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

Nata

LumCAT: 4-2219-A
Luminaire: BJB47.319.2030
Report No: NT2017092001
Test No: GC2017092001
LampCAT: Bridgelux V22B
Lamp flux(lm): 5885.0
Number of Lamps: 1
Length(mm): 100
Phm Type: C

Voltage(V): 50.8000
Current(A): 0.8000
Power (W): 40.6400
PF: 0.0000
Ballast type: DC
Width(mm): 100
Height(mm): 0

Photometric Results

Lumens(lm): 5266.99
Efficiency(%): 89.50%
Lumens(lm)/Power(W): 129.60
Central intensity(cd): 14869.360
Maximum intensity(cd): 14869.360
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=20.7
[C90/270]Total=20.7
Field angle(10%Imax): [C0/180]Total=69.4
[C90/270]Total=69.4
Maximum s/h(1/2): C0_180=0.35 C90_270=0.35
Maximum s/h(1/4): C0_180=0.51 C90_270=0.51
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.56%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.594%

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2017/9/20
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.42

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	14869.357	3.557	3.557	.060%	.068%
1.0	14788.837	28.304	31.861	.481%	.605%
2.0	14551.407	55.690	87.551	.946%	1.662%
3.0	14158.441	81.258	168.809	1.381%	3.205%
4.0	13628.524	104.252	273.061	1.771%	5.184%
5.0	12964.406	123.908	396.969	2.105%	7.537%
6.0	11858.254	135.927	532.897	2.310%	10.118%
7.0	10837.921	144.841	677.738	2.461%	12.868%
8.0	9821.442	149.893	827.631	2.547%	15.714%
9.0	8666.015	148.663	976.295	2.526%	18.536%
10.0	7677.890	146.206	1122.5	2.484%	21.312%
11.0	6967.800	145.796	1268.296	2.477%	24.080%
12.0	6448.412	147.022	1415.319	2.498%	26.871%
13.0	6043.197	149.076	1564.394	2.533%	29.702%
14.0	5750.228	152.550	1716.944	2.592%	32.598%
15.0	5487.334	155.743	1872.688	2.646%	35.555%
16.0	5254.996	158.841	2031.528	2.699%	38.571%
17.0	5005.384	160.481	2192.01	2.727%	41.618%
18.0	4793.004	162.421	2354.431	2.760%	44.702%
19.0	4597.209	164.130	2518.561	2.789%	47.818%
20.0	4396.047	164.879	2683.44	2.802%	50.948%
21.0	4211.402	165.504	2848.943	2.812%	54.091%
22.0	4049.123	166.337	3015.28	2.826%	57.249%
23.0	3889.046	166.638	3181.918	2.832%	60.412%
24.0	3718.509	165.857	3347.775	2.818%	63.561%
25.0	3557.882	164.889	3512.664	2.802%	66.692%
26.0	3389.547	162.943	3675.606	2.769%	69.786%
27.0	3224.585	160.536	3836.142	2.728%	72.834%
28.0	3044.550	156.742	3992.884	2.663%	75.810%
29.0	2877.729	152.993	4145.877	2.600%	78.714%
30.0	2736.922	150.067	4295.944	2.550%	81.564%
31.0	2501.694	141.294	4437.239	2.401%	84.246%
32.0	2220.493	129.036	4566.275	2.193%	86.696%
33.0	1964.963	117.359	4683.633	1.994%	88.924%
34.0	1722.577	105.631	4789.264	1.795%	90.930%
35.0	1395.590	87.781	4877.045	1.492%	92.596%
36.0	1152.310	74.274	4951.32	1.262%	94.007%
37.0	961.195	63.435	5014.755	1.078%	95.211%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	730.777	49.338	5064.092	.838%	96.148%
39.0	489.149	33.757	5097.849	.574%	96.789%
40.0	324.344	22.863	5120.712	.388%	97.223%
41.0	195.216	14.045	5134.756	.239%	97.489%
42.0	118.963	8.729	5143.486	.148%	97.655%
43.0	83.410	6.238	5149.724	.106%	97.774%
44.0	65.565	4.995	5154.718	.085%	97.868%
45.0	54.643	4.237	5158.956	.072%	97.949%
46.0	47.053	3.712	5162.667	.063%	98.019%
47.0	41.733	3.347	5166.014	.057%	98.083%
48.0	36.674	2.989	5169.003	.051%	98.140%
49.0	32.174	2.663	5171.666	.045%	98.190%
50.0	28.657	2.407	5174.073	.041%	98.236%
51.0	26.785	2.283	5176.356	.039%	98.279%
52.0	25.835	2.233	5178.588	.038%	98.322%
53.0	25.285	2.214	5180.803	.038%	98.364%
54.0	24.858	2.205	5183.008	.037%	98.406%
55.0	24.528	2.203	5185.211	.037%	98.447%
56.0	24.218	2.202	5187.413	.037%	98.489%
57.0	23.950	2.203	5189.616	.037%	98.531%
58.0	23.757	2.209	5191.825	.038%	98.573%
59.0	23.599	2.218	5194.043	.038%	98.615%
60.0	23.468	2.229	5196.272	.038%	98.657%
61.0	23.358	2.240	5198.512	.038%	98.700%
62.0	23.241	2.250	5200.762	.038%	98.743%
63.0	23.172	2.264	5203.027	.038%	98.786%
64.0	23.103	2.277	5205.304	.039%	98.829%
65.0	23.062	2.292	5207.596	.039%	98.872%
66.0	22.993	2.303	5209.899	.039%	98.916%
67.0	22.959	2.318	5212.217	.039%	98.960%
68.0	22.917	2.330	5214.547	.040%	99.004%
69.0	22.903	2.345	5216.892	.040%	99.049%
70.0	22.903	2.360	5219.252	.040%	99.094%
71.0	22.897	2.374	5221.626	.040%	99.139%
72.0	22.903	2.389	5224.014	.041%	99.184%
73.0	22.897	2.401	5226.416	.041%	99.230%
74.0	22.869	2.411	5228.826	.041%	99.275%
75.0	22.814	2.417	5231.243	.041%	99.321%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	22.793	2.425	5233.668	.041%	99.367%
77.0	22.766	2.433	5236.101	.041%	99.414%
78.0	22.773	2.443	5238.543	.042%	99.460%
79.0	22.766	2.451	5240.994	.042%	99.506%
80.0	22.766	2.459	5243.453	.042%	99.553%
81.0	22.780	2.467	5245.92	.042%	99.600%
82.0	22.786	2.474	5248.394	.042%	99.647%
83.0	22.766	2.478	5250.872	.042%	99.694%
84.0	22.745	2.481	5253.353	.042%	99.741%
85.0	22.711	2.481	5255.834	.042%	99.788%
86.0	22.718	2.485	5258.319	.042%	99.835%
87.0	22.676	2.483	5260.802	.042%	99.883%
88.0	22.566	2.473	5263.275	.042%	99.929%
89.0	22.587	2.477	5265.752	.042%	99.977%
90.0	22.559	1.237	5266.989	.021%	100.000%

Zonal flux distribution table

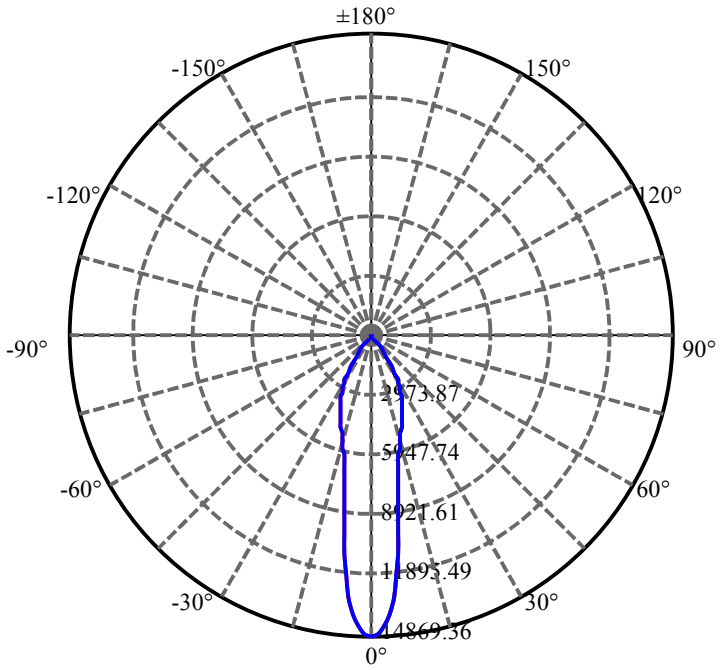
ZONAL LUMEN SUMMARY

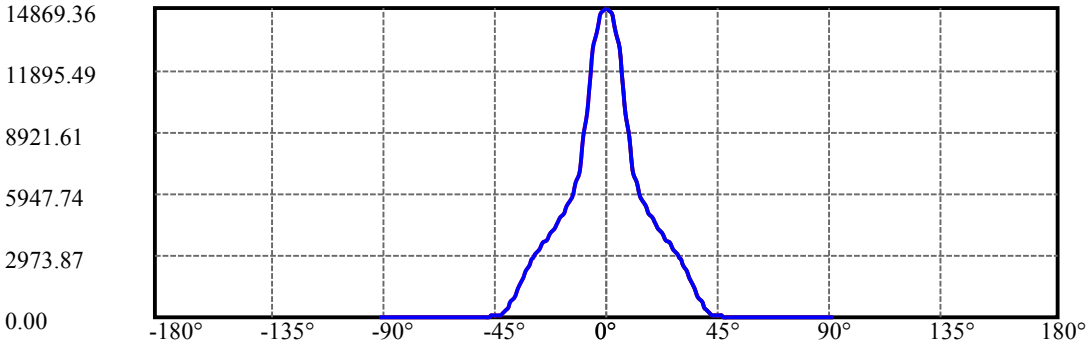
Zone	Lumens	%Lamp	%Fixt
0-30	4295.94	73.00%	81.56%
0-40	5120.71	87.01%	97.22%
0-60	5196.27	88.30%	98.66%
0-90	5265.75	89.48%	99.98%
0-120	5265.75	89.48%	99.98%
0-180	5266.99	89.50%	100.00%
60-90	71.71	1.22%	1.36%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.45	4213.59	71.60%	80.00%

ZONAL LUMEN SUMMARY

0-10	1122.50
10-20	1560.94
20-30	1612.50
30-40	824.77
40-50	53.36
50-60	22.20
60-70	22.98
70-80	24.20
80-90	22.30
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):

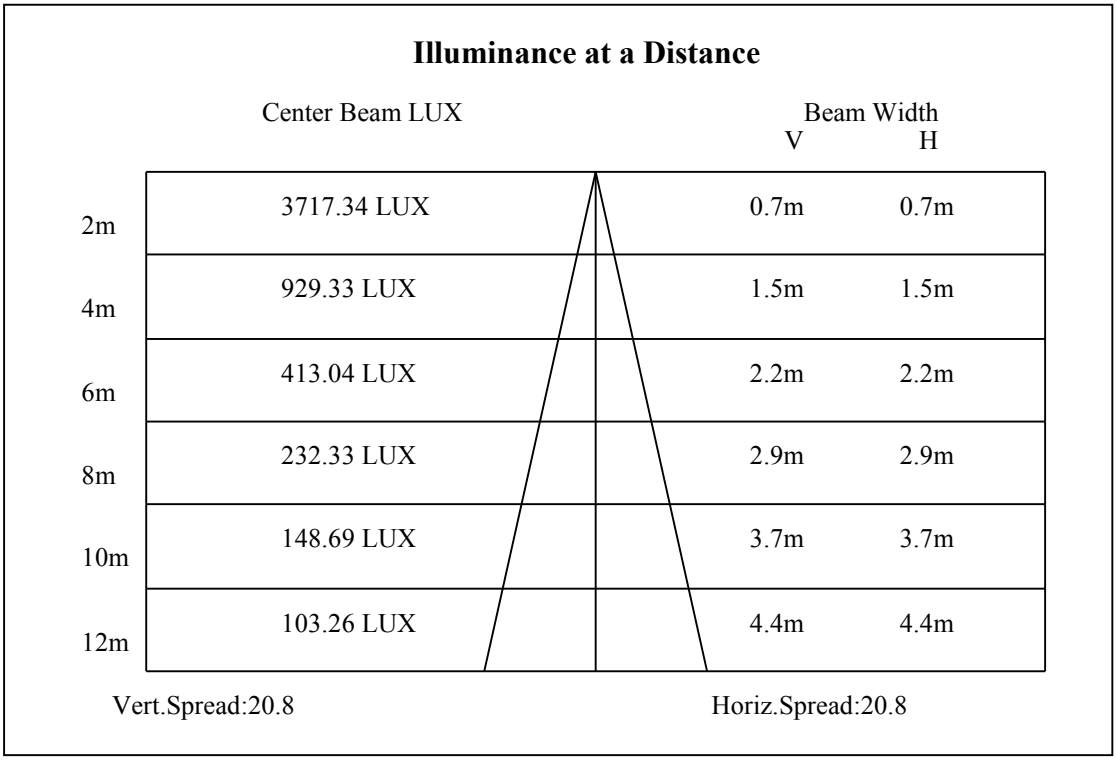
C0/C180:

C90/C270:

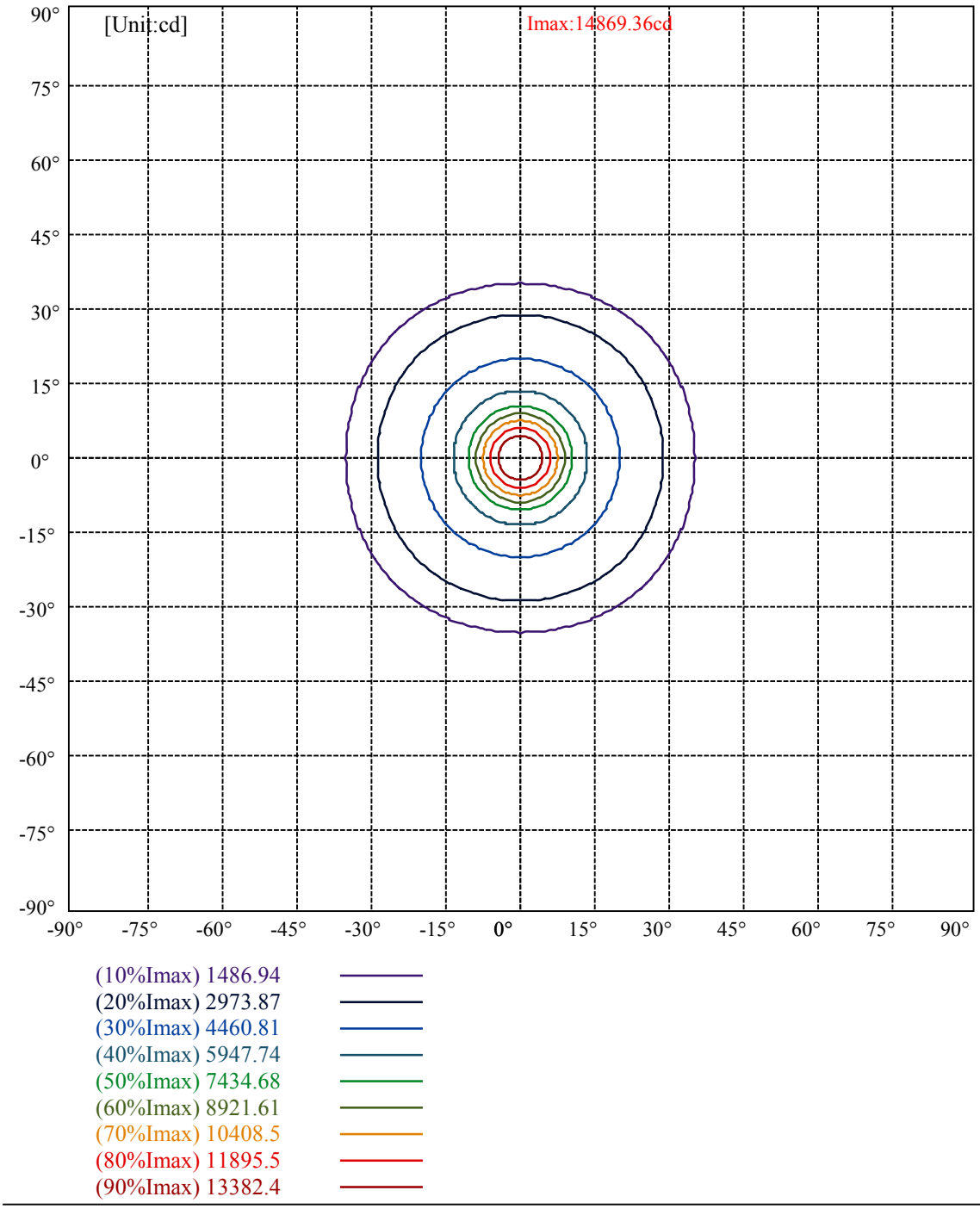
Field angle(10%Imax):C0/180Left:34.7 Right:34.7
:C90/270Left:34.7 Right:34.7

Beam Angle(50%Imax):C0/180Left:10.3 Right:10.3
:C90/270Left:10.3 Right:10.3

Lux distance Curve



ISO-Intensity(V-H)

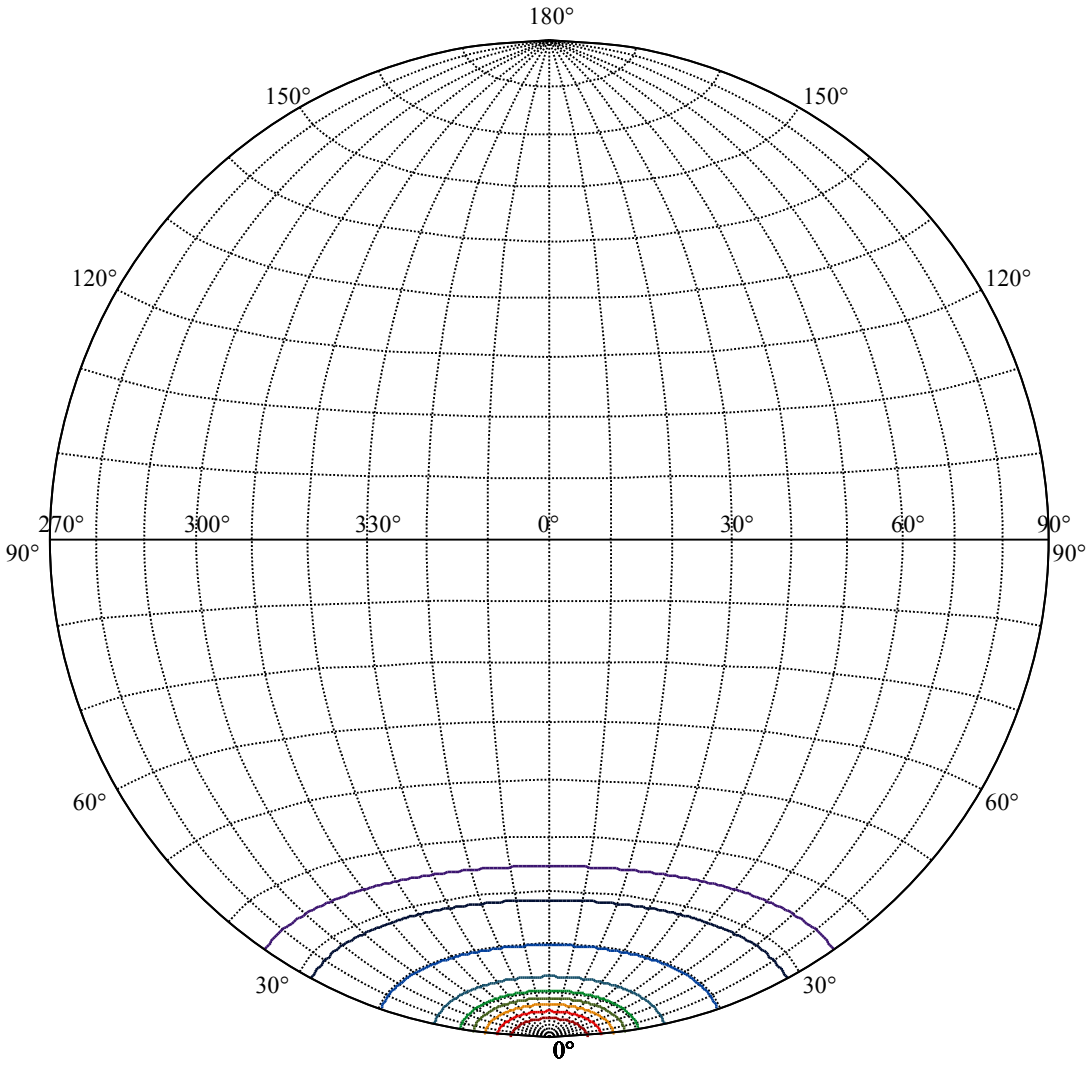


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/9/20
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

ISO candela diagram on circular web

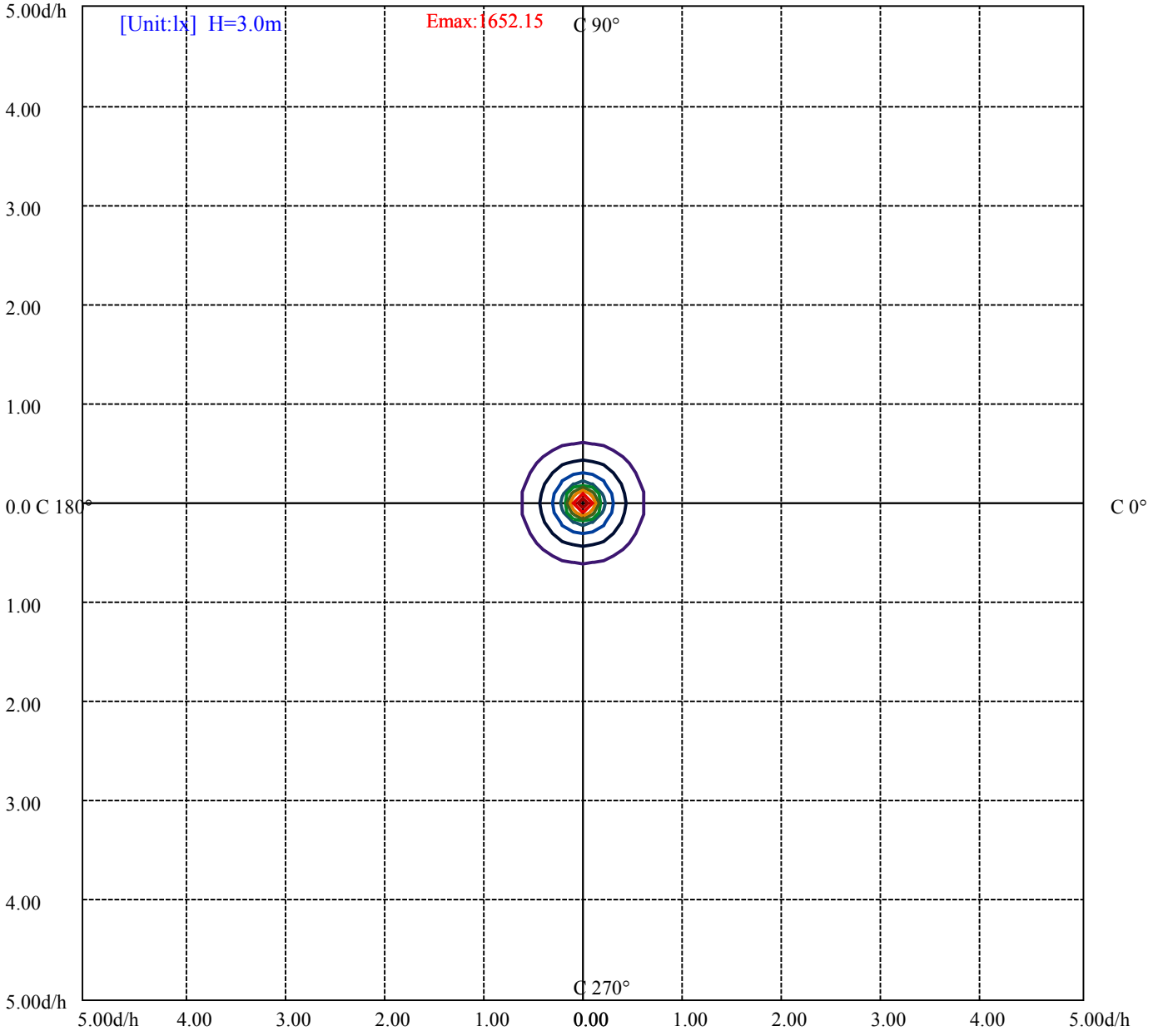


House [Unit:cd] Road

Imax:14869.36

(10%Imax) 1486.94
(20%Imax) 2973.87
(30%Imax) 4460.81
(40%Imax) 5947.74
(50%Imax) 7434.68
(60%Imax) 8921.61
(70%Imax) 10408.5
(80%Imax) 11895.5
(90%Imax) 13382.4

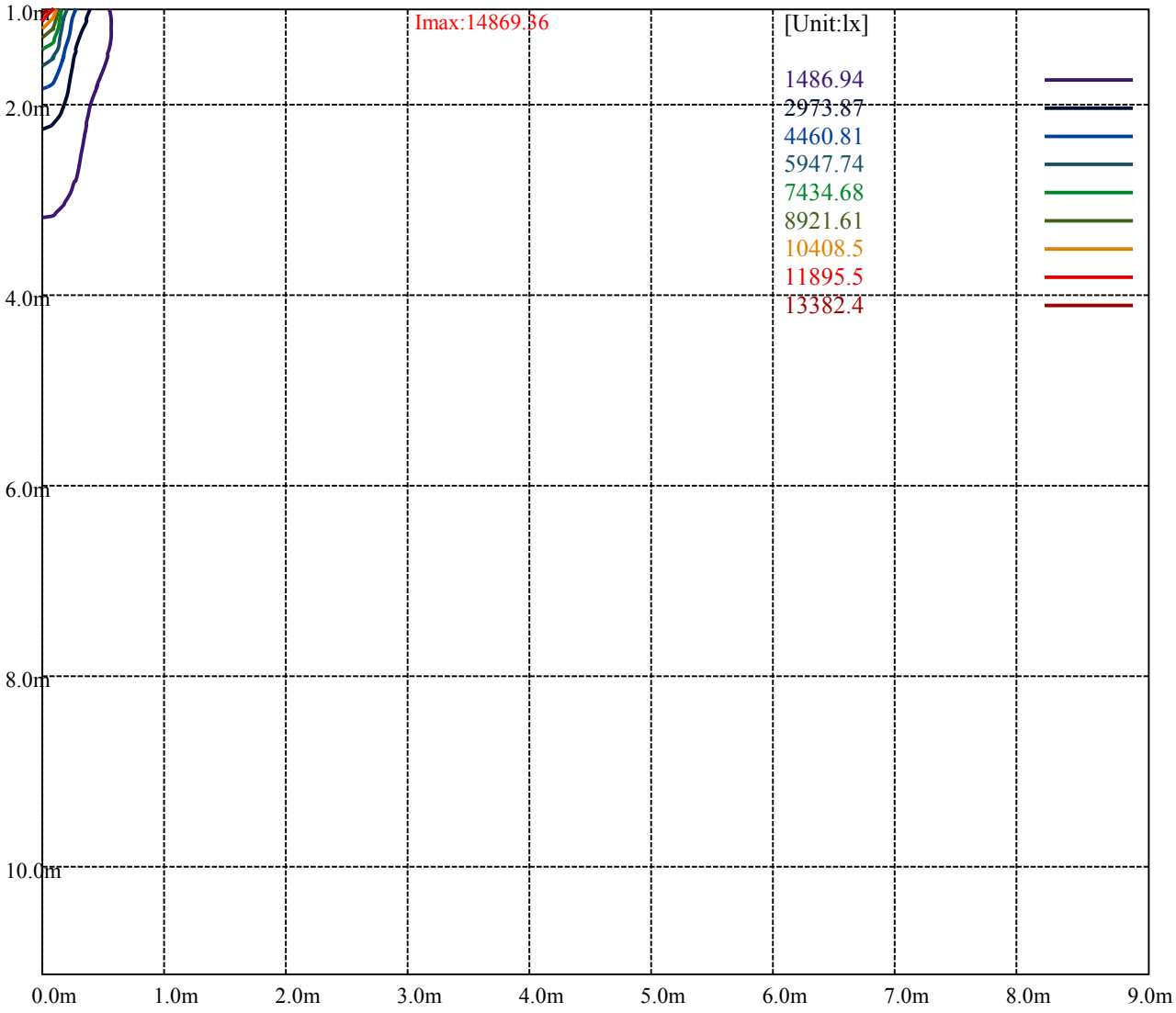
ISO illuminance diagram



(10%Emax) 165.2144
(20%Emax) 330.43
(30%Emax) 495.6444
(40%Emax) 660.86
(50%Emax) 826.0745
(60%Emax) 991.29
(70%Emax) 1156.5
(80%Emax) 1321.722
(90%Emax) 1486.933

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2017/9/20
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.42

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2017/9/20
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

Luminance Limitting Curve(no luminous side)

Luminance Table

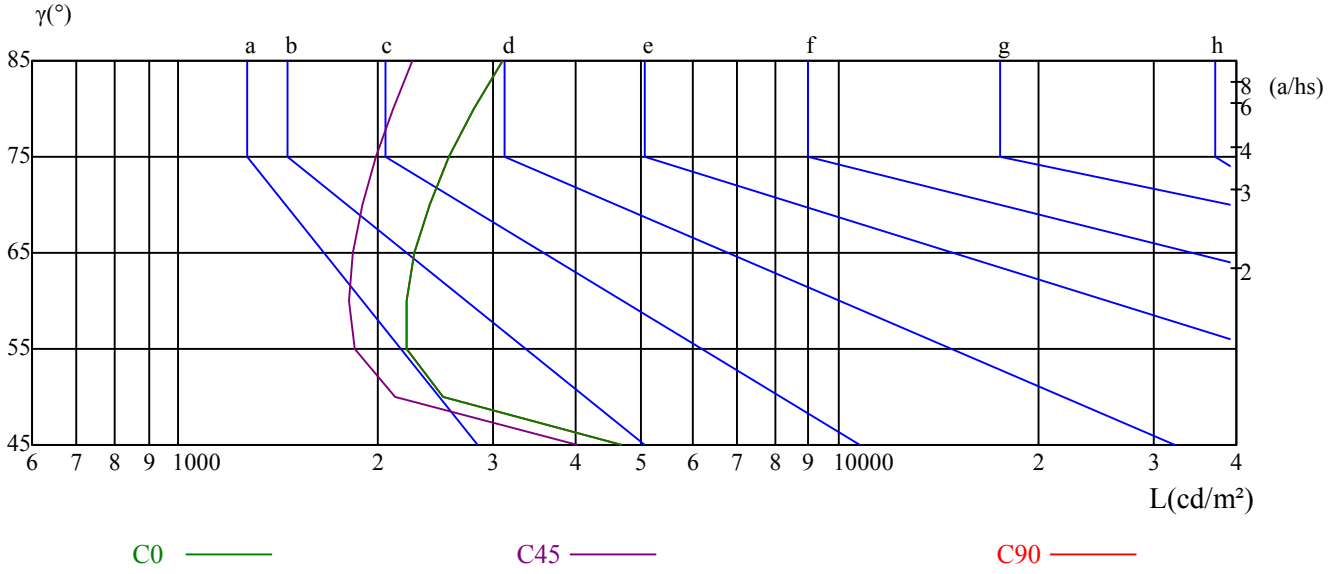
γ	45	50	55	60	65	70	75	80	85
C0	4683	2512	2218	2208	2279	2404	2573	2798	3091
C45	4026	2128	1849	1811	1837	1899	1989	2110	2265
C90	4683	2512	2218	2208	2279	2404	2573	2798	3091

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5457	5457	5457	8815	8815	8815	26058	26058	26058

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

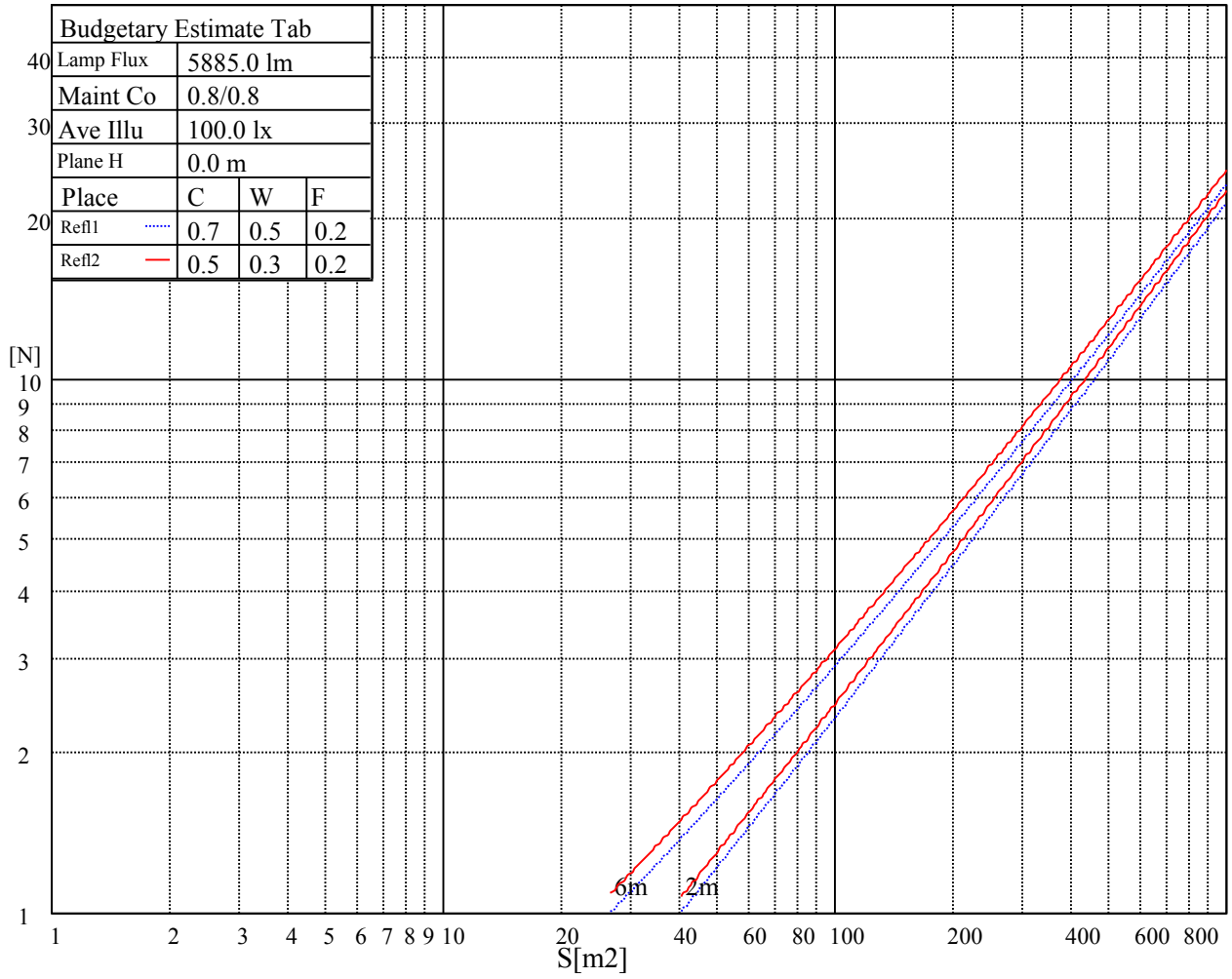
Luminance Limitting Curve



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	-2.00	-1.08	-1.63	-0.77	-0.46	-2.05	-1.13	-1.69	-0.82	-0.51
	3H	0.34	1.15	0.72	1.48	1.85	0.30	1.11	0.68	1.44	1.81
	4H	1.63	2.38	2.04	2.73	3.12	1.59	2.34	2.00	2.70	3.09
	6H	2.98	3.67	3.40	4.04	4.44	2.96	3.65	3.38	4.02	4.42
	8H	3.66	4.30	4.09	4.69	5.10	3.64	4.28	4.08	4.68	5.09
	12H	4.69	5.30	5.13	5.69	6.12	4.69	5.30	5.12	5.68	6.11
4H	2H	-1.50	-0.75	-1.09	-0.40	0.00	-1.54	-0.79	-1.13	-0.44	-0.05
	3H	1.14	1.75	1.56	2.16	2.57	1.10	1.72	1.52	2.13	2.53
	4H	2.60	3.15	3.04	3.58	4.03	2.57	3.12	3.01	3.55	4.00
	6H	4.06	4.53	4.53	4.98	5.45	4.04	4.51	4.51	4.96	5.44
	8H	4.84	5.28	5.32	5.73	6.21	4.83	5.27	5.31	5.72	6.20
	12H	5.87	6.24	6.36	6.73	7.21	5.86	6.24	6.36	6.73	7.21
8H	4H	3.05	3.49	3.53	3.94	4.42	3.03	3.46	3.51	3.92	4.39
	6H	4.75	5.09	5.26	5.59	6.08	4.73	5.08	5.24	5.58	6.07
	8H	5.68	5.99	6.22	6.51	7.01	5.68	5.98	6.21	6.50	7.00
	12H	6.83	7.09	7.36	7.59	8.17	6.83	7.09	7.36	7.59	8.17
12H	4H	3.15	3.52	3.64	4.01	4.49	3.12	3.50	3.62	3.99	4.47
	6H	5.12	5.23	5.46	5.70	6.25	5.11	5.21	5.45	5.69	6.24
	8H	5.96	6.22	6.48	6.72	7.30	5.95	6.21	6.47	6.71	7.29
Variation with the observer position at spacings:											
S = 1.0H		6.0/-9.8					6.0/-9.8				
S = 1.5H		8.5/-7.8					8.5/-7.8				
S = 2.0H		10.3/-6.6					10.3/-6.6				
Standard tables:		BK1					BK1				
Uncorrected UGR		-0.5					-0.5				

Budgetary Estimate Table

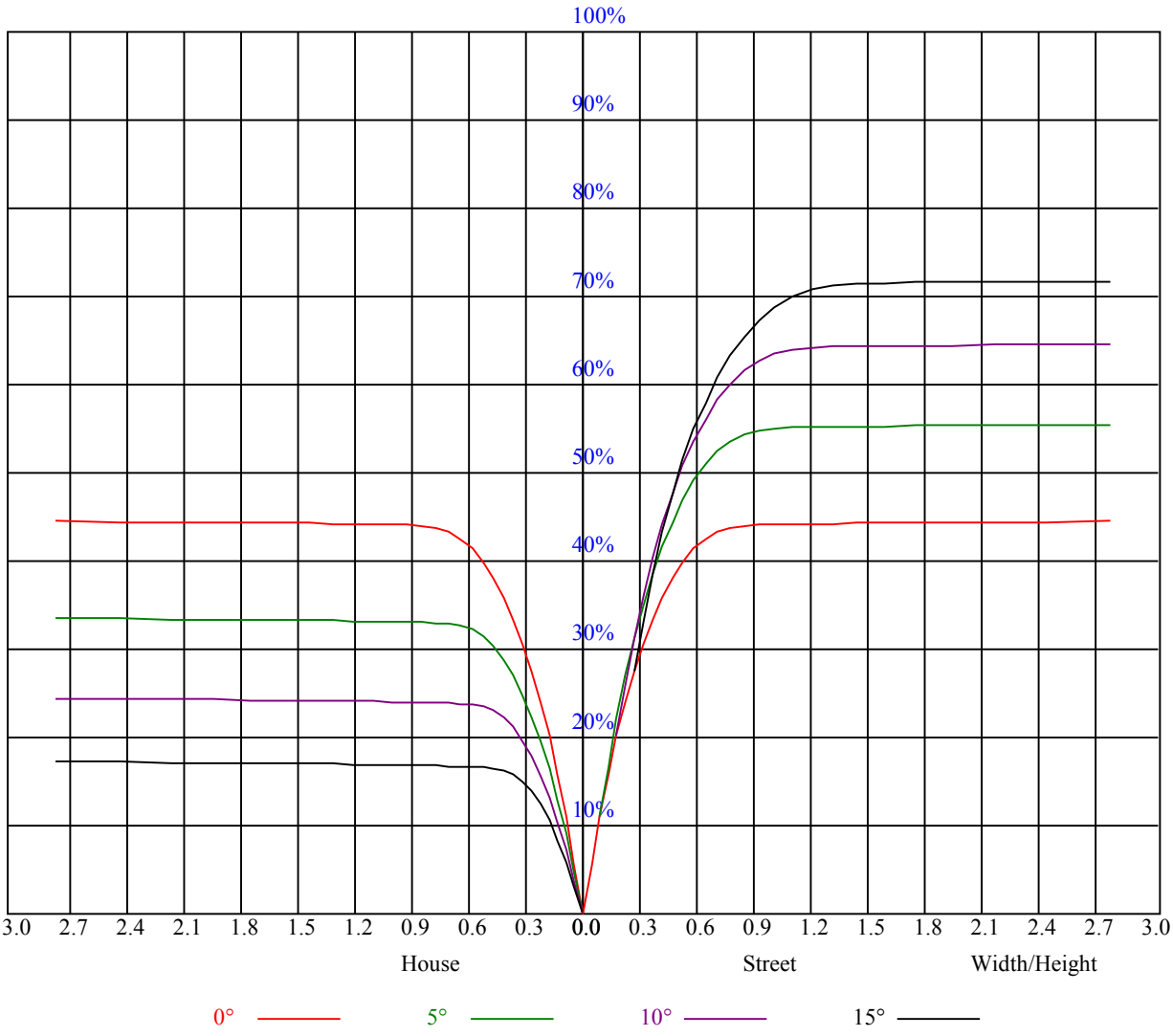


Equipment: GMS1980 Date: 2017/9/20 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.42

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	1.00	1.00	1.00	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	0.91	0.91	0.90	0.88	0.88	0.87	0.86	0.84
2	0.94	0.90	0.87	0.92	0.89	0.86	0.89	0.87	0.85	0.87	0.85	0.83	0.84	0.82	0.81	0.80
3	0.88	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.78	0.77	0.75
4	0.83	0.79	0.76	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.73	0.71
5	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
6	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.65	0.64
7	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.61
8	0.68	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.58
9	0.65	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.56
10	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.61	0.57	0.54	0.60	0.57	0.54	0.53

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2017/9/20	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.42

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	14898.26	14782.64	14485.34	14022.87	13450.28	12707.02	11550.83	10510.27	9414.64
45.0	14870.73	14865.23	14639.50	14331.18	13896.24	13235.56	12393.20	11446.23	10268.02
90.0	14876.24	14793.65	14595.45	14221.07	13642.98	13103.42	12261.06	10785.55	10111.66
135.0	14832.19	14887.25	14766.13	14479.83	14099.94	13604.44	12762.07	11903.19	10868.13
180.0	14898.26	14870.73	14700.06	14369.72	13852.19	13230.05	12299.60	10851.62	9991.08
225.0	14870.73	14722.08	14435.79	13984.33	13417.24	12585.89	10856.02	10446.95	9187.81
270.0	14876.24	14766.13	14540.40	14066.91	13543.87	12888.70	11831.62	10802.07	9706.44
315.0	14832.19	14622.98	14248.60	13791.63	13125.45	12360.16	10911.63	9957.50	9023.74
360.0	14898.26	14782.64	14485.34	14022.87	13450.28	12707.02	11550.83	10510.27	9414.64

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8164.86	7339.02	6722.39	6215.87	5863.51	5599.24	5345.98	5125.75	4889.01
45.0	9067.79	8082.28	7195.87	6623.28	6171.82	5841.48	5593.73	5351.48	5076.20
90.0	9039.16	7969.96	7151.28	6622.73	6197.70	5870.66	5609.15	5365.80	5089.41
135.0	9524.76	8500.71	7630.82	6904.07	6397.55	6089.24	5736.88	5500.13	5263.39
180.0	8880.60	7694.68	6984.45	6473.53	6020.97	5745.69	5500.68	5274.40	5007.93
225.0	8171.47	7242.67	6579.79	6171.82	5835.43	5559.04	5323.95	5122.45	4861.48
270.0	8418.12	7537.22	6876.54	6359.01	5979.13	5714.85	5439.57	5197.32	4977.10
315.0	8061.36	7056.58	6601.26	6216.97	5879.47	5581.62	5348.73	5102.63	4878.55
360.0	8164.86	7339.02	6722.39	6215.87	5863.51	5599.24	5345.98	5125.75	4889.01

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	4674.29	4487.10	4299.90	4118.22	3969.57	3831.93	3644.73	3496.08	3341.92
45.0	4866.99	4663.28	4443.05	4261.37	4096.20	3925.52	3760.35	3606.19	3435.52
90.0	4878.55	4672.64	4454.06	4259.71	4085.74	3916.71	3748.24	3594.08	3422.31
135.0	4988.11	4795.41	4597.21	4371.48	4200.80	4046.65	3870.46	3694.28	3534.62
180.0	4810.83	4612.07	4407.82	4215.67	4058.21	3892.49	3731.17	3577.01	3402.49
225.0	4681.45	4499.76	4291.10	4136.94	3986.08	3803.30	3648.59	3491.13	3292.92
270.0	4756.87	4569.68	4365.97	4189.79	4030.13	3881.48	3705.30	3545.63	3385.97
315.0	4686.95	4477.74	4309.26	4138.04	3966.26	3814.31	3639.23	3458.64	3300.63
360.0	4674.29	4487.10	4299.90	4118.22	3969.57	3831.93	3644.73	3496.08	3341.92

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	3165.74	3000.57	2857.43	2813.38	2443.95	2213.27	1939.64	1693.53	1427.06
45.0	3292.37	3116.19	2934.51	2796.87	2589.30	2370.18	2095.45	1868.06	1598.29
90.0	3259.89	3083.71	2915.79	2752.82	2542.50	2255.66	2021.67	1782.18	1497.53
135.0	3352.93	3171.25	3006.08	2846.42	2780.35	2409.82	2133.99	1894.49	1619.21
180.0	3245.02	3057.83	2888.26	2728.60	2528.19	2247.40	1997.45	1744.19	1450.19
225.0	3147.02	2969.19	2777.04	2605.27	2382.29	2065.72	1848.24	1601.59	1089.62
270.0	3198.78	3011.59	2862.93	2785.85	2409.82	2173.63	1900.55	1658.30	1400.08
315.0	3134.91	2946.07	2779.80	2566.18	2337.14	2028.28	1782.73	1538.28	1082.74
360.0	3165.74	3000.57	2857.43	2813.38	2443.95	2213.27	1939.64	1693.53	1427.06

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	1155.63	916.14	690.96	439.35	291.80	163.46	112.26	81.76	65.02
45.0	1344.48	1119.30	908.43	633.70	455.32	305.01	170.34	120.52	89.69
90.0	1073.49	1044.81	796.39	565.21	381.10	215.82	142.10	95.52	70.86
135.0	1354.39	1122.05	878.70	618.28	431.64	290.70	134.72	87.10	68.82
180.0	1097.38	977.36	723.28	498.21	317.12	164.73	104.88	73.72	59.02
225.0	1060.44	833.55	619.77	380.55	230.03	143.09	96.13	68.16	55.00
270.0	1138.57	907.33	688.21	443.75	295.10	159.22	103.12	72.73	59.74
315.0	994.10	769.03	540.49	334.14	192.64	119.69	88.15	67.77	56.38
360.0	1155.63	916.14	690.96	439.35	291.80	163.46	112.26	81.76	65.02

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	55.44	46.03	41.35	36.06	30.61	27.86	26.48	25.55	25.00
45.0	65.46	53.24	45.86	39.81	35.07	30.94	27.69	26.10	25.38
90.0	59.08	50.65	45.09	39.37	34.91	29.95	27.36	26.15	25.55
135.0	57.20	51.04	45.86	41.35	35.29	30.67	27.86	26.54	25.88
180.0	51.48	45.31	40.63	35.79	31.99	28.08	26.43	25.66	25.16
225.0	46.69	41.35	37.22	32.81	29.57	26.81	25.71	25.22	24.83
270.0	52.08	45.09	40.96	35.51	30.61	27.86	26.54	25.82	25.33
315.0	49.72	43.71	36.89	32.70	29.35	27.09	26.21	25.66	25.16
360.0	55.44	46.03	41.35	36.06	30.61	27.86	26.48	25.55	25.00

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	24.67	24.33	24.06	23.84	23.56	23.40	23.29	23.18	23.12
45.0	24.83	24.56	24.28	24.00	23.84	23.67	23.45	23.34	23.29
90.0	25.11	24.78	24.33	24.17	23.95	23.78	23.62	23.56	23.40
135.0	25.38	25.00	24.67	24.39	24.17	24.00	23.84	23.67	23.56
180.0	24.78	24.45	24.17	23.89	23.78	23.62	23.51	23.40	23.23
225.0	24.45	24.17	23.89	23.56	23.40	23.23	23.18	23.12	23.01
270.0	24.94	24.56	24.28	23.95	23.73	23.56	23.45	23.29	23.18
315.0	24.72	24.39	24.06	23.78	23.62	23.51	23.40	23.29	23.12
360.0	24.67	24.33	24.06	23.84	23.56	23.40	23.29	23.18	23.12

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	23.01	22.96	22.90	22.85	22.85	22.79	22.74	22.74	22.79
45.0	23.23	23.18	23.12	22.96	22.90	22.90	22.90	22.90	22.85
90.0	23.34	23.34	23.23	23.18	23.18	23.18	23.18	23.23	23.23
135.0	23.45	23.40	23.40	23.34	23.23	23.18	23.18	23.23	23.29
180.0	23.18	23.12	23.12	23.07	23.01	22.90	22.90	22.90	22.90
225.0	22.96	22.85	22.79	22.74	22.74	22.74	22.68	22.63	22.63
270.0	23.12	23.01	22.96	22.90	22.90	22.85	22.85	22.79	22.74
315.0	23.07	22.96	22.96	22.90	22.85	22.79	22.79	22.79	22.74
360.0	23.01	22.96	22.90	22.85	22.85	22.79	22.74	22.74	22.79

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	22.79	22.79	22.79	22.74	22.74	22.79	22.79	22.74	22.74
45.0	22.79	22.79	22.74	22.74	22.74	22.68	22.63	22.68	22.63
90.0	23.23	23.29	23.23	23.07	22.90	22.79	22.79	22.85	22.85
135.0	23.40	23.34	23.23	23.07	23.07	23.07	23.07	23.07	23.07
180.0	22.90	22.85	22.79	22.85	22.85	22.85	22.90	22.90	22.90
225.0	22.63	22.63	22.63	22.57	22.57	22.57	22.57	22.57	22.57
270.0	22.74	22.74	22.74	22.68	22.68	22.63	22.63	22.57	22.63
315.0	22.74	22.74	22.79	22.79	22.79	22.74	22.79	22.74	22.74
360.0	22.79	22.79	22.79	22.74	22.74	22.79	22.79	22.74	22.74

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	22.74	22.74	22.68	22.68	22.68	22.68	22.57	22.57	22.63
45.0	22.63	22.63	22.63	22.63	22.57	22.63	22.57	22.52	22.57
90.0	22.85	22.79	22.79	22.74	22.79	22.85	22.57	22.52	22.52
135.0	23.12	23.12	23.07	23.01	23.01	23.07	23.12	22.63	22.63
180.0	22.96	23.01	23.01	23.07	22.85	22.74	22.85	22.57	22.63
225.0	22.57	22.57	22.57	22.57	22.52	22.57	22.57	22.57	22.57
270.0	22.57	22.63	22.63	22.57	22.57	22.57	22.57	22.57	22.52
315.0	22.79	22.79	22.74	22.68	22.68	22.63	22.57	22.57	22.63
360.0	22.74	22.74	22.68	22.68	22.68	22.68	22.57	22.57	22.63

Intensity data(cd)

C/γ(°)	90.0
0.0	22.57
45.0	22.52
90.0	22.52
135.0	22.63
180.0	22.52
225.0	22.57
270.0	22.57
315.0	22.57
360.0	22.57