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NATA

Client:
LumCAT: 1-1378-L
Luminaire: 92.70.410.00
Report No: 2023629-B012
Ballast type: AC

Test No: 2023629-C012	Voltage(V): 34.880
LampCAT: FORTIMO SLM C 1204	Current(A): 0.301
Lamp flux(lm): 1660.3	Power (W): 10.498
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1536.52, Efficiency(%): 92.54% , Luminous Efficacy(lm/W): 146.36
Central intensity(cd): 5306.694, Maximum intensity(cd): 5306.694
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=26.4
[C90/270]Total=26.4
Field angle(10%Imax): [C0/180]Total=55.4
[C90/270]Total=55.4
Maximum s/h(1/2): C0_180=0.44 C90_270=0.44
Maximum s/h(1/4): C0_180=0.47 C90_270=0.47
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.54%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.195%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5306.694	0.000	0	0.00%	0.00%
1.0	5287.736	5.069	5.069	0.31%	0.33%
2.0	5218.544	15.080	20.149	0.91%	1.31%
3.0	5110.743	24.704	44.853	1.49%	2.92%
4.0	4961.634	33.715	78.569	2.03%	5.11%
5.0	4782.357	41.918	120.487	2.52%	7.84%
6.0	4567.447	49.136	169.622	2.96%	11.04%
7.0	4339.874	55.288	224.91	3.33%	14.64%
8.0	4079.090	60.253	285.163	3.63%	18.56%
9.0	3813.116	63.962	349.125	3.85%	22.72%
10.0	3553.161	66.662	415.787	4.01%	27.06%
11.0	3288.433	68.362	484.149	4.12%	31.51%
12.0	2990.907	68.642	552.791	4.13%	35.98%
13.0	2715.869	67.725	620.516	4.08%	40.38%
14.0	2465.602	66.322	686.838	3.99%	44.70%
15.0	2221.838	64.351	751.19	3.88%	48.89%
16.0	1998.210	61.836	813.025	3.72%	52.91%
17.0	1795.546	59.079	872.104	3.56%	56.76%
18.0	1595.927	55.918	928.022	3.37%	60.40%
19.0	1399.941	52.122	980.144	3.14%	63.79%
20.0	1281.692	49.081	1029.225	2.96%	66.98%
21.0	1156.745	46.823	1076.048	2.82%	70.03%
22.0	1056.839	44.483	1120.531	2.68%	72.93%
23.0	958.026	42.277	1162.808	2.55%	75.68%
24.0	865.952	39.879	1202.687	2.40%	78.27%
25.0	771.020	37.221	1239.908	2.24%	80.70%
26.0	672.968	34.086	1273.994	2.05%	82.91%
27.0	586.748	30.819	1304.813	1.86%	84.92%
28.0	505.074	27.643	1332.456	1.66%	86.72%
29.0	421.234	24.235	1356.69	1.46%	88.30%
30.0	345.566	20.703	1377.394	1.25%	89.64%
31.0	286.247	17.582	1394.976	1.06%	90.79%
32.0	238.830	15.043	1410.019	0.91%	91.77%
33.0	193.731	12.743	1422.763	0.77%	92.60%
34.0	141.442	10.143	1432.906	0.61%	93.26%
35.0	103.885	7.619	1440.525	0.46%	93.75%
36.0	88.081	6.112	1446.637	0.37%	94.15%
37.0	76.596	5.371	1452.008	0.32%	94.50%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	68.777	4.852	1456.86	0.29%	94.82%
39.0	61.782	4.456	1461.317	0.27%	95.11%
40.0	56.184	4.114	1465.431	0.25%	95.37%
41.0	51.071	3.819	1469.25	0.23%	95.62%
42.0	46.400	3.541	1472.791	0.21%	95.85%
43.0	42.159	3.280	1476.072	0.20%	96.07%
44.0	38.637	3.049	1479.121	0.18%	96.26%
45.0	35.357	2.844	1481.965	0.17%	96.45%
46.0	32.327	2.647	1484.612	0.16%	96.62%
47.0	29.559	2.461	1487.073	0.15%	96.78%
48.0	27.241	2.296	1489.369	0.14%	96.93%
49.0	25.041	2.147	1491.516	0.13%	97.07%
50.0	23.159	2.010	1493.526	0.12%	97.20%
51.0	21.401	1.885	1495.411	0.11%	97.32%
52.0	19.907	1.773	1497.184	0.11%	97.44%
53.0	18.661	1.678	1498.861	0.10%	97.55%
54.0	17.485	1.593	1500.455	0.10%	97.65%
55.0	16.516	1.518	1501.972	0.09%	97.75%
56.0	15.665	1.454	1503.427	0.09%	97.85%
57.0	15.015	1.403	1504.829	0.08%	97.94%
58.0	14.350	1.358	1506.187	0.08%	98.03%
59.0	13.790	1.316	1507.503	0.08%	98.11%
60.0	13.333	1.281	1508.784	0.08%	98.20%
61.0	12.897	1.252	1510.036	0.08%	98.28%
62.0	12.489	1.223	1511.259	0.07%	98.36%
63.0	12.088	1.195	1512.455	0.07%	98.43%
64.0	11.714	1.168	1513.623	0.07%	98.51%
65.0	11.354	1.142	1514.764	0.07%	98.58%
66.0	10.981	1.114	1515.879	0.07%	98.66%
67.0	10.649	1.088	1516.966	0.07%	98.73%
68.0	10.289	1.061	1518.027	0.06%	98.80%
69.0	9.977	1.034	1519.061	0.06%	98.86%
70.0	9.701	1.011	1520.071	0.06%	98.93%
71.0	9.417	0.988	1521.059	0.06%	98.99%
72.0	9.126	0.964	1522.024	0.06%	99.06%
73.0	8.898	0.943	1522.966	0.06%	99.12%
74.0	8.656	0.923	1523.889	0.06%	99.18%
75.0	8.421	0.902	1524.791	0.05%	99.24%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.213	0.883	1525.674	0.05%	99.29%
77.0	8.006	0.865	1526.539	0.05%	99.35%
78.0	7.812	0.847	1527.386	0.05%	99.41%
79.0	7.639	0.830	1528.216	0.05%	99.46%
80.0	7.466	0.814	1529.03	0.05%	99.51%
81.0	7.321	0.800	1529.83	0.05%	99.56%
82.0	7.182	0.786	1530.616	0.05%	99.62%
83.0	7.051	0.774	1531.39	0.05%	99.67%
84.0	6.933	0.762	1532.152	0.05%	99.72%
85.0	6.795	0.749	1532.901	0.05%	99.76%
86.0	6.705	0.738	1533.639	0.04%	99.81%
87.0	6.629	0.730	1534.369	0.04%	99.86%
88.0	6.566	0.723	1535.091	0.04%	99.91%
89.0	6.490	0.716	1535.807	0.04%	99.95%
90.0	6.469	0.711	1536.518	0.04%	100.00%

Zonal flux distribution table

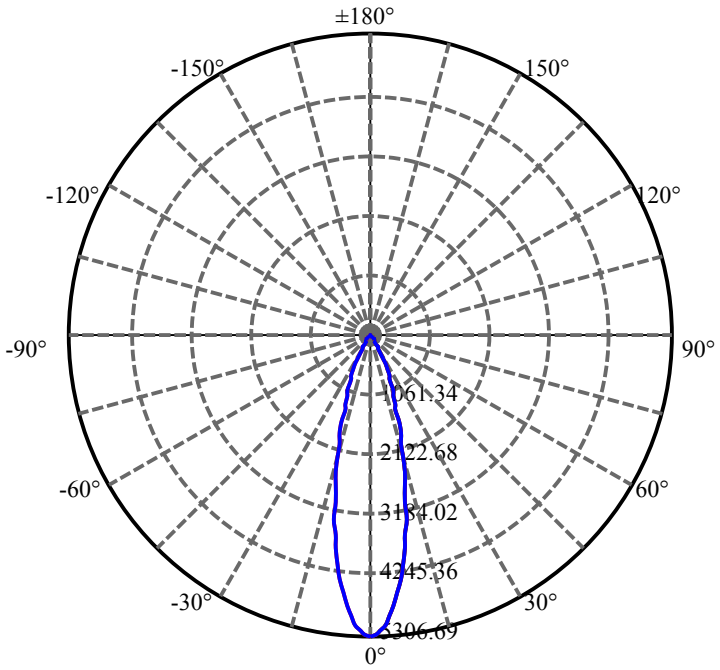
ZONAL LUMEN SUMMARY

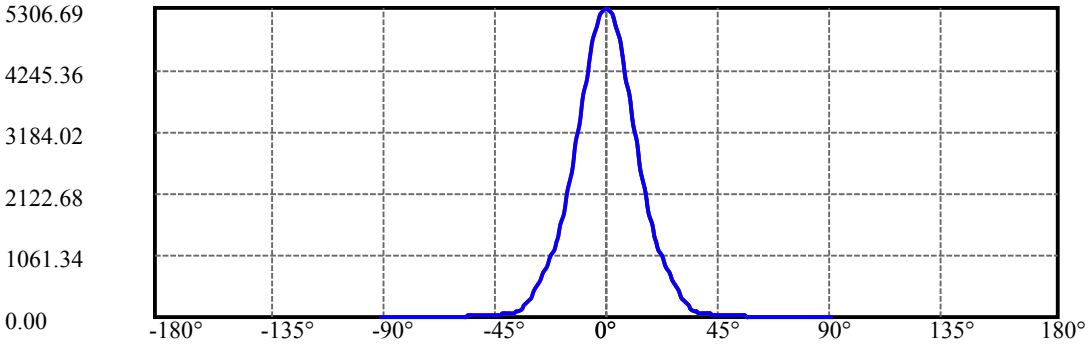
Zone	Lumens	%Lamp	%Fixt
0-30	1377.39	82.96%	89.64%
0-40	1465.43	88.26%	95.37%
0-60	1508.78	90.87%	98.20%
0-90	1535.81	92.50%	99.95%
0-120	1535.81	92.50%	99.95%
0-180	1536.52	92.54%	100.00%
60-90	27.02	1.63%	1.76%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.71	1229.21	74.03%	80.00%

ZONAL LUMEN SUMMARY

0-10	415.79
10-20	613.44
20-30	348.17
30-40	88.04
40-50	28.10
50-60	15.26
60-70	11.29
70-80	8.96
80-90	6.78
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:27.7 Right:27.7
:C90/270Left:27.7 Right:27.7

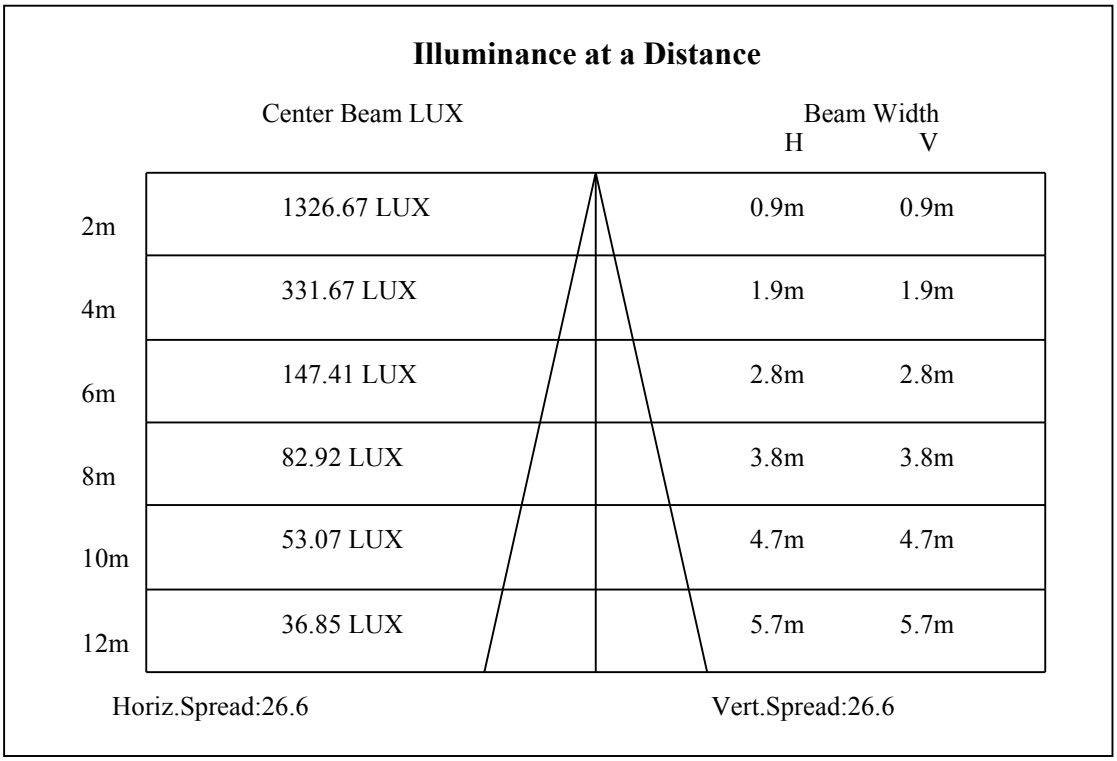
Beam Angle(50%Imax):C0/180Left:13.2 Right:13.2
:C90/270Left:13.2 Right:13.2

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/6/29
Humidity(%): 60.0%

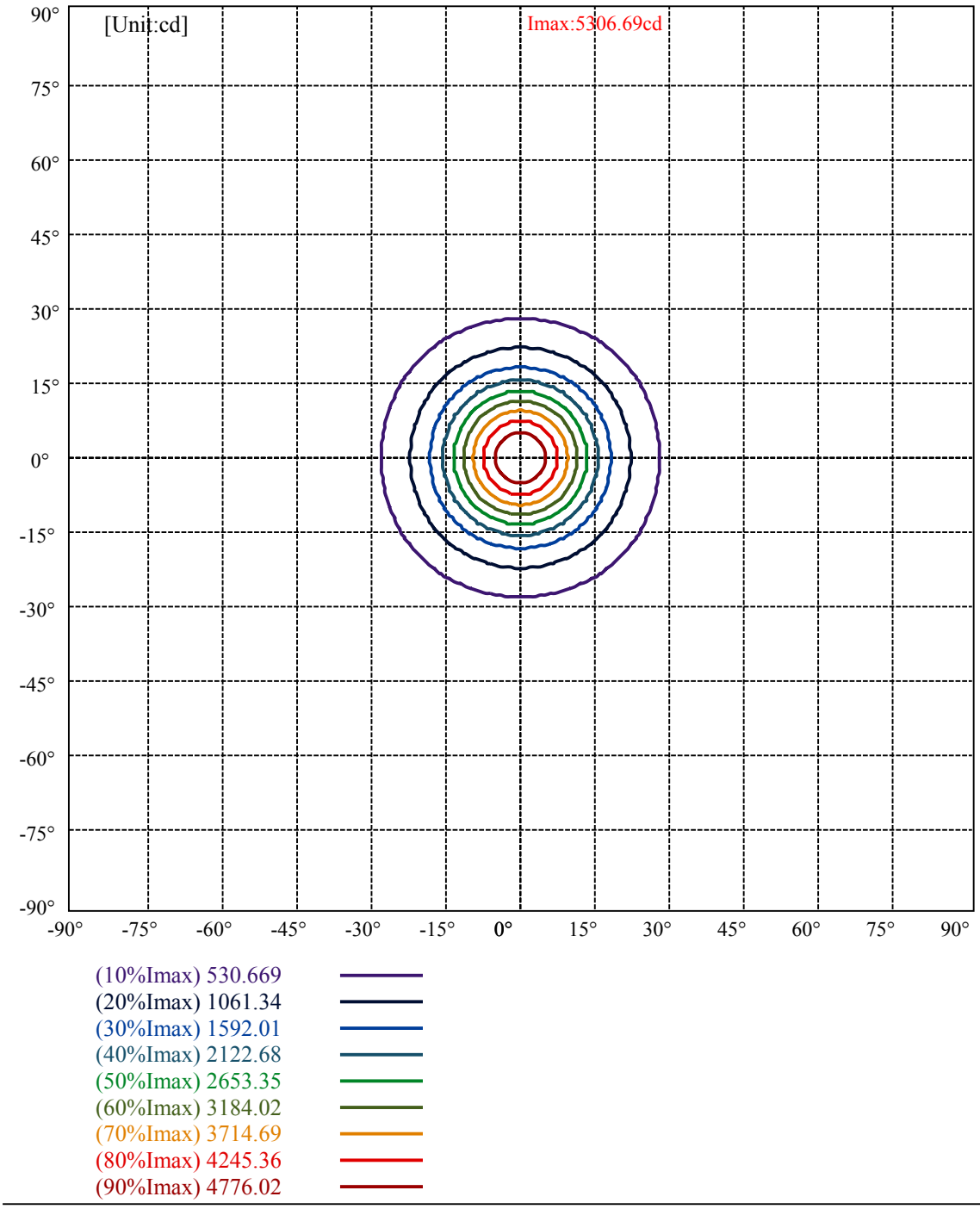
Operator: NT07
Distance(m): 7.44

Lux distance Curve



Equipment: GMS1980 Date: 2023/6/29 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

ISO-Intensity(V-H)

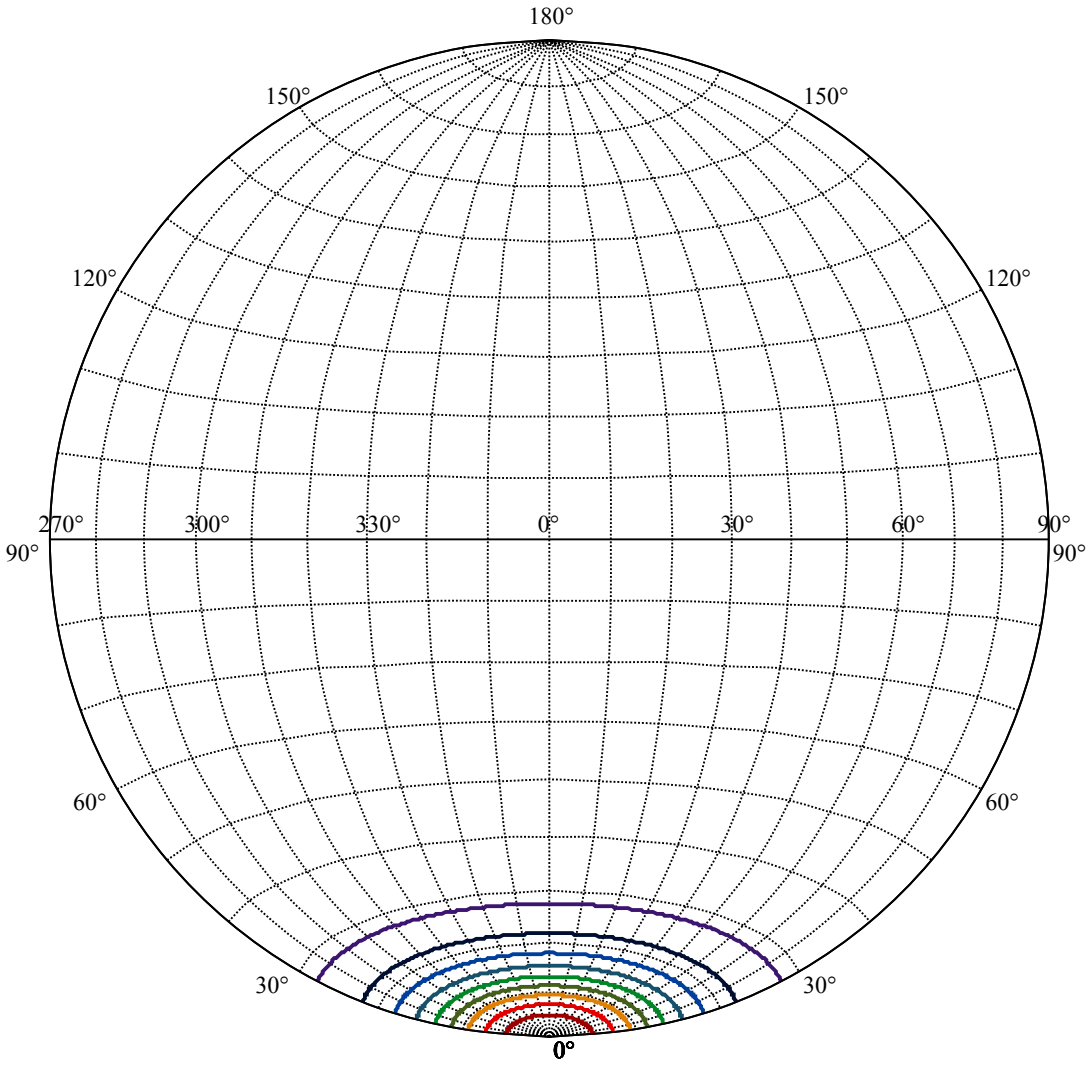


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/6/29
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:5306.69

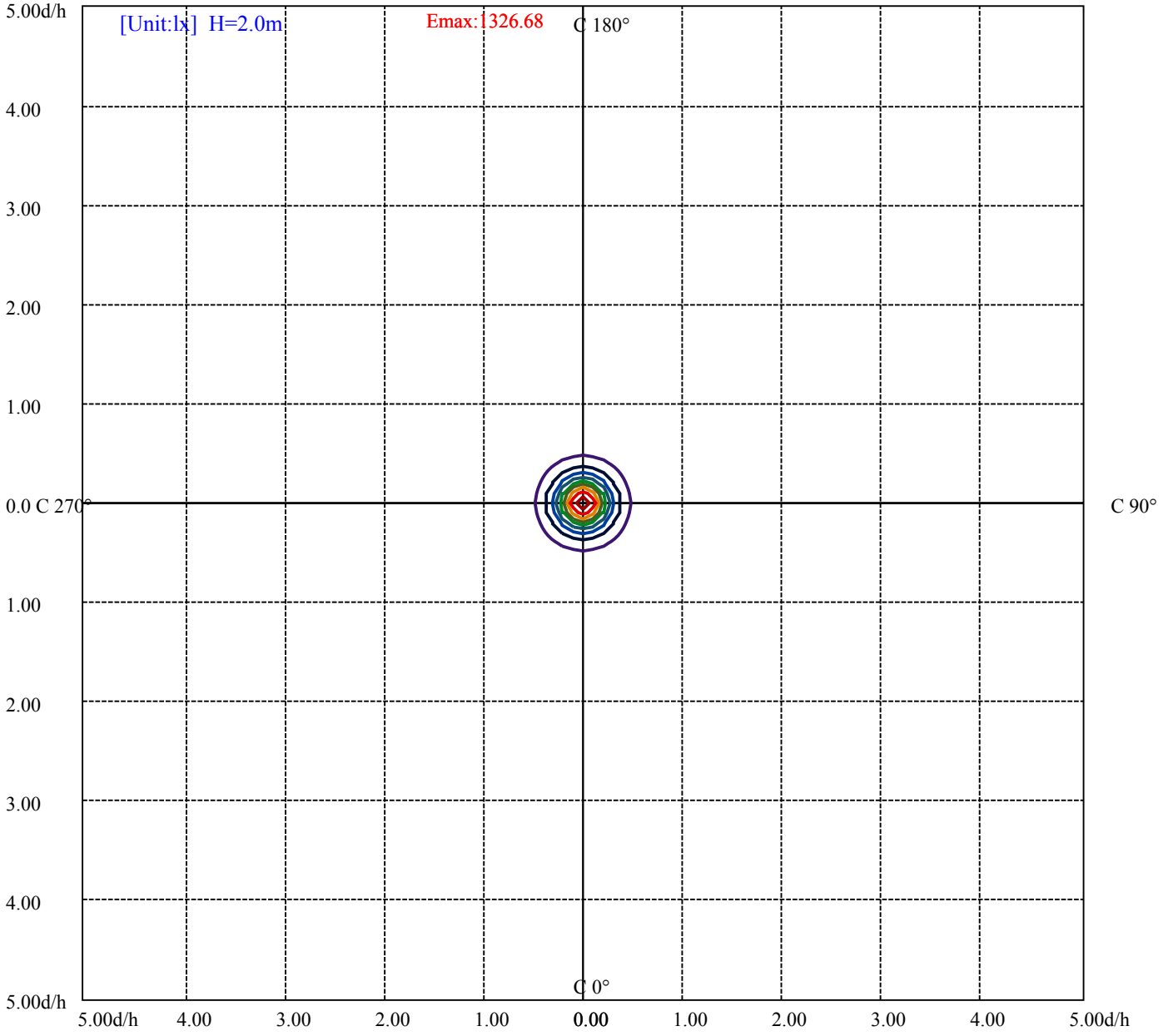
(10%Imax) 530.669
(20%Imax) 1061.34
(30%Imax) 1592.01
(40%Imax) 2122.68
(50%Imax) 2653.35
(60%Imax) 3184.02
(70%Imax) 3714.69
(80%Imax) 4245.36
(90%Imax) 4776.02

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/6/29
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO illuminance diagram

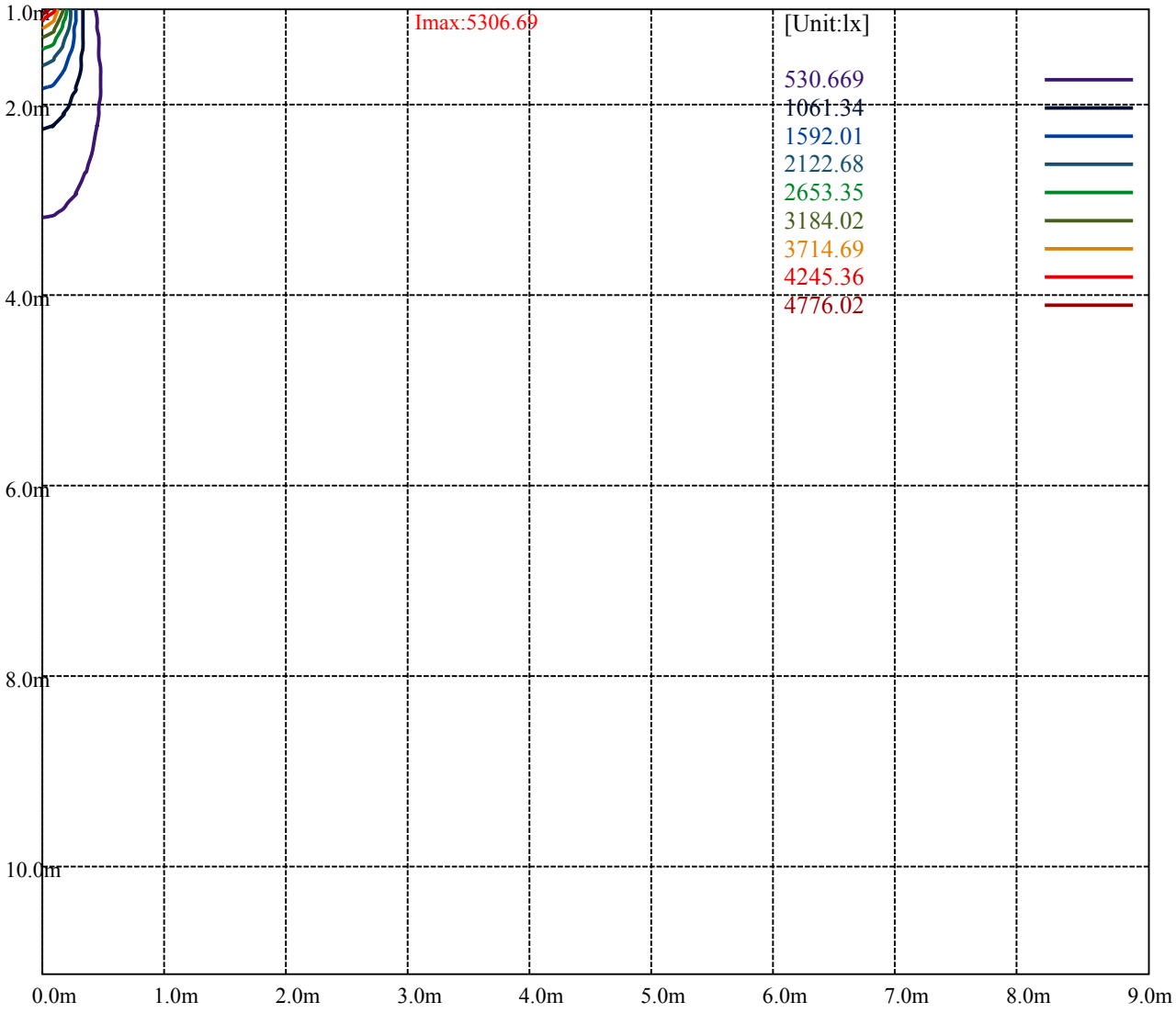


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/6/29
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/6/29
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

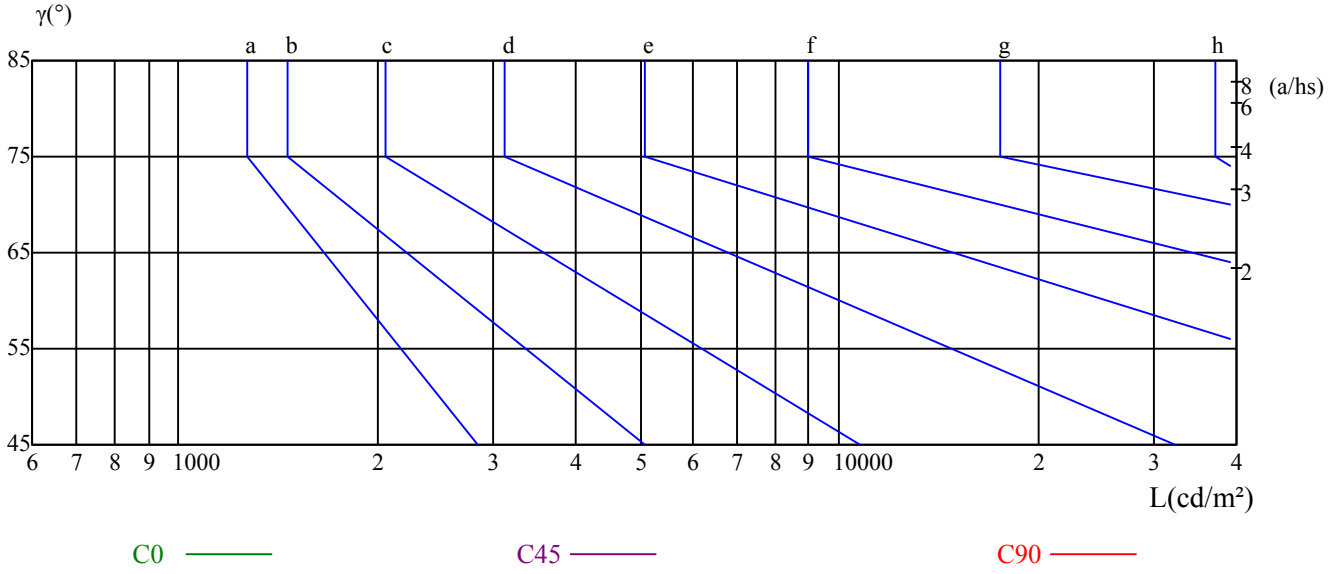
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

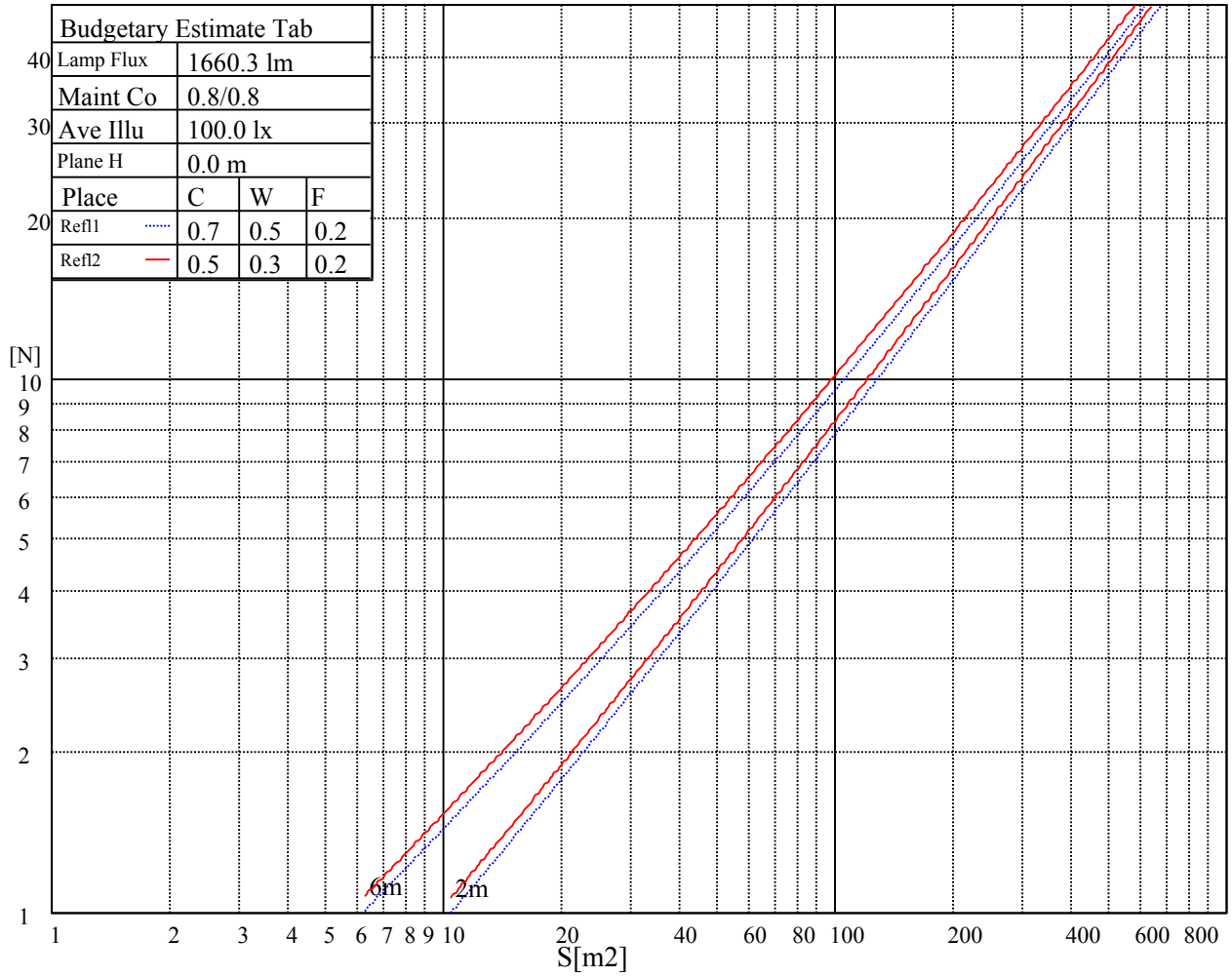


UGR Glare

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

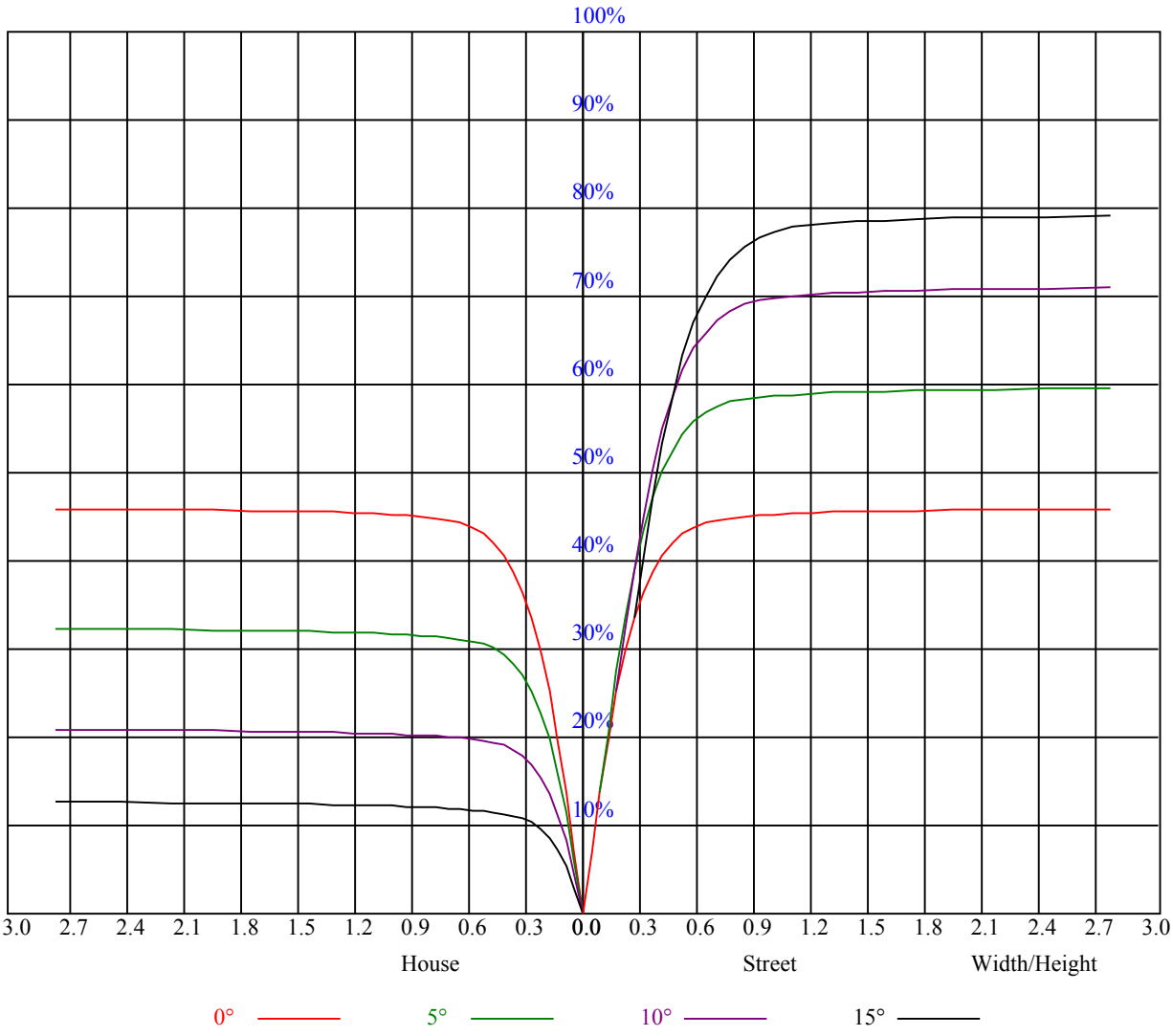


Equipment: GMS1980 Date: 2023/6/29 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.93
1	1.03	1.01	1.00	1.01	1.00	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.90	0.88
2	0.98	0.95	0.92	0.96	0.93	0.91	0.93	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.85	0.84
3	0.93	0.89	0.86	0.92	0.88	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.85	0.83	0.81	0.80
4	0.88	0.84	0.81	0.87	0.84	0.81	0.86	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.77
5	0.85	0.80	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.75	0.74
6	0.81	0.77	0.73	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
7	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
8	0.75	0.71	0.68	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.66
9	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.70	0.67	0.64	0.63
10	0.70	0.66	0.63	0.69	0.65	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.68	0.64	0.62	0.61

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/6/29	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	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	5239.16	5136.76	4955.75	4774.75	4566.06	4286.53	4051.27	3797.76	3478.36
45.0	5327.18	5286.77	5210.93	5100.78	4908.70	4707.21	4494.66	4265.49	3972.67
90.0	5332.71	5287.32	5188.24	5061.48	4890.44	4706.66	4434.88	4205.71	3966.03
135.0	5327.73	5358.73	5338.25	5272.38	5148.38	5005.02	4824.56	4621.42	4350.18
180.0	5239.16	5323.85	5347.10	5323.85	5267.95	5144.51	5010.55	4833.42	4642.45
225.0	5327.18	5318.87	5267.95	5184.92	5029.93	4869.95	4681.20	4408.31	4174.16
270.0	5332.71	5334.92	5292.30	5188.24	5081.41	4934.72	4718.84	4511.82	4219.55
315.0	5327.73	5254.66	5147.83	4979.55	4800.21	4604.26	4323.61	4075.08	3829.31
360.0	5239.16	5136.76	4955.75	4774.75	4566.06	4286.53	4051.27	3797.76	3478.36

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3224.29	2963.58	2710.61	2403.95	2173.68	1968.32	1776.24	1568.67	1423.09
45.0	3729.67	3470.06	3151.78	2897.15	2579.42	2339.19	2115.56	1908.54	1680.48
90.0	3649.41	3385.37	3121.33	2794.19	2544.00	2248.96	2030.87	1828.27	1650.04
135.0	4119.91	3881.34	3617.86	3285.73	3023.91	2762.09	2447.68	2209.11	1990.46
180.0	4373.43	4147.59	3901.82	3570.25	3305.66	3040.52	2720.57	2472.04	2240.10
225.0	3926.73	3610.66	3357.69	3101.41	2783.12	2539.01	2310.40	2093.97	1890.27
270.0	3972.12	3723.03	3460.65	3136.28	2883.31	2628.13	2385.68	2108.92	1909.64
315.0	3509.36	3243.67	2985.72	2738.29	2433.84	2198.59	1987.69	1796.17	1580.29
360.0	3224.29	2963.58	2710.61	2403.95	2173.68	1968.32	1776.24	1568.67	1423.09

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1214.96	1079.06	1054.98	944.61	858.59	769.30	681.18	576.95	496.13
45.0	1523.83	1381.57	1256.47	1121.41	1026.75	936.53	822.50	732.27	642.05
90.0	1488.96	1228.24	1086.26	1086.26	990.94	873.42	779.88	690.48	582.76
135.0	1751.33	1582.50	1430.28	1265.33	1152.96	1053.88	958.12	839.11	743.90
180.0	1969.43	1769.05	1596.90	1443.57	1271.42	1163.48	1063.29	977.49	863.46
225.0	1663.32	1505.56	1362.75	1101.54	1101.54	989.28	902.93	816.41	709.47
270.0	1729.19	1557.04	1369.39	1243.19	1109.23	1015.68	937.08	835.78	747.77
315.0	1426.41	1096.50	1096.50	1048.07	943.28	862.63	782.64	699.67	598.21
360.0	1214.96	1079.06	1054.98	944.61	858.59	769.30	681.18	576.95	496.13

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	419.03	348.78	270.24	214.50	168.16	130.75	101.30	88.51	77.50
45.0	534.66	454.40	381.88	298.30	282.80	282.80	140.87	106.94	91.28
90.0	502.72	408.62	340.04	278.21	206.80	160.30	124.38	102.46	87.62
135.0	653.67	567.87	471.56	399.60	330.96	283.36	283.36	150.56	112.87
180.0	769.91	684.67	579.50	497.02	417.86	332.62	285.02	285.02	148.62
225.0	624.00	540.92	462.98	370.54	302.78	242.01	189.03	136.78	107.99
270.0	666.96	582.82	481.52	406.79	339.26	291.66	291.66	156.15	120.28
315.0	523.04	452.52	382.16	299.57	241.34	187.15	134.23	105.12	84.91
360.0	419.03	348.78	270.24	214.50	168.16	130.75	101.30	88.51	77.50

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	70.41	64.49	57.73	52.92	48.60	44.73	40.30	37.09	34.15
45.0	82.20	74.45	66.54	60.83	55.74	50.26	46.11	42.46	38.36
90.0	79.54	72.29	66.04	59.39	54.47	49.93	45.00	41.46	38.14
135.0	95.65	83.20	74.95	68.03	62.05	55.35	50.65	46.39	42.68
180.0	116.19	96.15	85.08	74.45	67.14	61.00	55.69	49.26	44.89
225.0	89.56	77.27	69.86	63.60	56.57	51.64	47.16	42.23	38.80
270.0	95.37	76.55	67.64	59.34	53.97	49.15	43.62	39.91	36.64
315.0	75.72	68.36	62.38	55.69	50.93	46.50	42.68	38.47	35.43
360.0	70.41	64.49	57.73	52.92	48.60	44.73	40.30	37.09	34.15

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	31.44	28.40	26.29	24.36	22.25	20.76	19.43	18.05	17.10
45.0	35.37	32.60	29.39	27.12	25.08	22.81	21.20	19.76	18.60
90.0	34.32	31.61	28.67	26.51	24.47	22.81	21.26	19.60	18.49
135.0	38.53	35.43	32.71	29.61	27.34	25.30	23.08	21.59	20.20
180.0	41.13	37.03	34.15	31.50	28.51	26.40	24.02	22.36	20.81
225.0	35.70	32.88	29.72	27.40	25.35	23.53	21.48	20.04	18.76
270.0	33.77	30.56	28.17	26.07	24.19	22.09	20.59	19.32	17.82
315.0	32.60	30.11	27.34	25.35	23.14	21.59	20.15	18.54	17.49
360.0	31.44	28.40	26.29	24.36	22.25	20.76	19.43	18.05	17.10

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	16.05	15.33	14.72	14.17	13.62	13.23	12.79	12.34	11.90
45.0	17.27	16.33	15.55	14.95	14.17	13.67	13.12	12.68	12.34
90.0	17.44	16.55	15.55	15.00	14.39	13.73	13.34	12.84	12.45
135.0	18.76	17.71	16.83	16.05	15.22	14.67	14.12	13.67	13.17
180.0	19.54	18.10	17.10	16.27	15.50	14.72	14.23	13.67	13.17
225.0	17.44	16.50	15.50	14.83	14.28	13.67	13.23	12.84	12.51
270.0	16.83	16.00	15.06	14.45	13.78	13.34	12.90	12.57	12.18
315.0	16.55	15.61	15.00	14.39	13.84	13.28	12.95	12.57	12.18
360.0	16.05	15.33	14.72	14.17	13.62	13.23	12.79	12.34	11.90

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.57	11.18	10.90	10.52	10.19	9.80	9.52	9.30	8.97
45.0	11.85	11.51	11.18	10.79	10.46	10.13	9.85	9.58	9.24
90.0	12.07	11.68	11.29	10.90	10.57	10.19	9.85	9.58	9.35
135.0	12.79	12.34	11.90	11.57	11.13	10.79	10.46	10.13	9.74
180.0	12.84	12.45	11.96	11.62	11.35	10.90	10.57	10.30	10.02
225.0	12.07	11.68	11.40	11.07	10.74	10.35	10.07	9.74	9.47
270.0	11.79	11.46	11.18	10.74	10.46	10.19	9.80	9.58	9.35
315.0	11.73	11.40	11.02	10.63	10.30	9.96	9.69	9.41	9.19
360.0	11.57	11.18	10.90	10.52	10.19	9.80	9.52	9.30	8.97

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.75	8.52	8.30	8.08	7.92	7.69	7.58	7.42	7.25
45.0	8.97	8.75	8.47	8.30	8.14	7.86	7.69	7.53	7.36
90.0	9.02	8.80	8.58	8.30	8.14	7.92	7.69	7.53	7.36
135.0	9.47	9.24	8.97	8.69	8.47	8.25	8.03	7.80	7.64
180.0	9.63	9.41	9.13	8.91	8.64	8.41	8.19	7.97	7.80
225.0	9.24	8.97	8.75	8.52	8.25	8.08	7.86	7.75	7.53
270.0	9.02	8.80	8.58	8.30	8.14	7.97	7.75	7.58	7.42
315.0	8.91	8.69	8.47	8.25	8.03	7.86	7.69	7.53	7.36
360.0	8.75	8.52	8.30	8.08	7.92	7.69	7.58	7.42	7.25

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.14	7.03	6.86	6.81	6.64	6.59	6.53	6.48	6.53
45.0	7.25	7.09	6.92	6.86	6.75	6.64	6.59	6.53	6.42
90.0	7.20	7.09	6.97	6.81	6.70	6.64	6.53	6.64	6.42
135.0	7.42	7.31	7.20	7.03	6.86	6.75	6.70	6.59	6.53
180.0	7.58	7.47	7.25	7.20	7.03	6.92	6.81	6.75	6.64
225.0	7.42	7.25	7.14	6.97	6.86	6.75	6.70	6.59	6.48
270.0	7.31	7.14	7.03	6.92	6.75	6.70	6.59	6.48	6.48
315.0	7.25	7.09	7.03	6.86	6.75	6.64	6.59	6.48	6.42
360.0	7.14	7.03	6.86	6.81	6.64	6.59	6.53	6.48	6.53

Intensity data(cd)

C/γ(°)	90.0
0.0	6.48
45.0	6.48
90.0	6.53
135.0	6.48
180.0	6.53
225.0	6.48
270.0	6.37
315.0	6.42
360.0	6.48