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NATA

LumCAT: 3-1742-N
Luminaire: 92.70.045.00+92.70.061.00

Report No: NATA0100	Voltage(V): 35.0000
Test No: GC2019011105	Current(A): 0.7000
LampCAT: OSRAM SOLERIQ S19	Power (W): 0.0000
Lamp flux(lm): 3395.3	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 86	Width(mm): 86
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2656.75
Efficiency(%): 78.25%
Lumens(lm)/Power(W): 0.00
Central intensity(cd): 8751.938
Maximum intensity(cd): 8751.938
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.3
[C90/270]Total=25.3
Field angle(10%Imax): [C0/180]Total=52.4
[C90/270]Total=52.4
Maximum s/h(1/2): C0_180=0.43 C90_270=0.43
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(%): 78.31%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.207%

Equipment: GMS1980	Date: 2019/1/11	Operator: NT07
Temperature(°C): 10.0	Humidity(%): 65.0%	Distance(m): 7.50

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8751.938	2.094	2.094	.062%	.079%
1.0	8719.172	16.687	18.781	.491%	.707%
2.0	8612.156	32.960	51.741	.971%	1.948%
3.0	8408.672	48.259	100	1.421%	3.764%
4.0	8151.680	62.357	162.357	1.837%	6.111%
5.0	7820.227	74.742	237.099	2.201%	8.924%
6.0	7439.414	85.276	322.375	2.512%	12.134%
7.0	7013.813	93.735	416.109	2.761%	15.662%
8.0	6576.539	100.370	516.479	2.956%	19.440%
9.0	6086.320	104.409	620.889	3.075%	23.370%
10.0	5610.586	106.839	727.728	3.147%	27.392%
11.0	5148.422	107.727	835.455	3.173%	31.447%
12.0	4683.727	106.788	942.243	3.145%	35.466%
13.0	4223.742	104.193	1046.435	3.069%	39.388%
14.0	3768.961	99.988	1146.423	2.945%	43.151%
15.0	3357.914	95.305	1241.729	2.807%	46.739%
16.0	2964.938	89.620	1331.349	2.640%	50.112%
17.0	2609.789	83.674	1415.023	2.464%	53.262%
18.0	2270.813	76.951	1491.975	2.266%	56.158%
19.0	1999.758	71.396	1563.37	2.103%	58.845%
20.0	1731.164	64.929	1628.3	1.912%	61.289%
21.0	1501.102	58.992	1687.291	1.737%	63.510%
22.0	1319.977	54.224	1741.515	1.597%	65.551%
23.0	1180.997	50.603	1792.119	1.490%	67.455%
24.0	1059.265	47.246	1839.365	1.392%	69.234%
25.0	970.383	44.972	1884.337	1.325%	70.926%
26.0	890.269	42.797	1927.134	1.260%	72.537%
27.0	815.034	40.576	1967.711	1.195%	74.065%
28.0	756.619	38.953	2006.664	1.147%	75.531%
29.0	700.123	37.222	2043.885	1.096%	76.932%
30.0	650.018	35.641	2079.526	1.050%	78.273%
31.0	602.789	34.045	2113.571	1.003%	79.555%
32.0	556.657	32.348	2145.92	.953%	80.772%
33.0	517.479	30.907	2176.826	.910%	81.936%
34.0	481.662	29.536	2206.363	.870%	83.048%
35.0	448.460	28.208	2234.57	.831%	84.109%
36.0	416.651	26.856	2261.426	.791%	85.120%
37.0	390.488	25.770	2287.197	.759%	86.090%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	362.672	24.485	2311.682	.721%	87.012%
39.0	337.008	23.258	2334.94	.685%	87.887%
40.0	316.751	22.327	2357.267	.658%	88.728%
41.0	295.784	21.280	2378.547	.627%	89.529%
42.0	273.628	20.078	2398.625	.591%	90.284%
43.0	252.464	18.881	2417.506	.556%	90.995%
44.0	229.563	17.487	2434.994	.515%	91.653%
45.0	209.398	16.237	2451.231	.478%	92.264%
46.0	192.059	15.150	2466.381	.446%	92.835%
47.0	173.707	13.931	2480.313	.410%	93.359%
48.0	158.252	12.897	2493.209	.380%	93.844%
49.0	143.613	11.886	2505.095	.350%	94.292%
50.0	129.094	10.845	2515.94	.319%	94.700%
51.0	116.866	9.960	2525.899	.293%	95.075%
52.0	105.975	9.158	2535.057	.270%	95.420%
53.0	95.154	8.333	2543.39	.245%	95.733%
54.0	85.163	7.555	2550.946	.223%	96.018%
55.0	77.112	6.927	2557.873	.204%	96.278%
56.0	69.012	6.274	2564.147	.185%	96.515%
57.0	62.641	5.761	2569.908	.170%	96.731%
58.0	56.686	5.272	2575.179	.155%	96.930%
59.0	51.567	4.847	2580.027	.143%	97.112%
60.0	46.983	4.462	2584.489	.131%	97.280%
61.0	43.038	4.128	2588.616	.122%	97.436%
62.0	39.867	3.860	2592.477	.114%	97.581%
63.0	37.666	3.680	2596.157	.108%	97.719%
64.0	35.930	3.541	2599.698	.104%	97.853%
65.0	34.390	3.418	2603.116	.101%	97.981%
66.0	33.110	3.317	2606.433	.098%	98.106%
67.0	31.823	3.212	2609.645	.095%	98.227%
68.0	30.593	3.111	2612.756	.092%	98.344%
69.0	29.468	3.017	2615.773	.089%	98.458%
70.0	28.392	2.926	2618.699	.086%	98.568%
71.0	27.267	2.827	2621.526	.083%	98.674%
72.0	26.213	2.734	2624.26	.081%	98.777%
73.0	25.242	2.647	2626.907	.078%	98.877%
74.0	24.258	2.557	2629.464	.075%	98.973%
75.0	23.231	2.461	2631.925	.072%	99.066%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	22.198	2.362	2634.287	.070%	99.155%
77.0	21.206	2.266	2636.552	.067%	99.240%
78.0	20.166	2.163	2638.715	.064%	99.321%
79.0	19.195	2.066	2640.782	.061%	99.399%
80.0	18.141	1.959	2642.741	.058%	99.473%
81.0	17.156	1.858	2644.599	.055%	99.543%
82.0	16.186	1.758	2646.357	.052%	99.609%
83.0	15.188	1.653	2648.01	.049%	99.671%
84.0	14.295	1.559	2649.569	.046%	99.730%
85.0	13.479	1.472	2651.041	.043%	99.785%
86.0	12.656	1.385	2652.426	.041%	99.837%
87.0	11.960	1.310	2653.736	.039%	99.887%
88.0	11.313	1.240	2654.975	.037%	99.933%
89.0	10.863	1.191	2656.167	.035%	99.978%
90.0	10.582	0.580	2656.747	.017%	100.000%

Zonal flux distribution table

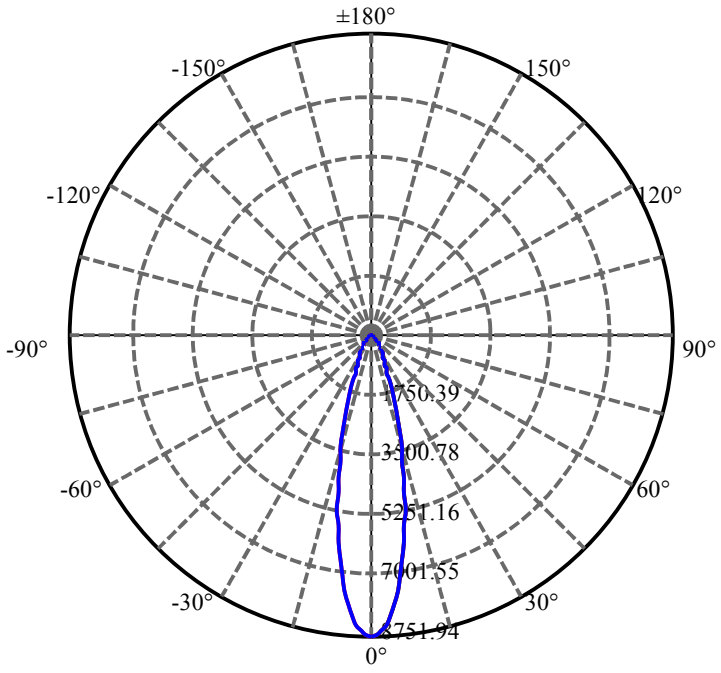
ZONAL LUMEN SUMMARY

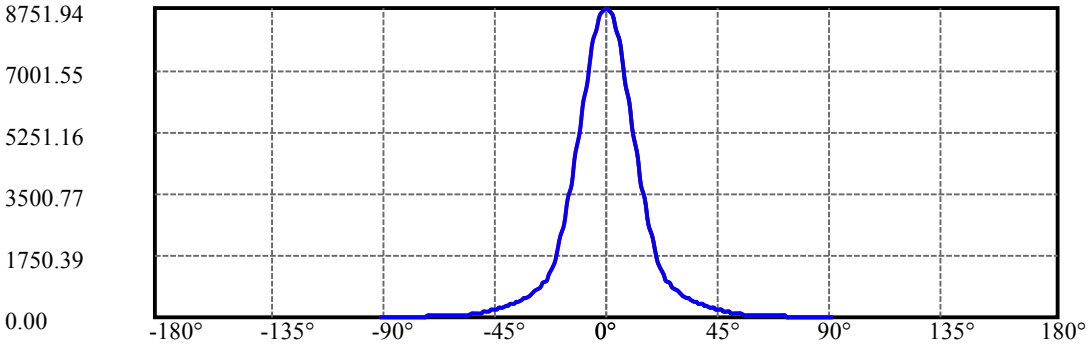
Zone	Lumens	%Lamp	%Fixt
0-30	2079.53	61.25%	78.27%
0-40	2357.27	69.43%	88.73%
0-60	2584.49	76.12%	97.28%
0-90	2656.17	78.23%	99.98%
0-120	2656.17	78.23%	99.98%
0-180	2656.75	78.25%	100.00%
60-90	76.14	2.24%	2.87%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-31.37	2125.40	62.60%	80.00%

ZONAL LUMEN SUMMARY

0-10	727.73
10-20	900.57
20-30	451.23
30-40	277.74
40-50	158.67
50-60	68.55
60-70	34.21
70-80	24.04
80-90	13.43
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:

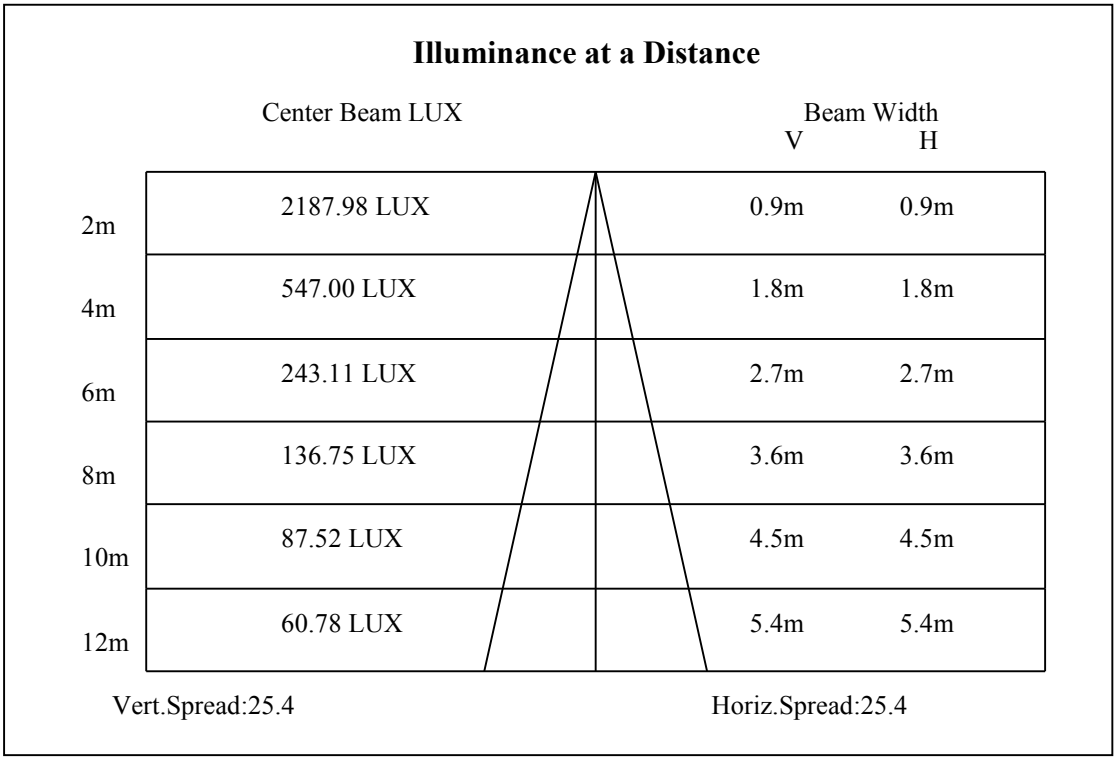
C90/C270:

Field angle(10%Imax):C0/180Left:26.2 Right:26.2
:C90/270Left:26.2 Right:26.2

Beam Angle(50%Imax):C0/180Left:12.7 Right:12.7
:C90/270Left:12.7 Right:12.7

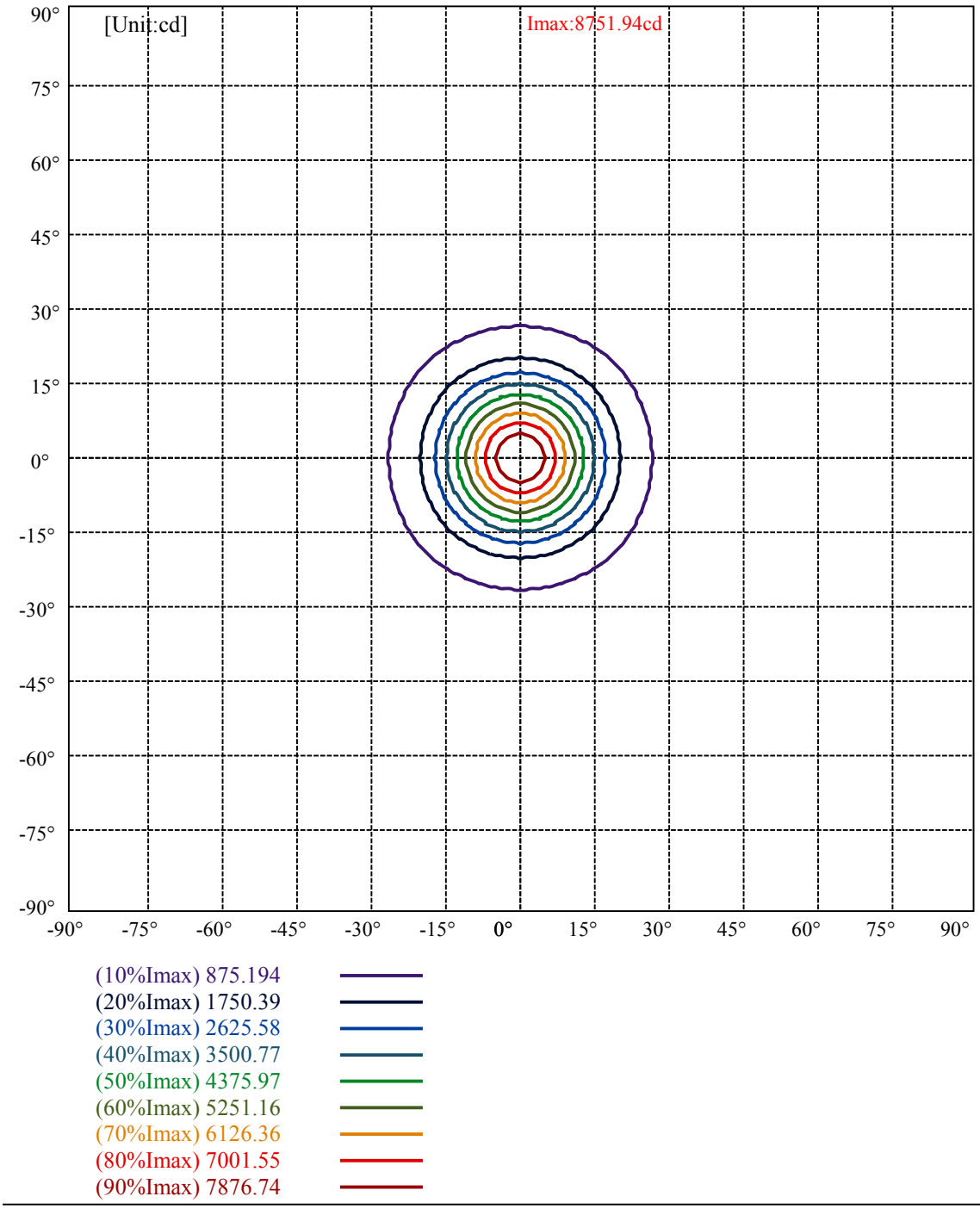
Equipment: GMS1980 Date: 2019/1/11 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

Lux distance Curve



Equipment: GMS1980 Date: 2019/1/11 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

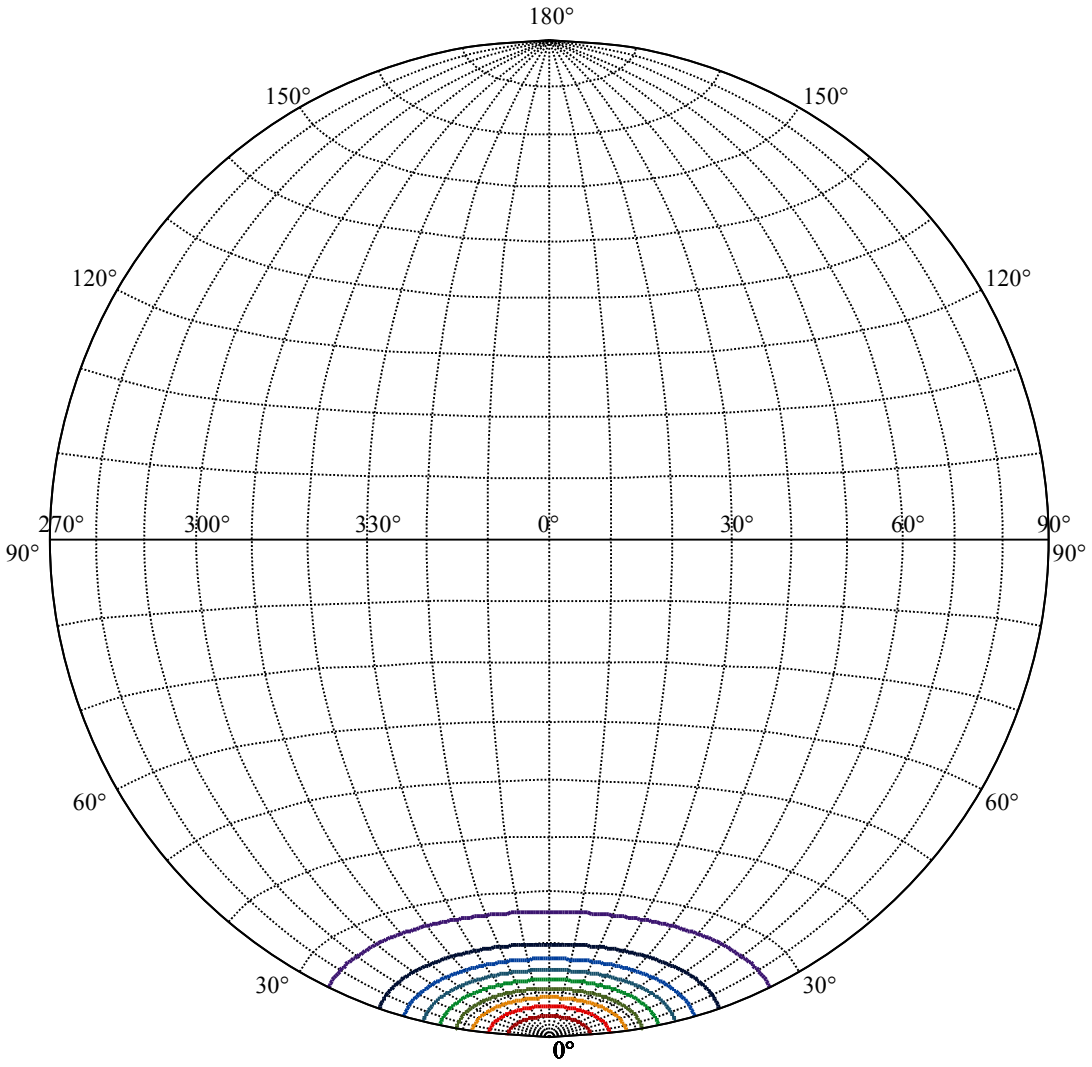


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/11
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



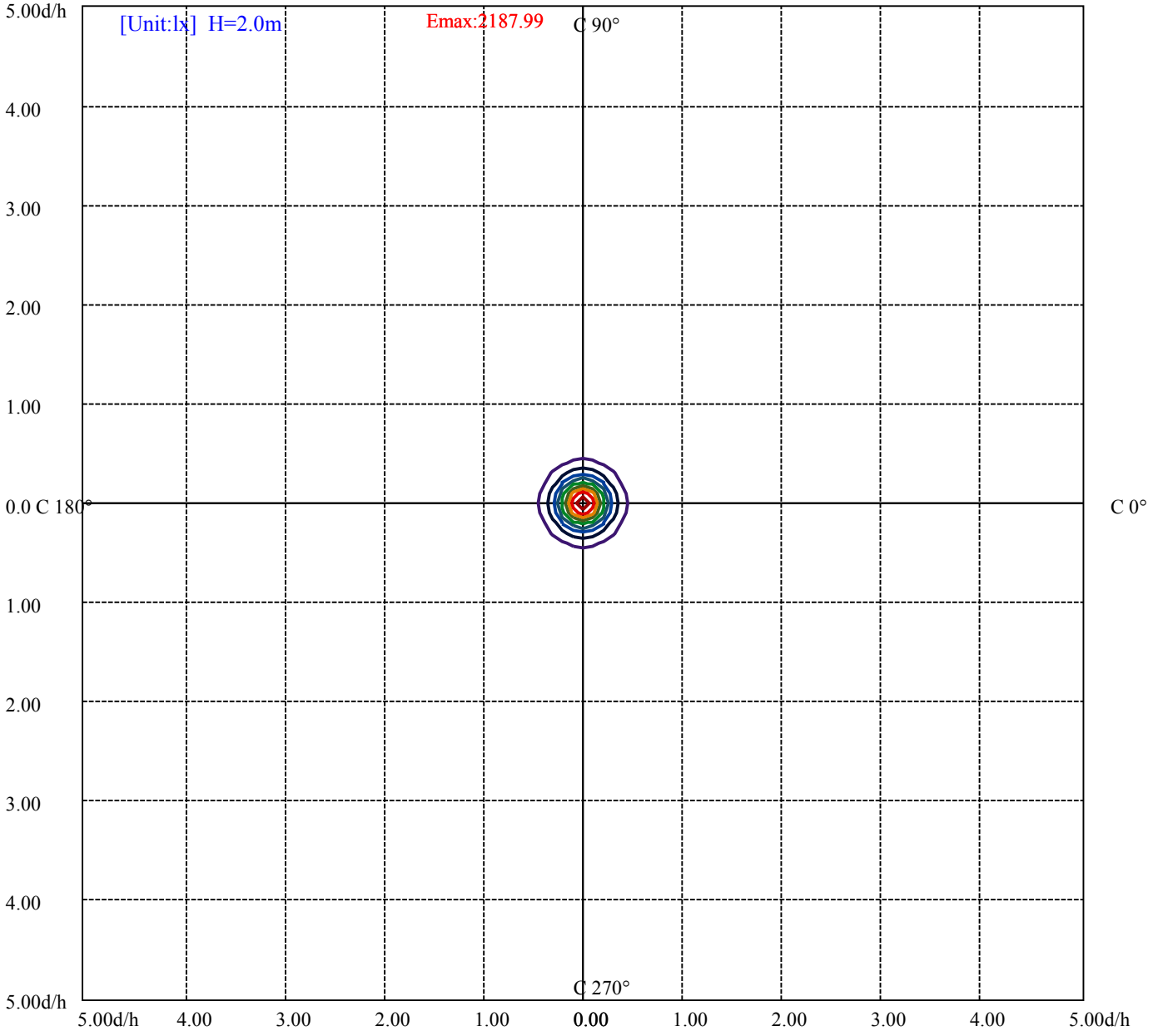
House [Unit:cd] Road

Imax:8751.94

(10%Imax) 875.194
(20%Imax) 1750.39
(30%Imax) 2625.58
(40%Imax) 3500.77
(50%Imax) 4375.97
(60%Imax) 5251.16
(70%Imax) 6126.36
(80%Imax) 7001.55
(90%Imax) 7876.74

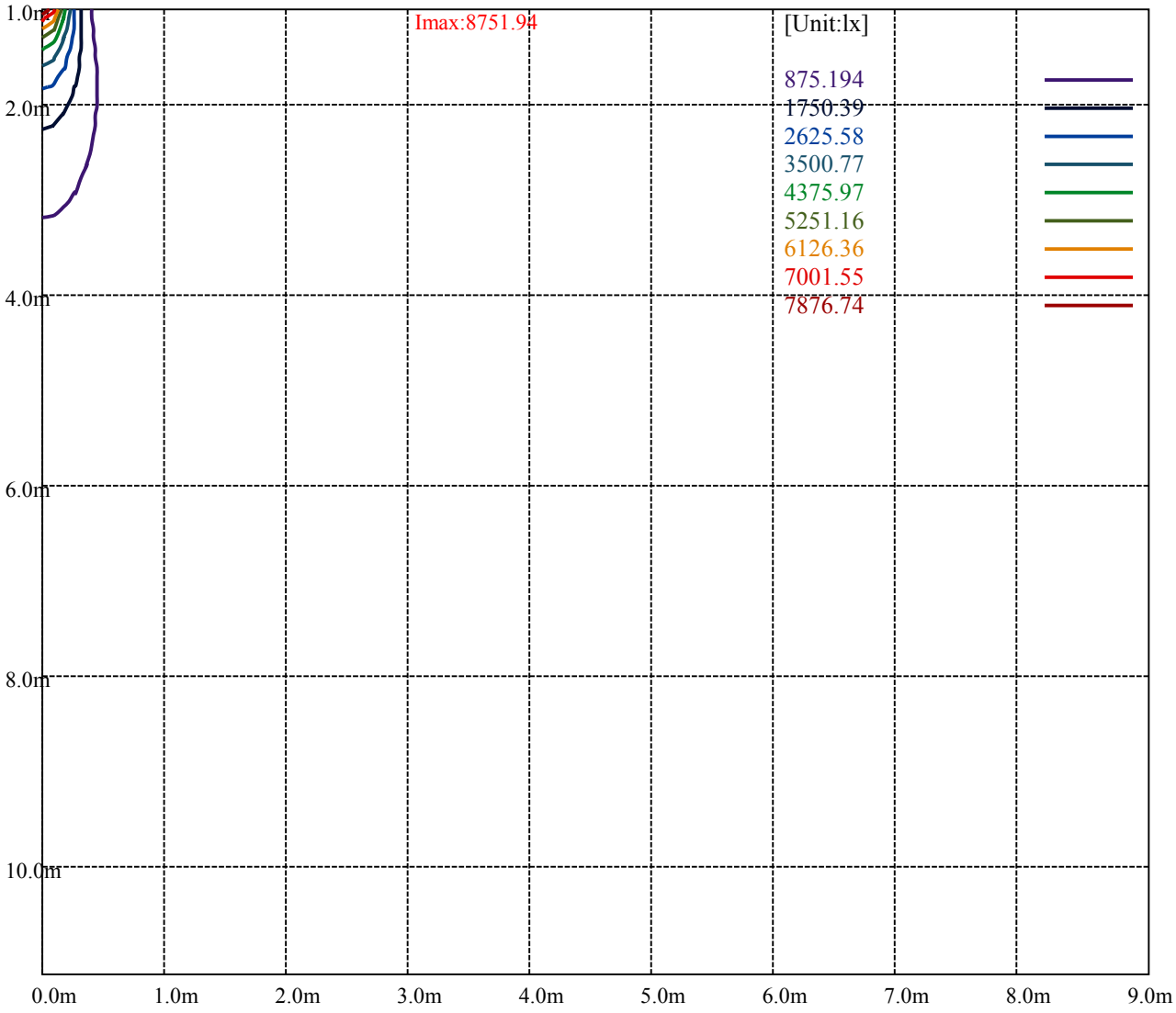
Equipment: GMS1980 Date: 2019/1/11 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO illuminance diagram



Equipment: GMS1980	Date: 2019/1/11	Operator: NT07
Temperature(°C): 10.0	Humidity(%): 65.0%	Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/11
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

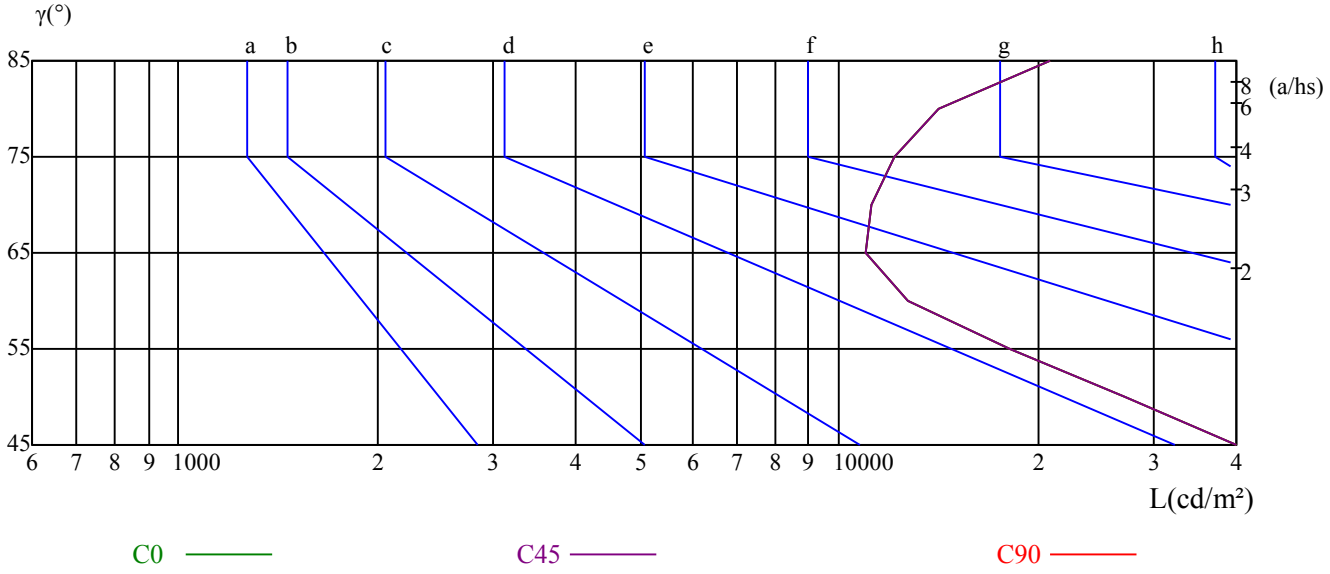
γ	45	50	55	60	65	70	75	80	85
C0	40040	27154	18177	12705	11002	11224	12136	14125	20910
C45	40040	27154	18177	12705	11002	11224	12136	14125	20910
C90	40040	27154	18177	12705	11002	11224	12136	14125	20910

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11002	11002	11002	12136	12136	12136	20910	20910	20910

Glare Table

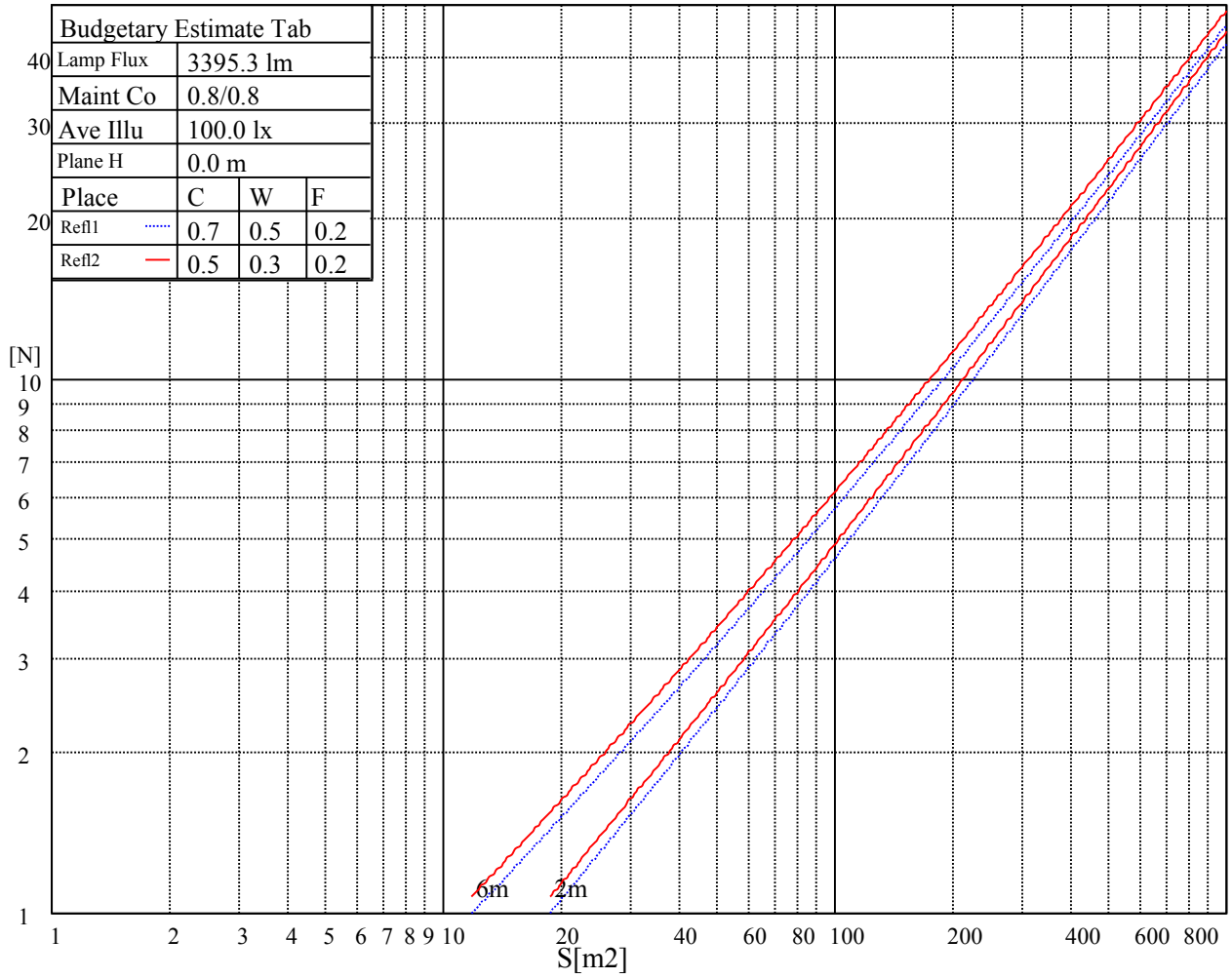
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	12.17	13.21	12.53	13.52	13.84	12.23	13.27	12.59	13.58	13.89
	3H	13.31	14.23	13.69	14.56	14.93	13.37	14.29	13.76	14.63	14.99
	4H	13.95	14.80	14.36	15.15	15.54	14.02	14.87	14.43	15.23	15.62
	6H	14.65	15.43	15.06	15.80	16.20	14.71	15.49	15.13	15.87	16.27
	8H	15.02	15.75	15.45	16.14	16.55	15.07	15.81	15.51	16.20	16.61
	12H	15.67	16.37	16.11	16.76	17.19	15.69	16.39	16.13	16.78	17.21
4H	2H	12.38	13.23	12.78	13.58	13.97	12.43	13.28	12.83	13.63	14.02
	3H	13.83	14.52	14.24	14.93	15.34	13.88	14.58	14.30	14.99	15.40
	4H	14.66	15.28	15.10	15.71	16.15	14.72	15.35	15.16	15.77	16.22
	6H	15.46	15.99	15.93	16.44	16.92	15.52	16.05	15.99	16.50	16.98
	8H	15.95	16.45	16.43	16.90	17.38	16.00	16.50	16.47	16.95	17.42
	12H	16.67	17.11	17.16	17.59	18.07	16.68	17.12	17.17	17.60	18.08
8H	4H	14.96	15.46	15.44	15.91	16.38	15.02	15.51	15.49	15.96	16.44
	6H	16.00	16.40	16.51	16.90	17.39	16.05	16.45	16.56	16.95	17.44
	8H	16.65	17.01	17.19	17.53	18.03	16.69	17.04	17.22	17.57	18.06
	12H	17.72	18.03	18.25	18.53	19.11	17.72	18.03	18.25	18.53	19.11
12H	4H	15.01	15.44	15.50	15.93	16.40	15.06	15.49	15.55	15.98	16.46
	6H	16.45	16.49	16.66	16.96	17.50	16.50	16.53	16.71	17.00	17.55
	8H	16.88	17.19	17.40	17.69	18.27	16.91	17.22	17.43	17.72	18.30
Variation with the observer position at spacings:											
S = 1.0H		1.4/-2.1					1.4/-2.1				
S = 1.5H		2.6/-2.5					2.6/-2.5				
S = 2.0H		4.1/-2.2					4.1/-2.2				
Standard tables:		BK3					BK3				
Uncorrected UGR		3.2					3.2				

Budgetary Estimate Table

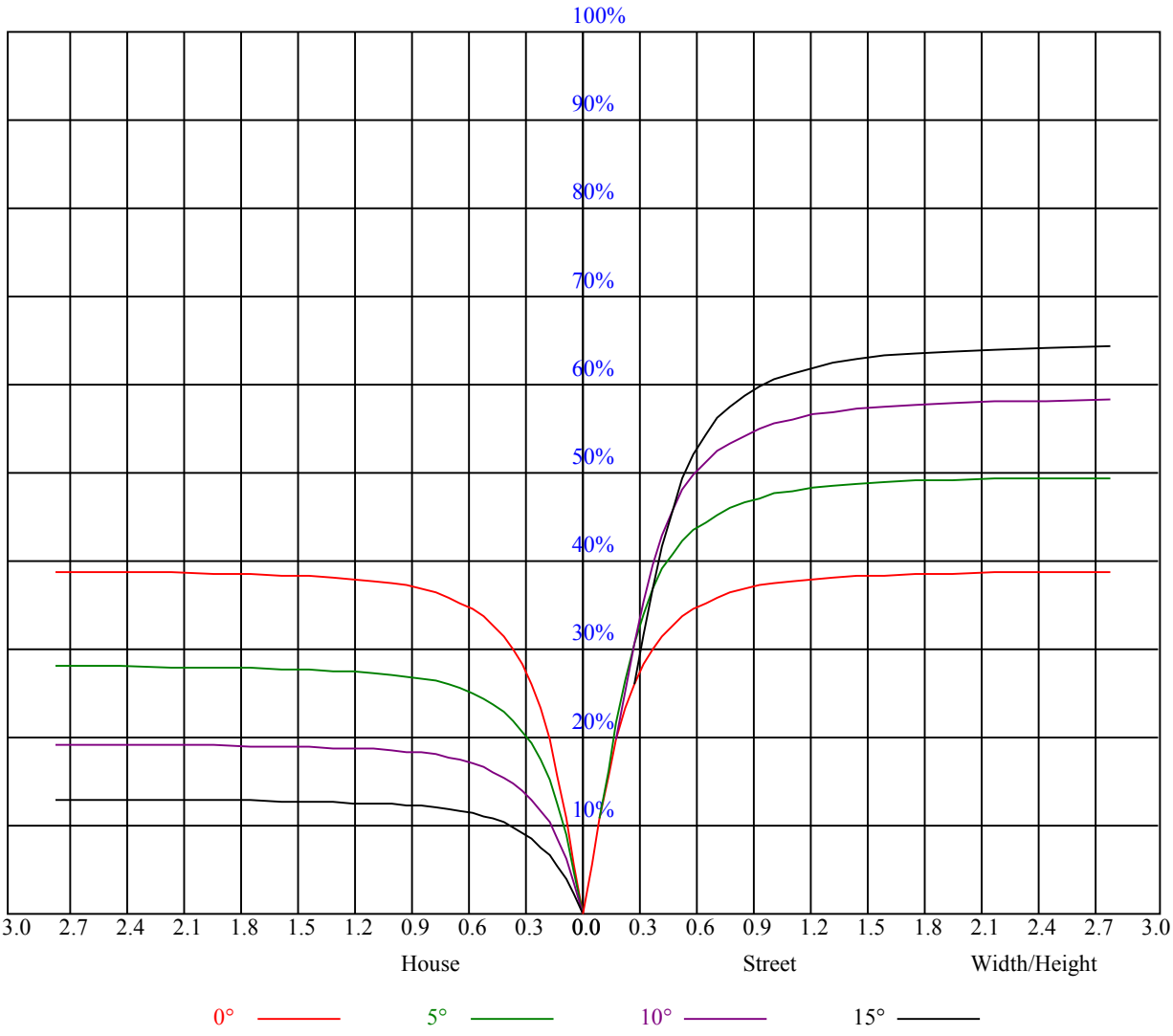


Equipment: GMS1980 Date: 2019/1/11 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	0.93	0.93	0.93	0.91	0.91	0.91	0.87	0.87	0.87	0.83	0.83	0.83	0.80	0.80	0.80	0.78
1	0.87	0.85	0.83	0.85	0.84	0.82	0.82	0.81	0.80	0.79	0.78	0.77	0.77	0.76	0.75	0.74
2	0.82	0.79	0.76	0.80	0.78	0.75	0.78	0.76	0.74	0.75	0.74	0.72	0.73	0.72	0.71	0.69
3	0.77	0.73	0.70	0.76	0.73	0.70	0.74	0.71	0.69	0.72	0.70	0.68	0.70	0.68	0.67	0.66
4	0.73	0.69	0.66	0.72	0.68	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.67	0.65	0.63	0.62
5	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.59
6	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.57
7	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.55	0.60	0.57	0.55	0.54
8	0.60	0.56	0.54	0.60	0.56	0.54	0.59	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.52
9	0.58	0.54	0.52	0.58	0.54	0.51	0.57	0.54	0.51	0.56	0.53	0.51	0.56	0.53	0.51	0.50
10	0.56	0.52	0.50	0.56	0.52	0.50	0.55	0.52	0.49	0.55	0.51	0.49	0.54	0.51	0.49	0.48

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/1/11	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	8682.75	8753.63	8750.81	8684.44	8512.88	8251.88	7953.75	7567.31	7190.44
45.0	8809.31	8809.88	8720.44	8559.56	8334.56	7971.19	7621.88	7286.63	6767.44
90.0	8758.69	8667.56	8510.63	8218.69	7923.38	7574.06	7138.69	6662.81	6212.81
135.0	8757.00	8658.00	8476.88	8244.00	7909.88	7527.38	7145.44	6672.94	6243.19
180.0	8682.75	8550.56	8347.50	7999.88	7665.19	7291.13	6829.88	6329.81	5878.69
225.0	8809.31	8749.13	8620.31	8344.13	8061.75	7716.38	7284.94	6822.00	6378.19
270.0	8758.69	8786.25	8731.13	8610.75	8385.19	8069.06	7737.19	7374.94	6939.00
315.0	8757.00	8778.38	8739.56	8607.94	8420.63	8160.75	7803.56	7394.06	7002.56
360.0	8682.75	8753.63	8750.81	8684.44	8512.88	8251.88	7953.75	7567.31	7190.44

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6735.38	6247.69	5798.81	5352.75	4800.38	4366.13	3945.94	3435.75	3057.19
45.0	6257.81	5856.19	5285.25	4830.19	4386.94	3858.75	3458.81	3090.94	2659.50
90.0	5703.19	5258.25	4770.56	4302.56	3895.31	3463.88	3054.94	2717.44	2403.56
135.0	5743.13	5245.31	4805.44	4367.81	3848.63	3445.31	3072.94	2662.88	2354.06
180.0	5369.63	4875.75	4445.44	3977.44	3583.69	3172.50	2783.81	2463.75	2176.31
225.0	5865.19	5361.75	4919.63	4420.69	3995.44	3535.88	3111.75	2753.44	2426.63
270.0	6469.88	5982.75	5549.06	5106.94	4610.25	4131.00	3718.13	3276.00	2859.75
315.0	6546.38	6057.00	5613.19	5111.44	4669.31	4178.25	3717.00	3319.31	2941.31
360.0	6735.38	6247.69	5798.81	5352.75	4800.38	4366.13	3945.94	3435.75	3057.19

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2712.94	2360.81	2052.00	1809.00	1572.19	1371.38	1225.69	1095.75	1002.38
45.0	2341.69	2059.31	1757.25	1542.38	1359.00	1184.63	1064.25	973.13	887.63
90.0	2053.69	1805.06	1586.25	1356.19	1119.43	1092.71	986.63	899.16	831.21
135.0	2079.56	1822.50	1551.38	1377.00	1221.75	1073.81	986.06	909.00	832.50
180.0	1852.88	1630.69	1434.94	1198.69	1115.94	1022.06	932.63	856.41	796.67
225.0	2073.38	1823.63	1605.38	1377.56	1190.81	1113.64	1008.79	921.71	854.61
270.0	2531.25	2273.06	1909.69	1682.44	1510.31	1287.00	1160.44	1071.56	963.00
315.0	2521.13	2223.00	1952.44	1665.56	1470.38	1302.75	1109.64	1036.35	954.17
360.0	2712.94	2360.81	2052.00	1809.00	1572.19	1371.38	1225.69	1095.75	1002.38

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	912.94	838.13	780.75	730.13	671.06	627.19	585.00	536.06	498.94
45.0	813.38	756.00	697.50	649.13	599.63	554.06	517.50	479.81	445.50
90.0	765.39	705.60	657.73	606.88	564.75	518.79	478.63	445.84	415.91
135.0	763.88	703.69	653.06	604.13	552.38	508.50	475.88	442.69	411.75
180.0	737.33	688.67	638.04	590.63	549.45	508.11	471.04	442.29	415.01
225.0	786.49	732.71	678.26	629.44	588.71	547.03	509.18	477.79	449.16
270.0	877.50	820.69	750.38	701.44	656.44	603.00	563.63	525.94	482.06
315.0	863.38	807.47	745.26	688.39	639.90	586.58	538.99	502.88	469.35
360.0	912.94	838.13	780.75	730.13	671.06	627.19	585.00	536.06	498.94

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	466.31	435.38	399.38	373.50	348.75	323.44	300.94	288.56	254.64
45.0	416.81	390.38	360.00	336.38	315.56	293.06	284.06	247.61	228.83
90.0	381.83	356.40	333.45	303.58	286.76	267.13	244.80	224.27	206.72
135.0	386.44	365.06	335.25	315.56	298.69	284.06	249.24	230.23	209.93
180.0	383.68	360.00	338.12	312.98	293.12	271.91	252.06	227.87	209.53
225.0	415.91	392.01	368.61	341.27	322.20	299.36	274.95	252.34	233.04
270.0	450.56	420.19	387.00	362.81	339.75	317.81	294.75	284.06	248.96
315.0	431.66	404.49	379.58	349.99	329.18	309.49	288.23	264.77	244.86
360.0	466.31	435.38	399.38	373.50	348.75	323.44	300.94	288.56	254.64

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	233.16	217.18	195.13	178.48	162.84	144.79	131.68	119.70	106.54
45.0	207.39	189.39	171.84	157.84	142.14	128.08	116.49	105.98	93.83
90.0	187.88	172.29	156.04	140.91	128.53	116.04	104.34	94.73	86.06
135.0	191.48	174.77	158.23	144.68	131.06	118.13	107.44	97.14	86.96
180.0	191.98	173.87	157.22	143.49	129.15	115.99	105.30	93.99	84.88
225.0	209.64	194.06	175.28	156.54	144.28	129.60	114.69	105.36	95.23
270.0	227.70	209.25	189.68	173.48	156.49	140.91	128.08	116.49	103.44
315.0	225.96	205.65	186.24	170.61	154.41	139.22	126.90	114.41	104.29
360.0	233.16	217.18	195.13	178.48	162.84	144.79	131.68	119.70	106.54

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	96.75	87.86	77.79	70.71	64.29	57.94	52.37	47.93	43.59
45.0	85.05	77.01	68.18	62.16	56.87	51.69	47.14	43.59	40.11
90.0	75.26	69.19	62.94	56.87	51.64	47.48	43.48	40.05	37.46
135.0	78.75	71.44	63.39	57.88	53.10	48.26	43.99	40.56	37.80
180.0	75.60	67.61	61.48	56.14	50.34	46.29	42.75	39.38	37.63
225.0	82.63	75.43	67.95	60.81	54.73	49.95	45.45	41.74	39.15
270.0	93.60	84.60	74.59	67.73	61.37	55.18	49.78	45.56	41.63
315.0	93.66	83.76	75.77	68.85	61.14	55.74	50.91	45.51	41.57
360.0	96.75	87.86	77.79	70.71	64.29	57.94	52.37	47.93	43.59

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	40.39	37.97	36.23	34.88	33.47	32.12	31.05	29.98	28.69
45.0	37.74	36.06	34.48	33.36	32.01	30.66	29.64	28.58	27.39
90.0	35.83	34.31	32.85	31.50	30.38	29.31	28.07	27.06	26.04
135.0	36.23	34.65	33.24	32.12	30.77	29.48	28.41	27.39	26.16
180.0	36.17	34.59	33.19	32.01	30.77	29.64	28.52	27.39	26.33
225.0	37.35	35.94	34.43	33.02	31.84	30.77	29.42	28.41	27.34
270.0	38.93	37.13	35.49	34.14	32.85	31.50	30.54	29.42	28.18
315.0	38.70	36.79	35.21	33.86	32.51	31.28	30.09	28.91	28.01
360.0	40.39	37.97	36.23	34.88	33.47	32.12	31.05	29.98	28.69

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	27.68	26.72	25.65	24.53	23.63	22.67	21.54	20.64	19.58
45.0	26.38	25.48	24.64	23.40	22.50	21.60	20.31	19.46	18.39
90.0	24.98	23.96	23.06	22.11	20.98	20.03	18.96	18.11	17.10
135.0	25.20	24.36	23.23	22.22	21.32	20.14	19.18	18.11	17.04
180.0	25.31	24.13	23.23	22.28	20.98	20.08	19.01	17.94	16.88
225.0	26.16	25.26	24.19	23.34	22.05	21.15	20.14	19.07	18.06
270.0	27.11	26.21	25.14	24.02	23.23	22.11	21.15	20.31	19.18
315.0	26.89	25.82	24.92	23.96	22.89	21.88	21.04	19.91	18.90
360.0	27.68	26.72	25.65	24.53	23.63	22.67	21.54	20.64	19.58

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	18.51	17.49	16.31	15.41	14.46	13.50	12.60	11.87	11.14
45.0	17.27	16.26	15.13	14.29	13.50	12.54	11.93	11.14	10.69
90.0	16.14	15.30	14.40	13.56	12.88	12.38	12.26	10.74	10.52
135.0	16.09	15.13	14.12	13.33	12.49	11.76	11.14	10.69	10.58
180.0	15.92	14.91	13.95	13.05	12.26	11.59	10.97	10.63	10.58
225.0	17.04	16.14	15.24	14.23	13.44	12.49	11.64	11.14	10.58
270.0	18.23	17.33	16.31	15.58	14.68	13.78	12.88	12.71	11.81
315.0	18.06	16.93	16.03	14.91	14.12	13.22	12.26	11.59	11.03
360.0	18.51	17.49	16.31	15.41	14.46	13.50	12.60	11.87	11.14

Intensity data(cd)

C/γ(°)	90.0
0.0	10.74
45.0	10.58
90.0	10.52
135.0	10.52
180.0	10.58
225.0	10.63
270.0	10.52
315.0	10.58
360.0	10.74