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

NATA

LumCAT: 3-1942-M
Luminaire: BJB 47.319.2135

Report No: NATA0100	Voltage(V): 36.9500
Test No: GC2019012111	Current(A): 0.5000
LampCAT: PHILIPS Certaflux slm 1205	Power (W): 18.4750
Lamp flux(lm): 2360.0	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): 2110.19
Efficiency(%): 89.41%
Lumens(lm)/Power(W): 114.36
Central intensity(cd): 11067.890
Maximum intensity(cd): 11067.890
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=12.3
[C90/270]Total=12.3
Field angle(10%Imax): [C0/180]Total=54.8
[C90/270]Total=54.8
Maximum s/h(1/2): C0_180=0.21 C90_270=0.21
Maximum s/h(1/4): C0_180=0.27 C90_270=0.27
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.52%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.544%

Equipment: GMS1980	Date: 2019/1/21	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	11067.891	2.648	2.648	.112%	.125%
1.0	10899.352	20.860	23.508	.884%	1.114%
2.0	10358.016	39.641	63.149	1.680%	2.993%
3.0	9307.055	53.415	116.564	2.263%	5.524%
4.0	8077.922	61.793	178.357	2.618%	8.452%
5.0	6814.336	65.129	243.485	2.760%	11.539%
6.0	5709.656	65.448	308.933	2.773%	14.640%
7.0	4665.164	62.347	371.28	2.642%	17.595%
8.0	3963.164	60.485	431.765	2.563%	20.461%
9.0	3460.852	59.370	491.135	2.516%	23.274%
10.0	3132.563	59.652	550.786	2.528%	26.101%
11.0	2924.719	61.198	611.984	2.593%	29.001%
12.0	2759.414	62.914	674.898	2.666%	31.983%
13.0	2613.023	64.459	739.357	2.731%	35.038%
14.0	2487.094	65.981	805.338	2.796%	38.164%
15.0	2368.758	67.231	872.569	2.849%	41.350%
16.0	2247.891	67.946	940.515	2.879%	44.570%
17.0	2138.203	68.555	1009.07	2.905%	47.819%
18.0	2018.391	68.397	1077.467	2.898%	51.060%
19.0	1910.883	68.223	1145.689	2.891%	54.293%
20.0	1796.906	67.395	1213.085	2.856%	57.487%
21.0	1688.344	66.350	1279.435	2.811%	60.631%
22.0	1586.180	65.160	1344.595	2.761%	63.719%
23.0	1488.445	63.777	1408.371	2.702%	66.742%
24.0	1389.023	61.955	1470.326	2.625%	69.678%
25.0	1299.094	60.206	1530.532	2.551%	72.531%
26.0	1205.445	57.948	1588.48	2.455%	75.277%
27.0	1133.930	56.453	1644.933	2.392%	77.952%
28.0	1063.266	54.740	1699.673	2.319%	80.546%
29.0	995.590	52.930	1752.603	2.243%	83.054%
30.0	935.529	51.295	1803.899	2.174%	85.485%
31.0	875.967	49.474	1853.373	2.096%	87.830%
32.0	804.888	46.773	1900.146	1.982%	90.046%
33.0	708.743	42.330	1942.476	1.794%	92.052%
34.0	582.855	35.742	1978.218	1.514%	93.746%
35.0	458.824	28.860	2007.077	1.223%	95.114%
36.0	327.930	21.137	2028.215	.896%	96.115%
37.0	234.197	15.456	2043.671	.655%	96.848%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	112.113	7.569	2051.24	.321%	97.207%
39.0	56.461	3.896	2055.136	.165%	97.391%
40.0	36.886	2.600	2057.736	.110%	97.514%
41.0	30.059	2.163	2059.899	.092%	97.617%
42.0	25.305	1.857	2061.756	.079%	97.705%
43.0	21.741	1.626	2063.382	.069%	97.782%
44.0	19.181	1.461	2064.843	.062%	97.851%
45.0	17.318	1.343	2066.186	.057%	97.915%
46.0	16.165	1.275	2067.461	.054%	97.975%
47.0	15.145	1.215	2068.675	.051%	98.033%
48.0	14.337	1.168	2069.844	.050%	98.088%
49.0	13.598	1.125	2070.969	.048%	98.142%
50.0	13.057	1.097	2072.066	.046%	98.194%
51.0	12.600	1.074	2073.14	.046%	98.244%
52.0	12.206	1.055	2074.195	.045%	98.294%
53.0	11.777	1.031	2075.226	.044%	98.343%
54.0	11.405	1.012	2076.238	.043%	98.391%
55.0	11.046	0.992	2077.23	.042%	98.438%
56.0	10.688	0.972	2078.202	.041%	98.484%
57.0	10.420	0.958	2079.16	.041%	98.530%
58.0	10.195	0.948	2080.108	.040%	98.575%
59.0	10.041	0.944	2081.052	.040%	98.619%
60.0	9.886	0.939	2081.991	.040%	98.664%
61.0	9.773	0.937	2082.928	.040%	98.708%
62.0	9.668	0.936	2083.865	.040%	98.753%
63.0	9.591	0.937	2084.802	.040%	98.797%
64.0	9.506	0.937	2085.739	.040%	98.841%
65.0	9.429	0.937	2086.676	.040%	98.886%
66.0	9.366	0.938	2087.614	.040%	98.930%
67.0	9.316	0.940	2088.554	.040%	98.975%
68.0	9.274	0.943	2089.497	.040%	99.020%
69.0	9.225	0.944	2090.442	.040%	99.064%
70.0	9.176	0.946	2091.387	.040%	99.109%
71.0	9.148	0.948	2092.336	.040%	99.154%
72.0	9.105	0.950	2093.285	.040%	99.199%
73.0	9.077	0.952	2094.237	.040%	99.244%
74.0	9.063	0.955	2095.193	.040%	99.289%
75.0	9.035	0.957	2096.15	.041%	99.335%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.007	0.958	2097.108	.041%	99.380%
77.0	9.000	0.962	2098.07	.041%	99.426%
78.0	8.965	0.962	2099.031	.041%	99.471%
79.0	8.965	0.965	2099.996	.041%	99.517%
80.0	8.958	0.967	2100.964	.041%	99.563%
81.0	8.958	0.970	2101.934	.041%	99.609%
82.0	8.909	0.967	2102.901	.041%	99.655%
83.0	8.909	0.970	2103.871	.041%	99.701%
84.0	8.895	0.970	2104.841	.041%	99.747%
85.0	8.880	0.970	2105.811	.041%	99.793%
86.0	8.888	0.972	2106.784	.041%	99.839%
87.0	8.880	0.973	2107.756	.041%	99.885%
88.0	8.880	0.973	2108.729	.041%	99.931%
89.0	8.859	0.971	2109.701	.041%	99.977%
90.0	8.859	0.486	2110.186	.021%	100.000%

Zonal flux distribution table

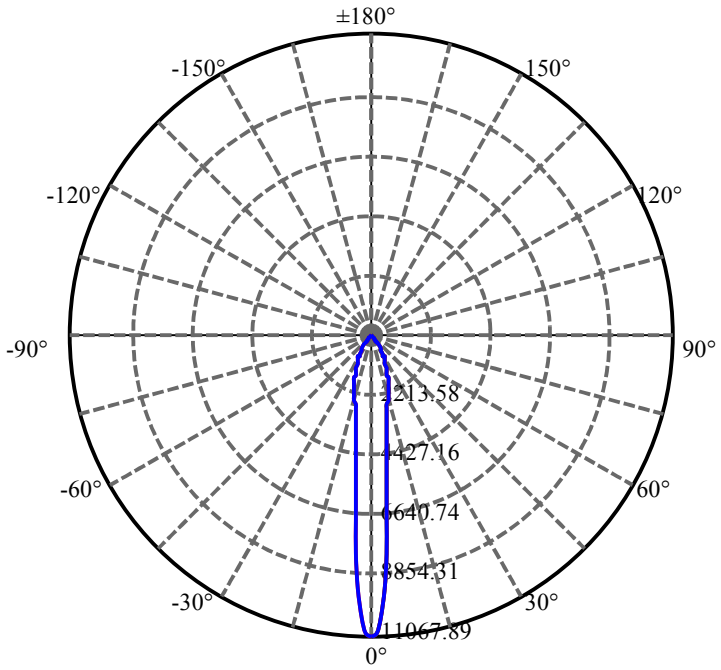
ZONAL LUMEN SUMMARY

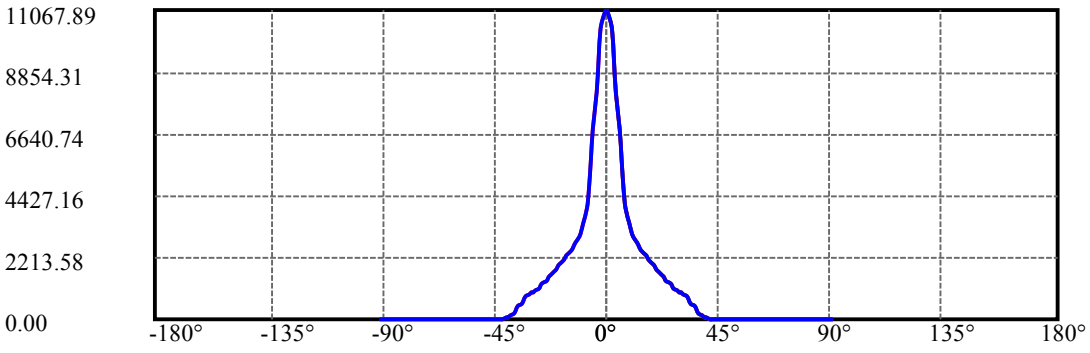
Zone	Lumens	%Lamp	%Fixt
0-30	1803.90	76.44%	85.49%
0-40	2057.74	87.19%	97.51%
0-60	2081.99	88.22%	98.66%
0-90	2109.70	89.39%	99.98%
0-120	2109.70	89.39%	99.98%
0-180	2110.19	89.41%	100.00%
60-90	28.65	1.21%	1.36%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.79	1688.15	71.53%	80.00%

ZONAL LUMEN SUMMARY

0-10	550.79
10-20	662.30
20-30	590.81
30-40	253.84
40-50	14.33
50-60	9.92
60-70	9.40
70-80	9.58
80-90	8.74
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):

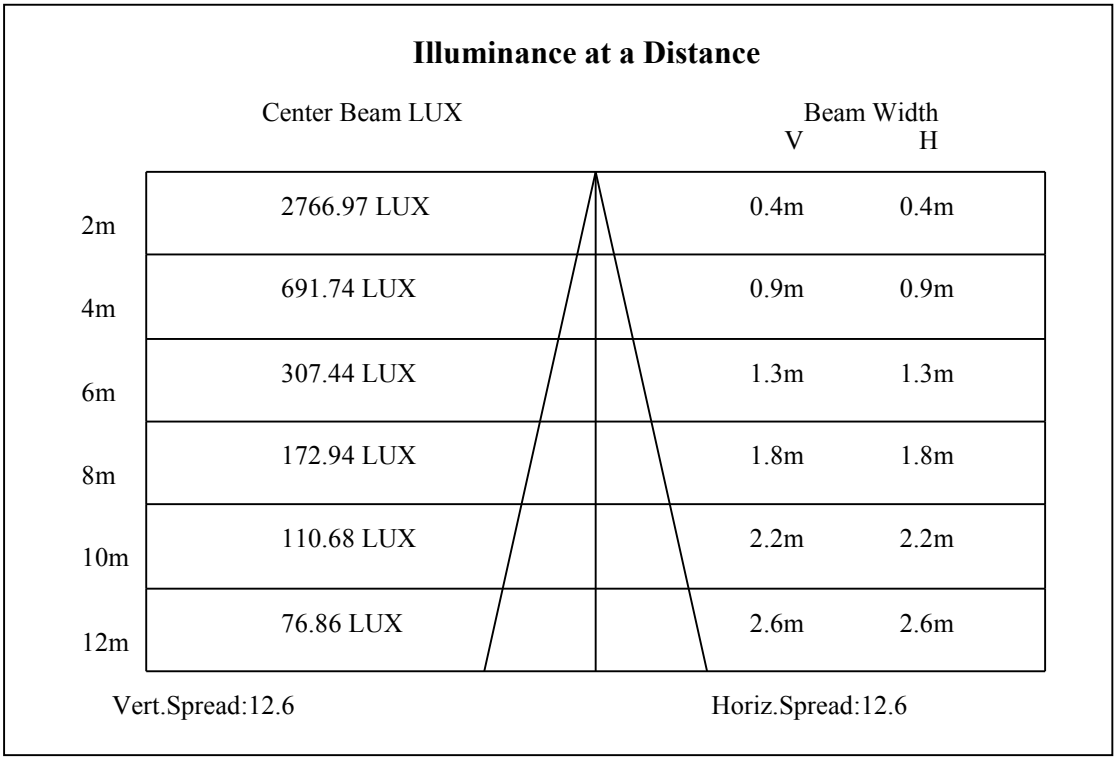
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:27.4 Right:27.4
:C90/270Left:27.4 Right:27.4

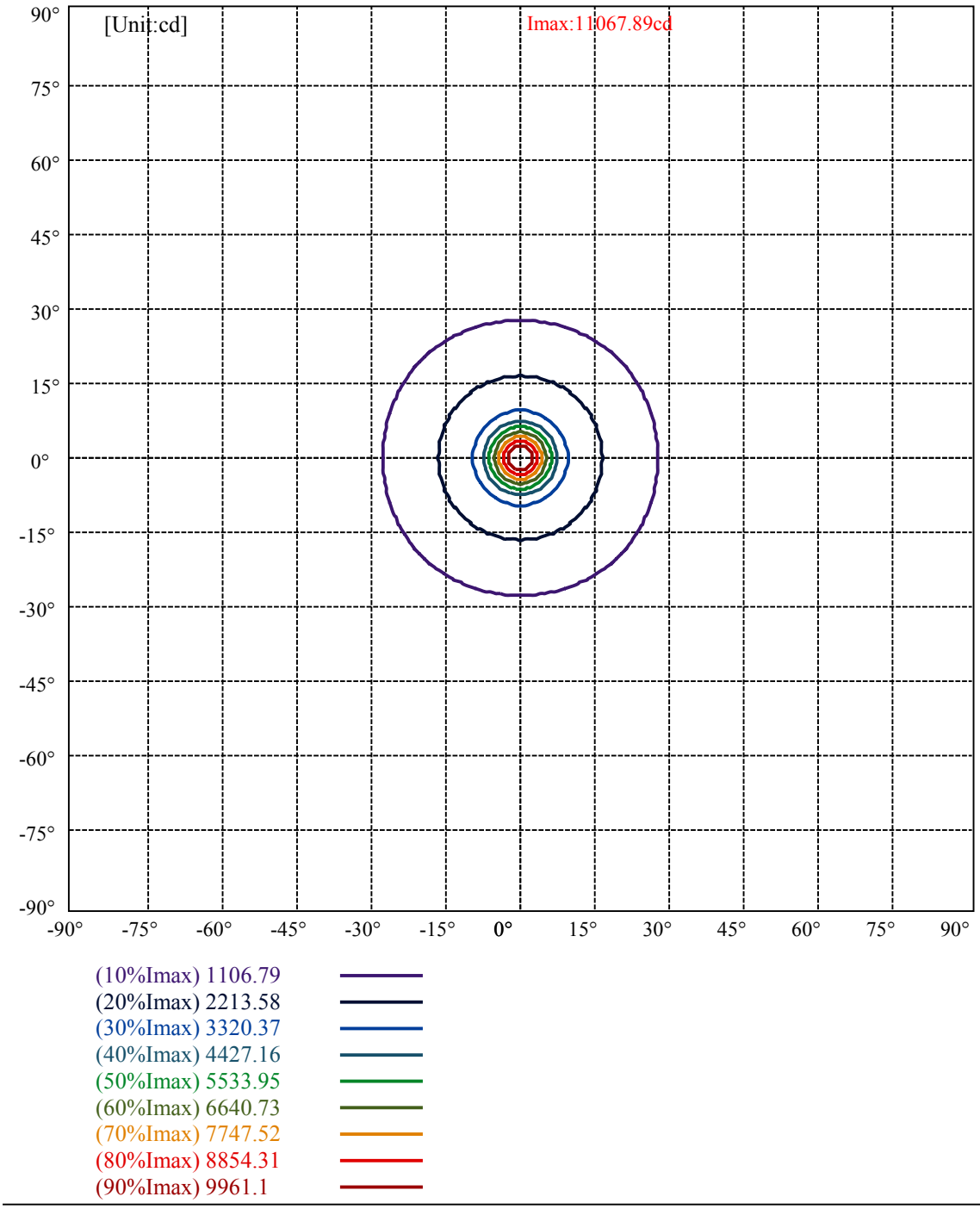
Beam Angle(50%Imax):C0/180Left:6.2 Right:6.2
:C90/270Left:6.2 Right:6.2

Lux distance Curve



Equipment: GMS1980 Date: 2019/1/21 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

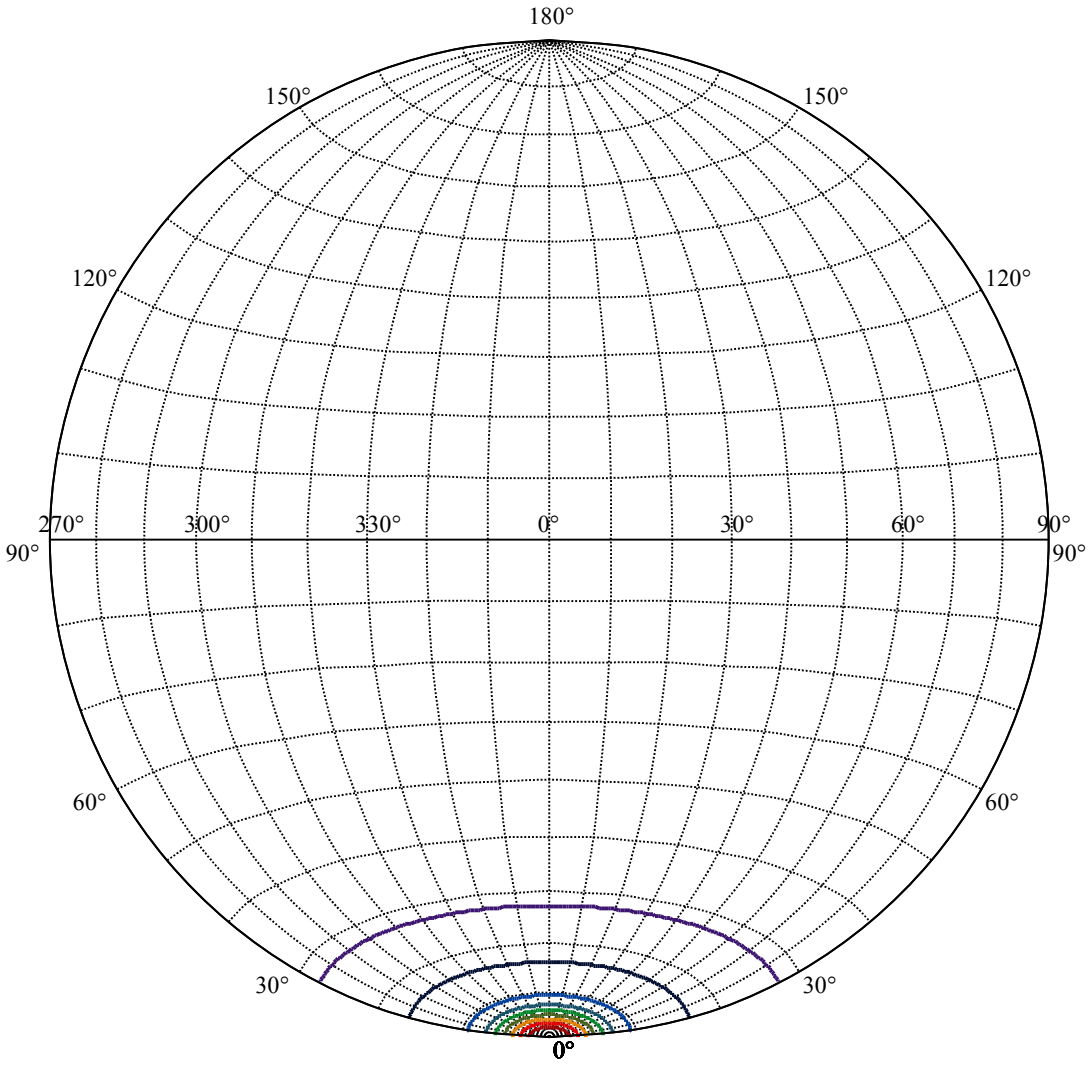


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/21
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web

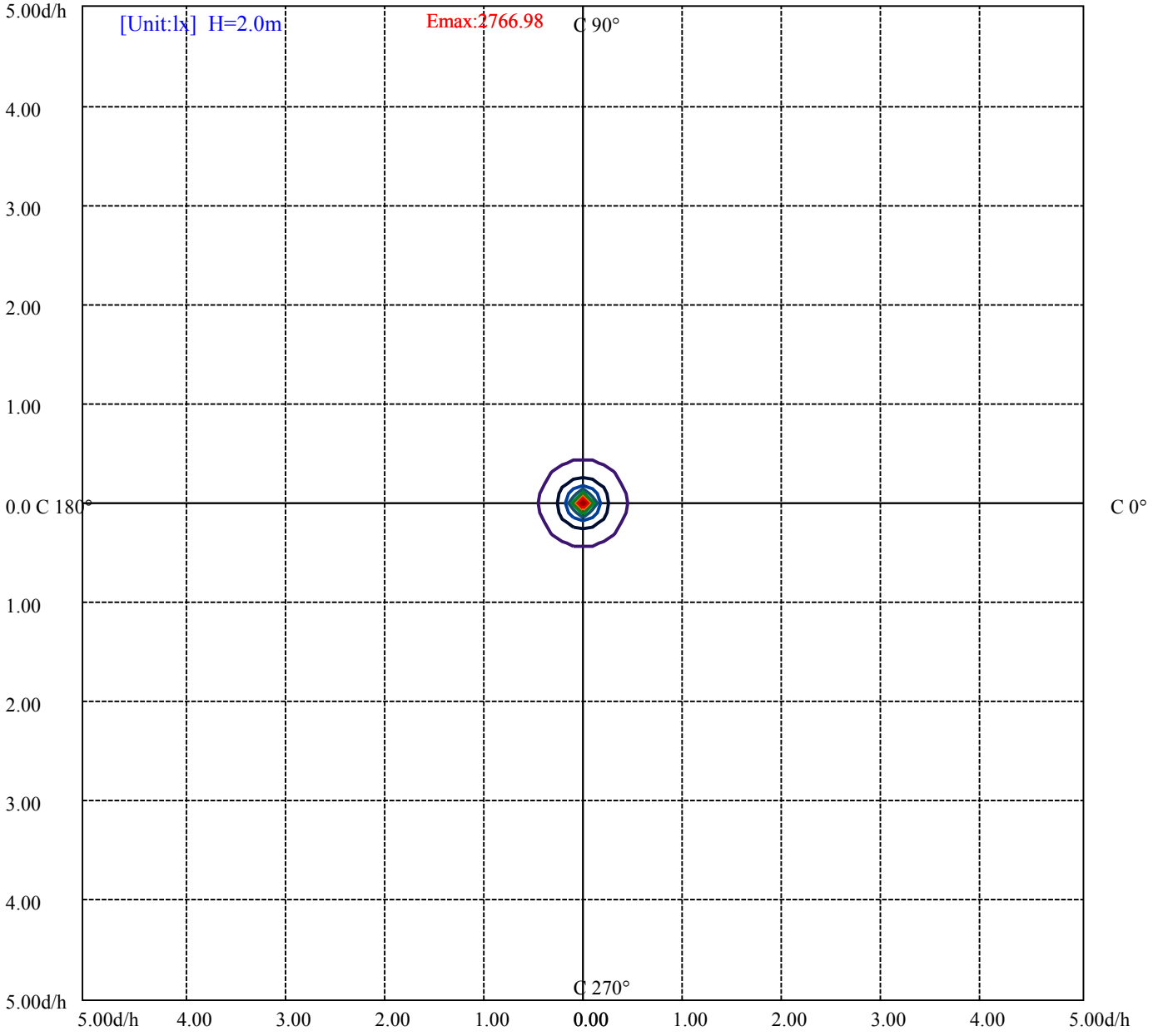


House [Unit:cd] Road

Imax:11067.89

(10%Imax) 1106.79
(20%Imax) 2213.58
(30%Imax) 3320.37
(40%Imax) 4427.16
(50%Imax) 5533.95
(60%Imax) 6640.73
(70%Imax) 7747.52
(80%Imax) 8854.31
(90%Imax) 9961.1

ISO illuminance diagram

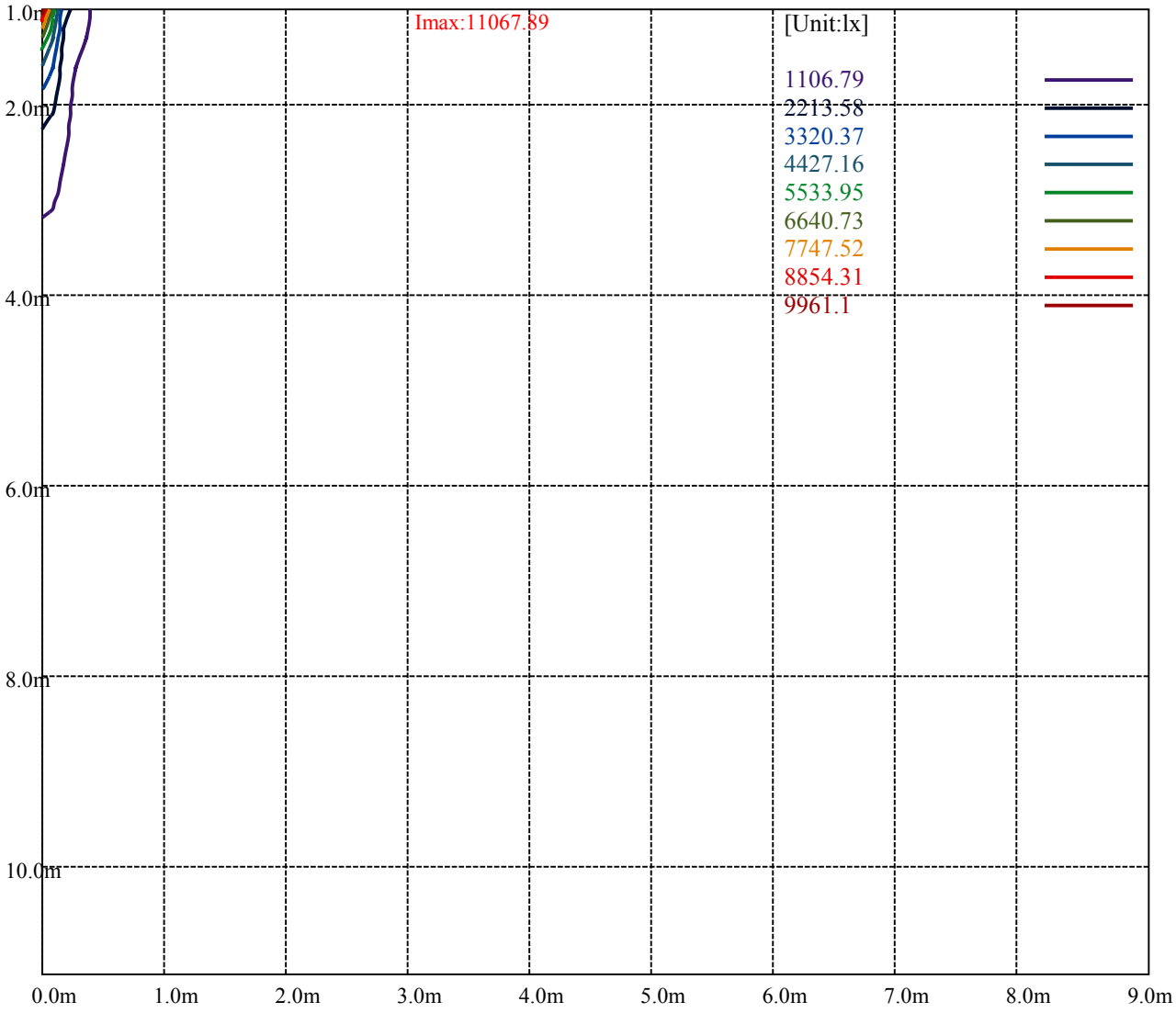


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/21
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/21
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

NATA 3-1942-M

Luminance Limitting Curve(no luminous side)

Luminance Table

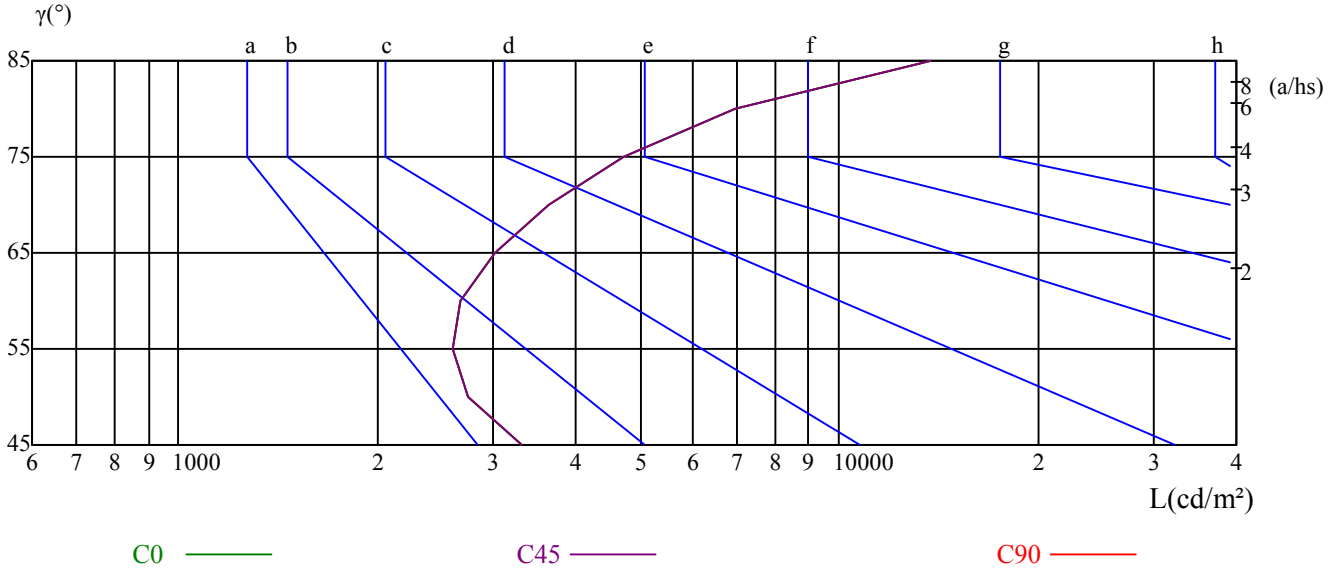
γ	45	50	55	60	65	70	75	80	85
C0	3311	2747	2604	2673	3017	3627	4720	6975	13777
C45	3311	2747	2604	2673	3017	3627	4720	6975	13777
C90	3311	2747	2604	2673	3017	3627	4720	6975	13777

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3017	3017	3017	4720	4720	4720	13777	13777	13777

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): 10.0

Date: 2019/1/21
Humidity(%): 65.0%

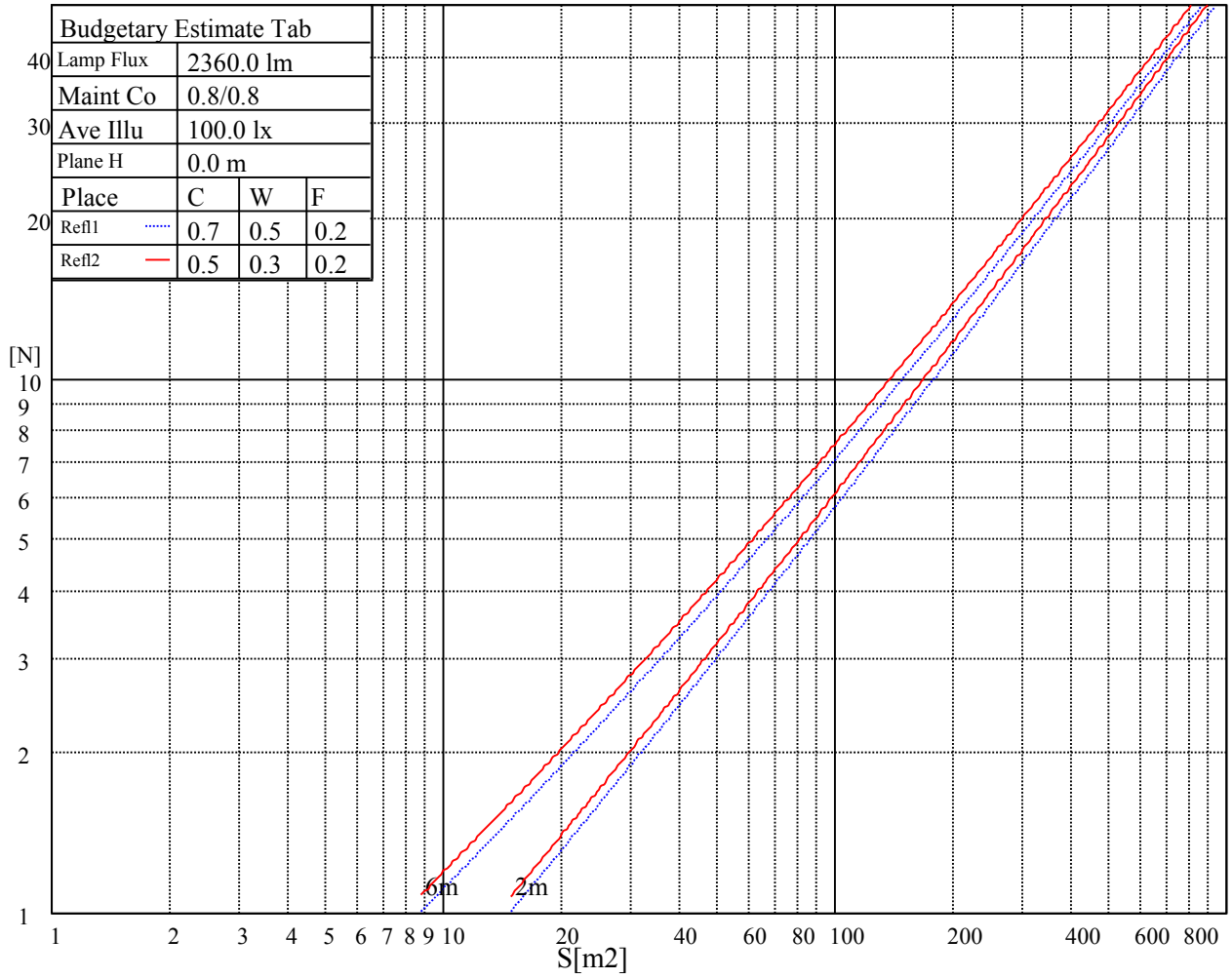
Operator: NT07
Distance(m): 7.50

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	1.66	2.57	2.02	2.88	3.20	1.72	2.64	2.09	2.95	3.26
	3H	4.66	5.47	5.05	5.80	6.17	4.69	5.49	5.07	5.83	6.20
	4H	6.35	7.10	6.76	7.45	7.84	6.37	7.12	6.78	7.47	7.86
	6H	8.28	8.96	8.70	9.34	9.74	8.30	8.99	8.72	9.36	9.76
	8H	9.36	10.00	9.80	10.39	10.80	9.38	10.02	9.82	10.41	10.82
	12H	11.11	11.72	11.55	12.10	12.54	11.13	11.74	11.57	12.13	12.56
4H	2H	2.48	3.22	2.89	3.58	3.97	2.53	3.27	2.94	3.63	4.02
	3H	5.77	6.38	6.19	6.79	7.20	5.79	6.40	6.21	6.81	7.22
	4H	7.64	8.19	8.08	8.61	9.06	7.66	8.20	8.10	8.63	9.08
	6H	9.75	10.21	10.22	10.67	11.14	9.77	10.23	10.24	10.68	11.16
	8H	10.92	11.36	11.40	11.81	12.29	10.95	11.38	11.42	11.83	12.31
	12H	12.58	12.95	13.07	13.44	13.92	12.60	12.97	13.09	13.46	13.94
8H	4H	8.36	8.79	8.84	9.25	9.72	8.37	8.81	8.85	9.26	9.73
	6H	10.74	11.08	11.25	11.59	12.08	10.75	11.10	11.26	11.60	12.09
	8H	12.11	12.41	12.65	12.94	13.43	12.12	12.43	12.66	12.95	13.45
	12H	13.90	14.16	14.43	14.66	15.24	13.92	14.18	14.44	14.68	15.26
12H	4H	8.56	8.94	9.06	9.43	9.91	8.58	8.95	9.07	9.44	9.92
	6H	11.26	11.36	11.60	11.84	12.39	11.27	11.37	11.61	11.85	12.40
	8H	12.56	12.82	13.08	13.32	13.90	12.57	12.83	13.10	13.33	13.91

Variation with the observer position at spacings:		
S = 1.0H	6.2/-7.7	6.2/-7.7
S = 1.5H	8.4/-5.7	8.4/-5.7
S = 2.0H	9.7/-4.3	9.7/-4.3
Standard tables:	BK2	BK2
Uncorrected UGR	0.0	0.0

Budgetary Estimate Table

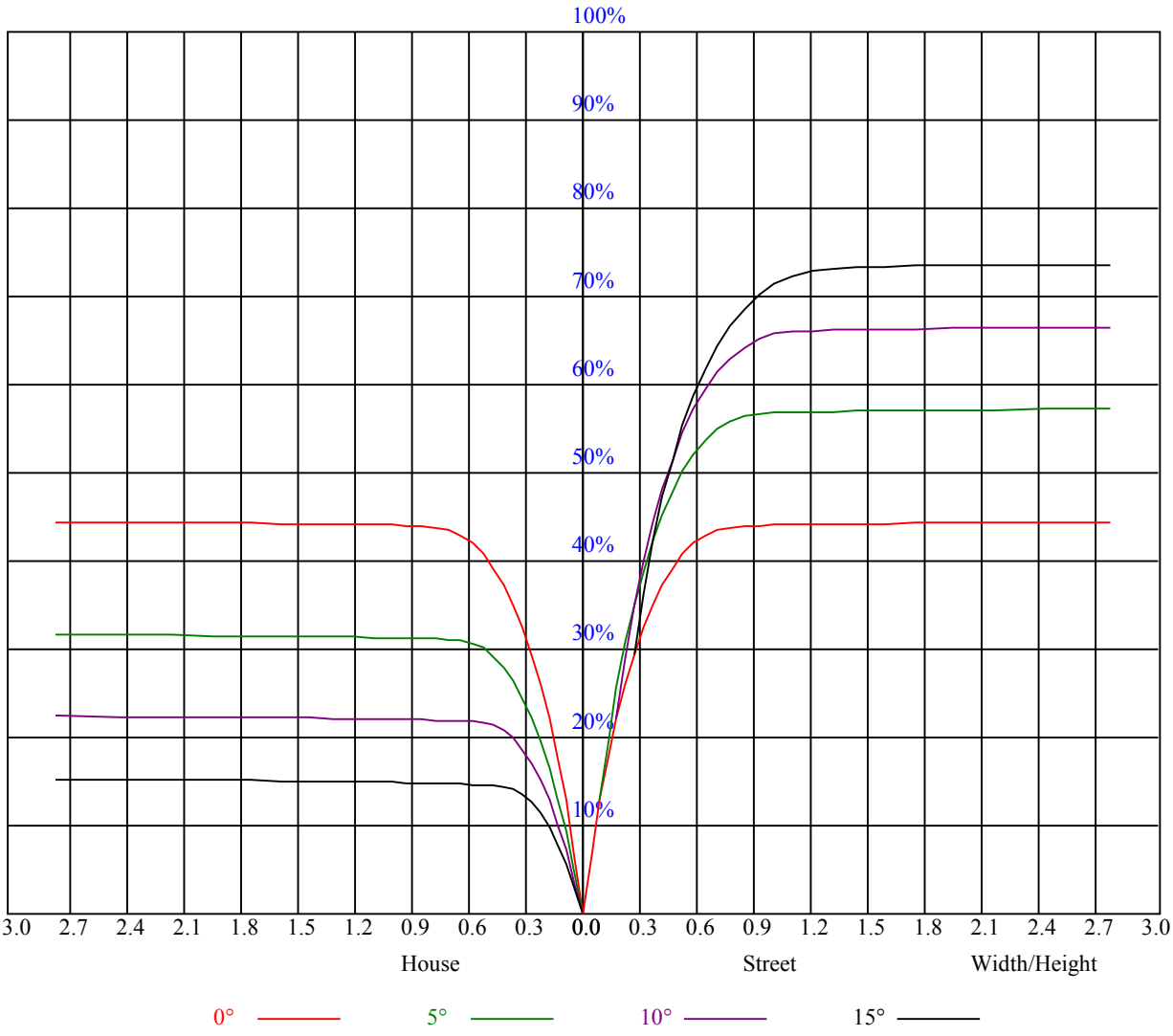


Equipment: GMS1980 Date: 2019/1/21 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.07	1.07	1.07	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.90
1	1.00	0.98	0.96	0.98	0.96	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.91	0.88	0.93	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.84	0.85	0.83	0.82	0.80
3	0.89	0.85	0.82	0.88	0.84	0.82	0.86	0.83	0.80	0.83	0.81	0.79	0.82	0.80	0.78	0.77
4	0.85	0.80	0.77	0.84	0.80	0.77	0.82	0.78	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.73
5	0.81	0.76	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
6	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
7	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.64
8	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.68	0.65	0.62	0.61
9	0.68	0.63	0.60	0.67	0.63	0.60	0.67	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	0.64	0.60	0.58	0.63	0.60	0.58	0.57

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/1/21	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	11072.81	11088.56	10747.13	10138.50	8702.44	7263.00	6249.94	4988.25	4178.81
45.0	10981.69	11172.94	10902.94	10333.69	9281.81	7895.81	6674.63	5575.50	4533.75
90.0	11139.75	11013.75	10606.50	9594.00	8456.63	7252.31	5993.44	4883.06	4124.25
135.0	11077.31	11062.13	10636.88	9913.50	8679.38	7352.44	6263.44	5141.25	4316.63
180.0	11072.81	10758.38	10072.13	8532.56	7465.50	6330.94	5313.38	4265.44	3691.13
225.0	10981.69	10441.13	9522.00	8015.06	6795.00	5684.63	4646.25	3901.50	3457.13
270.0	11139.75	10857.38	10175.63	9111.38	7678.13	6333.75	5286.38	4299.19	3714.19
315.0	11077.31	10800.56	10200.94	8817.75	7564.50	6401.81	5249.81	4267.13	3689.44
360.0	11072.81	11088.56	10747.13	10138.50	8702.44	7263.00	6249.94	4988.25	4178.81

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3639.94	3208.50	2981.25	2811.94	2646.00	2534.06	2430.00	2305.13	2207.81
45.0	3802.50	3395.81	3098.81	2919.38	2759.06	2625.19	2515.50	2395.13	2276.44
90.0	3587.63	3242.25	3030.19	2851.31	2714.63	2571.75	2434.50	2316.38	2197.13
135.0	3688.31	3298.50	3056.63	2874.38	2683.69	2549.81	2424.38	2279.25	2162.81
180.0	3273.75	3001.50	2824.88	2658.38	2531.25	2399.06	2273.63	2163.38	2052.56
225.0	3126.94	2904.19	2754.56	2611.13	2489.63	2363.06	2237.06	2122.31	2009.25
270.0	3293.44	3010.50	2831.63	2687.63	2535.75	2427.19	2323.69	2193.75	2095.31
315.0	3274.31	2999.25	2819.81	2661.19	2544.19	2426.63	2311.31	2207.81	2104.31
360.0	3639.94	3208.50	2981.25	2811.94	2646.00	2534.06	2430.00	2305.13	2207.81

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2109.94	2000.81	1889.44	1791.00	1682.44	1585.13	1478.81	1376.44	1289.25
45.0	2165.06	2070.56	1914.19	1815.75	1720.69	1584.56	1472.63	1389.38	1280.81
90.0	2044.69	1926.56	1815.75	1686.94	1586.81	1492.31	1392.19	1299.38	1220.63
135.0	2047.50	1922.06	1793.25	1697.06	1583.44	1485.00	1387.13	1297.13	1224.56
180.0	1917.00	1811.25	1709.44	1598.06	1494.00	1410.19	1330.88	1240.88	1120.39
225.0	1881.00	1779.19	1681.31	1560.94	1467.56	1382.63	1295.44	1215.56	1115.61
270.0	2002.50	1893.94	1785.38	1685.81	1576.69	1482.19	1383.19	1288.13	1207.69
315.0	1979.44	1882.69	1786.50	1671.19	1577.81	1485.56	1371.94	1285.88	1184.63
360.0	2109.94	2000.81	1889.44	1791.00	1682.44	1585.13	1478.81	1376.44	1289.25

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1194.19	1110.94	1045.13	985.50	916.88	869.63	798.75	668.25	547.31
45.0	1189.69	1125.56	1035.00	966.94	905.06	836.44	778.50	680.63	539.44
90.0	1116.68	1066.05	995.68	924.92	880.31	827.83	729.73	618.58	498.15
135.0	1147.50	1076.63	1015.31	956.25	888.19	839.81	751.50	610.88	492.19
180.0	1104.47	1033.71	965.87	908.27	849.21	752.96	644.34	513.73	393.30
225.0	1076.40	1006.31	948.77	888.86	829.24	719.21	584.61	460.13	338.57
270.0	1121.63	1043.44	981.00	927.00	863.44	791.44	683.44	542.25	419.06
315.0	1120.89	1043.49	977.96	926.49	875.42	801.79	699.08	568.41	442.58
360.0	1194.19	1110.94	1045.13	985.50	916.88	869.63	798.75	668.25	547.31

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	417.38	293.63	157.05	76.84	41.18	33.98	28.24	23.79	20.93
45.0	422.44	308.25	178.37	99.28	48.71	33.69	27.84	23.96	20.59
90.0	347.68	235.63	142.88	57.83	36.90	30.71	25.99	22.16	19.52
135.0	370.13	310.50	129.94	62.27	38.70	32.01	26.83	23.40	20.36
180.0	262.97	151.65	74.25	37.63	31.67	27.28	23.68	20.31	18.34
225.0	196.82	107.83	46.07	34.03	29.03	24.98	20.87	18.45	16.71
270.0	301.50	286.88	75.49	39.60	33.58	28.18	23.79	20.76	18.17
315.0	304.54	179.21	92.87	44.21	35.33	29.64	25.20	21.09	18.84
360.0	417.38	293.63	157.05	76.84	41.18	33.98	28.24	23.79	20.93

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	18.56	17.04	15.98	15.02	14.06	13.50	12.94	12.49	12.09
45.0	18.11	16.76	15.81	15.08	14.12	13.44	12.99	12.60	12.15
90.0	17.38	16.31	15.24	14.51	13.73	13.16	12.71	12.26	11.87
135.0	18.28	17.16	15.98	15.02	14.23	13.61	13.11	12.77	12.15
180.0	17.04	15.86	14.79	14.12	13.50	12.99	12.60	12.21	11.76
225.0	15.47	14.57	13.73	12.94	12.54	12.21	11.76	11.48	11.14
270.0	16.48	15.58	14.63	13.78	13.11	12.60	12.21	11.87	11.42
315.0	17.21	16.03	15.02	14.23	13.50	12.94	12.49	11.98	11.64
360.0	18.56	17.04	15.98	15.02	14.06	13.50	12.94	12.49	12.09

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.76	11.36	11.03	10.74	10.35	10.18	10.01	9.84	9.73
45.0	11.76	11.42	11.03	10.69	10.46	10.24	10.13	9.96	9.84
90.0	11.48	11.08	10.74	10.46	10.24	10.13	9.90	9.79	9.73
135.0	11.81	11.42	10.97	10.58	10.41	10.18	10.01	9.90	9.73
180.0	11.36	11.03	10.52	10.29	10.07	9.90	9.79	9.73	9.56
225.0	10.74	10.52	10.29	10.07	9.90	9.84	9.68	9.62	9.51
270.0	11.08	10.74	10.41	10.24	10.07	9.90	9.79	9.68	9.62
315.0	11.25	10.80	10.52	10.29	10.07	9.96	9.79	9.68	9.62
360.0	11.76	11.36	11.03	10.74	10.35	10.18	10.01	9.84	9.73

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.68	9.56	9.51	9.45	9.39	9.34	9.34	9.23	9.17
45.0	9.73	9.68	9.56	9.51	9.45	9.39	9.34	9.28	9.23
90.0	9.68	9.56	9.45	9.39	9.34	9.28	9.23	9.23	9.17
135.0	9.62	9.56	9.45	9.39	9.34	9.28	9.23	9.17	9.17
180.0	9.51	9.39	9.34	9.28	9.23	9.23	9.17	9.11	9.11
225.0	9.45	9.39	9.34	9.28	9.23	9.17	9.11	9.11	9.11
270.0	9.56	9.45	9.39	9.28	9.28	9.23	9.23	9.11	9.11
315.0	9.51	9.45	9.39	9.34	9.28	9.28	9.17	9.17	9.11
360.0	9.68	9.56	9.51	9.45	9.39	9.34	9.34	9.23	9.17

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.17	9.11	9.11	9.06	9.06	9.06	9.00	9.00	9.00
45.0	9.17	9.17	9.17	9.11	9.06	9.06	9.00	9.00	9.00
90.0	9.11	9.11	9.06	9.06	9.00	9.00	9.00	8.94	8.94
135.0	9.17	9.11	9.06	9.06	9.00	9.00	8.94	9.00	8.94
180.0	9.06	9.06	9.06	9.00	9.00	8.94	8.94	8.94	8.94
225.0	9.06	9.00	9.00	9.00	9.00	9.00	8.94	8.94	8.94
270.0	9.06	9.00	9.00	9.00	9.00	9.00	8.94	8.94	8.94
315.0	9.06	9.06	9.06	9.00	8.94	8.94	8.94	8.94	8.94
360.0	9.17	9.11	9.11	9.06	9.06	9.06	9.00	9.00	9.00

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.00	8.89	8.94	8.89	8.89	8.89	8.89	8.89	8.89
45.0	9.00	8.94	8.94	8.94	8.89	8.89	8.89	8.89	8.89
90.0	8.94	8.89	8.89	8.89	8.83	8.89	8.89	8.89	8.83
135.0	8.94	8.94	8.89	8.89	8.89	8.89	8.89	8.89	8.89
180.0	8.94	8.94	8.89	8.89	8.89	8.89	8.89	8.89	8.83
225.0	8.94	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.83
270.0	8.94	8.89	8.89	8.89	8.89	8.89	8.89	8.89	8.89
315.0	8.94	8.89	8.94	8.89	8.89	8.89	8.83	8.83	8.83
360.0	9.00	8.89	8.94	8.89	8.89	8.89	8.89	8.89	8.89

Intensity data(cd)

C/γ(°)	90.0
0.0	8.89
45.0	8.89
90.0	8.83
135.0	8.83
180.0	8.83
225.0	8.89
270.0	8.89
315.0	8.83
360.0	8.89