.84
315.0	8.49	8.37	8.31	8.19	8.13	8.08	8.02	7.96	7.90
360.0	8.31	8.19	8.13	8.02	7.96	7.90	7.84	7.78	7.78

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.72	7.67	7.67	7.61	7.61	7.49	7.49	7.49	7.43
45.0	7.72	7.72	7.67	7.67	7.61	7.55	7.55	7.49	7.49
90.0	7.78	7.72	7.72	7.67	7.67	7.61	7.61	7.55	7.55
135.0	8.02	7.90	7.84	7.78	7.78	7.78	7.72	7.67	7.67
180.0	7.90	7.84	7.72	7.72	7.67	7.67	7.67	7.55	7.55
225.0	7.72	7.72	7.67	7.67	7.61	7.61	7.55	7.55	7.49
270.0	7.84	7.78	7.72	7.72	7.67	7.61	7.61	7.61	7.55
315.0	7.84	7.78	7.78	7.72	7.67	7.67	7.61	7.55	7.55
360.0	7.72	7.67	7.67	7.61	7.61	7.49	7.49	7.49	7.43

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.43	7.43	7.43	7.43	7.37	7.37	7.37	7.37	7.37
45.0	7.49	7.43	7.49	7.43	7.43	7.43	7.37	7.37	7.37
90.0	7.49	7.49	7.49	7.43	7.43	7.43	7.43	7.37	7.37
135.0	7.61	7.61	7.55	7.55	7.55	7.55	7.49	7.49	7.43
180.0	7.55	7.55	7.49	7.49	7.43	7.49	7.49	7.43	7.37
225.0	7.49	7.49	7.49	7.43	7.43	7.43	7.37	7.37	7.37
270.0	7.49	7.55	7.49	7.43	7.43	7.43	7.43	7.43	7.37
315.0	7.55	7.49	7.49	7.49	7.49	7.49	7.43	7.43	7.37
360.0	7.43	7.43	7.43	7.43	7.37	7.37	7.37	7.37	7.37

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.37	7.32	7.26	7.26	7.26	7.26	7.26	7.20	7.26
45.0	7.37	7.32	7.32	7.32	7.26	7.20	7.26	7.26	7.26
90.0	7.37	7.37	7.32	7.32	7.32	7.32	7.32	7.26	7.20
135.0	7.43	7.43	7.43	7.37	7.37	7.37	7.32	7.32	7.32
180.0	7.37	7.37	7.32	7.32	7.32	7.32	7.26	7.26	7.26
225.0	7.32	7.32	7.32	7.32	7.26	7.26	7.26	7.26	7.26
270.0	7.37	7.37	7.37	7.32	7.37	7.26	7.32	7.32	7.20
315.0	7.37	7.37	7.32	7.32	7.32	7.32	7.32	7.32	7.26
360.0	7.37	7.32	7.26	7.26	7.26	7.26	7.26	7.20	7.26

Intensity data(cd)

C/γ(°)	90.0
0.0	7.20
45.0	7.20
90.0	7.26
135.0	7.32
180.0	7.20
225.0	7.20
270.0	7.26
315.0	7.32
360.0	7.20