NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:
LumCAT: 1-1379-L
Luminaire: 92.70.427.00
Report No: 20231124-B013
Ballast type: AC

Test No: 20231124-C013	Voltage(V): 34.220
LampCAT: BRIDGELUX V10B	Current(A): 0.331
Lamp flux(lm): 1647.3	Power (W): 11.323
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1462.91, Efficiency(%): 88.81% , Luminous Efficacy(lm/W): 129.20
Central intensity(cd): 3676.033, Maximum intensity(cd): 3676.033
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=35.2
[C90/270]Total=35.2
Field angle(10%Imax): [C0/180]Total=59.4
[C90/270]Total=59.4
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.57 C90_270=0.57
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 88.81%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.951%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3676.033	0.000	0	0.00%	0.00%
1.0	3675.064	3.517	3.517	0.21%	0.24%
2.0	3664.754	10.535	14.052	0.64%	0.96%
3.0	3642.059	17.475	31.528	1.06%	2.16%
4.0	3604.903	24.258	55.786	1.47%	3.81%
5.0	3549.065	30.776	86.562	1.87%	5.92%
6.0	3478.628	36.932	123.494	2.24%	8.44%
7.0	3384.319	42.598	166.092	2.59%	11.35%
8.0	3279.701	47.693	213.785	2.90%	14.61%
9.0	3164.842	52.230	266.015	3.17%	18.18%
10.0	3044.240	56.190	322.205	3.41%	22.02%
11.0	2902.812	59.423	381.628	3.61%	26.09%
12.0	2761.453	61.919	443.546	3.76%	30.32%
13.0	2603.003	63.663	507.209	3.86%	34.67%
14.0	2442.754	64.585	571.794	3.92%	39.09%
15.0	2275.863	64.779	636.574	3.93%	43.51%
16.0	2098.870	64.102	700.676	3.89%	47.90%
17.0	1928.243	62.713	763.389	3.81%	52.18%
18.0	1764.604	60.887	824.276	3.70%	56.35%
19.0	1579.723	58.184	882.46	3.53%	60.32%
20.0	1401.276	54.561	937.021	3.31%	64.05%
21.0	1255.482	51.015	988.036	3.10%	67.54%
22.0	1122.163	47.780	1035.816	2.90%	70.81%
23.0	1012.556	44.792	1080.608	2.72%	73.87%
24.0	892.978	41.662	1122.27	2.53%	76.72%
25.0	776.943	37.970	1160.24	2.31%	79.31%
26.0	670.851	34.175	1194.415	2.07%	81.65%
27.0	571.388	30.392	1224.807	1.84%	83.72%
28.0	489.167	26.851	1251.658	1.63%	85.56%
29.0	413.907	23.627	1275.285	1.43%	87.17%
30.0	347.925	20.569	1295.854	1.25%	88.58%
31.0	288.482	17.710	1313.564	1.08%	89.79%
32.0	250.662	15.446	1329.01	0.94%	90.85%
33.0	211.990	13.630	1342.64	0.83%	91.78%
34.0	166.116	11.443	1354.083	0.69%	92.56%
35.0	134.108	9.324	1363.407	0.57%	93.20%
36.0	109.773	7.765	1371.172	0.47%	93.73%
37.0	91.894	6.577	1377.749	0.40%	94.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	76.720	5.628	1383.377	0.34%	94.56%
39.0	64.736	4.828	1388.205	0.29%	94.89%
40.0	54.779	4.168	1392.374	0.25%	95.18%
41.0	47.597	3.646	1396.019	0.22%	95.43%
42.0	42.138	3.260	1399.28	0.20%	95.65%
43.0	37.523	2.951	1402.23	0.18%	95.85%
44.0	33.676	2.687	1404.918	0.16%	96.04%
45.0	30.818	2.479	1407.396	0.15%	96.21%
46.0	28.244	2.310	1409.706	0.14%	96.36%
47.0	26.168	2.164	1411.87	0.13%	96.51%
48.0	24.342	2.042	1413.912	0.12%	96.65%
49.0	22.813	1.936	1415.848	0.12%	96.78%
50.0	21.470	1.846	1417.695	0.11%	96.91%
51.0	20.280	1.766	1419.461	0.11%	97.03%
52.0	19.242	1.696	1421.157	0.10%	97.15%
53.0	18.274	1.632	1422.789	0.10%	97.26%
54.0	17.457	1.575	1424.364	0.10%	97.37%
55.0	16.751	1.527	1425.891	0.09%	97.47%
56.0	16.059	1.483	1427.374	0.09%	97.57%
57.0	15.451	1.441	1428.814	0.09%	97.67%
58.0	14.911	1.404	1430.218	0.09%	97.77%
59.0	14.406	1.371	1431.589	0.08%	97.86%
60.0	13.963	1.340	1432.929	0.08%	97.95%
61.0	13.527	1.312	1434.241	0.08%	98.04%
62.0	13.146	1.285	1435.526	0.08%	98.13%
63.0	12.759	1.260	1436.786	0.08%	98.21%
64.0	12.420	1.236	1438.022	0.08%	98.30%
65.0	12.095	1.213	1439.235	0.07%	98.38%
66.0	11.790	1.192	1440.427	0.07%	98.46%
67.0	11.514	1.172	1441.598	0.07%	98.54%
68.0	11.237	1.152	1442.751	0.07%	98.62%
69.0	11.002	1.134	1443.885	0.07%	98.70%
70.0	10.752	1.117	1445.003	0.07%	98.78%
71.0	10.503	1.099	1446.101	0.07%	98.85%
72.0	10.254	1.079	1447.181	0.07%	98.92%
73.0	9.991	1.059	1448.239	0.06%	99.00%
74.0	9.728	1.037	1449.276	0.06%	99.07%
75.0	9.472	1.014	1450.29	0.06%	99.14%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.203	0.991	1451.282	0.06%	99.21%
77.0	9.036	0.972	1452.254	0.06%	99.27%
78.0	8.732	0.951	1453.205	0.06%	99.34%
79.0	8.476	0.925	1454.13	0.06%	99.40%
80.0	8.275	0.903	1455.033	0.05%	99.46%
81.0	8.054	0.883	1455.916	0.05%	99.52%
82.0	7.833	0.861	1456.778	0.05%	99.58%
83.0	7.653	0.842	1457.619	0.05%	99.64%
84.0	7.452	0.823	1458.442	0.05%	99.69%
85.0	7.189	0.799	1459.241	0.05%	99.75%
86.0	6.947	0.773	1460.014	0.05%	99.80%
87.0	6.719	0.748	1460.762	0.05%	99.85%
88.0	6.580	0.728	1461.49	0.04%	99.90%
89.0	6.456	0.715	1462.205	0.04%	99.95%
90.0	6.352	0.702	1462.907	0.04%	100.00%

Zonal flux distribution table

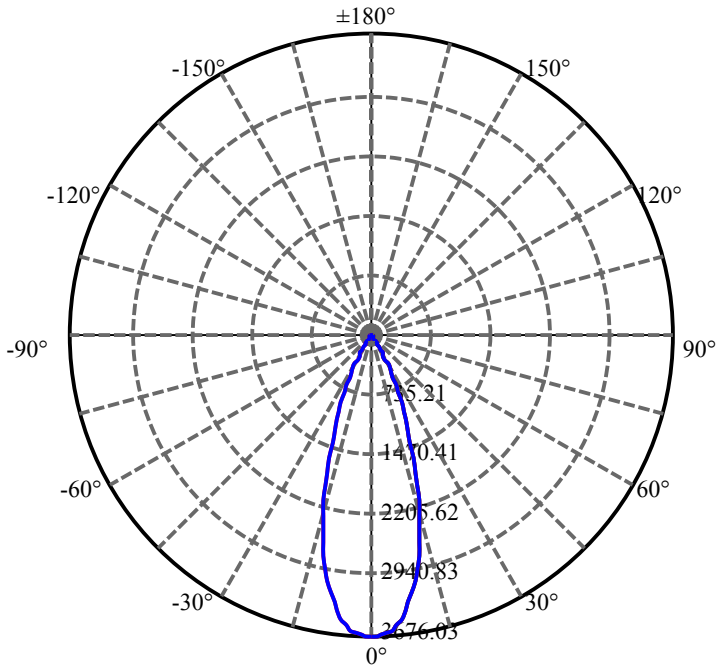
ZONAL LUMEN SUMMARY

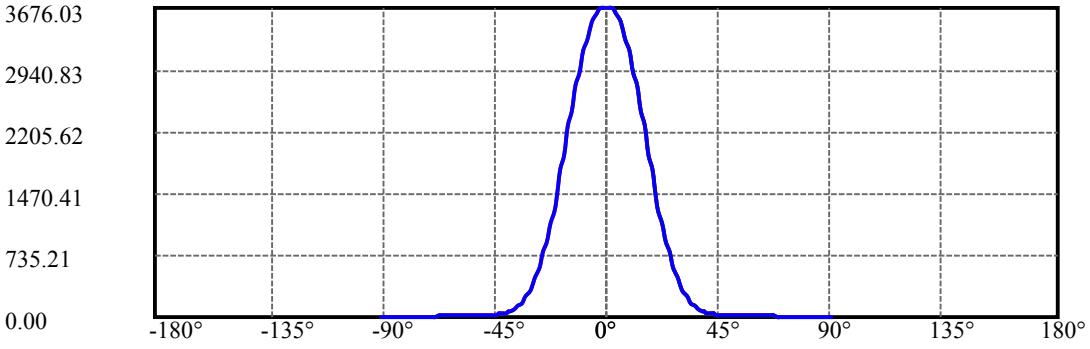
Zone	Lumens	%Lamp	%Fixt
0-30	1295.85	78.67%	88.58%
0-40	1392.37	84.53%	95.18%
0-60	1432.93	86.99%	97.95%
0-90	1462.20	88.76%	99.95%
0-120	1462.20	88.76%	99.95%
0-180	1462.91	88.81%	100.00%
60-90	29.28	1.78%	2.00%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.30	1170.33	71.05%	80.00%

ZONAL LUMEN SUMMARY

0-10	322.20
10-20	614.82
20-30	358.83
30-40	96.52
40-50	25.32
50-60	15.23
60-70	12.07
70-80	10.03
80-90	7.17
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):

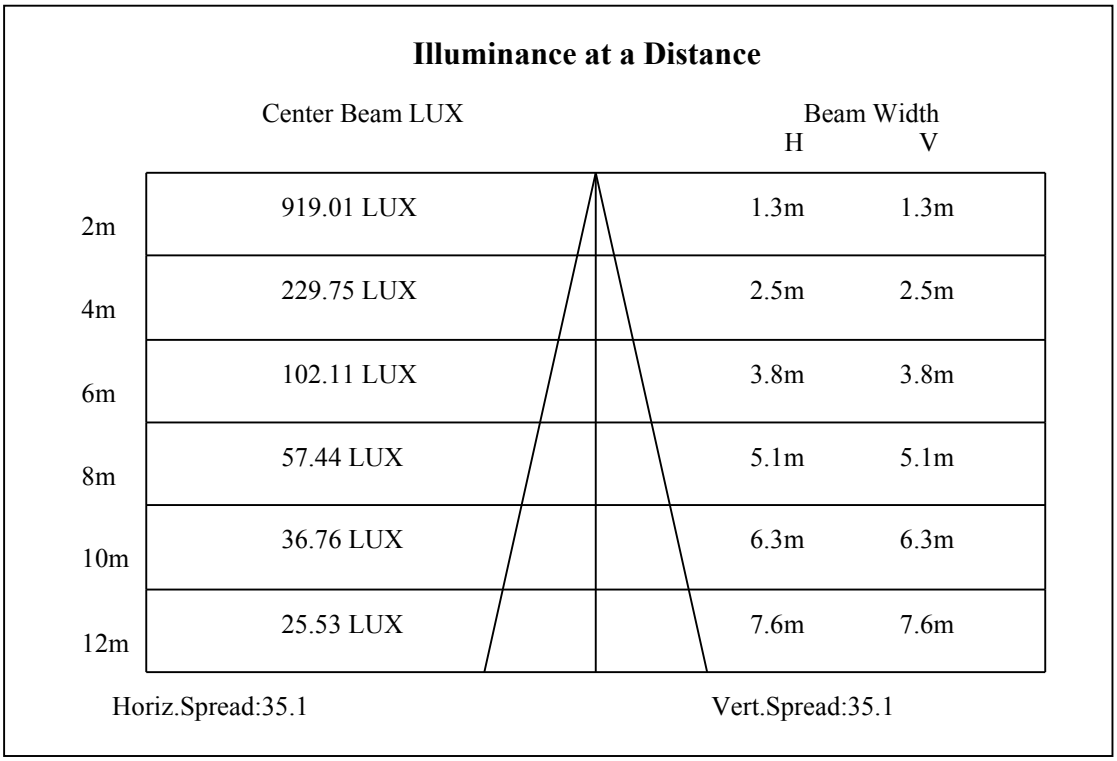
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:29.7 Right:29.7
:C90/270Left:29.7 Right:29.7

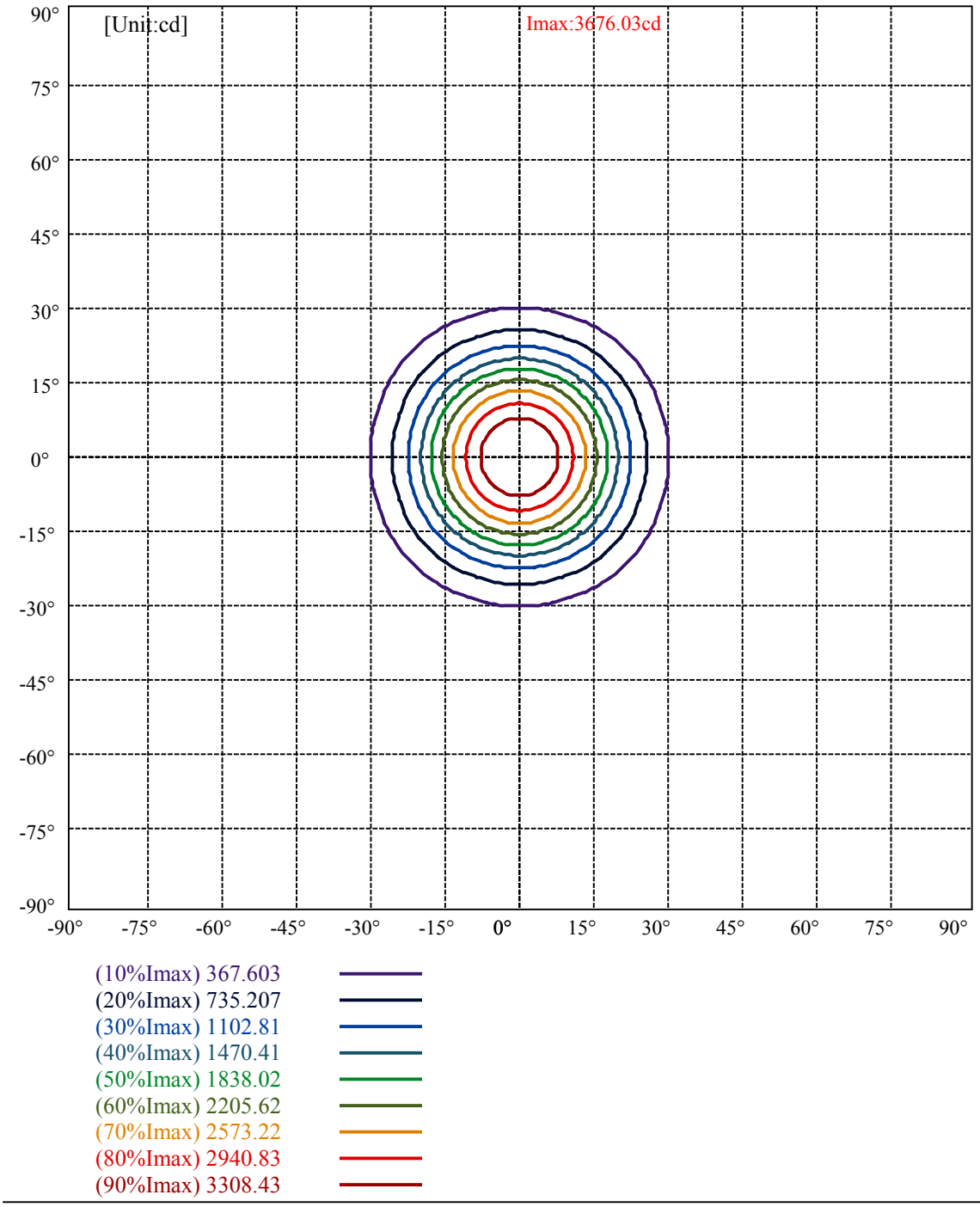
Beam Angle(50%Imax):C0/180Left:17.6 Right:17.6
:C90/270Left:17.6 Right:17.6

Lux distance Curve



Equipment: GMS1980 Date: 2023/11/24 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

ISO-Intensity(V-H)

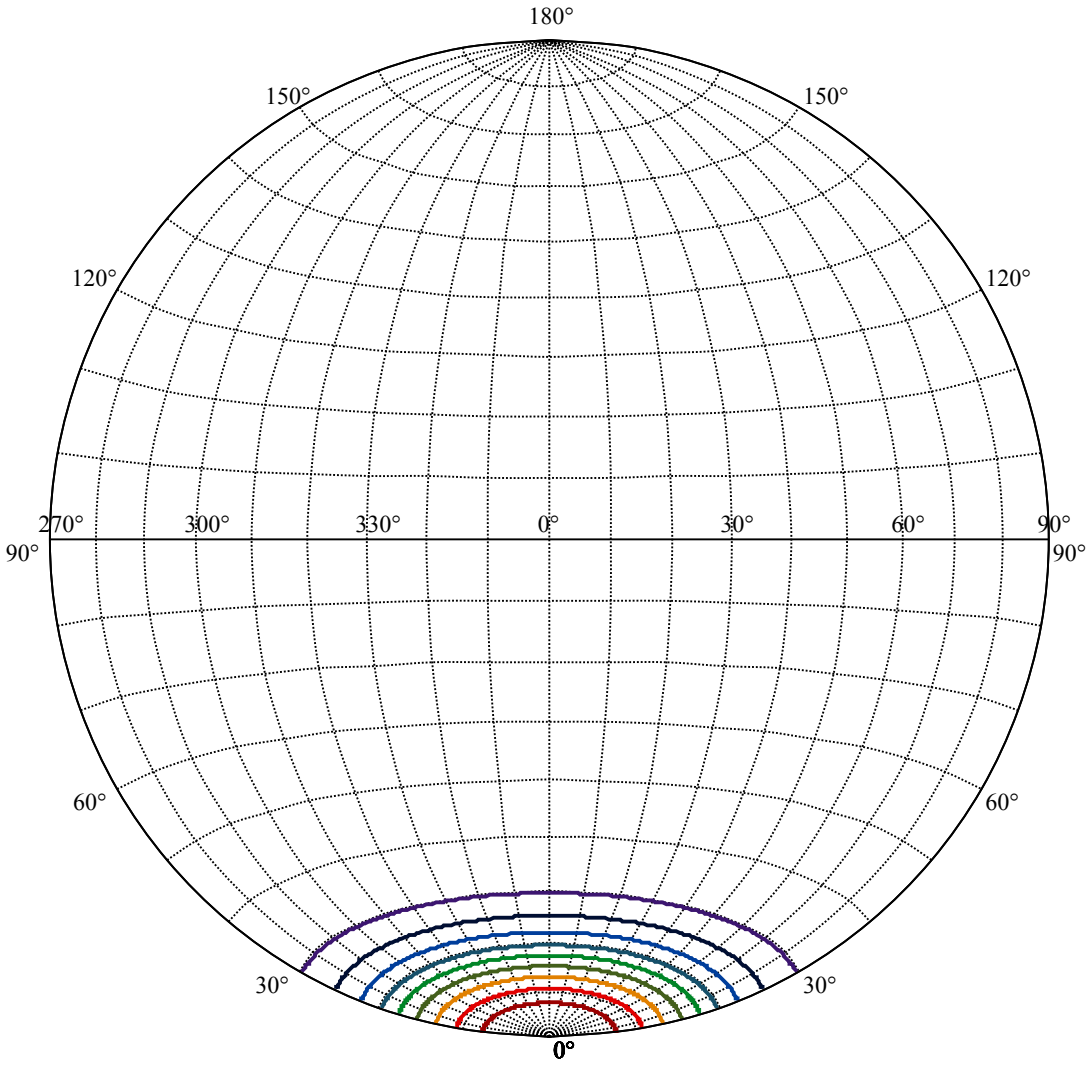


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/24
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

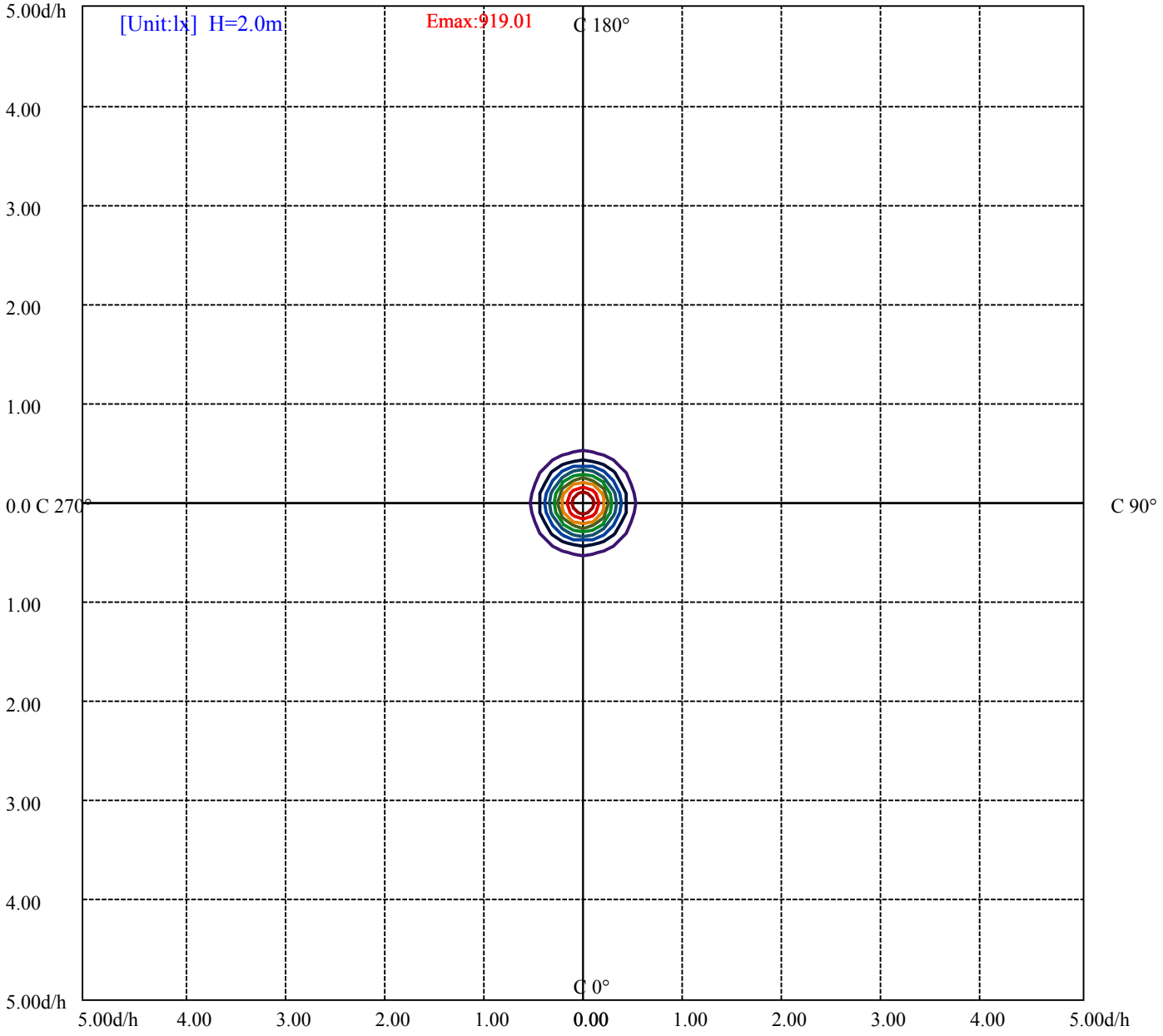
Imax:3676.03

(10%Imax) 367.603
(20%Imax) 735.207
(30%Imax) 1102.81
(40%Imax) 1470.41
(50%Imax) 1838.02
(60%Imax) 2205.62
(70%Imax) 2573.22
(80%Imax) 2940.83
(90%Imax) 3308.43

Equipment: GMS1980 Date: 2023/11/24 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

NT 1-1379-L

ISO illuminance diagram

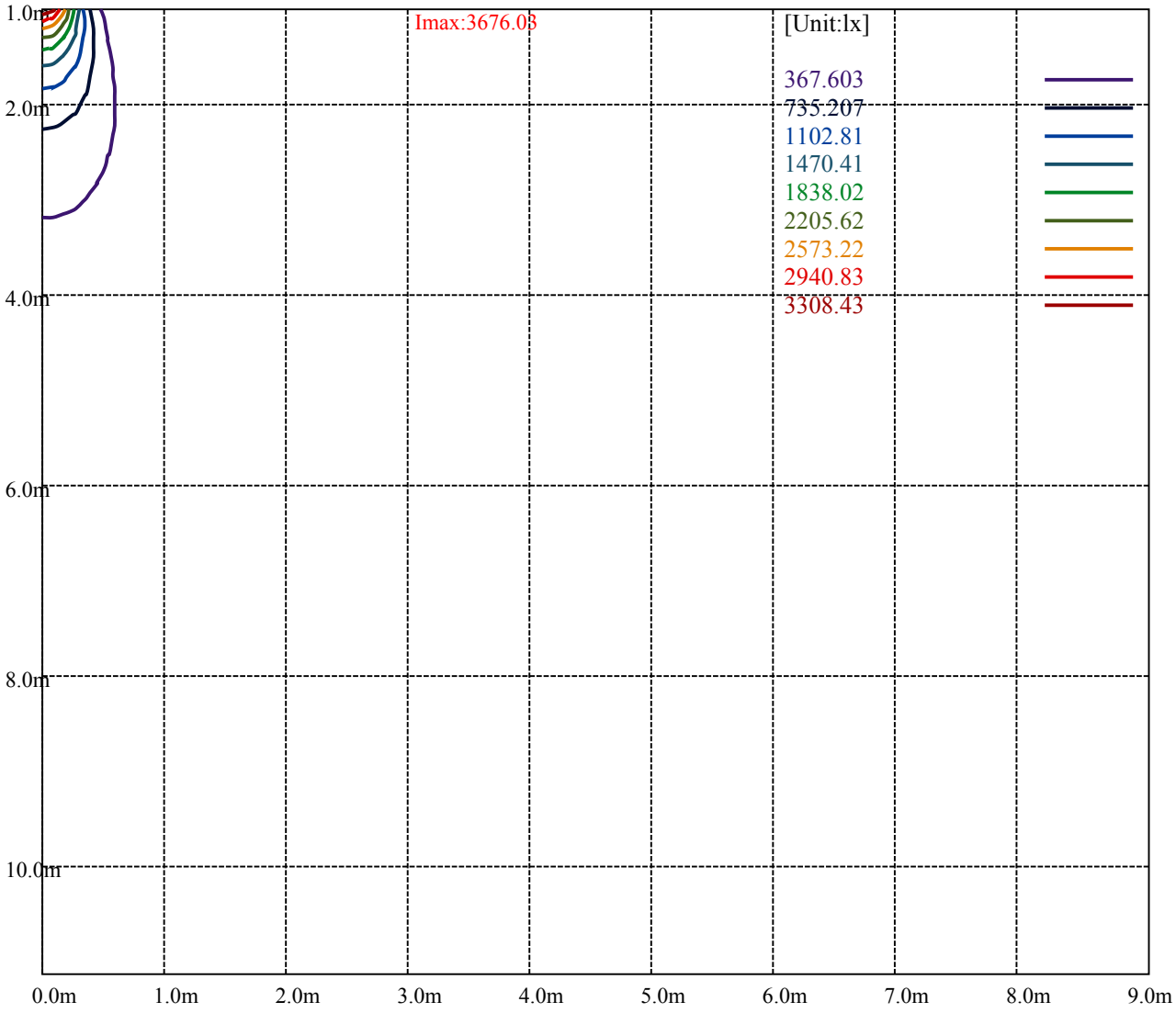


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/24
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/24
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 1-1379-L

Luminance Limitting Curve(no luminous side)

Luminance Table

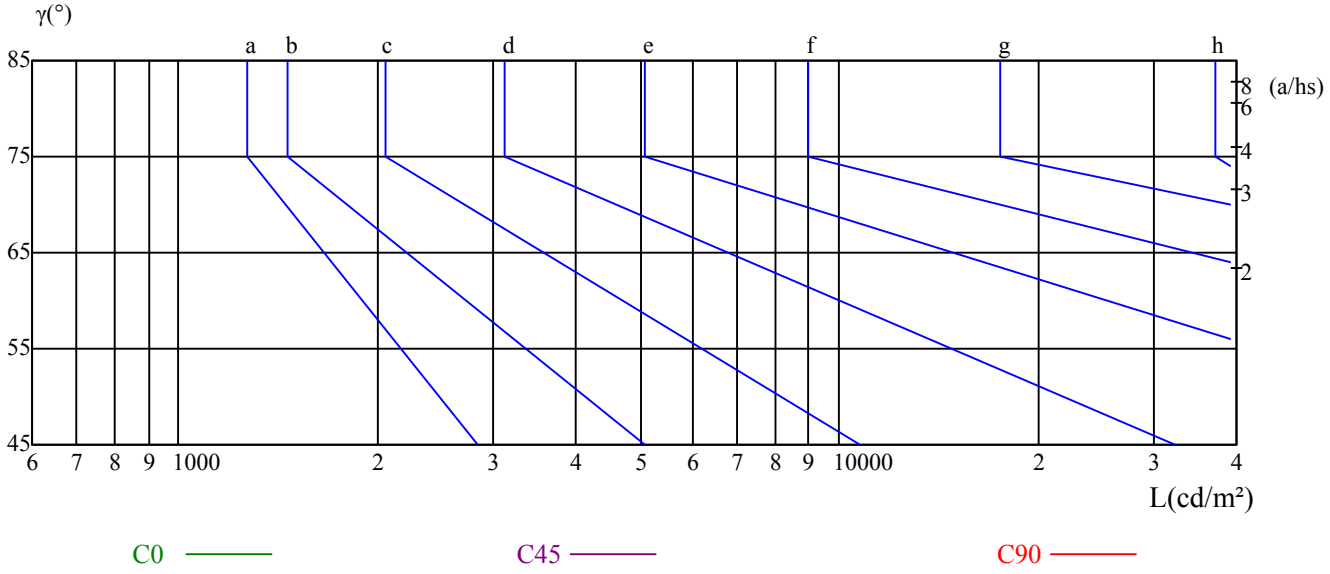
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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	0	0	0

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

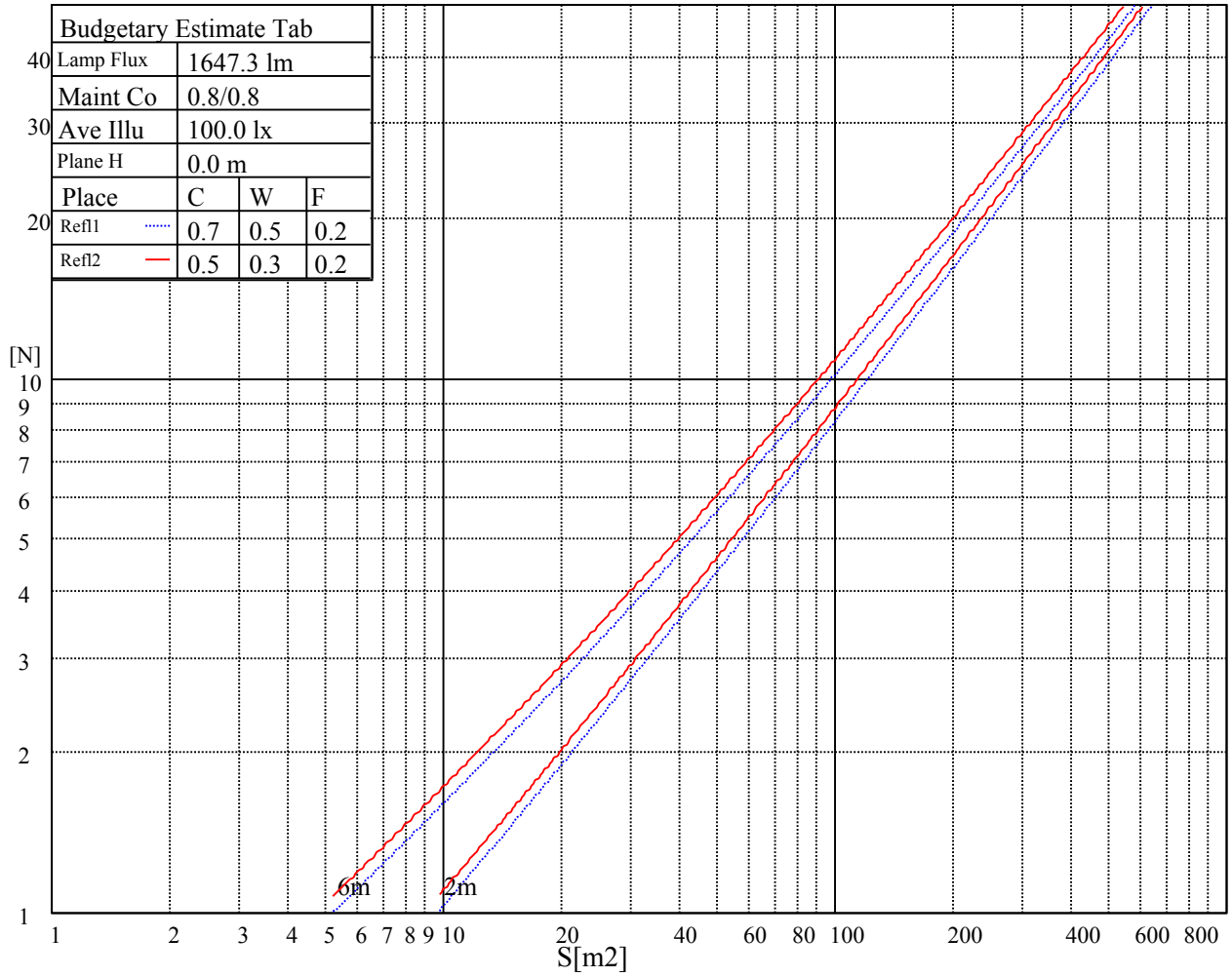
Luminance Limitting Curve



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	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
Variation with the observer position at spacings:											
S = 1.0H		非数字/非数字					非数字/非数字				
S = 1.5H		非数字/非数字					非数字/非数字				
S = 2.0H		非数字/非数字					非数字/非数字				
Standard tables:		BK0					BK0				
Uncorrected UGR		负无穷大					负无穷大				

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

Budgetary Estimate Table

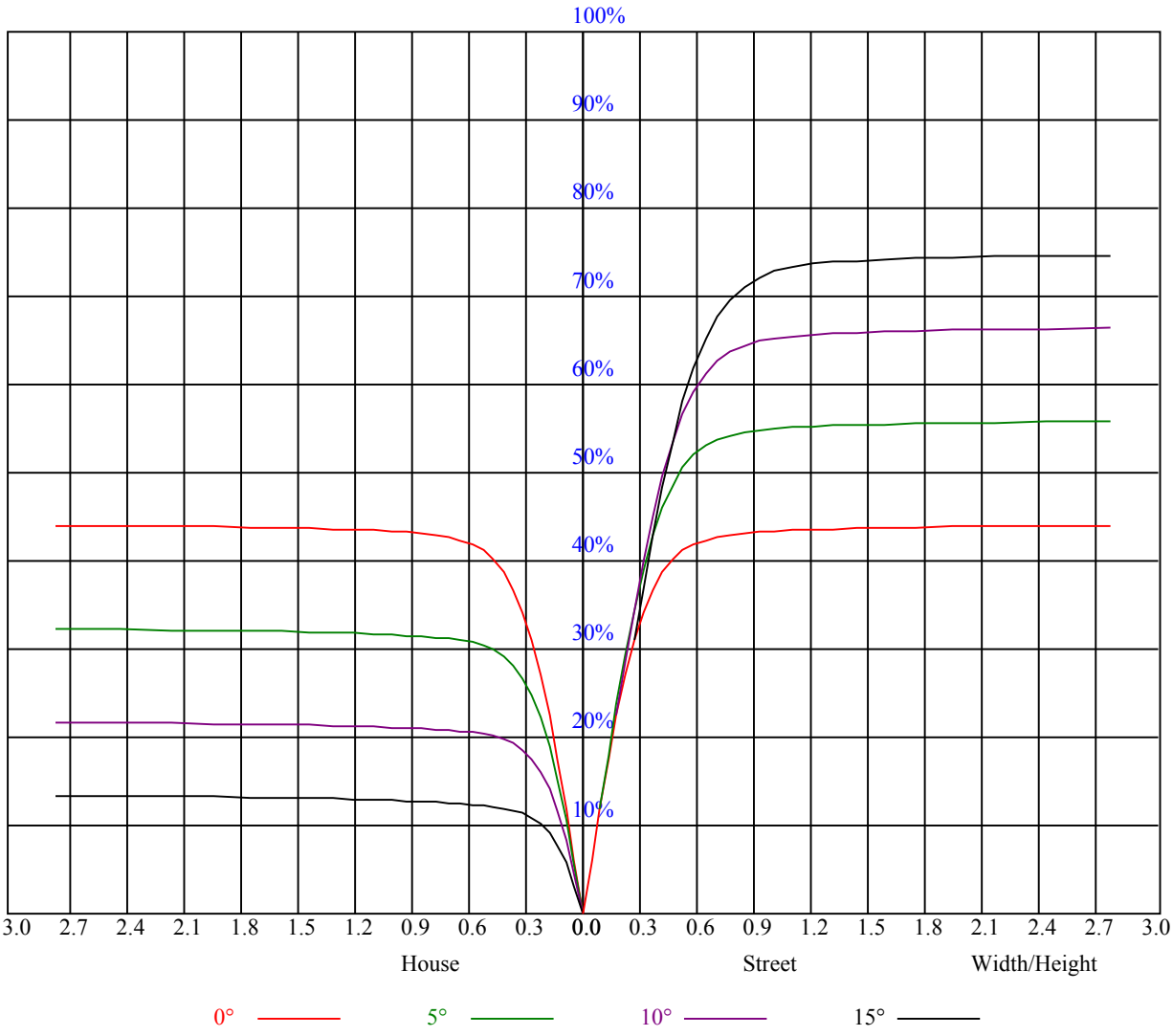


Equipment: GMS1980 Date: 2023/11/24 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.06	1.06	1.06	1.03	1.03	1.03	0.99	0.99	0.99	0.94	0.94	0.94	0.91	0.91	0.91	0.89
1	0.99	0.97	0.95	0.97	0.95	0.94	0.94	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.86	0.84
2	0.93	0.90	0.88	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.84	0.82	0.81	0.80
3	0.88	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.80	0.78	0.81	0.79	0.77	0.76
4	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.78	0.76	0.74	0.72
5	0.80	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.76	0.73	0.71	0.75	0.72	0.70	0.69
6	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.68	0.72	0.70	0.67	0.66
7	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
8	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.61
9	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.59
10	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.63	0.60	0.57	0.57

Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/24
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

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	3671.60	3671.60	3663.85	3618.46	3537.65	3463.47	3382.66	3281.91	3150.73
45.0	3669.94	3671.60	3673.26	3659.43	3620.13	3548.17	3473.44	3384.32	3266.42
90.0	3669.39	3673.82	3657.77	3616.80	3558.68	3486.17	3389.85	3262.54	3146.30
135.0	3693.19	3686.00	3676.03	3666.62	3627.32	3569.75	3504.99	3398.16	3305.72
180.0	3671.60	3677.69	3666.07	3658.32	3644.48	3626.21	3588.02	3506.65	3419.75
225.0	3669.94	3661.09	3638.39	3617.91	3596.88	3533.77	3473.99	3392.62	3305.72
270.0	3669.39	3674.93	3669.94	3635.07	3622.89	3599.64	3548.17	3466.80	3381.00
315.0	3693.19	3683.78	3672.71	3663.85	3631.20	3565.33	3467.90	3381.55	3261.99
360.0	3671.60	3671.60	3663.85	3618.46	3537.65	3463.47	3382.66	3281.91	3150.73

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3045.00	2916.58	2736.68	2586.67	2395.15	2237.39	2072.99	1910.81	1719.28
45.0	3151.28	3031.16	2897.76	2711.77	2561.21	2401.24	2244.59	2031.48	1862.10
90.0	3022.31	2841.30	2687.42	2529.66	2366.92	2164.88	2003.25	1839.40	1679.43
135.0	3166.78	3046.66	2881.71	2738.34	2591.10	2433.34	2230.75	2059.15	1892.54
180.0	3302.95	3210.51	3102.57	2992.42	2823.59	2686.31	2537.96	2382.97	2174.29
225.0	3178.40	3066.04	2950.90	2829.12	2660.29	2515.82	2320.98	2154.36	1996.60
270.0	3288.56	3193.35	3058.29	2933.19	2801.45	2628.19	2479.84	2290.53	2135.54
315.0	3163.46	3048.32	2907.17	2770.45	2624.31	2474.86	2316.55	2122.26	1966.16
360.0	3045.00	2916.58	2736.68	2586.67	2395.15	2237.39	2072.99	1910.81	1719.28

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1570.94	1427.02	1082.66	1082.66	992.66	877.08	770.80	653.34	568.32
45.0	1706.00	1515.58	1372.77	1203.94	1080.50	964.81	857.98	737.86	648.74
90.0	1488.46	1243.24	1089.41	1060.02	948.76	819.34	723.31	635.68	554.75
135.0	1729.80	1541.04	1396.02	1258.74	1130.87	980.31	864.62	756.68	636.57
180.0	2003.25	1837.19	1678.32	1484.03	1334.58	1157.44	1024.60	901.71	760.00
225.0	1836.08	1642.34	1491.78	1248.22	1080.56	1049.01	925.68	811.54	682.57
270.0	1972.25	1811.72	1624.07	1471.30	1332.91	1207.26	1051.72	927.73	823.11
315.0	1810.06	1619.65	1475.17	1234.94	1076.46	1045.19	925.12	791.00	692.75
360.0	1570.94	1427.02	1082.66	1082.66	992.66	877.08	770.80	653.34	568.32

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	469.23	399.65	338.82	274.17	229.33	191.69	152.67	126.48	105.28
45.0	567.93	493.20	406.85	347.62	293.93	281.75	226.84	163.51	136.45
90.0	459.05	393.23	333.89	281.81	227.28	190.64	158.59	126.37	105.50
135.0	549.66	456.67	389.14	331.57	279.54	279.54	185.99	155.77	129.91
180.0	658.15	564.61	484.90	396.33	335.44	281.75	281.75	187.15	157.20
225.0	587.41	505.43	411.28	347.29	292.93	235.86	198.39	167.78	134.79
270.0	698.01	600.59	520.32	443.38	358.14	300.57	287.84	231.05	167.22
315.0	581.66	499.95	426.06	361.24	291.27	243.50	203.87	170.82	136.50
360.0	469.23	399.65	338.82	274.17	229.33	191.69	152.67	126.48	105.28

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	88.40	72.07	61.28	53.08	46.72	40.68	36.87	33.71	30.44
45.0	108.77	90.89	72.96	61.83	53.31	46.88	40.57	36.64	33.38
90.0	84.58	71.18	60.39	52.14	44.39	39.47	35.59	32.38	29.12
135.0	103.95	86.96	73.34	61.89	51.31	45.17	40.35	35.48	32.33
180.0	131.19	109.88	88.29	74.84	61.17	52.53	45.78	39.63	35.81
225.0	113.42	96.26	82.20	67.92	58.84	51.70	45.89	40.02	36.15
270.0	134.07	112.70	95.26	81.15	66.92	57.84	50.81	45.22	39.30
315.0	113.81	95.21	80.04	65.04	55.58	46.50	41.24	37.09	32.88
360.0	88.40	72.07	61.28	53.08	46.72	40.68	36.87	33.71	30.44

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	28.29	25.91	24.30	22.92	21.64	20.31	19.32	18.43	17.66
45.0	30.78	27.95	26.02	24.36	22.58	21.31	20.20	18.99	18.10
90.0	27.07	25.19	23.69	22.03	20.87	19.60	18.71	17.88	16.99
135.0	29.23	27.18	25.35	23.75	22.09	20.92	19.87	18.99	17.88
180.0	32.66	29.95	27.29	25.46	23.86	22.53	20.98	19.93	18.99
225.0	32.88	29.61	27.51	25.19	23.64	22.31	20.76	19.76	18.76
270.0	35.37	32.16	29.06	27.01	25.19	23.36	22.09	20.87	19.60
315.0	30.28	28.01	26.13	24.02	22.64	21.42	20.31	19.10	18.21
360.0	28.29	25.91	24.30	22.92	21.64	20.31	19.32	18.43	17.66

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	16.83	16.27	15.67	15.00	14.50	14.12	13.67	13.28	12.90
45.0	17.38	16.61	15.94	15.39	14.78	14.34	13.89	13.45	13.01
90.0	16.38	15.83	15.17	14.67	14.23	13.84	13.40	13.01	12.73
135.0	17.16	16.55	15.78	15.22	14.72	14.17	13.78	13.28	12.95
180.0	17.93	17.21	16.55	15.83	15.33	14.72	14.28	13.89	13.51
225.0	17.88	17.16	16.33	15.78	15.22	14.56	14.17	13.73	13.28
270.0	18.65	17.82	17.10	16.27	15.72	15.17	14.67	14.12	13.73
315.0	17.44	16.55	15.94	15.44	14.78	14.34	13.84	13.45	13.06
360.0	16.83	16.27	15.67	15.00	14.50	14.12	13.67	13.28	12.90

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	12.51	12.18	11.90	11.62	11.29	11.02	10.79	10.57	10.24
45.0	12.62	12.34	12.01	11.68	11.40	11.07	10.85	10.57	10.30
90.0	12.40	12.07	11.85	11.57	11.35	11.18	11.07	10.90	10.74
135.0	12.62	12.29	11.96	11.68	11.46	11.13	10.96	10.68	10.41
180.0	13.06	12.68	12.40	12.07	11.73	11.46	11.18	10.90	10.63
225.0	12.90	12.51	12.12	11.85	11.57	11.24	10.96	10.74	10.52
270.0	13.23	12.90	12.51	12.12	11.85	11.57	11.29	11.02	10.74
315.0	12.73	12.40	12.01	11.73	11.46	11.24	10.90	10.63	10.46
360.0	12.51	12.18	11.90	11.62	11.29	11.02	10.79	10.57	10.24

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.96	9.74	9.41	9.24	8.91	8.69	8.41	8.19	8.03
45.0	10.02	9.80	9.63	9.30	9.08	8.86	8.64	8.36	8.19
90.0	10.52	10.19	9.91	9.63	9.30	9.58	8.86	8.52	8.25
135.0	10.13	9.85	9.63	9.41	9.13	8.91	8.75	8.58	8.36
180.0	10.46	10.13	9.85	9.63	9.35	9.08	8.86	8.58	8.36
225.0	10.24	9.96	9.74	9.47	9.19	8.97	8.69	8.41	8.25
270.0	10.52	10.30	9.96	9.69	9.47	9.30	8.97	8.69	8.47
315.0	10.19	9.96	9.69	9.41	9.19	8.91	8.69	8.47	8.30
360.0	9.96	9.74	9.41	9.24	8.91	8.69	8.41	8.19	8.03

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.86	7.58	7.47	7.20	6.97	6.81	6.64	6.48	6.42
45.0	7.97	7.75	7.58	7.42	7.09	6.81	6.64	6.53	6.31
90.0	7.97	7.75	7.53	7.36	6.75	6.64	6.53	6.25	6.25
135.0	8.08	7.92	7.69	7.47	7.25	6.86	6.64	6.59	6.37
180.0	8.19	7.92	7.75	7.64	7.42	7.31	6.92	6.75	6.59
225.0	8.03	7.86	7.64	7.42	7.31	6.92	6.75	6.64	6.59
270.0	8.25	8.03	7.86	7.64	7.47	7.31	6.86	6.75	6.59
315.0	8.08	7.86	7.69	7.47	7.25	6.92	6.75	6.64	6.53
360.0	7.86	7.58	7.47	7.20	6.97	6.81	6.64	6.48	6.42

Intensity data(cd)

C/γ(°)	90.0
0.0	6.42
45.0	6.31
90.0	6.31
135.0	6.37
180.0	6.37
225.0	6.31
270.0	6.48
315.0	6.25
360.0	6.42