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

NATA

LumCAT: 3-1566-M
Luminaire: BJB 47.319.2135

Report No: NATA0100	Voltage(V): 36.7600
Test No: GC2019012101	Current(A): 0.5000
LampCAT: PHILIPS Certaflux slm 1205	Power (W): 18.3800
Lamp flux(lm): 2360.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 70	Width(mm): 70
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2145.23
Efficiency(%): 90.90%
Lumens(lm)/Power(W): 116.82
Central intensity(cd): 8551.547
Maximum intensity(cd): 8551.547
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=14.5
[C90/270]Total=14.5
Field angle(10%Imax): [C0/180]Total=66.5
[C90/270]Total=66.5
Maximum s/h(1/2): C0_180=0.25 C90_270=0.25
Maximum s/h(1/4): C0_180=0.35 C90_270=0.35
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.98%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.634%

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	8551.547	2.046	2.046	.087%	.095%
1.0	8463.234	16.197	18.243	.686%	.850%
2.0	8232.117	31.505	49.748	1.335%	2.319%
3.0	7786.055	44.686	94.434	1.893%	4.402%
4.0	7050.938	53.937	148.371	2.285%	6.916%
5.0	6229.055	59.535	207.905	2.523%	9.692%
6.0	5304.305	60.802	268.707	2.576%	12.526%
7.0	4447.688	59.440	328.147	2.519%	15.297%
8.0	3796.313	57.939	386.086	2.455%	17.997%
9.0	3251.250	55.774	441.86	2.363%	20.597%
10.0	2934.563	55.881	497.741	2.368%	23.202%
11.0	2727.984	57.081	554.823	2.419%	25.863%
12.0	2578.570	58.791	613.613	2.491%	28.604%
13.0	2454.328	60.544	674.158	2.565%	31.426%
14.0	2344.641	62.202	736.359	2.636%	34.325%
15.0	2231.016	63.321	799.681	2.683%	37.277%
16.0	2119.500	64.065	863.746	2.715%	40.264%
17.0	2007.000	64.348	928.094	2.727%	43.263%
18.0	1887.258	63.954	992.048	2.710%	46.244%
19.0	1779.750	63.541	1055.589	2.692%	49.206%
20.0	1682.297	63.097	1118.685	2.674%	52.148%
21.0	1584.070	62.252	1180.937	2.638%	55.049%
22.0	1498.500	61.558	1242.495	2.608%	57.919%
23.0	1422.422	60.948	1303.443	2.583%	60.760%
24.0	1349.086	60.173	1363.617	2.550%	63.565%
25.0	1283.625	59.489	1423.106	2.521%	66.338%
26.0	1222.523	58.769	1481.875	2.490%	69.078%
27.0	1160.494	57.775	1539.65	2.448%	71.771%
28.0	1106.388	56.960	1596.61	2.414%	74.426%
29.0	1056.298	56.158	1652.768	2.380%	77.044%
30.0	1007.430	55.238	1708.006	2.341%	79.619%
31.0	962.030	54.335	1762.341	2.302%	82.152%
32.0	920.299	53.480	1815.821	2.266%	84.644%
33.0	873.056	52.144	1867.964	2.209%	87.075%
34.0	800.241	49.072	1917.036	2.079%	89.363%
35.0	699.652	44.007	1961.044	1.865%	91.414%
36.0	593.958	38.285	1999.328	1.622%	93.199%
37.0	484.805	31.995	2031.323	1.356%	94.690%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	367.594	24.818	2056.141	1.052%	95.847%
39.0	276.638	19.091	2075.232	.809%	96.737%
40.0	172.737	12.176	2087.408	.516%	97.305%
41.0	92.391	6.647	2094.055	.282%	97.614%
42.0	45.605	3.346	2097.402	.142%	97.770%
43.0	29.693	2.221	2099.622	.094%	97.874%
44.0	24.975	1.903	2101.525	.081%	97.963%
45.0	21.621	1.677	2103.201	.071%	98.041%
46.0	18.619	1.469	2104.67	.062%	98.109%
47.0	16.045	1.287	2105.957	.055%	98.169%
48.0	14.147	1.153	2107.11	.049%	98.223%
49.0	12.572	1.040	2108.15	.044%	98.271%
50.0	11.510	0.967	2109.117	.041%	98.317%
51.0	10.856	0.925	2110.042	.039%	98.360%
52.0	10.329	0.893	2110.935	.038%	98.401%
53.0	9.921	0.869	2111.804	.037%	98.442%
54.0	9.745	0.865	2112.668	.037%	98.482%
55.0	9.633	0.865	2113.534	.037%	98.522%
56.0	9.478	0.862	2114.395	.037%	98.563%
57.0	9.373	0.862	2115.257	.037%	98.603%
58.0	9.288	0.864	2116.121	.037%	98.643%
59.0	9.225	0.867	2116.988	.037%	98.683%
60.0	9.148	0.869	2117.857	.037%	98.724%
61.0	9.091	0.872	2118.729	.037%	98.765%
62.0	9.049	0.876	2119.605	.037%	98.805%
63.0	9.014	0.881	2120.486	.037%	98.846%
64.0	8.986	0.886	2121.372	.038%	98.888%
65.0	8.958	0.890	2122.262	.038%	98.929%
66.0	8.937	0.895	2123.157	.038%	98.971%
67.0	8.909	0.899	2124.057	.038%	99.013%
68.0	8.880	0.903	2124.959	.038%	99.055%
69.0	8.873	0.908	2125.868	.038%	99.097%
70.0	8.866	0.914	2126.782	.039%	99.140%
71.0	8.852	0.918	2127.699	.039%	99.183%
72.0	8.838	0.922	2128.621	.039%	99.226%
73.0	8.838	0.927	2129.548	.039%	99.269%
74.0	8.824	0.930	2130.478	.039%	99.312%
75.0	8.817	0.934	2131.412	.040%	99.356%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.803	0.937	2132.349	.040%	99.399%
77.0	8.803	0.941	2133.29	.040%	99.443%
78.0	8.796	0.944	2134.233	.040%	99.487%
79.0	8.789	0.946	2135.179	.040%	99.531%
80.0	8.796	0.950	2136.129	.040%	99.576%
81.0	8.789	0.952	2137.081	.040%	99.620%
82.0	8.796	0.955	2138.036	.040%	99.665%
83.0	8.775	0.955	2138.991	.040%	99.709%
84.0	8.775	0.957	2139.948	.041%	99.754%
85.0	8.782	0.959	2140.908	.041%	99.798%
86.0	8.768	0.959	2141.867	.041%	99.843%
87.0	8.775	0.961	2142.828	.041%	99.888%
88.0	8.775	0.962	2143.79	.041%	99.933%
89.0	8.775	0.962	2144.752	.041%	99.978%
90.0	8.754	0.480	2145.232	.020%	100.000%

Zonal flux distribution table

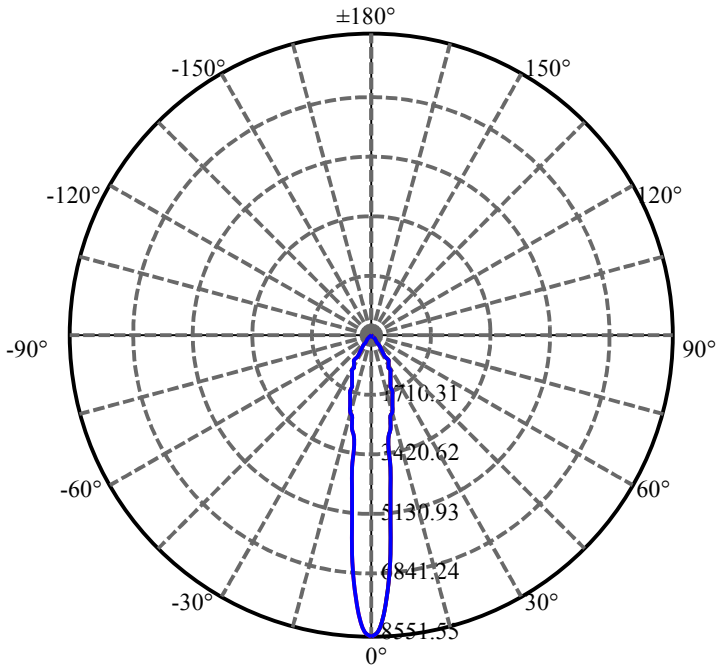
ZONAL LUMEN SUMMARY

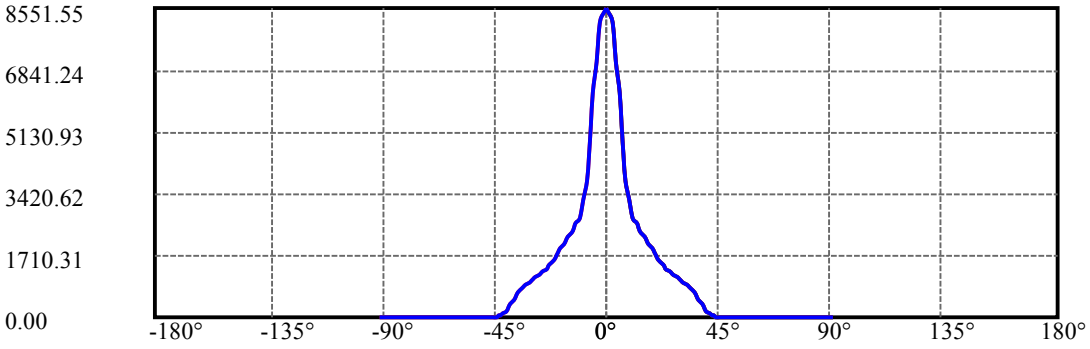
Zone	Lumens	%Lamp	%Fixt
0-30	1708.01	72.37%	79.62%
0-40	2087.41	88.45%	97.30%
0-60	2117.86	89.74%	98.72%
0-90	2144.75	90.88%	99.98%
0-120	2144.75	90.88%	99.98%
0-180	2145.23	90.90%	100.00%
60-90	27.76	1.18%	1.29%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-30.15	1716.19	72.72%	80.00%

ZONAL LUMEN SUMMARY

0-10	497.74
10-20	620.94
20-30	589.32
30-40	379.40
40-50	21.71
50-60	8.74
60-70	8.92
70-80	9.35
80-90	8.62
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):

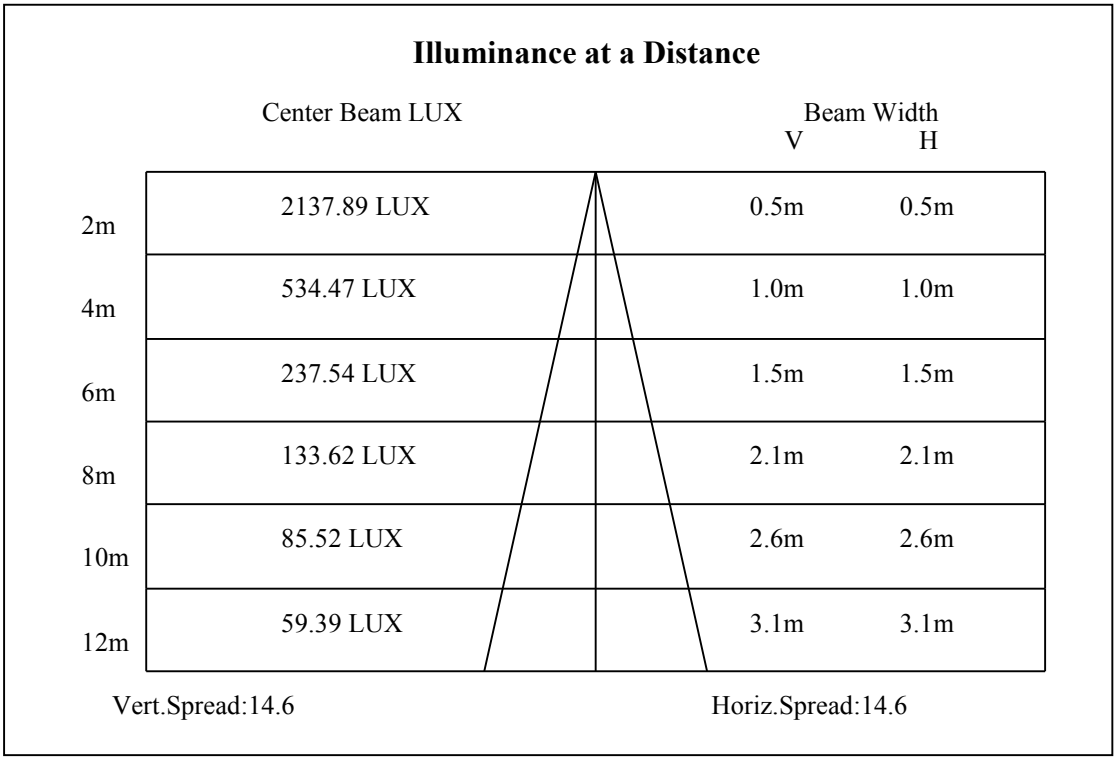
C0/C180:

C90/C270:

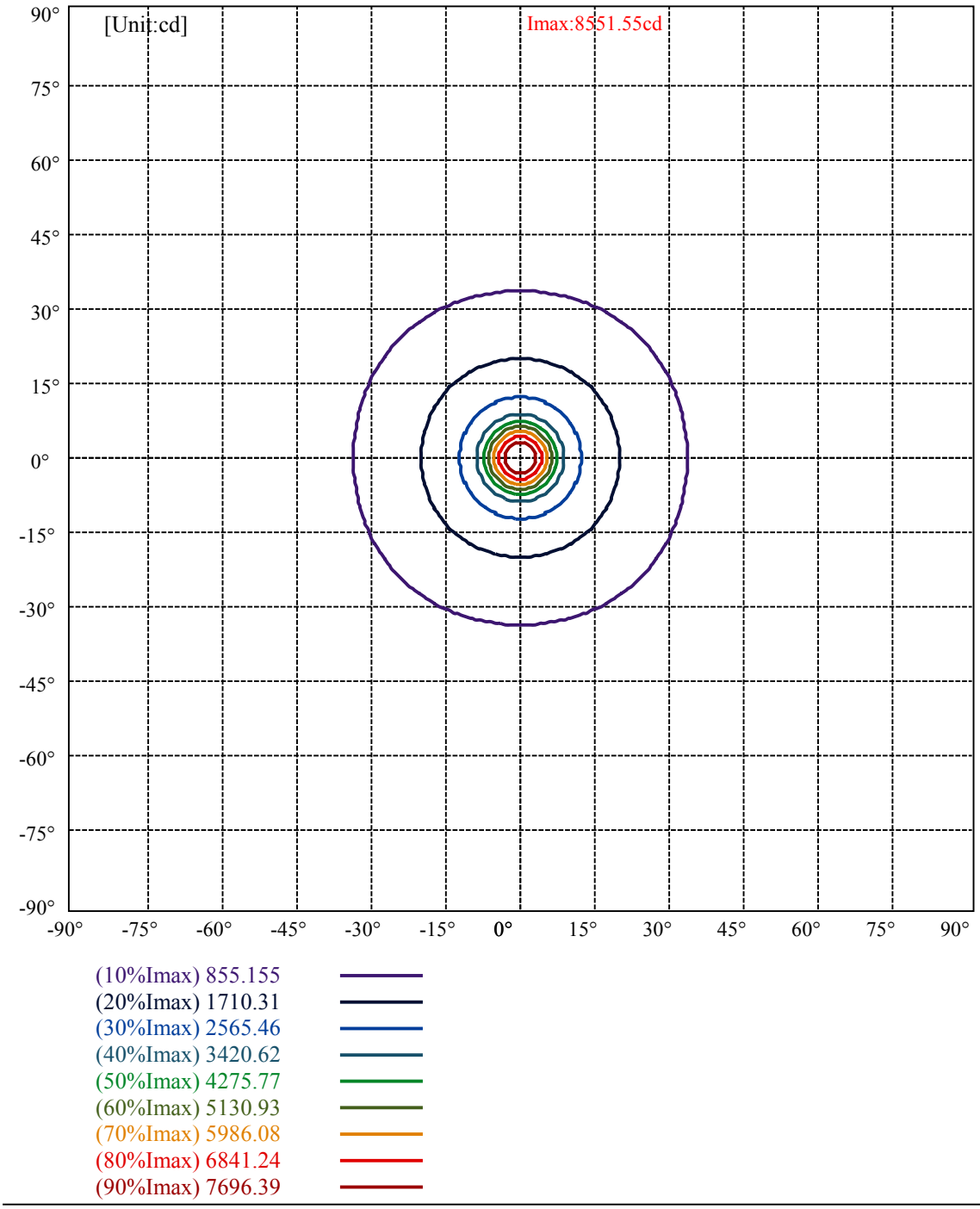
Field angle(10%Imax):C0/180Left:33.2 Right:33.2
:C90/270Left:33.2 Right:33.2

Beam Angle(50%Imax):C0/180Left:7.3 Right:7.3
:C90/270Left:7.3 Right:7.3

Lux distance Curve



ISO-Intensity(V-H)

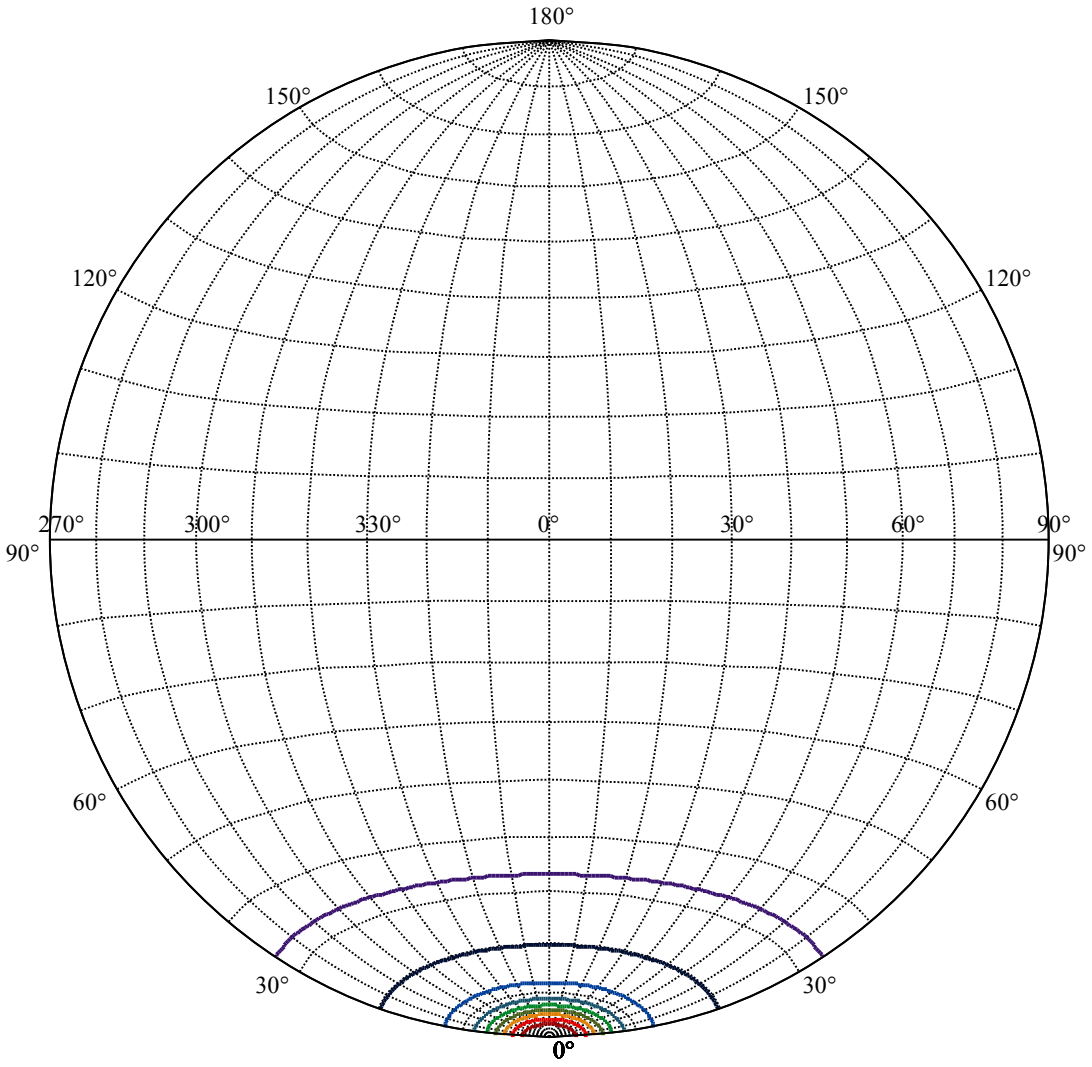


Equipment: GMS1980
Temperature(°C): 10.0

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

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:8551.55

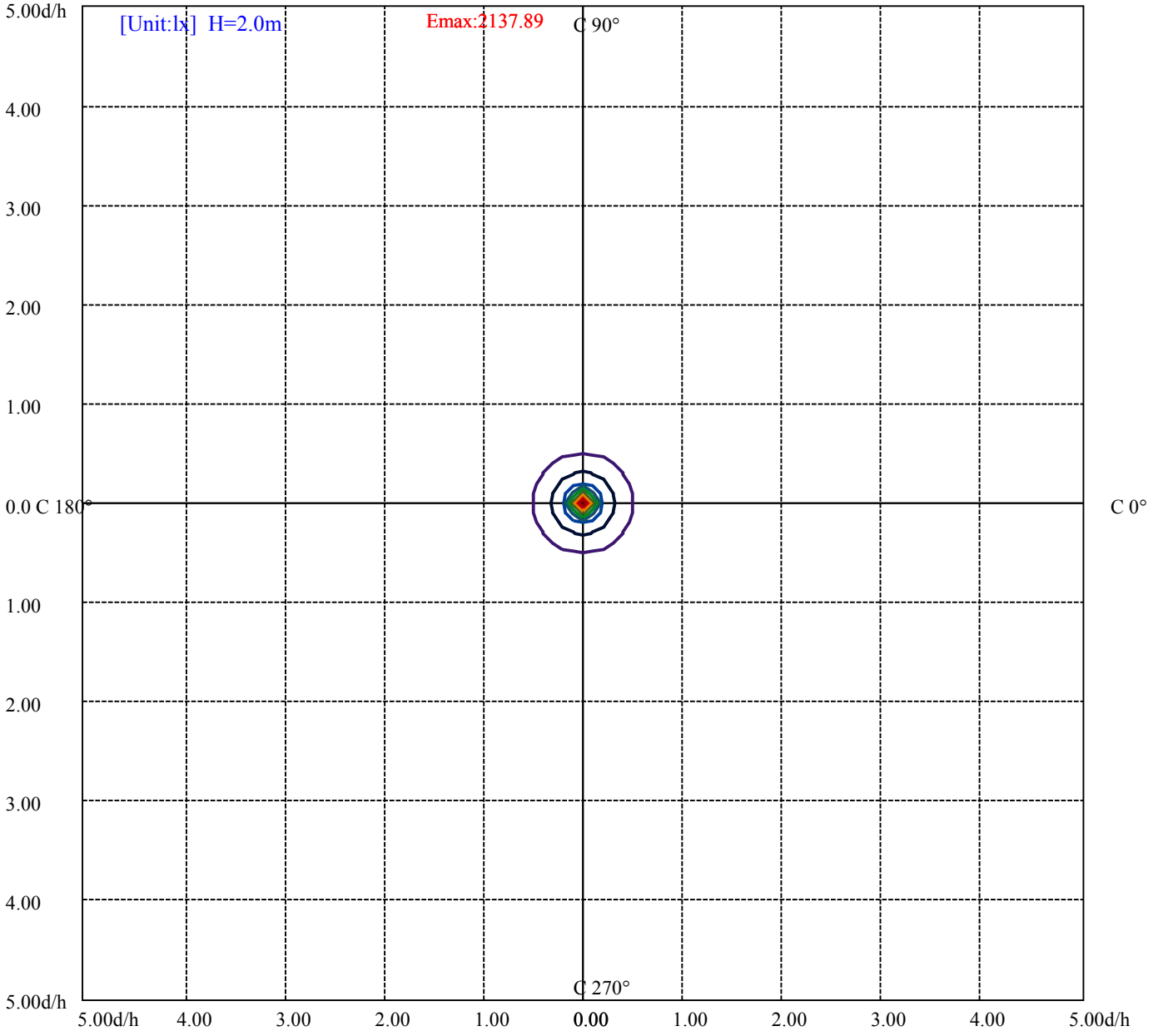
(10%Imax) 855.155
(20%Imax) 1710.31
(30%Imax) 2565.46
(40%Imax) 3420.62
(50%Imax) 4275.77
(60%Imax) 5130.93
(70%Imax) 5986.08
(80%Imax) 6841.24
(90%Imax) 7696.39

Equipment: GMS1980
Temperature(°C): 10.0

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

Operator: NT07
Distance(m): 7.50

ISO illuminance diagram

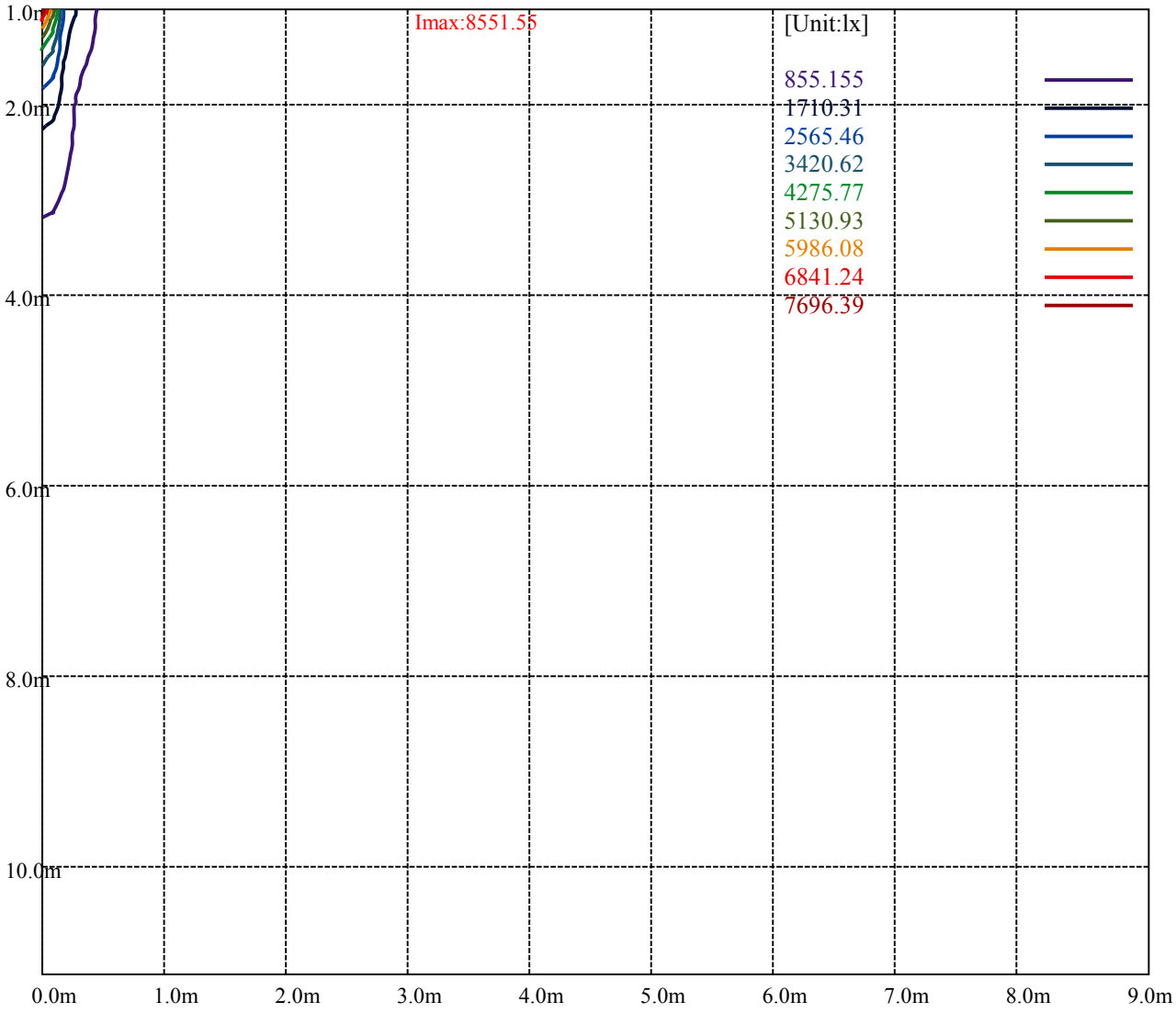


Equipment: GMS1980
Temperature(°C): 10.0

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 3-1566-M

Luminance Limitting Curve(no luminous side)

Luminance Table

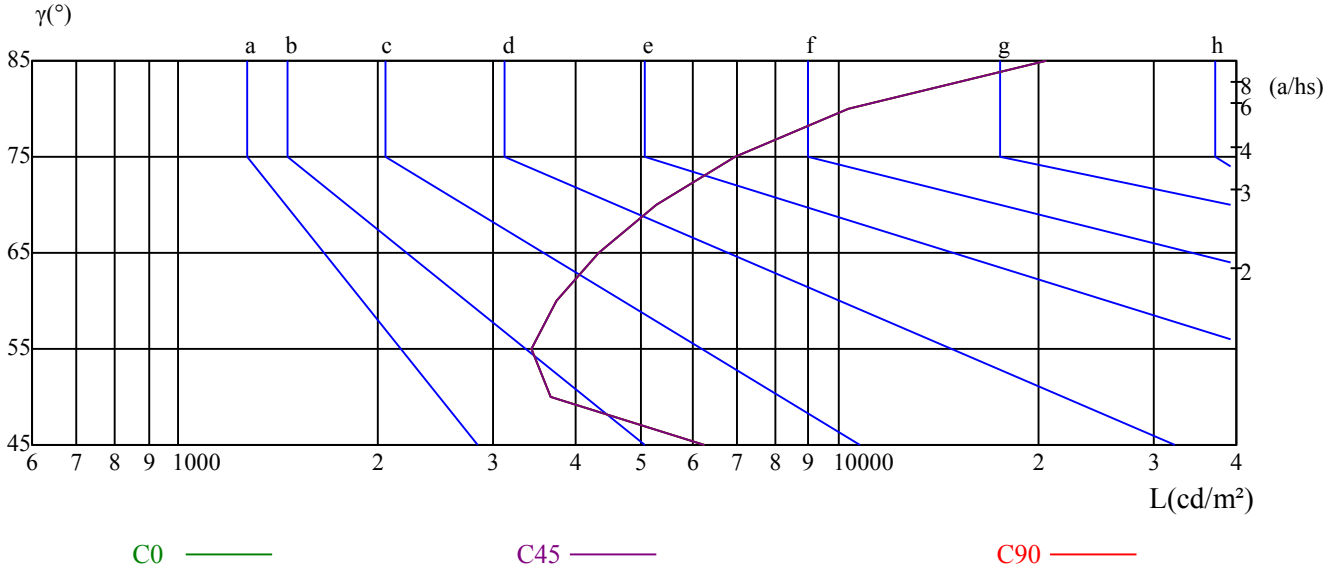
γ	45	50	55	60	65	70	75	80	85
C0	6240	3654	3427	3734	4326	5291	6952	10338	20564
C45	6240	3654	3427	3734	4326	5291	6952	10338	20564
C90	6240	3654	3427	3734	4326	5291	6952	10338	20564

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4326	4326	4326	6952	6952	6952	20564	20564	20564

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

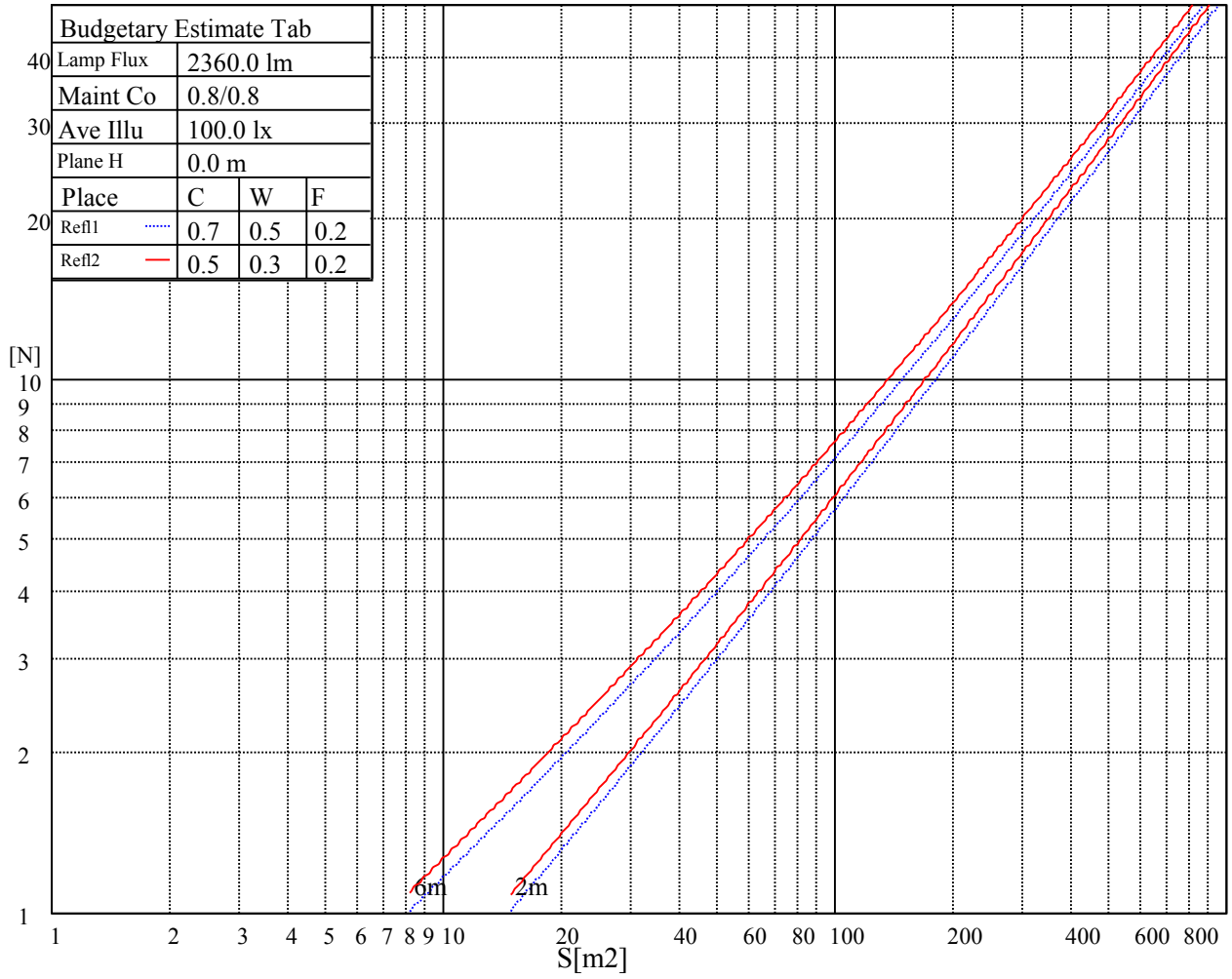
Illumination assessment according UGR

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	2.28	3.19	2.64	3.50	3.82	2.28	3.20	2.65	3.51	3.82
	3H	5.55	6.35	5.93	6.69	7.06	5.53	6.34	5.92	6.67	7.04
	4H	7.34	8.09	7.75	8.44	8.83	7.33	8.08	7.74	8.43	8.82
	6H	9.36	10.04	9.78	10.42	10.82	9.36	10.04	9.78	10.42	10.82
	8H	10.48	11.12	10.92	11.51	11.92	10.48	11.12	10.92	11.51	11.92
	12H	12.28	12.89	12.72	13.27	13.71	12.28	12.89	12.72	13.27	13.71
4H	2H	3.19	3.94	3.60	4.29	4.68	3.20	3.94	3.61	4.30	4.69
	3H	6.71	7.32	7.13	7.73	8.14	6.69	7.30	7.11	7.71	8.12
	4H	8.67	9.22	9.11	9.64	10.09	8.66	9.21	9.10	9.64	10.08
	6H	10.86	11.32	11.33	11.78	12.25	10.86	11.32	11.33	11.77	12.25
	8H	12.07	12.50	12.55	12.96	13.43	12.07	12.50	12.55	12.95	13.43
	12H	13.76	14.13	14.25	14.62	15.10	13.76	14.13	14.25	14.62	15.10
8H	4H	9.41	9.85	9.89	10.30	10.78	9.41	9.84	9.89	10.30	10.77
	6H	11.87	12.21	12.38	12.72	13.20	11.87	12.21	12.38	12.72	13.20
	8H	13.27	13.57	13.81	14.10	14.59	13.27	13.57	13.81	14.10	14.60
	12H	15.09	15.35	15.62	15.85	16.43	15.09	15.35	15.62	15.85	16.43
12H	4H	9.63	10.00	10.12	10.49	10.97	9.63	10.00	10.12	10.49	10.97
	6H	12.39	12.50	12.73	12.97	13.52	12.39	12.50	12.73	12.97	13.52
	8H	13.73	13.98	14.25	14.48	15.07	13.73	13.99	14.25	14.48	15.07

Variation with the observer position at spacings:

S = 1.0H	5.6/-9.6	5.6/-9.6
S = 1.5H	8.1/-7.4	8.1/-7.4
S = 2.0H	9.6/-5.7	9.6/-5.7
Standard tables:	BK1	BK1
Uncorrected UGR	2.5	2.5

Budgetary Estimate Table

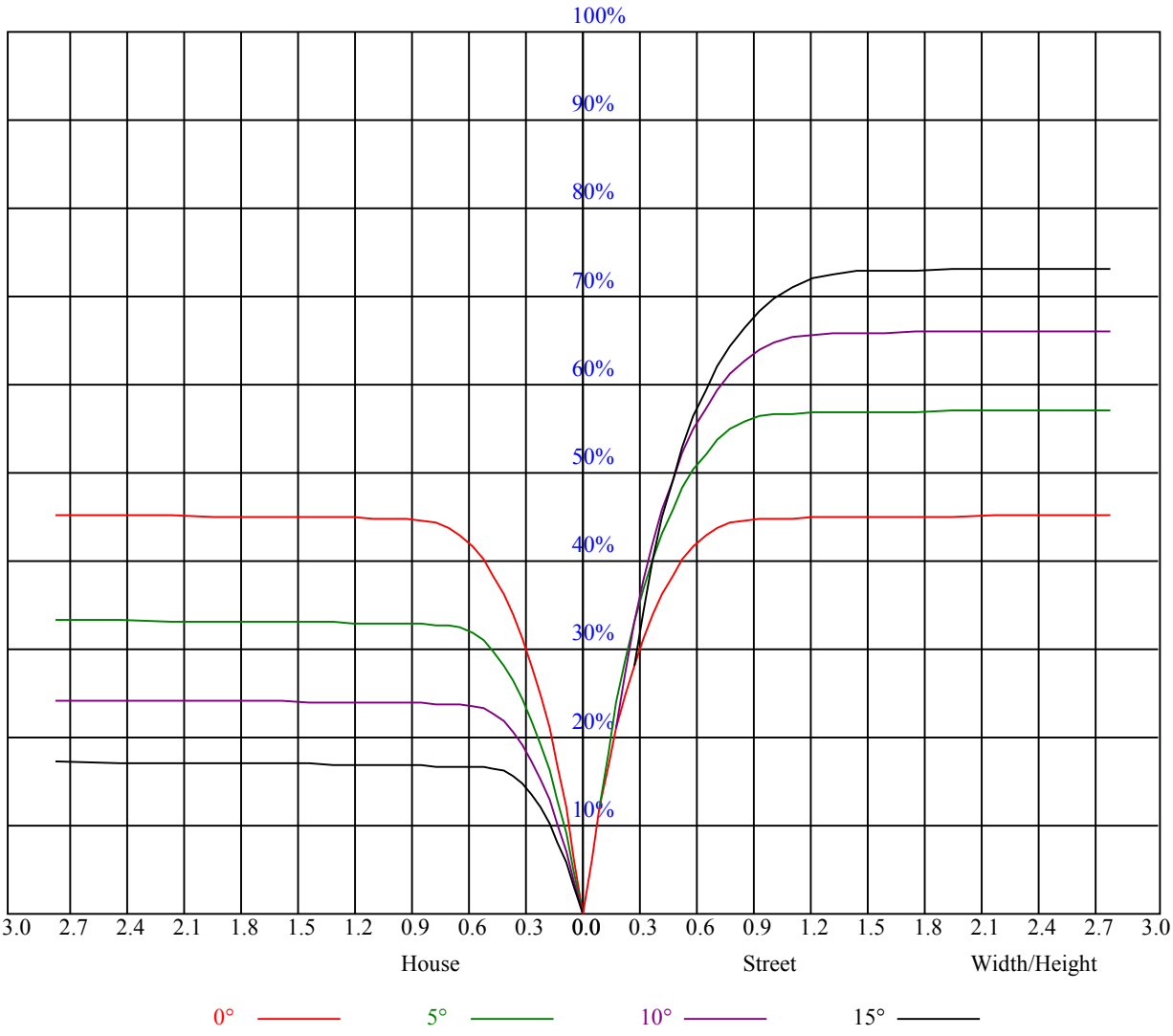


Equipment: GMS1980 Date: 2019/1/21 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.08	1.08	1.08	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.01	0.99	0.97	0.99	0.97	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86
2	0.95	0.92	0.89	0.94	0.91	0.88	0.91	0.88	0.86	0.88	0.86	0.84	0.85	0.84	0.82	0.81
3	0.90	0.86	0.82	0.88	0.85	0.82	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.77
4	0.85	0.80	0.77	0.84	0.80	0.76	0.82	0.78	0.76	0.80	0.77	0.75	0.79	0.76	0.74	0.73
5	0.80	0.76	0.72	0.80	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.72	0.70	0.69
6	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
7	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.62
8	0.70	0.65	0.62	0.69	0.65	0.61	0.68	0.64	0.61	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	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.57
10	0.64	0.59	0.56	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55

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	8562.38	8434.13	8139.38	7636.50	6695.44	5805.00	4965.75	4090.50	3548.81
45.0	8566.88	8453.81	8178.19	7704.56	6829.88	5969.25	5119.31	4265.44	3597.19
90.0	8555.06	8412.75	8168.63	7678.13	6793.88	6028.88	5160.38	4204.69	3588.75
135.0	8521.88	8551.13	8419.50	8148.94	7660.13	6967.13	5996.81	5106.94	4321.13
180.0	8562.38	8537.06	8363.25	8001.56	7492.50	6753.38	5639.06	4777.88	4030.31
225.0	8566.88	8503.88	8324.44	7949.81	7318.69	6505.88	5524.88	4698.56	3919.50
270.0	8555.06	8494.88	8314.31	7903.13	7288.88	6357.94	5376.94	4595.63	4003.31
315.0	8521.88	8318.25	7949.25	7265.81	6328.13	5445.00	4651.31	3841.88	3361.50
360.0	8562.38	8434.13	8139.38	7636.50	6695.44	5805.00	4965.75	4090.50	3548.81

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3161.81	2858.06	2706.75	2583.56	2433.94	2326.50	2224.13	2102.63	1980.00
45.0	3170.25	2896.31	2687.63	2567.25	2438.44	2332.69	2221.88	2118.94	1998.56
90.0	3147.75	2840.06	2656.69	2536.88	2410.88	2293.31	2192.06	2073.38	1964.81
135.0	3538.13	3148.88	2828.81	2624.06	2507.06	2398.50	2283.19	2168.44	2079.56
180.0	3319.31	2948.63	2723.06	2561.63	2437.88	2333.81	2216.81	2113.31	1996.88
225.0	3328.31	2981.25	2768.63	2595.94	2487.94	2382.75	2247.75	2140.88	2033.44
270.0	3309.75	2994.75	2794.50	2619.00	2507.06	2394.00	2268.56	2153.25	2045.25
315.0	3034.69	2808.56	2657.81	2540.25	2411.44	2295.56	2193.75	2085.19	1957.50
360.0	3161.81	2858.06	2706.75	2583.56	2433.94	2326.50	2224.13	2102.63	1980.00

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1874.81	1763.44	1671.19	1574.44	1485.00	1415.25	1340.44	1270.69	1209.38
45.0	1894.50	1780.31	1676.25	1582.88	1491.75	1407.94	1338.75	1272.94	1195.31
90.0	1842.75	1730.25	1639.13	1554.75	1455.75	1383.19	1320.19	1247.63	1191.94
135.0	1947.38	1845.56	1749.38	1630.13	1550.81	1459.13	1380.94	1319.06	1261.69
180.0	1881.56	1782.00	1680.19	1584.56	1507.50	1437.75	1355.06	1294.88	1239.75
225.0	1897.88	1792.13	1698.19	1591.31	1523.25	1442.25	1368.00	1308.38	1245.38
270.0	1923.75	1819.13	1711.13	1609.88	1526.63	1445.63	1371.94	1310.06	1247.63
315.0	1835.44	1725.19	1632.94	1544.63	1447.31	1388.25	1317.38	1245.38	1189.13
360.0	1874.81	1763.44	1671.19	1574.44	1485.00	1415.25	1340.44	1270.69	1209.38

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1149.19	1085.63	1038.94	993.94	947.25	906.19	862.88	773.44	667.69
45.0	1138.50	1085.06	1020.38	972.00	927.00	878.63	822.38	742.50	639.00
90.0	1120.44	1082.98	1024.26	980.55	939.26	893.53	856.01	777.99	669.83
135.0	1198.69	1139.63	1089.56	1035.56	986.63	950.06	902.25	849.94	767.81
180.0	1188.56	1122.36	1073.36	1026.73	974.64	935.16	896.51	829.29	735.36
225.0	1185.75	1118.98	1084.39	1029.32	989.16	951.41	904.05	847.01	738.68
270.0	1182.38	1130.63	1087.88	1031.63	981.56	939.94	896.63	825.75	735.75
315.0	1120.44	1085.85	1031.63	989.72	950.74	907.48	843.75	756.00	643.11
360.0	1149.19	1085.63	1038.94	993.94	947.25	906.19	862.88	773.44	667.69

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	565.88	441.56	329.06	289.13	130.89	63.56	34.99	27.34	23.29
45.0	542.81	428.06	313.31	288.00	133.76	68.29	35.55	27.79	22.67
90.0	556.71	459.79	344.14	244.24	151.65	75.88	40.44	28.13	23.96
135.0	659.25	555.19	440.44	326.25	289.69	145.58	67.95	35.72	27.84
180.0	638.94	523.46	415.80	297.23	195.69	122.06	58.33	30.15	26.04
225.0	638.10	533.53	407.87	285.92	192.43	108.06	52.31	31.33	26.89
270.0	626.63	519.75	393.75	289.13	180.23	106.71	43.99	30.54	26.49
315.0	523.35	417.09	296.38	193.22	107.55	48.99	31.28	26.55	22.61
360.0	565.88	441.56	329.06	289.13	130.89	63.56	34.99	27.34	23.29

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	20.31	17.38	15.02	13.39	12.09	11.08	10.52	10.13	9.90
45.0	19.80	17.33	14.85	13.16	12.09	11.31	10.74	10.29	9.84
90.0	20.98	18.34	15.58	13.78	12.32	11.36	10.69	10.18	9.90
135.0	23.23	20.14	17.55	15.19	13.28	12.09	11.25	10.63	10.07
180.0	22.89	19.29	16.88	14.85	12.88	11.81	11.14	10.46	10.01
225.0	23.40	19.97	17.04	14.96	13.28	11.81	11.14	10.52	10.01
270.0	22.73	19.52	17.04	14.96	12.88	11.76	11.08	10.46	9.96
315.0	19.63	16.99	14.40	12.88	11.76	10.86	10.29	9.96	9.68
360.0	20.31	17.38	15.02	13.39	12.09	11.08	10.52	10.13	9.90

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	9.68	9.62	9.45	9.34	9.28	9.23	9.11	9.11	9.06
45.0	9.73	9.62	9.45	9.39	9.28	9.23	9.17	9.11	9.06
90.0	9.73	9.62	9.45	9.34	9.28	9.23	9.11	9.11	9.00
135.0	9.84	9.73	9.56	9.45	9.34	9.28	9.23	9.11	9.11
180.0	9.84	9.73	9.56	9.45	9.34	9.28	9.23	9.11	9.11
225.0	9.79	9.68	9.51	9.39	9.34	9.23	9.17	9.11	9.06
270.0	9.79	9.62	9.51	9.34	9.28	9.23	9.11	9.06	9.00
315.0	9.56	9.45	9.34	9.28	9.17	9.11	9.06	9.00	9.00
360.0	9.68	9.62	9.45	9.34	9.28	9.23	9.11	9.11	9.06

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.00	9.00	8.94	8.94	8.89	8.89	8.89	8.83	8.83
45.0	9.06	9.00	9.00	9.00	8.94	8.89	8.89	8.89	8.89
90.0	9.00	9.00	8.94	8.89	8.89	8.83	8.89	8.89	8.83
135.0	9.06	9.00	9.00	8.94	8.94	8.94	8.89	8.89	8.89
180.0	9.06	9.00	9.00	9.00	8.94	8.89	8.89	8.83	8.89
225.0	9.00	9.00	8.94	8.94	8.89	8.89	8.89	8.89	8.83
270.0	9.00	8.94	8.94	8.89	8.89	8.89	8.83	8.89	8.83
315.0	8.94	8.94	8.89	8.89	8.89	8.83	8.83	8.83	8.83
360.0	9.00	9.00	8.94	8.94	8.89	8.89	8.89	8.83	8.83

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.83	8.83	8.83	8.83	8.78	8.83	8.83	8.78	8.78
45.0	8.89	8.89	8.83	8.83	8.83	8.83	8.83	8.83	8.78
90.0	8.83	8.83	8.83	8.78	8.83	8.78	8.78	8.78	8.78
135.0	8.83	8.83	8.83	8.83	8.83	8.83	8.78	8.78	8.83
180.0	8.83	8.83	8.83	8.83	8.78	8.78	8.78	8.78	8.83
225.0	8.83	8.83	8.83	8.83	8.83	8.83	8.83	8.78	8.78
270.0	8.83	8.83	8.83	8.83	8.78	8.78	8.78	8.78	8.83
315.0	8.83	8.83	8.78	8.78	8.78	8.78	8.78	8.83	8.78
360.0	8.83	8.83	8.83	8.83	8.78	8.83	8.83	8.78	8.78

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.83	8.78	8.78	8.78	8.78	8.78	8.78	8.78	8.78
45.0	8.83	8.83	8.78	8.78	8.83	8.78	8.78	8.78	8.78
90.0	8.78	8.78	8.78	8.78	8.78	8.78	8.78	8.78	8.78
135.0	8.78	8.78	8.78	8.78	8.78	8.78	8.78	8.78	8.78
180.0	8.78	8.83	8.78	8.78	8.78	8.72	8.78	8.78	8.78
225.0	8.78	8.83	8.78	8.78	8.83	8.78	8.78	8.78	8.78
270.0	8.78	8.78	8.78	8.78	8.78	8.78	8.78	8.78	8.78
315.0	8.78	8.78	8.78	8.78	8.72	8.78	8.78	8.78	8.78
360.0	8.83	8.78	8.78	8.78	8.78	8.78	8.78	8.78	8.78

Intensity data(cd)

C/γ(°)	90.0
0.0	8.78
45.0	8.78
90.0	8.78
135.0	8.72
180.0	8.72
225.0	8.78
270.0	8.78
315.0	8.72
360.0	8.78