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

NT

Client: NT
LumCAT: 1-1608-L
Luminaire: 92.70.410.00 LED HOLDER
Report No: 20250317-B003
Ballast type: DC

Test No: 20250317-C003	Voltage(V): 35.050
LampCAT: LUMILEDS LUXEON COB 1203	Current(A): 0.301
Lamp flux(lm): 1719.3	Power (W): 10.550
Number of Lamps: 1	PF: 0.000
Length(mm): 50	Width(mm): 50
Phm Type: C	Height(mm): 33

Photometric Results

Lumens(lm): 1644.99, Efficiency(%): 95.68% , Luminous Efficacy(lm/W): 155.92
Central intensity(cd): 2689.167, Maximum intensity(cd): 2697.361
Angle of maximum intensity: C=135.0 γ=2.0
Beam Angle(50%Imax): [C0/180]Total=49.1
[C90/270]Total=48.9
Field angle(10%Imax): [C0/180]Total=67.6
[C90/270]Total=67.5
Maximum s/h(1/2): C0_180=0.84 C90_270=0.80
Maximum s/h(1/4): C0_180=0.78 C90_270=0.74
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 95.39%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.817%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2690.777	0.000	0	0.00%	0.00%
1.0	2690.411	2.575	2.575	0.15%	0.16%
2.0	2688.948	7.721	10.296	0.45%	0.63%
3.0	2681.633	12.845	23.14	0.75%	1.41%
4.0	2669.197	17.911	41.051	1.04%	2.50%
5.0	2653.103	22.896	63.948	1.33%	3.89%
6.0	2640.447	27.819	91.767	1.62%	5.58%
7.0	2624.866	32.682	124.448	1.90%	7.57%
8.0	2607.016	37.444	161.892	2.18%	9.84%
9.0	2585.583	42.083	203.975	2.45%	12.40%
10.0	2558.955	46.556	250.531	2.71%	15.23%
11.0	2525.451	50.804	301.335	2.95%	18.32%
12.0	2487.192	54.795	356.13	3.19%	21.65%
13.0	2436.643	58.434	414.564	3.40%	25.20%
14.0	2383.241	61.694	476.258	3.59%	28.95%
15.0	2324.426	64.629	540.887	3.76%	32.88%
16.0	2258.954	67.159	608.046	3.91%	36.96%
17.0	2174.974	69.048	677.094	4.02%	41.16%
18.0	2087.556	70.280	747.374	4.09%	45.43%
19.0	1990.043	70.942	818.316	4.13%	49.75%
20.0	1888.726	70.992	889.308	4.13%	54.06%
21.0	1770.584	70.266	959.575	4.09%	58.33%
22.0	1652.880	68.796	1028.371	4.00%	62.52%
23.0	1529.617	66.777	1095.148	3.88%	66.57%
24.0	1389.478	63.822	1158.97	3.71%	70.45%
25.0	1274.979	60.584	1219.554	3.52%	74.14%
26.0	1186.946	58.114	1277.668	3.38%	77.67%
27.0	1070.669	55.233	1332.901	3.21%	81.03%
28.0	946.792	51.078	1383.979	2.97%	84.13%
29.0	802.797	45.774	1429.753	2.66%	86.92%
30.0	657.815	39.436	1469.189	2.29%	89.31%
31.0	534.325	33.176	1502.365	1.93%	91.33%
32.0	413.805	27.163	1529.527	1.58%	92.98%
33.0	308.611	21.283	1550.81	1.24%	94.27%
34.0	225.597	16.167	1566.977	0.94%	95.26%
35.0	173.212	12.386	1579.362	0.72%	96.01%
36.0	113.058	9.115	1588.477	0.53%	96.56%
37.0	54.704	5.471	1593.949	0.32%	96.90%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	36.752	3.053	1597.001	0.18%	97.08%
39.0	28.522	2.228	1599.229	0.13%	97.22%
40.0	23.863	1.827	1601.056	0.11%	97.33%
41.0	20.015	1.562	1602.619	0.09%	97.42%
42.0	17.184	1.351	1603.97	0.08%	97.51%
43.0	15.304	1.203	1605.174	0.07%	97.58%
44.0	14.206	1.114	1606.287	0.06%	97.65%
45.0	13.380	1.060	1607.348	0.06%	97.71%
46.0	12.648	1.018	1608.365	0.06%	97.77%
47.0	12.100	0.984	1609.35	0.06%	97.83%
48.0	11.646	0.960	1610.31	0.06%	97.89%
49.0	11.251	0.940	1611.25	0.05%	97.95%
50.0	10.812	0.920	1612.17	0.05%	98.00%
51.0	10.432	0.899	1613.069	0.05%	98.06%
52.0	10.102	0.881	1613.95	0.05%	98.11%
53.0	9.810	0.866	1614.816	0.05%	98.17%
54.0	9.525	0.852	1615.668	0.05%	98.22%
55.0	9.290	0.840	1616.508	0.05%	98.27%
56.0	9.100	0.831	1617.339	0.05%	98.32%
57.0	8.939	0.825	1618.164	0.05%	98.37%
58.0	8.771	0.819	1618.983	0.05%	98.42%
59.0	8.676	0.816	1619.798	0.05%	98.47%
60.0	8.574	0.815	1620.613	0.05%	98.52%
61.0	8.493	0.814	1621.428	0.05%	98.57%
62.0	8.391	0.814	1622.241	0.05%	98.62%
63.0	8.325	0.813	1623.054	0.05%	98.67%
64.0	8.266	0.814	1623.869	0.05%	98.72%
65.0	8.193	0.815	1624.683	0.05%	98.77%
66.0	8.142	0.815	1625.498	0.05%	98.82%
67.0	8.076	0.815	1626.314	0.05%	98.86%
68.0	8.018	0.815	1627.129	0.05%	98.91%
69.0	7.966	0.815	1627.944	0.05%	98.96%
70.0	7.922	0.816	1628.76	0.05%	99.01%
71.0	7.886	0.817	1629.577	0.05%	99.06%
72.0	7.827	0.817	1630.394	0.05%	99.11%
73.0	7.805	0.817	1631.212	0.05%	99.16%
74.0	7.769	0.819	1632.031	0.05%	99.21%
75.0	7.732	0.819	1632.85	0.05%	99.26%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.688	0.819	1633.668	0.05%	99.31%
77.0	7.659	0.818	1634.487	0.05%	99.36%
78.0	7.637	0.819	1635.305	0.05%	99.41%
79.0	7.601	0.819	1636.124	0.05%	99.46%
80.0	7.579	0.818	1636.942	0.05%	99.51%
81.0	7.542	0.818	1637.76	0.05%	99.56%
82.0	7.513	0.816	1638.577	0.05%	99.61%
83.0	7.476	0.815	1639.391	0.05%	99.66%
84.0	7.410	0.811	1640.202	0.05%	99.71%
85.0	7.352	0.806	1641.008	0.05%	99.76%
86.0	7.315	0.802	1641.81	0.05%	99.81%
87.0	7.264	0.798	1642.608	0.05%	99.86%
88.0	7.242	0.795	1643.402	0.05%	99.90%
89.0	7.228	0.793	1644.195	0.05%	99.95%
90.0	7.220	0.792	1644.988	0.05%	100.00%

Zonal flux distribution table

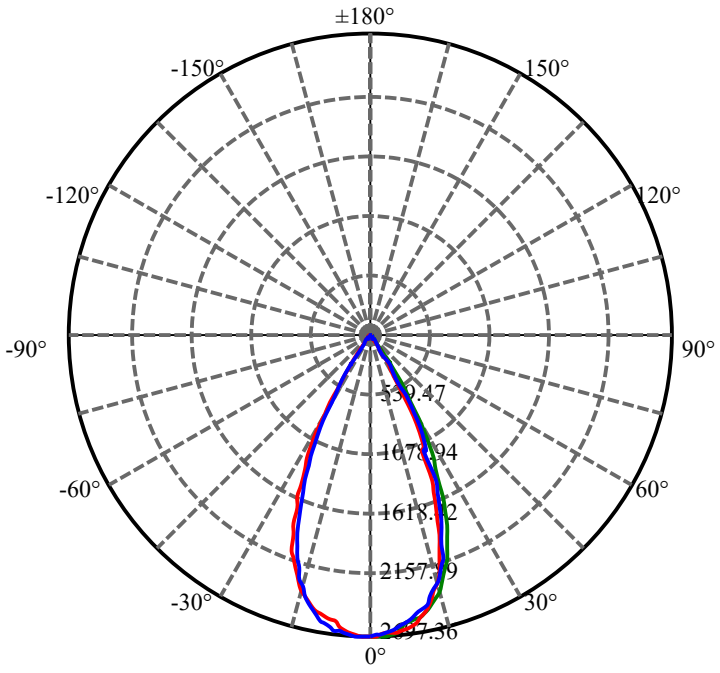
ZONAL LUMEN SUMMARY

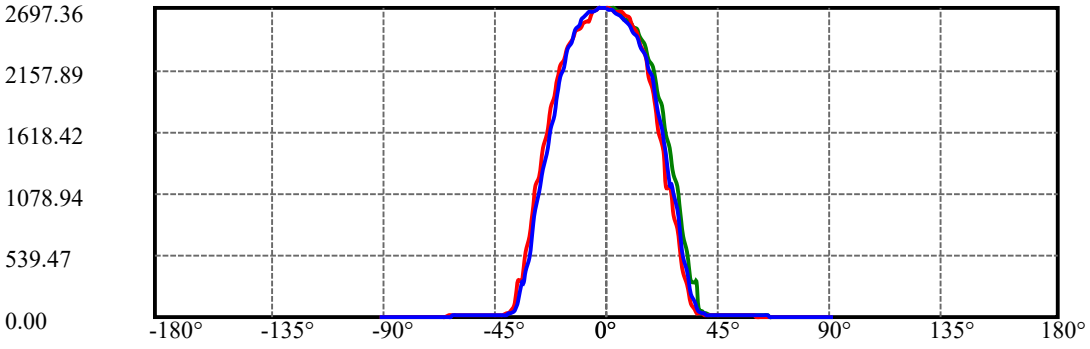
Zone	Lumens	%Lamp	%Fixt
0-30	1469.19	85.45%	89.31%
0-40	1601.06	93.12%	97.33%
0-60	1620.61	94.26%	98.52%
0-90	1644.20	95.63%	99.95%
0-120	1644.20	95.63%	99.95%
0-180	1644.99	95.68%	100.00%
60-90	23.58	1.37%	1.43%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.69	1315.99	76.54%	80.00%

ZONAL LUMEN SUMMARY

0-10	250.53
10-20	638.78
20-30	579.88
30-40	131.87
40-50	11.11
50-60	8.44
60-70	8.15
70-80	8.18
80-90	7.25
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):

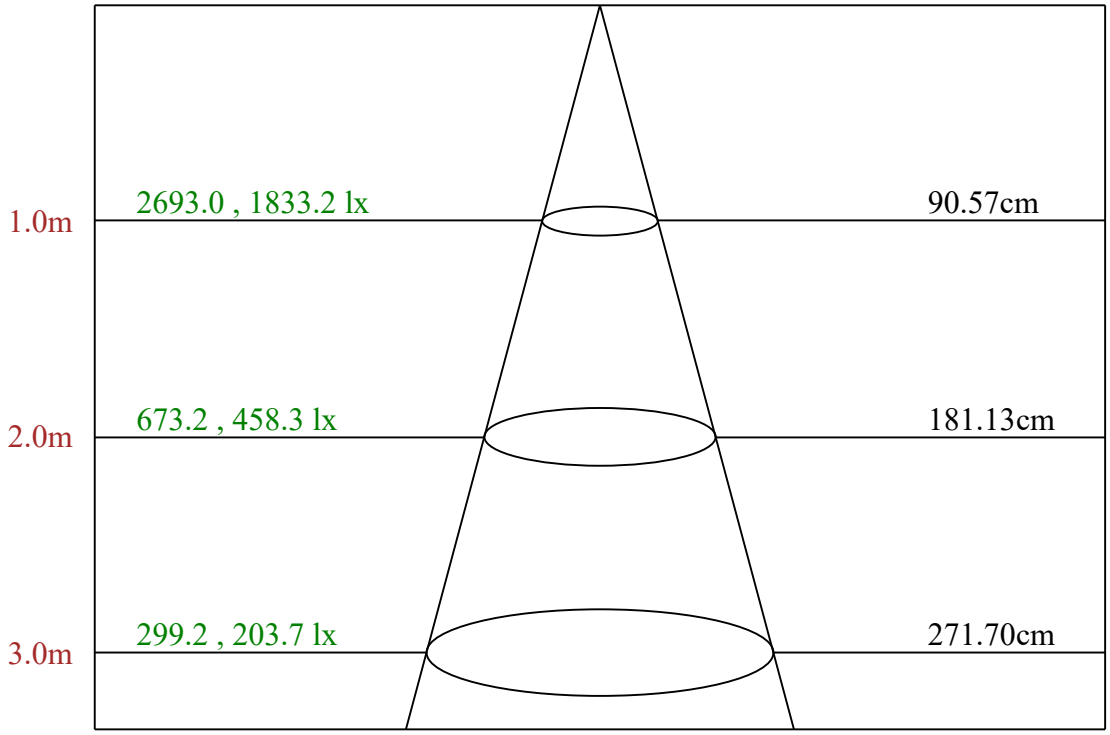
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:36.4 Right:31.1
:C90/270Left:34.2 Right:33.3

Beam Angle(50%Imax):C0/180Left:26.9 Right:22.2
:C90/270Left:24.6 Right:24.3

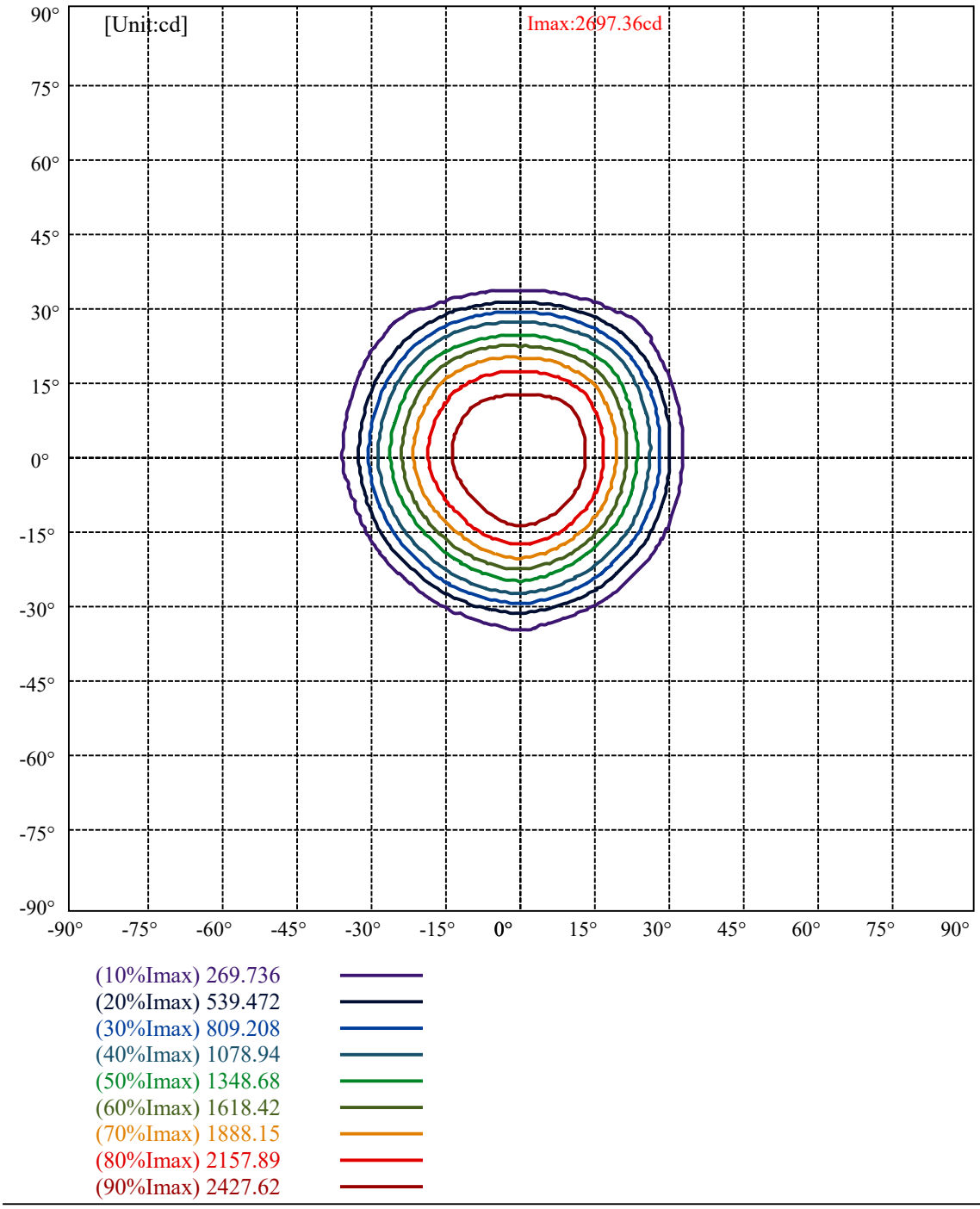
Lux distance Curve



Max , Ave

Beam angle of C135 plane 48.73

ISO-Intensity(V-H)



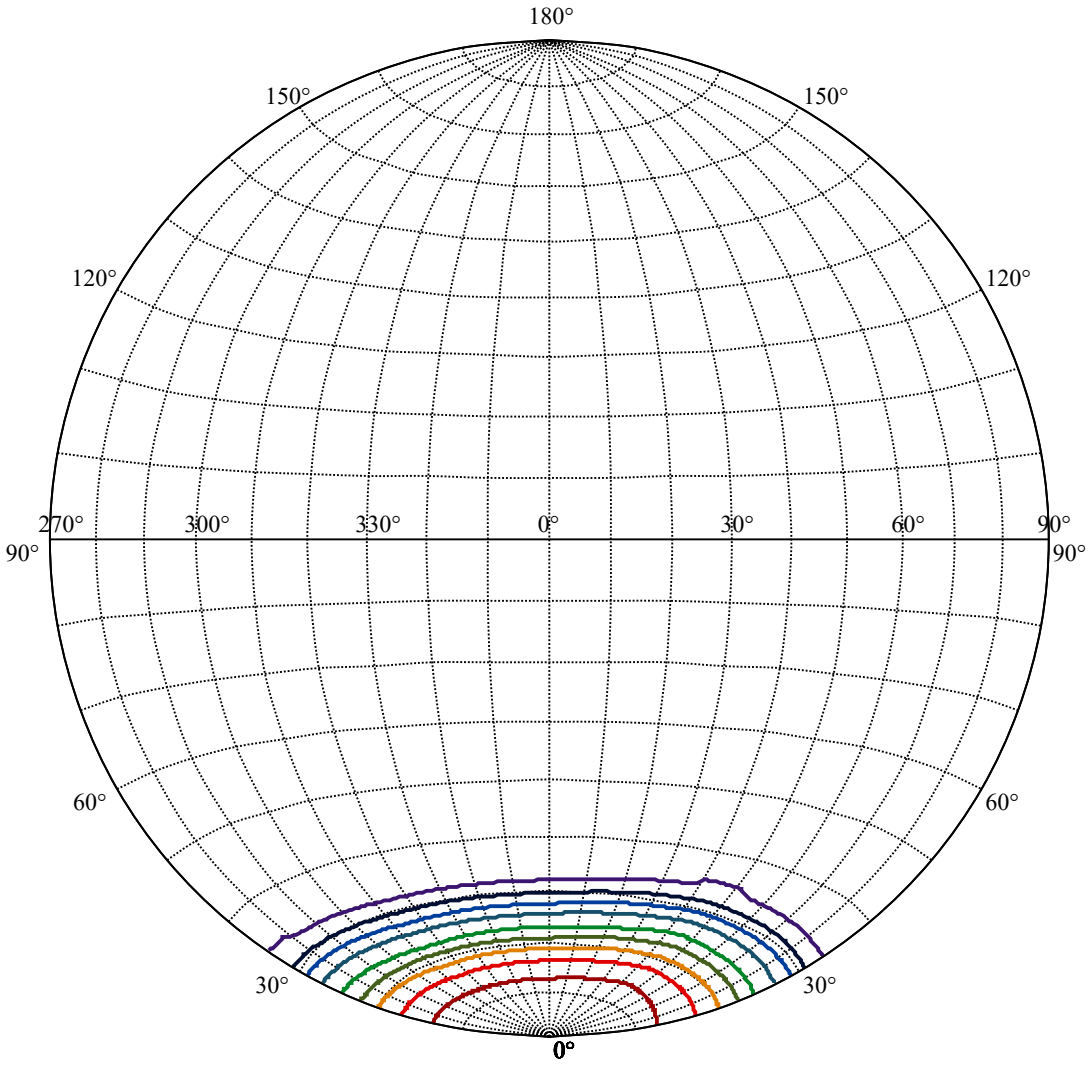
(10%Imax) 269.736
(20%Imax) 539.472
(30%Imax) 809.208
(40%Imax) 1078.94
(50%Imax) 1348.68
(60%Imax) 1618.42
(70%Imax) 1888.15
(80%Imax) 2157.89
(90%Imax) 2427.62

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

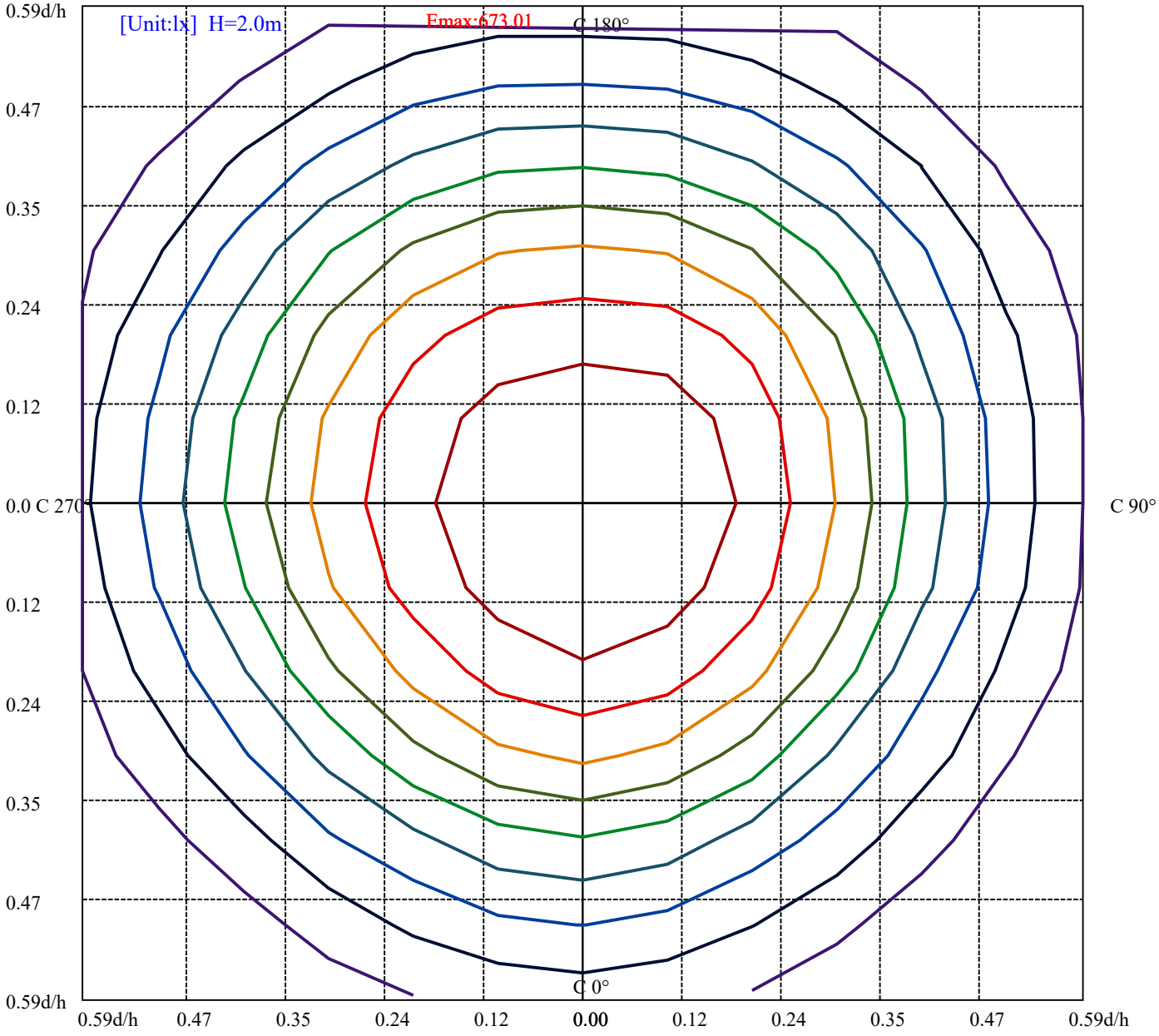
Imax:2697.36

(10%Imax) 269.789
(20%Imax) 539.577
(30%Imax) 809.366
(40%Imax) 1079.15
(50%Imax) 1348.94
(60%Imax) 1618.73
(70%Imax) 1888.52
(80%Imax) 2158.31
(90%Imax) 2428.1

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

NT NT 1-1608-L

ISO illuminance diagram



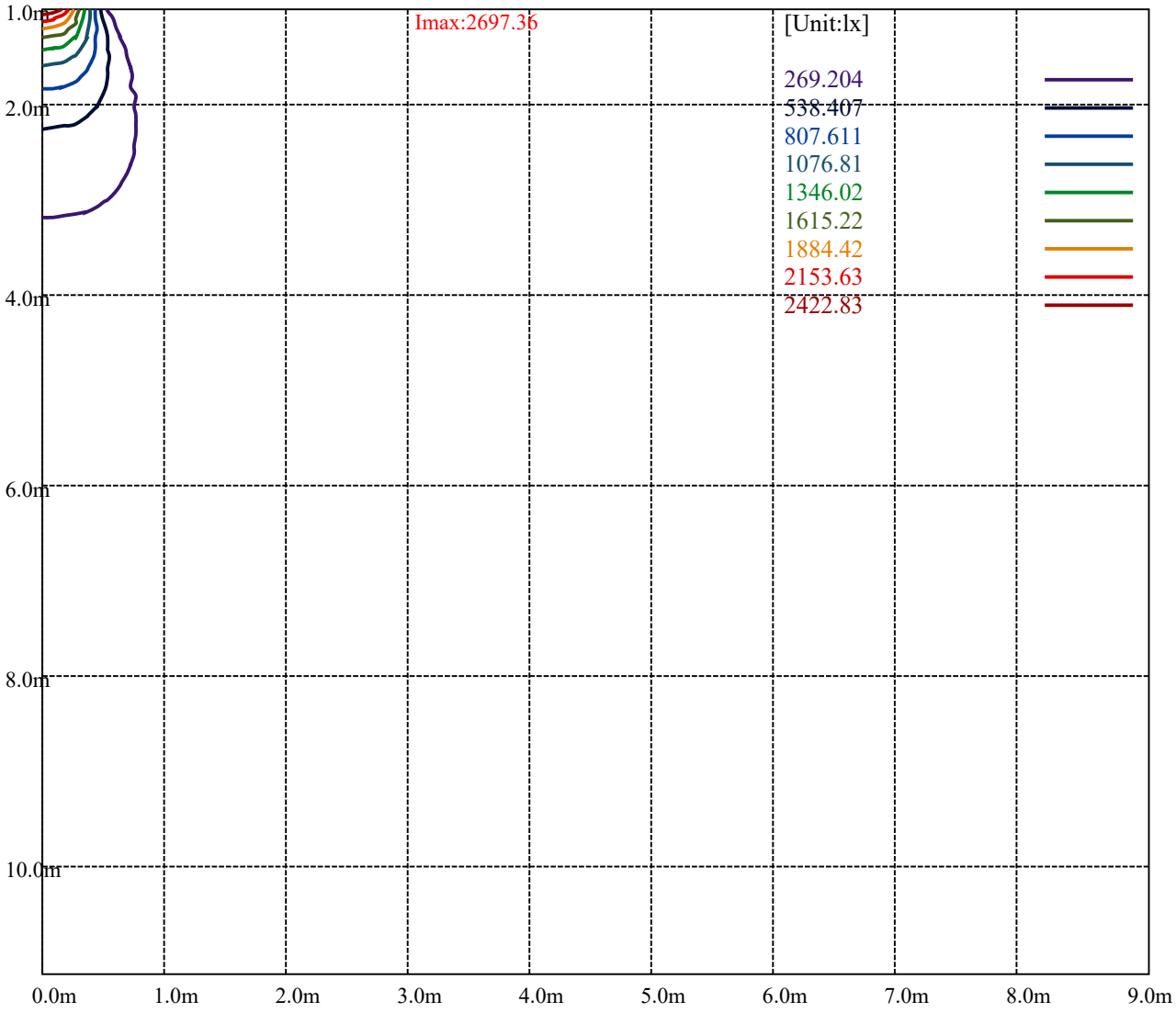
(10%Emax) 67.30075
(20%Emax) 134.6017
(30%Emax) 201.9025
(40%Emax) 269.2025
(50%Emax) 336.505
(60%Emax) 403.805
(70%Emax) 471.105
(80%Emax) 538.4075
(90%Emax) 605.7075

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

NT NT 1-1608-L

Luminance Limitting Curve(no luminous side)

Luminance Table

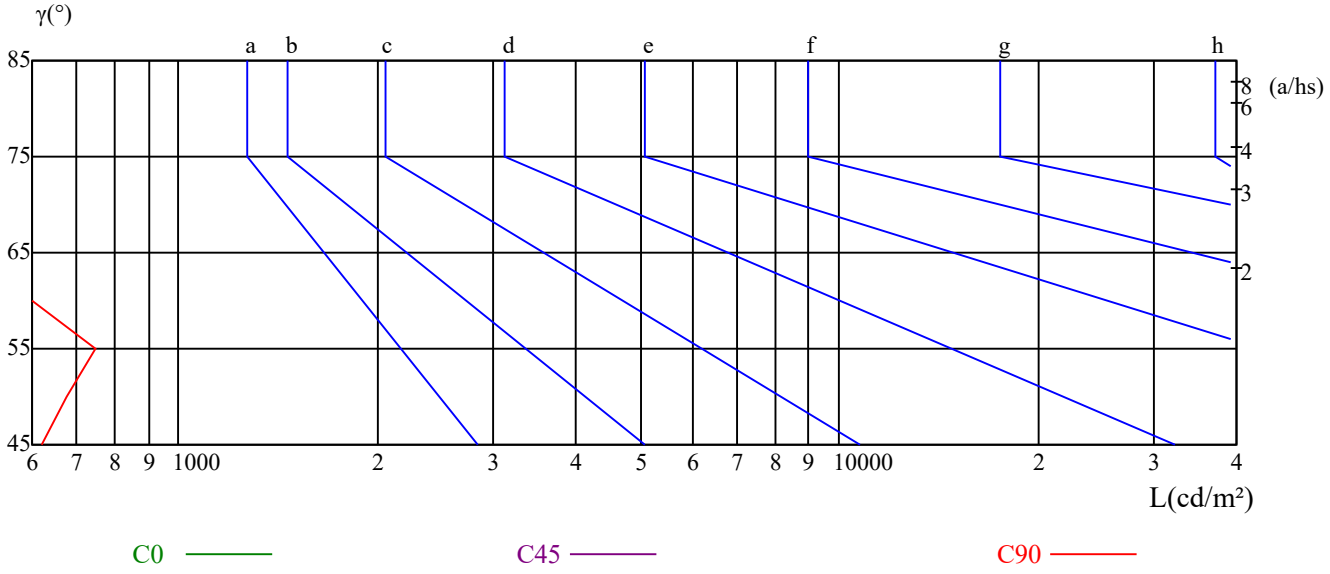
γ	45	50	55	60	65	70	75	80	85
C0	399	408	420	218	229	243	261	284	314
C45	438	452	471	248	264	284	310	345	391
C90	621	675	746	420	485	579	726	981	1531

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
554	554	554	904	904	904	2686	2686	2686

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%

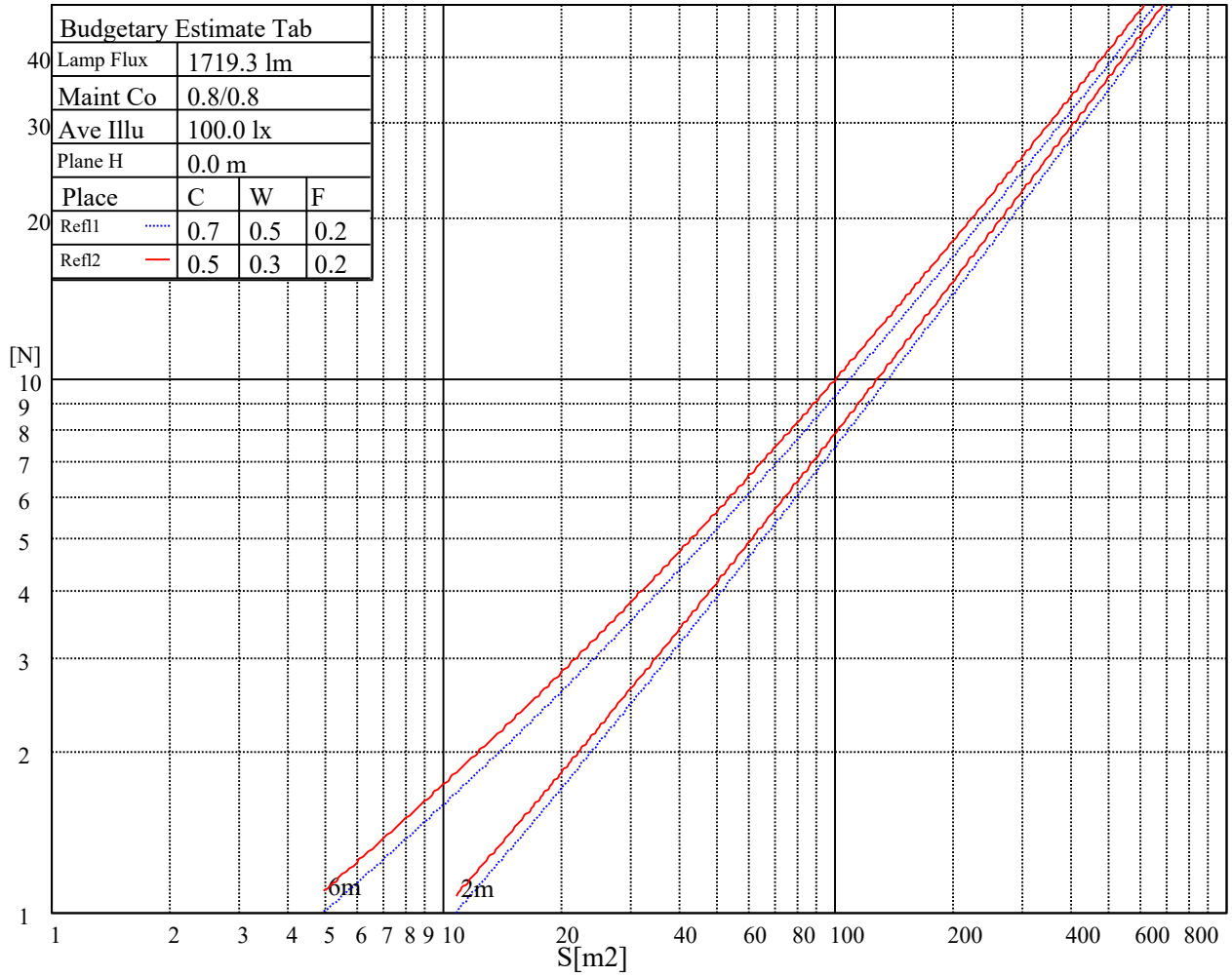
Operator: NT07
Distance(m): 7.65

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	5.51	6.43	5.87	6.74	7.06	7.32	8.24	7.68	8.55	8.86
	3H	5.68	6.49	6.06	6.83	7.18	7.44	8.26	7.82	8.59	8.94
	4H	5.89	6.64	6.29	7.00	7.37	7.66	8.42	8.06	8.77	9.14
	6H	6.24	6.94	6.66	7.32	7.71	8.12	8.81	8.54	9.19	9.59
	8H	6.45	7.11	6.87	7.50	7.91	8.44	9.11	8.87	9.49	9.90
	12H	6.69	7.31	7.12	7.71	8.13	8.89	9.51	9.32	9.91	10.33
4H	2H	5.33	6.09	5.73	6.45	6.81	7.08	7.83	7.48	8.19	8.56
	3H	5.64	6.28	6.07	6.68	7.10	7.30	7.94	7.73	8.34	8.76
	4H	6.06	6.61	6.49	7.03	7.48	7.71	8.26	8.15	8.69	9.14
	6H	6.59	7.08	7.07	7.53	7.99	8.37	8.85	8.84	9.31	9.76
	8H	6.95	7.40	7.44	7.86	8.34	8.88	9.33	9.37	9.79	10.26
	12H	7.35	7.77	7.84	8.22	8.74	9.54	9.96	10.03	10.41	10.93
8H	4H	6.18	6.63	6.67	7.09	7.57	7.72	8.17	8.20	8.63	9.10
	6H	6.93	7.30	7.44	7.78	8.29	8.56	8.93	9.07	9.41	9.92
	8H	7.49	7.80	8.03	8.32	8.82	9.27	9.58	9.81	10.10	10.60
	12H	8.07	8.31	8.62	8.82	9.35	10.13	10.37	10.68	10.88	11.41
12H	4H	6.23	6.64	6.72	7.10	7.62	7.71	8.13	8.20	8.58	9.10
	6H	7.11	7.41	7.64	7.94	8.43	8.65	8.96	9.19	9.48	9.98
	8H	7.71	7.94	8.25	8.46	8.98	9.39	9.62	9.93	10.14	10.66

Variation with the observer position at spacings:		
S = 1.0H	5.8/-4.9	5.6/-4.3
S = 1.5H	7.5/-3.5	7.3/-3.1
S = 2.0H	8.6/-2.6	8.4/-2.3
Standard tables:	BK3	BK3
Uncorrected UGR	-9.0	-10.8

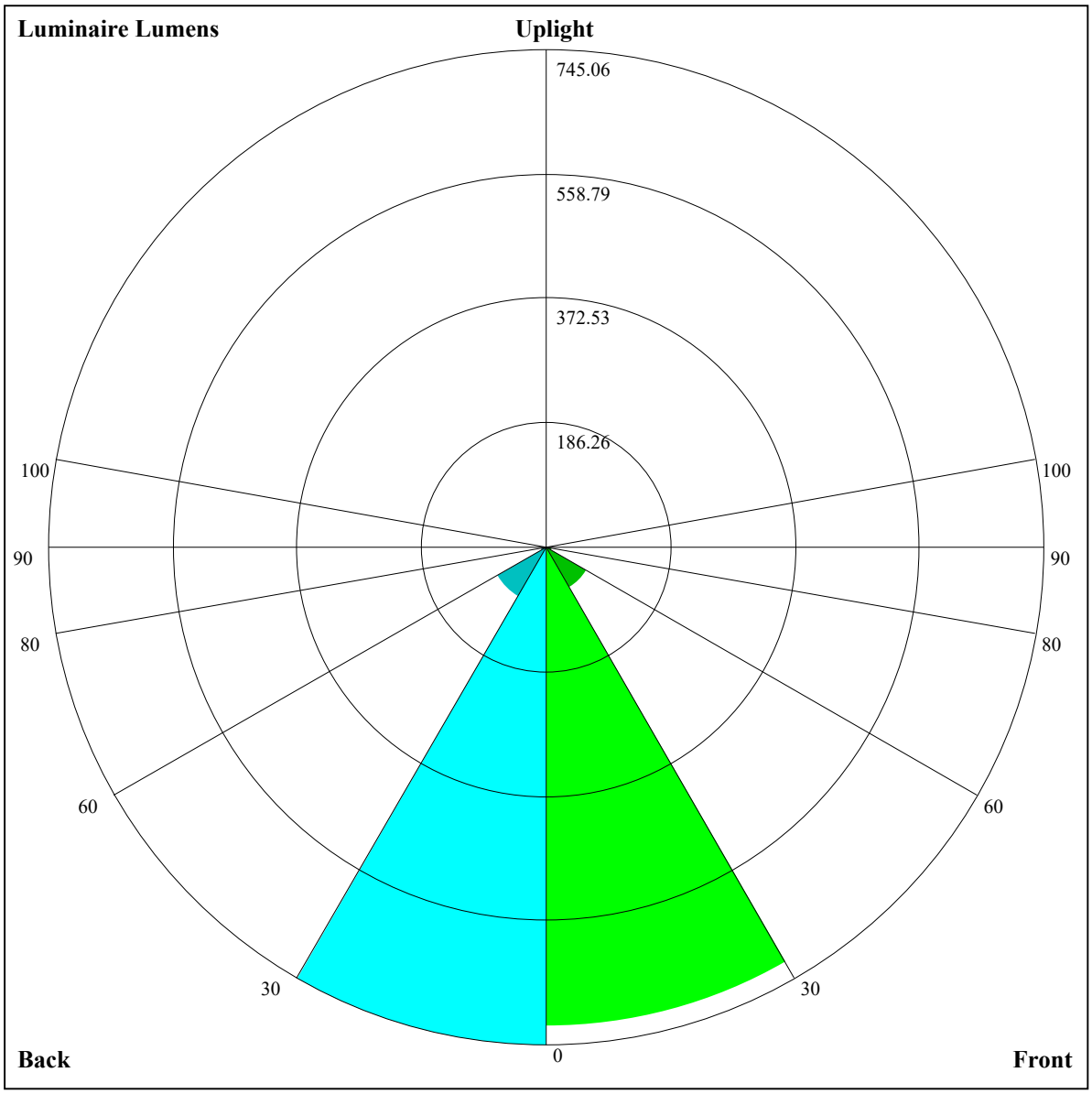
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

Budgetary Estimate Table



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	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.06	1.04	1.02	1.04	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90
2	1.00	0.97	0.94	0.98	0.95	0.93	0.95	0.93	0.91	0.93	0.90	0.89	0.90	0.88	0.87	0.85
3	0.94	0.90	0.87	0.93	0.89	0.86	0.91	0.87	0.85	0.88	0.86	0.83	0.86	0.84	0.82	0.81
4	0.89	0.85	0.81	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.83	0.80	0.78	0.77
5	0.85	0.80	0.76	0.84	0.79	0.76	0.82	0.78	0.75	0.81	0.77	0.75	0.79	0.76	0.74	0.73
6	0.81	0.76	0.72	0.80	0.75	0.72	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.69
7	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.66
8	0.73	0.68	0.65	0.73	0.68	0.65	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.63
9	0.70	0.65	0.62	0.69	0.65	0.62	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.60
10	0.67	0.62	0.59	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.57



Luminaire Lumens:
FL=718.28,FM=68.87,FH=8.13,FVH=4.01
BL=745.06,BM=85.12,BH=8.22,BVH=4.04
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	2689.17	2689.75	2680.97	2671.03	2666.34	2665.76	2661.08	2650.54	2632.99
45.0	2691.51	2688.00	2686.24	2681.56	2665.17	2646.45	2644.11	2645.28	2633.57
90.0	2689.75	2686.83	2686.24	2669.27	2653.47	2630.64	2613.67	2595.53	2573.29
135.0	2692.68	2692.68	2697.36	2697.36	2687.41	2664.59	2639.42	2603.72	2589.68
180.0	2689.17	2690.34	2693.85	2690.92	2677.46	2656.98	2624.21	2585.00	2572.71
225.0	2691.51	2689.75	2685.07	2670.44	2647.62	2621.28	2611.92	2612.50	2596.12
270.0	2689.75	2693.26	2690.92	2692.68	2682.73	2670.44	2666.34	2661.66	2640.59
315.0	2692.68	2692.68	2690.92	2679.80	2673.37	2668.68	2662.83	2644.69	2617.18
360.0	2689.17	2689.75	2680.97	2671.03	2666.34	2665.76	2661.08	2650.54	2632.99

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2607.82	2570.95	2535.25	2486.09	2415.87	2359.69	2295.90	2220.40	2102.19
45.0	2617.18	2596.70	2572.12	2540.52	2490.19	2444.54	2384.85	2309.94	2242.64
90.0	2541.69	2516.53	2486.09	2451.57	2392.46	2345.06	2295.90	2245.57	2161.88
135.0	2577.39	2559.25	2534.67	2508.92	2467.95	2426.99	2381.34	2318.13	2246.74
180.0	2557.49	2537.01	2514.77	2489.61	2450.98	2411.77	2367.88	2315.79	2247.91
225.0	2576.80	2538.76	2500.14	2443.37	2393.04	2332.77	2259.61	2196.41	2119.74
270.0	2617.77	2593.78	2547.54	2506.58	2460.93	2401.82	2338.03	2275.41	2178.27
315.0	2588.51	2558.66	2513.01	2470.88	2421.72	2343.30	2271.90	2189.97	2100.43
360.0	2607.82	2570.95	2535.25	2486.09	2415.87	2359.69	2295.90	2220.40	2102.19

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2000.36	1886.82	1772.12	1622.89	1513.45	1406.94	1144.00	1144.00	1056.21
45.0	2165.39	2054.20	1956.47	1820.11	1711.84	1605.92	1497.06	1361.88	1261.22
90.0	2087.56	1973.44	1874.53	1776.22	1640.44	1531.01	1416.89	1153.07	1153.07
135.0	2187.63	2122.08	2023.18	1934.23	1840.59	1708.92	1594.21	1480.68	1339.64
180.0	2189.97	2116.82	2039.57	1920.18	1820.11	1687.85	1584.26	1471.90	1333.79
225.0	2006.80	1912.57	1810.74	1711.26	1576.07	1467.80	1294.58	1156.64	1129.48
270.0	2089.31	1992.75	1887.41	1751.05	1637.52	1525.15	1418.64	1292.24	1195.67
315.0	1973.44	1861.66	1745.78	1628.74	1483.02	1303.35	1166.18	1139.43	1026.48
360.0	2000.36	1886.82	1772.12	1622.89	1513.45	1406.94	1144.00	1144.00	1056.21

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	894.75	767.64	641.35	490.07	378.35	283.42	194.88	114.41	65.25
45.0	1161.14	1043.51	877.31	747.98	621.57	475.85	368.75	295.01	295.01
90.0	1067.92	939.99	803.98	641.06	516.75	402.87	300.10	197.86	132.61
135.0	1238.98	1136.57	984.41	844.54	709.35	577.09	427.86	324.86	299.69
180.0	1231.37	1131.88	976.80	837.52	699.99	564.22	441.90	311.98	311.98
225.0	1011.85	877.49	712.34	582.83	461.74	332.12	243.45	150.70	93.28
270.0	1090.33	941.10	814.69	652.00	525.01	409.13	305.55	305.55	126.64
315.0	869.00	736.15	611.50	466.54	361.84	265.75	186.39	104.40	61.21
360.0	894.75	767.64	641.35	490.07	378.35	283.42	194.88	114.41	65.25

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	38.86	31.89	27.04	21.83	18.55	15.45	14.40	13.46	12.64
45.0	106.22	61.98	36.58	30.26	25.52	20.89	17.62	15.92	14.75
90.0	82.98	48.05	35.23	27.97	23.70	20.42	17.97	16.15	14.98
135.0	299.69	85.62	54.13	36.75	28.91	24.46	21.01	17.50	15.80
180.0	205.53	94.86	50.39	35.23	29.61	23.99	20.31	16.50	15.16
225.0	55.48	37.16	30.31	25.69	21.77	18.79	15.68	14.40	13.52
270.0	77.43	47.40	34.12	29.03	24.70	20.95	16.62	15.39	14.40
315.0	38.27	30.67	26.22	21.42	18.14	15.16	13.87	13.11	12.41
360.0	38.86	31.89	27.04	21.83	18.55	15.45	14.40	13.46	12.64

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	12.11	11.59	11.18	10.83	10.48	10.12	9.77	9.54	9.31
45.0	13.75	12.93	12.41	11.94	11.47	10.94	10.59	10.18	9.89
90.0	14.10	13.34	12.70	12.17	11.70	11.24	10.77	10.42	10.01
135.0	14.69	13.58	12.87	12.41	11.94	11.41	11.00	10.59	10.36
180.0	14.22	13.17	12.58	12.11	11.70	11.24	10.89	10.53	10.24
225.0	12.82	12.23	11.82	11.29	10.94	10.59	10.24	9.95	9.60
270.0	13.40	12.82	12.17	11.70	11.35	10.83	10.48	10.12	9.83
315.0	11.94	11.53	11.06	10.71	10.42	10.12	9.71	9.48	9.25
360.0	12.11	11.59	11.18	10.83	10.48	10.12	9.77	9.54	9.31

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	9.13	8.90	8.78	8.66	8.49	8.43	8.31	8.25	8.19
45.0	9.60	9.31	9.13	8.95	8.78	8.66	8.54	8.49	8.37
90.0	9.71	9.48	9.25	9.13	8.95	8.84	8.72	8.66	8.54
135.0	9.95	9.66	9.48	9.19	9.01	8.90	8.78	8.72	8.54
180.0	9.83	9.54	9.36	9.13	8.95	8.84	8.72	8.60	8.54
225.0	9.42	9.25	8.95	8.90	8.72	8.66	8.54	8.49	8.37
270.0	9.48	9.31	9.13	8.95	8.78	8.66	8.60	8.49	8.37
315.0	9.07	8.90	8.72	8.60	8.49	8.43	8.37	8.25	8.19
360.0	9.13	8.90	8.78	8.66	8.49	8.43	8.31	8.25	8.19

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	8.13	8.08	8.02	7.96	7.90	7.84	7.84	7.78	7.72
45.0	8.31	8.25	8.19	8.13	8.08	8.02	7.96	7.90	7.84
90.0	8.49	8.43	8.31	8.25	8.19	8.08	8.08	8.02	7.96
135.0	8.49	8.43	8.37	8.31	8.19	8.19	8.08	8.02	8.02
180.0	8.43	8.37	8.31	8.19	8.13	8.08	8.02	7.96	7.96
225.0	8.25	8.25	8.13	8.13	8.08	8.02	7.96	7.96	7.90
270.0	8.31	8.25	8.19	8.13	8.08	8.02	7.96	7.90	7.90
315.0	8.19	8.08	8.02	8.02	7.96	7.90	7.84	7.84	7.78
360.0	8.13	8.08	8.02	7.96	7.90	7.84	7.84	7.78	7.72

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.72	7.67	7.67	7.61	7.61	7.61	7.55	7.49	7.49
45.0	7.78	7.78	7.72	7.72	7.67	7.61	7.61	7.55	7.55
90.0	7.90	7.90	7.84	7.78	7.78	7.72	7.72	7.67	7.67
135.0	7.96	7.90	7.90	7.84	7.78	7.78	7.72	7.72	7.67
180.0	7.84	7.84	7.78	7.78	7.72	7.67	7.67	7.61	7.55
225.0	7.78	7.78	7.78	7.72	7.67	7.67	7.61	7.61	7.55
270.0	7.84	7.84	7.78	7.72	7.67	7.61	7.67	7.61	7.61
315.0	7.78	7.72	7.67	7.67	7.61	7.61	7.55	7.55	7.55
360.0	7.72	7.67	7.67	7.61	7.61	7.61	7.55	7.49	7.49

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.43	7.43	7.37	7.26	7.26	7.26	7.20	7.20	7.20
45.0	7.49	7.49	7.43	7.37	7.32	7.32	7.20	7.26	7.20
90.0	7.61	7.55	7.55	7.43	7.37	7.32	7.32	7.26	7.26
135.0	7.67	7.61	7.61	7.55	7.49	7.43	7.37	7.32	7.32
180.0	7.55	7.49	7.49	7.49	7.43	7.32	7.26	7.26	7.20
225.0	7.55	7.55	7.49	7.37	7.32	7.26	7.26	7.20	7.20
270.0	7.55	7.49	7.49	7.43	7.32	7.32	7.26	7.20	7.20
315.0	7.49	7.49	7.37	7.37	7.32	7.32	7.26	7.26	7.26
360.0	7.43	7.43	7.37	7.26	7.26	7.26	7.20	7.20	7.20

Intensity data(cd)

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