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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NATA

LumCAT: 2-1738-M
Luminaire: 92.70.136.00
Report No: NATA0100
Test No: GC2019021911
LampCAT: BRIDGELUX V22B
Lamp flux(lm): 6644.0
Number of Lamps: 1
Length(mm): 71
Phm Type: C

Voltage(V): 50.5000
Current(A): 0.9000
Power (W): 45.4500
PF: 0.0000
Ballast type: DC
Width(mm): 71
Height(mm): 0

Photometric Results

Lumens(lm): 5791.43
Efficiency(%): 87.17%
Lumens(lm)/Power(W): 127.51
Central intensity(cd): 17732.810
Maximum intensity(cd): 17732.810
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.7
[C90/270]Total=25.7
Field angle(10%Imax): [C0/180]Total=64.9
[C90/270]Total=64.9
Maximum s/h(1/2): C0_180=0.44 C90_270=0.44
Maximum s/h(1/4): C0_180=0.44 C90_270=0.44
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 87.23%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.662%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	17732.813	4.242	4.242	.064%	.073%
1.0	17727.188	33.927	38.17	.511%	.659%
2.0	17700.469	67.742	105.911	1.020%	1.829%
3.0	17629.453	101.179	207.09	1.523%	3.576%
4.0	17496.563	133.841	340.931	2.014%	5.887%
5.0	17223.047	164.611	505.542	2.478%	8.729%
6.0	16736.484	191.845	697.387	2.887%	12.042%
7.0	16017.891	214.068	911.455	3.222%	15.738%
8.0	15077.813	230.115	1141.57	3.464%	19.711%
9.0	13903.594	238.513	1380.082	3.590%	23.830%
10.0	12360.516	235.374	1615.457	3.543%	27.894%
11.0	11199.586	234.343	1849.8	3.527%	31.940%
12.0	9930.375	226.410	2076.21	3.408%	35.850%
13.0	8679.094	214.099	2290.309	3.222%	39.547%
14.0	7587.492	201.291	2491.6	3.030%	43.022%
15.0	6700.078	190.164	2681.764	2.862%	46.306%
16.0	5949.984	179.848	2861.612	2.707%	49.411%
17.0	5353.945	171.657	3033.269	2.584%	52.375%
18.0	4810.148	163.002	3196.271	2.453%	55.190%
19.0	4387.289	156.635	3352.906	2.358%	57.894%
20.0	3984.539	149.445	3502.351	2.249%	60.475%
21.0	3638.320	142.982	3645.333	2.152%	62.944%
22.0	3373.805	138.595	3783.928	2.086%	65.337%
23.0	3133.758	134.275	3918.203	2.021%	67.655%
24.0	2927.180	130.561	4048.764	1.965%	69.910%
25.0	2774.039	128.562	4177.326	1.935%	72.129%
26.0	2654.859	127.625	4304.951	1.921%	74.333%
27.0	2496.797	124.303	4429.254	1.871%	76.479%
28.0	2391.469	123.119	4552.373	1.853%	78.605%
29.0	2273.906	120.891	4673.265	1.820%	80.693%
30.0	2139.750	117.323	4790.588	1.766%	82.719%
31.0	2003.203	113.140	4903.728	1.703%	84.672%
32.0	1841.766	107.028	5010.756	1.611%	86.520%
33.0	1686.305	100.716	5111.471	1.516%	88.259%
34.0	1535.203	94.141	5205.613	1.417%	89.885%
35.0	1360.399	85.568	5291.18	1.288%	91.362%
36.0	1181.580	76.161	5367.341	1.146%	92.677%
37.0	1057.345	69.780	5437.121	1.050%	93.882%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	890.037	60.090	5497.211	.904%	94.920%
39.0	732.009	50.517	5547.729	.760%	95.792%
40.0	594.148	41.881	5589.609	.630%	96.515%
41.0	456.391	32.835	5622.444	.494%	97.082%
42.0	332.606	24.406	5646.85	.367%	97.504%
43.0	221.245	16.547	5663.396	.249%	97.789%
44.0	142.777	10.876	5674.273	.164%	97.977%
45.0	76.542	5.935	5680.208	.089%	98.080%
46.0	53.888	4.251	5684.459	.064%	98.153%
47.0	43.664	3.502	5687.961	.053%	98.213%
48.0	35.895	2.925	5690.886	.044%	98.264%
49.0	29.763	2.463	5693.349	.037%	98.306%
50.0	26.944	2.263	5695.612	.034%	98.346%
51.0	26.065	2.221	5697.834	.033%	98.384%
52.0	25.622	2.214	5700.048	.033%	98.422%
53.0	25.263	2.213	5702.26	.033%	98.460%
54.0	24.975	2.216	5704.476	.033%	98.499%
55.0	24.715	2.220	5706.696	.033%	98.537%
56.0	24.455	2.223	5708.919	.033%	98.575%
57.0	24.258	2.231	5711.15	.034%	98.614%
58.0	24.047	2.236	5713.387	.034%	98.652%
59.0	23.892	2.246	5715.633	.034%	98.691%
60.0	23.709	2.252	5717.884	.034%	98.730%
61.0	23.576	2.261	5720.145	.034%	98.769%
62.0	23.463	2.272	5722.417	.034%	98.808%
63.0	23.393	2.286	5724.703	.034%	98.848%
64.0	23.309	2.297	5727	.035%	98.888%
65.0	23.245	2.310	5729.311	.035%	98.927%
66.0	23.189	2.323	5731.634	.035%	98.968%
67.0	23.175	2.339	5733.973	.035%	99.008%
68.0	23.133	2.352	5736.325	.035%	99.049%
69.0	23.126	2.368	5738.693	.036%	99.089%
70.0	23.168	2.387	5741.08	.036%	99.131%
71.0	23.217	2.407	5743.487	.036%	99.172%
72.0	23.365	2.437	5745.924	.037%	99.214%
73.0	23.484	2.463	5748.387	.037%	99.257%
74.0	23.653	2.493	5750.88	.038%	99.300%
75.0	23.822	2.523	5753.404	.038%	99.343%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	23.977	2.551	5755.955	.038%	99.387%
77.0	24.131	2.578	5758.533	.039%	99.432%
78.0	24.223	2.598	5761.131	.039%	99.477%
79.0	24.237	2.609	5763.74	.039%	99.522%
80.0	24.188	2.612	5766.353	.039%	99.567%
81.0	24.040	2.604	5768.956	.039%	99.612%
82.0	23.885	2.594	5771.55	.039%	99.657%
83.0	23.899	2.601	5774.151	.039%	99.702%
84.0	24.131	2.632	5776.783	.040%	99.747%
85.0	24.413	2.667	5779.45	.040%	99.793%
86.0	24.687	2.701	5782.151	.041%	99.840%
87.0	24.855	2.722	5784.873	.041%	99.887%
88.0	25.151	2.756	5787.629	.041%	99.934%
89.0	23.527	2.580	5790.208	.039%	99.979%
90.0	22.268	1.221	5791.429	.018%	100.000%

Zonal flux distribution table

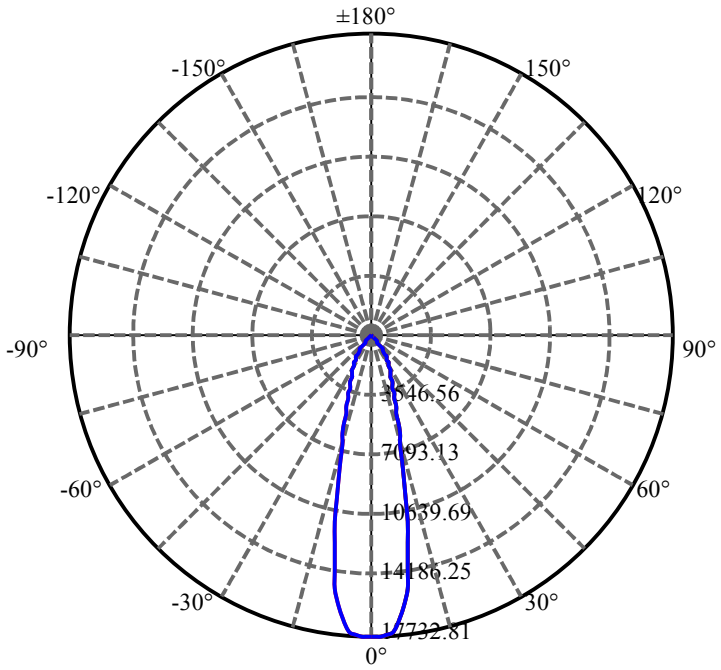
ZONAL LUMEN SUMMARY

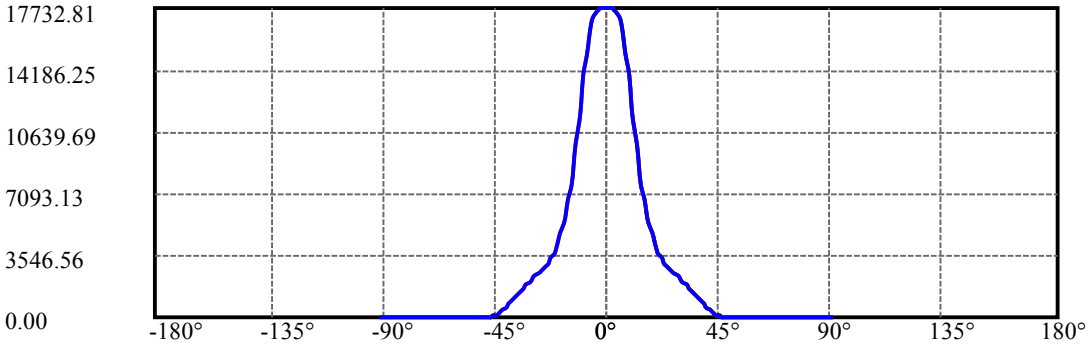
Zone	Lumens	%Lamp	%Fixt
0-30	4790.59	72.10%	82.72%
0-40	5589.61	84.13%	96.52%
0-60	5717.88	86.06%	98.73%
0-90	5790.21	87.15%	99.98%
0-120	5790.21	87.15%	99.98%
0-180	5791.43	87.17%	100.00%
60-90	74.58	1.12%	1.29%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.67	4633.14	69.73%	80.00%

ZONAL LUMEN SUMMARY

0-10	1615.46
10-20	1886.89
20-30	1288.24
30-40	799.02
40-50	106.00
50-60	22.27
60-70	23.20
70-80	25.27
80-90	23.86
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):

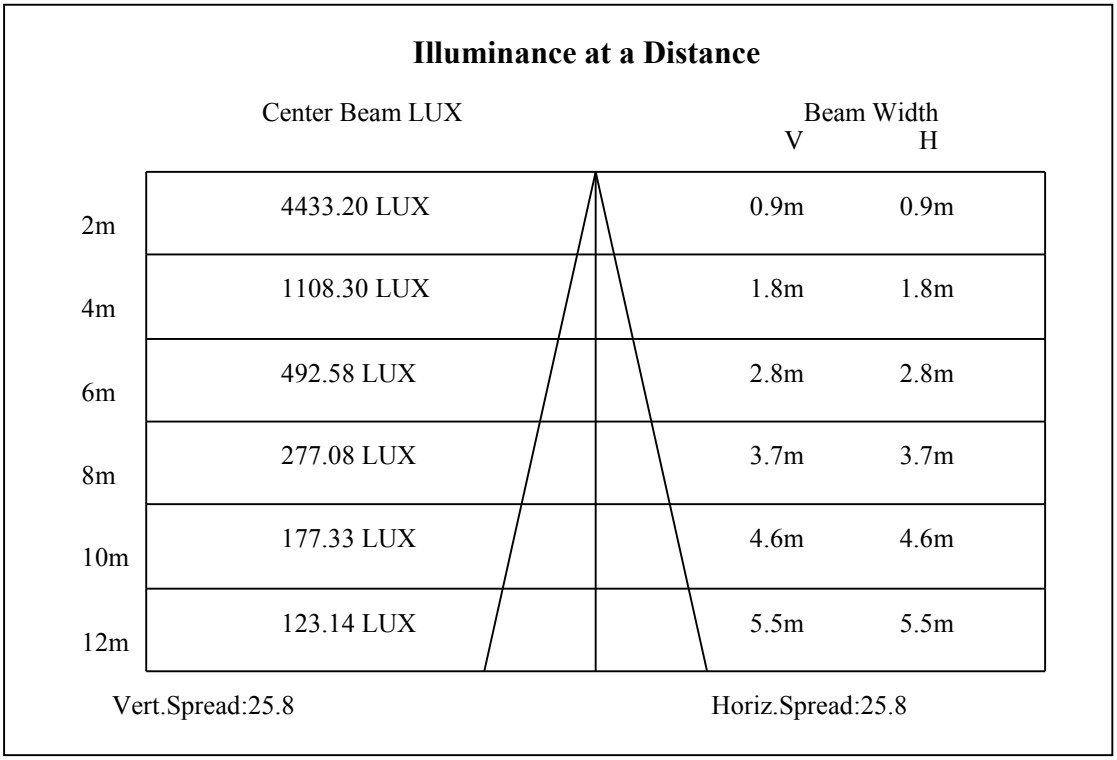
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:32.4 Right:32.4
:C90/270Left:32.4 Right:32.4

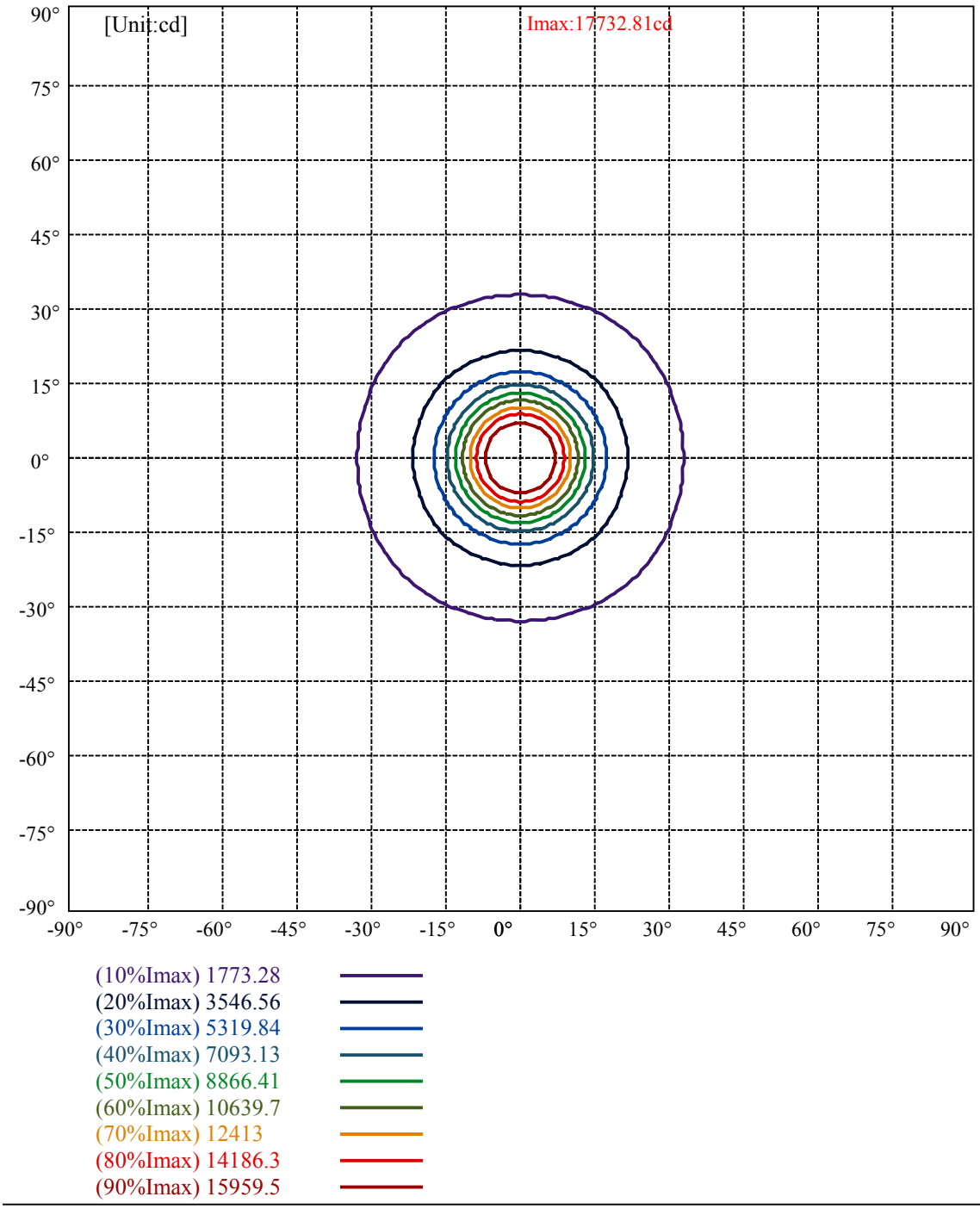
Beam Angle(50%Imax):C0/180Left:12.9 Right:12.9
:C90/270Left:12.9 Right:12.9

Lux distance Curve



Equipment: GMS1980 Date: 2019/2/19 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

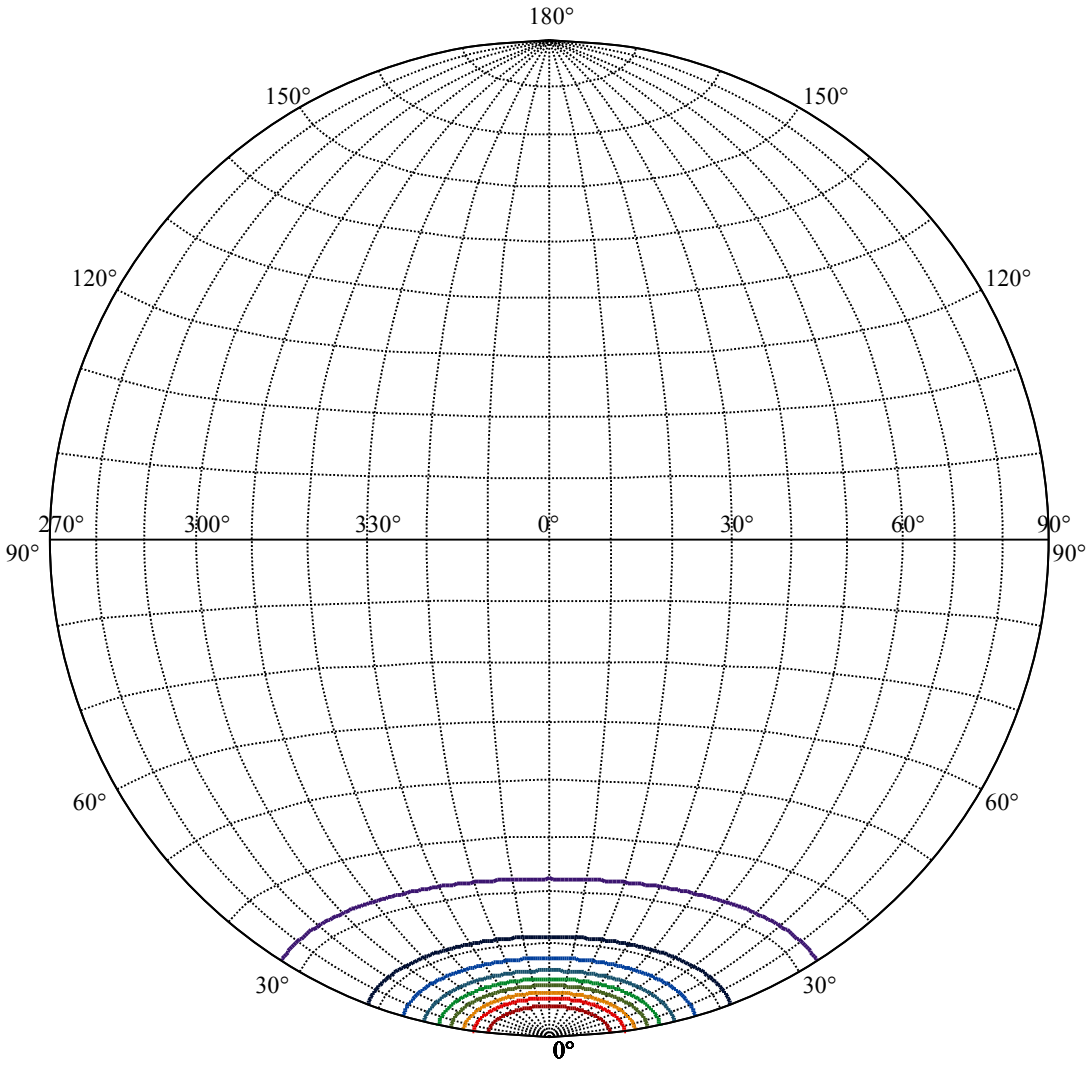


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/19
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:17732.81

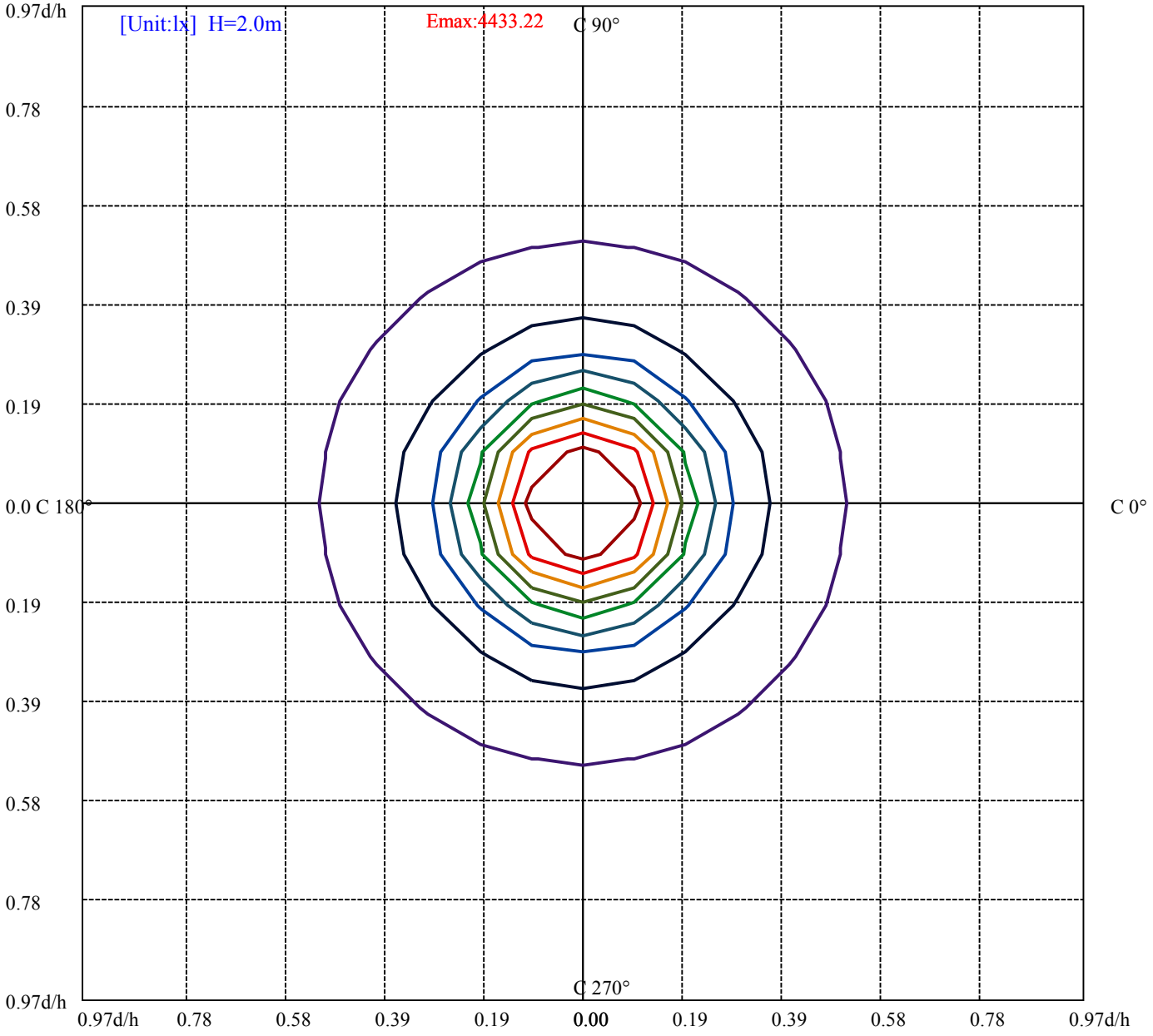
(10%Imax) 1773.28
(20%Imax) 3546.56
(30%Imax) 5319.84
(40%Imax) 7093.13
(50%Imax) 8866.41
(60%Imax) 10639.7
(70%Imax) 12413
(80%Imax) 14186.3
(90%Imax) 15959.5

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/19
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO illuminance diagram

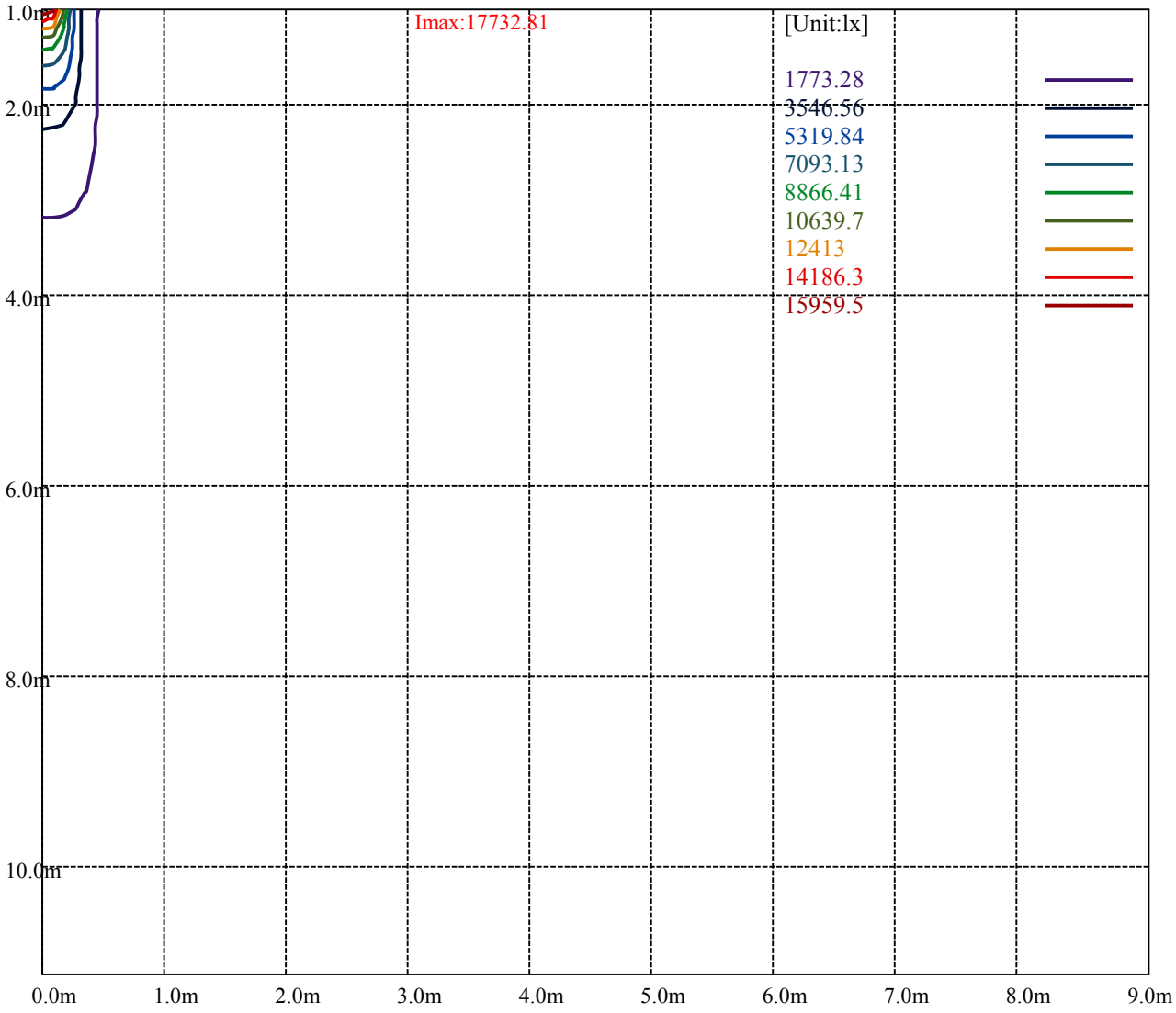


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/19
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/2/19
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

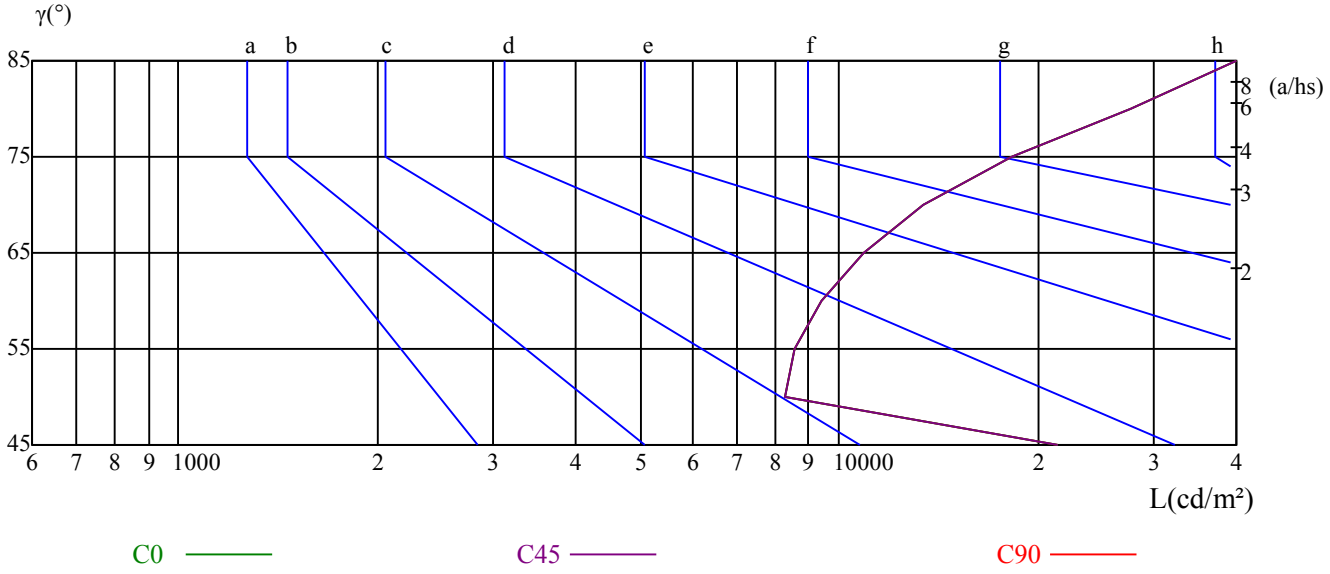
γ	45	50	55	60	65	70	75	80	85
C0	21473	8315	8548	9407	10911	13438	18258	27631	55565
C45	21473	8315	8548	9407	10911	13438	18258	27631	55565
C90	21473	8315	8548	9407	10911	13438	18258	27631	55565

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
10911	10911	10911	18258	18258	18258	55565	55565	55565

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

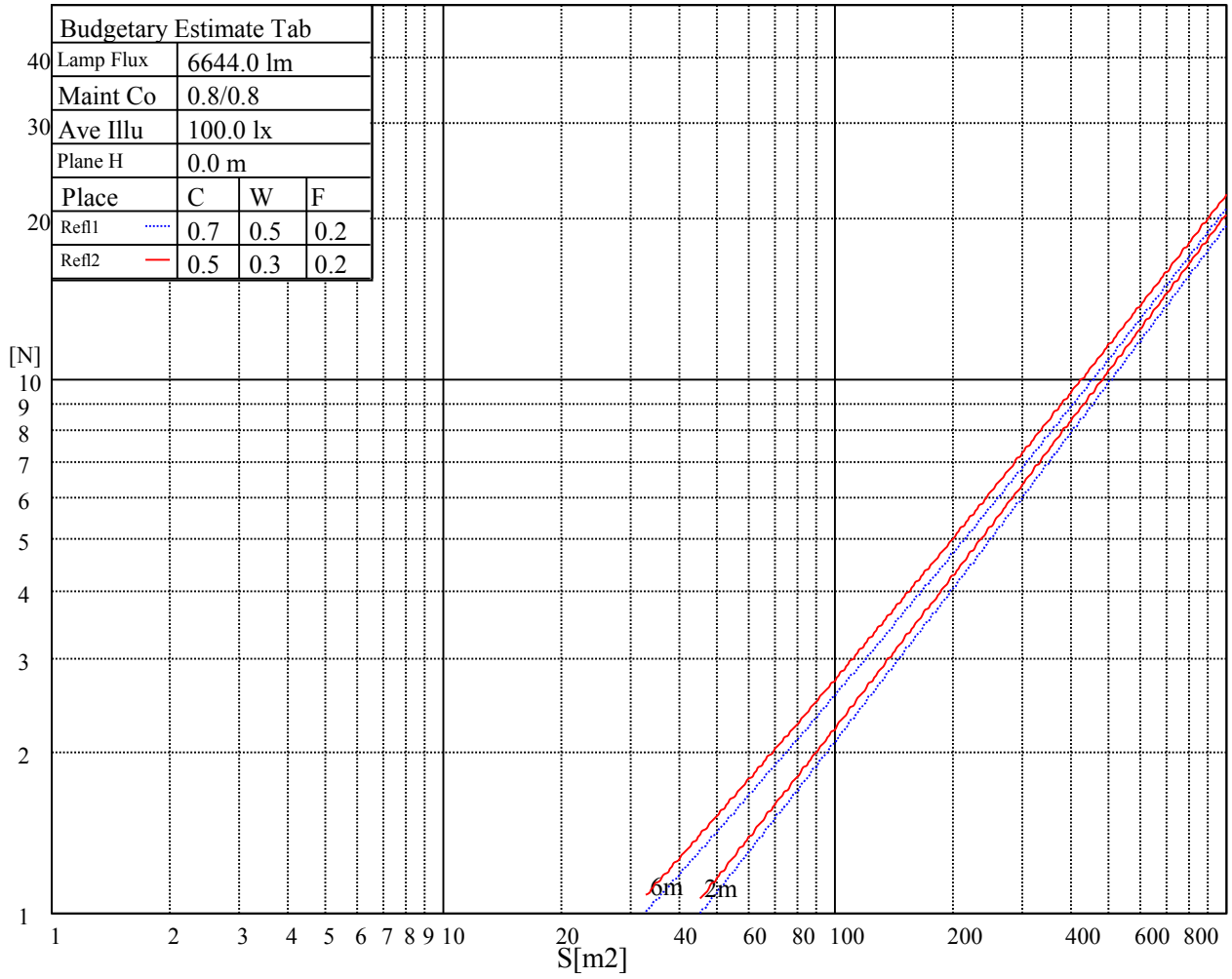


UGR Glare

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	1.84	2.75	2.20	3.06	3.38	1.85	2.76	2.21	3.08	3.39
	3H	5.14	5.95	5.52	6.28	6.65	5.25	6.06	5.63	6.39	6.76
	4H	6.95	7.70	7.36	8.05	8.45	7.25	8.00	7.66	8.36	8.75
	6H	9.02	9.70	9.44	10.08	10.48	9.48	10.17	9.90	10.54	10.94
	8H	10.18	10.82	10.62	11.21	11.62	10.68	11.33	11.12	11.72	12.13
	12H	12.05	12.66	12.48	13.05	13.48	12.57	13.19	13.01	13.57	14.00
4H	2H	2.77	3.52	3.18	3.87	4.26	2.78	3.53	3.18	3.88	4.27
	3H	6.31	6.92	6.73	7.33	7.74	6.41	7.02	6.83	7.43	7.84
	4H	8.30	8.85	8.74	9.27	9.72	8.58	9.12	9.01	9.55	10.00
	6H	10.51	10.98	10.98	11.43	11.90	10.88	11.35	11.35	11.80	12.28
	8H	11.77	12.21	12.25	12.66	13.14	12.20	12.64	12.68	13.09	13.56
	12H	13.53	13.91	14.03	14.40	14.88	14.00	14.37	14.49	14.86	15.34
8H	4H	9.10	9.54	9.58	9.99	10.47	9.31	9.75	9.79	10.20	10.68
	6H	11.59	11.93	12.10	12.44	12.93	11.89	12.24	12.40	12.74	13.23
	8H	13.04	13.34	13.57	13.86	14.36	13.39	13.70	13.92	14.22	14.72
	12H	14.90	15.17	15.43	15.67	16.25	15.30	15.56	15.82	16.06	16.64
12H	4H	9.35	9.73	9.84	10.22	10.69	9.53	9.90	10.02	10.39	10.87
	6H	12.15	12.25	12.49	12.73	13.28	12.41	12.52	12.75	12.99	13.54
	8H	13.52	13.79	14.05	14.29	14.87	13.83	14.10	14.36	14.59	15.18

Variation with the observer position at spacings:		
S = 1.0H	5.1/-8.2	5.1/-8.2
S = 1.5H	7.3/-6.1	7.3/-6.1
S = 2.0H	8.7/-4.5	8.7/-4.5
Standard tables:	BK2	BK2
Uncorrected UGR	4.8	4.8

Budgetary Estimate Table

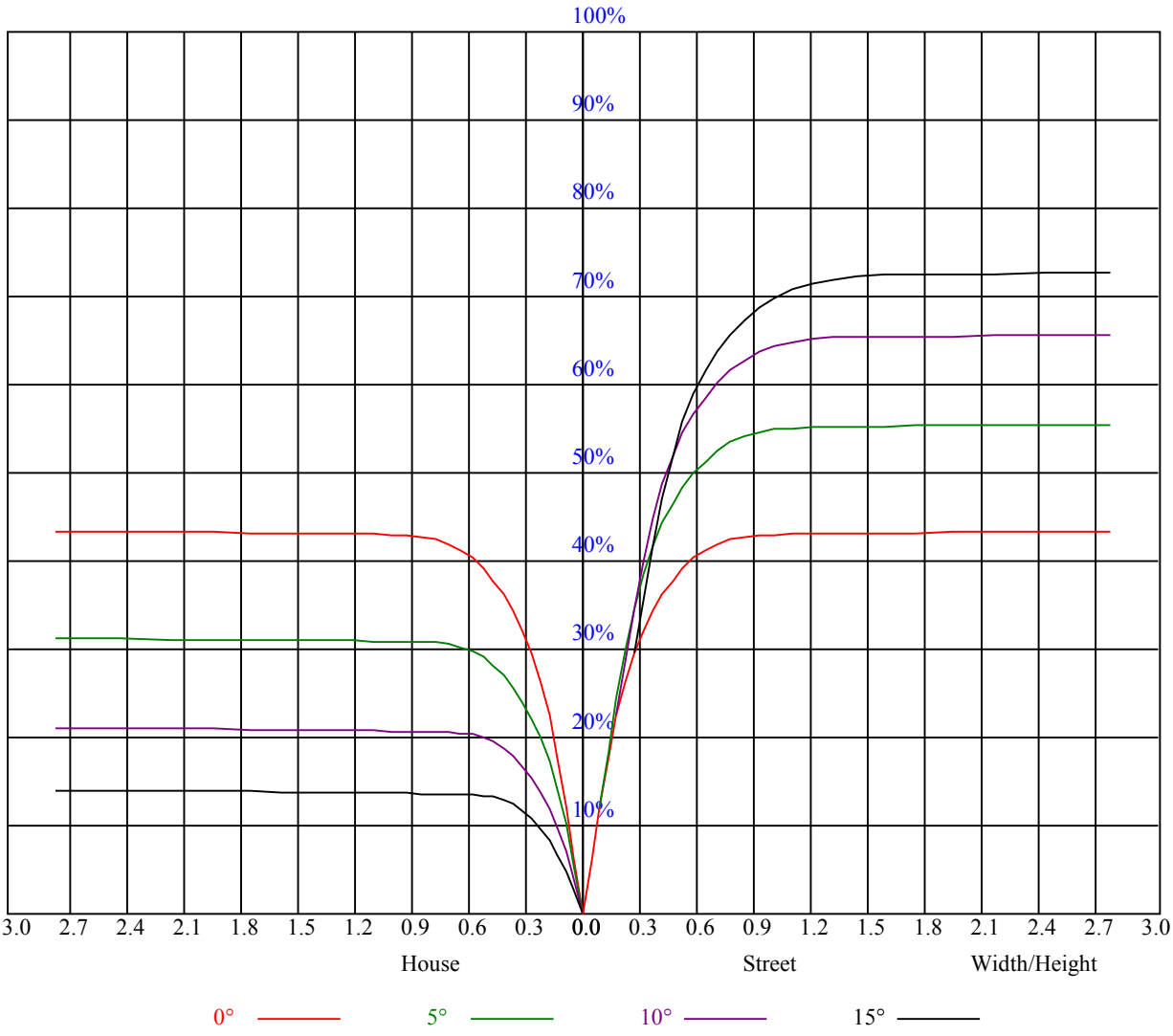


Equipment: GMS1980 Date: 2019/2/19 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.04	1.04	1.04	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.87
1	0.97	0.95	0.94	0.95	0.94	0.92	0.92	0.91	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83
2	0.92	0.89	0.86	0.90	0.88	0.85	0.88	0.85	0.83	0.85	0.83	0.82	0.83	0.81	0.80	0.79
3	0.87	0.83	0.80	0.86	0.82	0.80	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
4	0.83	0.79	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.73	0.77	0.74	0.72	0.71
5	0.79	0.74	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
6	0.75	0.71	0.68	0.75	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.65
7	0.72	0.68	0.65	0.72	0.67	0.65	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63
8	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.60
9	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.58
10	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.56

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/2/19	Operator: NT07
Temperature(°C): 10.0	Humidity(%): 65.0%	Distance(m): 7.50

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	17724.38	17713.13	17685.00	17645.63	17589.38	17403.75	17066.25	16633.13	15733.13
45.0	17741.25	17718.75	17690.63	17628.75	17493.75	17218.13	16796.25	16070.63	15226.88
90.0	17735.63	17718.75	17668.13	17521.88	17291.25	16903.13	16216.88	15271.88	14253.75
135.0	17730.00	17730.00	17701.88	17623.13	17465.63	17088.75	16560.00	15795.00	14709.38
180.0	17724.38	17730.00	17685.00	17595.00	17409.38	17088.75	16385.63	15547.50	14366.25
225.0	17741.25	17746.88	17735.63	17656.88	17521.88	17246.25	16728.75	15924.38	14985.00
270.0	17735.63	17741.25	17735.63	17707.50	17640.00	17454.38	17139.38	16537.50	15789.38
315.0	17730.00	17718.75	17701.88	17656.88	17561.25	17381.25	16998.75	16363.13	15558.75
360.0	17724.38	17713.13	17685.00	17645.63	17589.38	17403.75	17066.25	16633.13	15733.13

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	14670.00	13719.38	12211.88	10946.25	9703.13	8302.50	7351.88	6547.50	5743.13
45.0	14101.88	12796.88	11548.13	10316.25	8853.75	7835.63	6975.00	6069.38	5506.88
90.0	12943.13	11214.56	10290.94	8986.50	7950.38	6969.94	6163.31	5553.00	5030.44
135.0	13443.75	12189.38	10732.50	9315.00	8178.75	7110.00	6350.63	5551.88	5045.63
180.0	13156.88	11173.50	10352.25	8949.38	7725.94	6836.63	6030.56	5441.06	4875.19
225.0	13725.00	11150.44	10985.06	9535.50	8384.06	7307.44	6337.69	5769.00	5217.19
270.0	14743.13	13488.75	12256.88	10980.00	9433.13	8319.38	7363.13	6373.13	5731.88
315.0	14445.00	13151.25	11219.06	10414.13	9203.63	8018.44	7028.44	6294.94	5681.25
360.0	14670.00	13719.38	12211.88	10946.25	9703.13	8302.50	7351.88	6547.50	5743.13

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	5220.00	4747.50	4246.88	3898.13	3605.63	3330.00	3093.75	2913.75	2851.88
45.0	4983.75	4494.38	4061.25	3751.88	3436.88	3178.13	2986.88	2846.25	2678.06
90.0	4465.13	4085.44	3759.75	3423.94	3201.19	3010.50	2809.69	2672.44	2554.31
135.0	4590.00	4246.88	3796.88	3510.00	3268.13	3009.38	2840.63	2761.88	2561.06
180.0	4398.75	4035.94	3723.19	3389.63	3163.50	2968.88	2764.13	2623.50	2504.81
225.0	4588.88	4244.63	3897.00	3495.94	3279.94	3061.69	2855.81	2692.13	2565.00
270.0	5197.50	4663.13	4213.13	3875.63	3555.00	3273.75	3060.00	2863.13	2846.25
315.0	5037.19	4580.44	4178.25	3761.44	3480.19	3237.75	3006.56	2819.25	2677.50
360.0	5220.00	4747.50	4246.88	3898.13	3605.63	3330.00	3093.75	2913.75	2851.88

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	2609.44	2483.44	2375.44	2267.44	2127.38	1973.81	1829.25	1683.56	1492.31
45.0	2545.31	2443.50	2334.38	2211.75	2071.69	1908.00	1767.94	1590.19	1442.25
90.0	2427.19	2342.25	2208.94	2043.56	1923.75	1765.13	1586.81	1458.56	1312.88
135.0	2441.81	2344.50	2223.56	2088.00	1932.75	1770.75	1624.50	1458.00	1296.00
180.0	2391.19	2269.69	2148.19	1999.69	1860.19	1694.81	1525.50	1373.63	1112.01
225.0	2441.25	2342.25	2214.00	2069.44	1933.88	1776.38	1616.06	1469.81	1319.06
270.0	2578.50	2484.00	2362.50	2246.63	2116.13	1941.75	1799.44	1654.88	1469.25
315.0	2539.69	2422.13	2324.25	2191.50	2059.88	1903.50	1740.94	1593.00	1439.44
360.0	2609.44	2483.44	2375.44	2267.44	2127.38	1973.81	1829.25	1683.56	1492.31

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	1337.63	1185.19	1015.31	849.38	705.38	552.94	408.38	290.25	228.21
45.0	1287.56	1159.31	946.69	802.69	680.06	511.31	373.50	291.38	164.70
90.0	1103.91	976.50	833.01	659.14	525.94	402.13	289.07	168.86	95.91
135.0	1137.38	989.44	798.75	659.25	527.63	387.00	289.69	166.73	90.34
180.0	1038.60	895.44	753.92	581.40	449.27	328.33	200.81	123.47	72.62
225.0	1111.05	984.04	838.35	696.99	532.63	410.79	298.01	177.86	104.57
270.0	1320.19	1171.13	986.63	842.63	702.56	556.88	420.19	306.56	230.96
315.0	1116.34	1097.72	947.64	764.61	629.72	501.75	381.21	244.86	154.91
360.0	1337.63	1185.19	1015.31	849.38	705.38	552.94	408.38	290.25	228.21

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	108.90	62.78	51.19	41.46	33.13	27.62	26.66	26.21	25.76
45.0	84.21	57.88	48.83	39.43	33.13	27.62	26.72	26.27	25.82
90.0	57.60	48.38	38.53	33.24	27.23	26.55	26.16	25.76	25.43
135.0	57.32	50.01	40.39	34.99	28.97	26.61	25.99	25.65	25.31
180.0	52.59	45.17	37.46	30.43	26.10	25.59	25.20	24.98	24.75
225.0	62.16	49.56	38.53	31.50	27.11	25.65	25.31	24.98	24.69
270.0	106.09	62.33	49.89	40.89	32.91	29.42	26.44	25.54	25.09
315.0	83.48	55.01	44.49	35.21	29.53	26.49	26.04	25.59	25.26
360.0	108.90	62.78	51.19	41.46	33.13	27.62	26.66	26.21	25.76

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.43	25.14	24.86	24.58	24.30	24.13	23.85	23.74	23.57
45.0	25.54	25.26	24.92	24.69	24.41	24.13	23.91	23.74	23.57
90.0	25.14	24.81	24.58	24.41	24.13	23.96	23.79	23.63	23.51
135.0	25.03	24.81	24.47	24.24	24.08	23.91	23.79	23.63	23.51
180.0	24.47	24.30	24.13	23.96	23.85	23.79	23.63	23.57	23.51
225.0	24.41	24.19	24.02	23.85	23.68	23.57	23.46	23.34	23.29
270.0	24.81	24.53	24.24	24.08	23.91	23.79	23.63	23.51	23.40
315.0	24.98	24.69	24.41	24.24	24.02	23.85	23.63	23.46	23.34
360.0	25.43	25.14	24.86	24.58	24.30	24.13	23.85	23.74	23.57

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	23.46	23.40	23.29	23.23	23.18	23.06	22.95	22.95	22.89
45.0	23.46	23.29	23.18	23.06	23.01	22.95	22.84	22.78	22.73
90.0	23.40	23.29	23.18	23.06	23.01	22.95	22.89	22.84	22.84
135.0	23.46	23.34	23.29	23.23	23.23	23.18	23.06	23.01	22.95
180.0	23.51	23.51	23.51	23.51	23.57	23.57	23.96	24.58	25.14
225.0	23.23	23.23	23.23	23.23	23.23	23.29	23.34	23.40	23.46
270.0	23.34	23.23	23.18	23.18	23.18	23.12	23.06	22.95	22.89
315.0	23.29	23.18	23.12	23.01	23.01	22.95	22.89	22.84	22.84
360.0	23.46	23.40	23.29	23.23	23.18	23.06	22.95	22.95	22.89

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	22.89	22.84	22.84	22.78	22.78	22.78	22.78	22.78	22.78
45.0	22.73	22.67	22.61	22.61	22.56	22.56	22.56	22.50	22.50
90.0	22.84	22.78	22.78	22.78	22.78	22.84	22.84	22.89	23.01
135.0	23.06	23.23	23.40	23.74	23.85	24.02	24.02	24.02	23.79
180.0	26.04	26.61	27.39	27.90	28.35	28.74	28.86	28.86	28.63
225.0	23.68	24.19	24.64	25.14	25.88	26.38	26.83	26.89	26.72
270.0	22.89	22.84	22.84	22.89	22.89	23.01	23.18	23.23	23.34
315.0	22.78	22.73	22.73	22.73	22.73	22.73	22.73	22.73	22.73
360.0	22.89	22.84	22.84	22.78	22.78	22.78	22.78	22.78	22.78

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	22.84	22.89	22.95	23.01	23.01	23.01	22.95	23.12	23.46
45.0	22.50	22.56	22.56	22.67	22.73	22.78	22.84	23.23	23.57
90.0	23.01	23.12	23.18	23.18	23.29	23.46	23.74	24.02	22.11
135.0	23.46	23.40	23.51	23.63	23.85	24.30	24.41	24.98	22.22
180.0	28.01	27.06	26.44	27.11	28.29	28.58	29.64	29.25	22.22
225.0	26.38	25.99	26.27	26.72	27.11	27.79	27.51	28.13	24.92
270.0	23.34	23.29	23.46	23.79	24.02	24.36	24.41	24.53	24.81
315.0	22.78	22.78	22.84	22.95	23.01	23.23	23.34	23.96	24.92
360.0	22.84	22.89	22.95	23.01	23.01	23.01	22.95	23.12	23.46

Intensity data(cd)

C/γ(°)	90.0
0.0	22.61
45.0	22.11
90.0	22.05
135.0	22.16
180.0	22.22
225.0	22.11
270.0	22.44
315.0	22.44
360.0	22.61