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

NATA

LumCAT: 3-1546-A3
Luminaire: 99.02.73.172+92.76.365.00

Report No: NATA0100	Voltage(V): 35.6000
Test No: GC2019011613	Current(A): 0.6000
LampCAT: CITIZEN CMT1922	Power (W): 21.3600
Lamp flux(lm): 2875.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 84	Width(mm): 84
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2594.38
Efficiency(%): 90.24%
Lumens(lm)/Power(W): 121.56
Central intensity(cd): 9222.188
Maximum intensity(cd): 9222.188
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.6
[C90/270]Total=25.6
Field angle(10%Imax): [C0/180]Total=60.7
[C90/270]Total=60.7
Maximum s/h(1/2): C0_180=0.44 C90_270=0.44
Maximum s/h(1/4): C0_180=0.43 C90_270=0.43
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.31%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.618%

Equipment: GMS1980	Date: 2019/1/16	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	9222.188	2.206	2.206	.077%	.085%
1.0	9209.320	17.625	19.832	.613%	.764%
2.0	9159.188	35.053	54.885	1.219%	2.116%
3.0	9035.227	51.855	106.74	1.804%	4.114%
4.0	8836.523	67.595	174.335	2.351%	6.720%
5.0	8566.945	81.879	256.215	2.848%	9.876%
6.0	8226.984	94.303	350.518	3.280%	13.511%
7.0	7785.914	104.053	454.571	3.619%	17.521%
8.0	7351.523	112.198	566.769	3.903%	21.846%
9.0	6805.828	116.752	683.521	4.061%	26.346%
10.0	6218.930	118.423	801.945	4.119%	30.911%
11.0	5694.398	119.151	921.096	4.144%	35.503%
12.0	5120.297	116.742	1037.837	4.061%	40.003%
13.0	4488.891	110.733	1148.571	3.852%	44.271%
14.0	3965.484	105.202	1253.773	3.659%	48.326%
15.0	3451.711	97.968	1351.74	3.408%	52.103%
16.0	2954.813	89.314	1441.054	3.107%	55.545%
17.0	2561.625	82.130	1523.184	2.857%	58.711%
18.0	2191.148	74.252	1597.436	2.583%	61.573%
19.0	1895.977	67.690	1665.126	2.354%	64.182%
20.0	1659.938	62.258	1727.384	2.165%	66.582%
21.0	1457.578	57.281	1784.666	1.992%	68.790%
22.0	1310.555	53.837	1838.503	1.873%	70.865%
23.0	1198.005	51.332	1889.835	1.785%	72.843%
24.0	1123.376	50.106	1939.941	1.743%	74.775%
25.0	1073.918	49.770	1989.711	1.731%	76.693%
26.0	1034.248	49.719	2039.43	1.729%	78.609%
27.0	1001.974	49.883	2089.313	1.735%	80.532%
28.0	977.358	50.317	2139.63	1.750%	82.472%
29.0	951.855	50.605	2190.235	1.760%	84.422%
30.0	930.677	51.029	2241.265	1.775%	86.389%
31.0	904.669	51.095	2292.36	1.777%	88.359%
32.0	851.864	49.503	2341.863	1.722%	90.267%
33.0	766.223	45.763	2387.626	1.592%	92.031%
34.0	660.080	40.477	2428.103	1.408%	93.591%
35.0	544.022	34.218	2462.322	1.190%	94.910%
36.0	418.226	26.958	2489.279	.938%	95.949%
37.0	309.825	20.447	2509.726	.711%	96.737%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	209.405	14.138	2523.864	.492%	97.282%
39.0	109.786	7.577	2531.44	.264%	97.574%
40.0	54.148	3.817	2535.257	.133%	97.721%
41.0	36.654	2.637	2537.894	.092%	97.823%
42.0	29.355	2.154	2540.048	.075%	97.906%
43.0	23.252	1.739	2541.787	.060%	97.973%
44.0	19.884	1.515	2543.302	.053%	98.031%
45.0	15.237	1.181	2544.484	.041%	98.077%
46.0	13.669	1.078	2545.562	.038%	98.118%
47.0	13.317	1.068	2546.63	.037%	98.159%
48.0	13.078	1.066	2547.696	.037%	98.200%
49.0	12.846	1.063	2548.759	.037%	98.241%
50.0	12.656	1.063	2549.822	.037%	98.282%
51.0	12.509	1.066	2550.888	.037%	98.323%
52.0	12.354	1.068	2551.956	.037%	98.365%
53.0	12.213	1.070	2553.025	.037%	98.406%
54.0	12.101	1.074	2554.099	.037%	98.447%
55.0	11.967	1.075	2555.174	.037%	98.489%
56.0	11.862	1.078	2556.252	.038%	98.530%
57.0	11.763	1.082	2557.334	.038%	98.572%
58.0	11.679	1.086	2558.42	.038%	98.614%
59.0	11.580	1.089	2559.509	.038%	98.656%
60.0	11.510	1.093	2560.602	.038%	98.698%
61.0	11.440	1.097	2561.699	.038%	98.740%
62.0	11.391	1.103	2562.802	.038%	98.783%
63.0	11.334	1.107	2563.909	.039%	98.825%
64.0	11.271	1.111	2565.02	.039%	98.868%
65.0	11.215	1.115	2566.135	.039%	98.911%
66.0	11.173	1.119	2567.254	.039%	98.954%
67.0	11.130	1.124	2568.378	.039%	98.998%
68.0	11.067	1.125	2569.503	.039%	99.041%
69.0	11.046	1.131	2570.634	.039%	99.085%
70.0	11.011	1.135	2571.768	.039%	99.128%
71.0	10.990	1.139	2572.908	.040%	99.172%
72.0	10.948	1.142	2574.05	.040%	99.216%
73.0	10.934	1.147	2575.196	.040%	99.260%
74.0	10.898	1.149	2576.345	.040%	99.305%
75.0	10.877	1.152	2577.497	.040%	99.349%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.856	1.155	2578.652	.040%	99.394%
77.0	10.842	1.158	2579.811	.040%	99.438%
78.0	10.807	1.159	2580.97	.040%	99.483%
79.0	10.800	1.163	2582.133	.040%	99.528%
80.0	10.758	1.162	2583.295	.040%	99.573%
81.0	10.744	1.164	2584.458	.040%	99.617%
82.0	10.723	1.164	2585.623	.041%	99.662%
83.0	10.723	1.167	2586.79	.041%	99.707%
84.0	10.723	1.169	2587.959	.041%	99.752%
85.0	10.744	1.174	2589.133	.041%	99.798%
86.0	10.793	1.181	2590.313	.041%	99.843%
87.0	10.652	1.167	2591.48	.041%	99.888%
88.0	10.610	1.163	2592.643	.040%	99.933%
89.0	10.589	1.161	2593.804	.040%	99.978%
90.0	10.589	0.581	2594.384	.020%	100.000%

Zonal flux distribution table

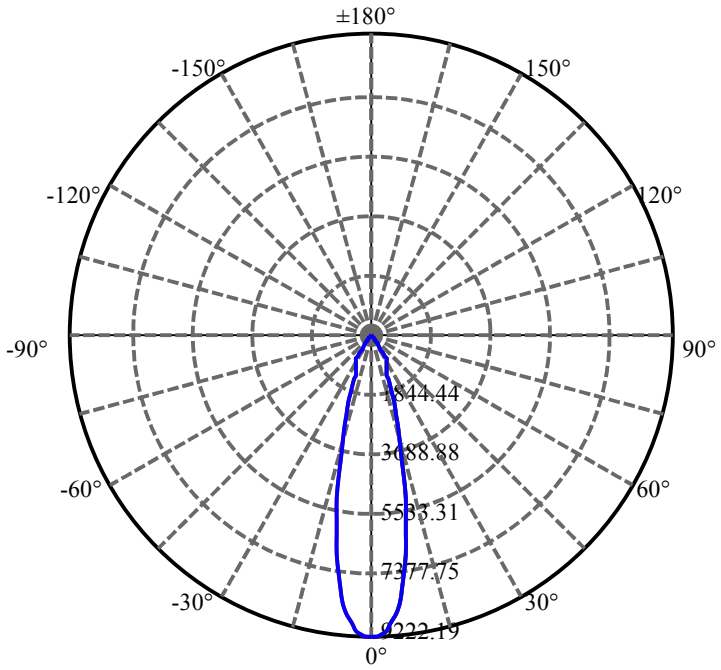
ZONAL LUMEN SUMMARY

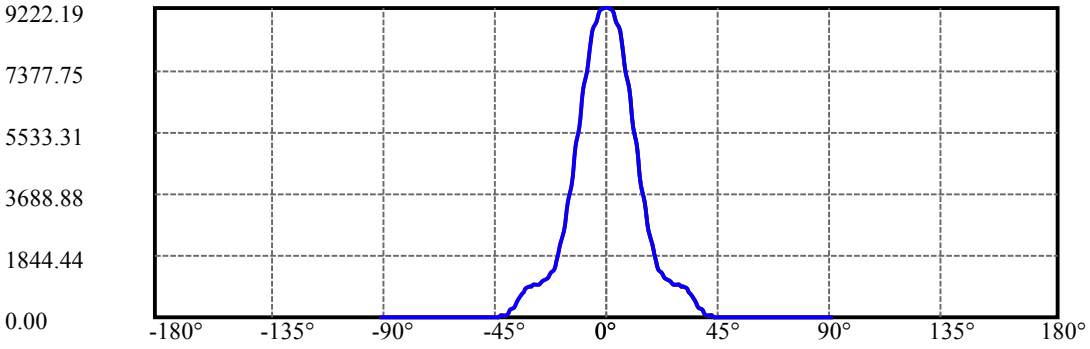
Zone	Lumens	%Lamp	%Fixt
0-30	2241.26	77.96%	86.39%
0-40	2535.26	88.18%	97.72%
0-60	2560.60	89.06%	98.70%
0-90	2593.80	90.22%	99.98%
0-120	2593.80	90.22%	99.98%
0-180	2594.38	90.24%	100.00%
60-90	34.30	1.19%	1.32%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.72	2075.51	72.19%	80.00%

ZONAL LUMEN SUMMARY

0-10	801.94
10-20	925.44
20-30	513.88
30-40	293.99
40-50	14.56
50-60	10.78
60-70	11.17
70-80	11.53
80-90	10.51
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:30.3 Right:30.3
:C90/270Left:30.3 Right:30.3

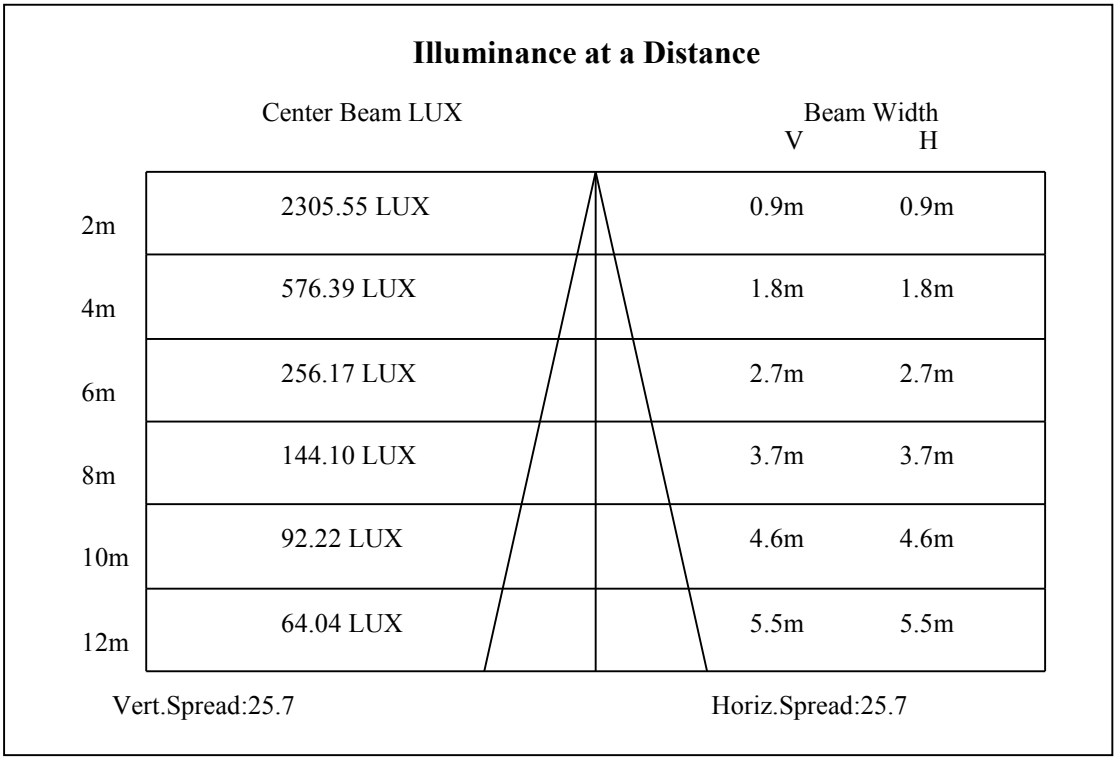
Beam Angle(50%Imax):C0/180Left:12.8 Right:12.8
:C90/270Left:12.8 Right:12.8

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/16
Humidity(%): 65.0%

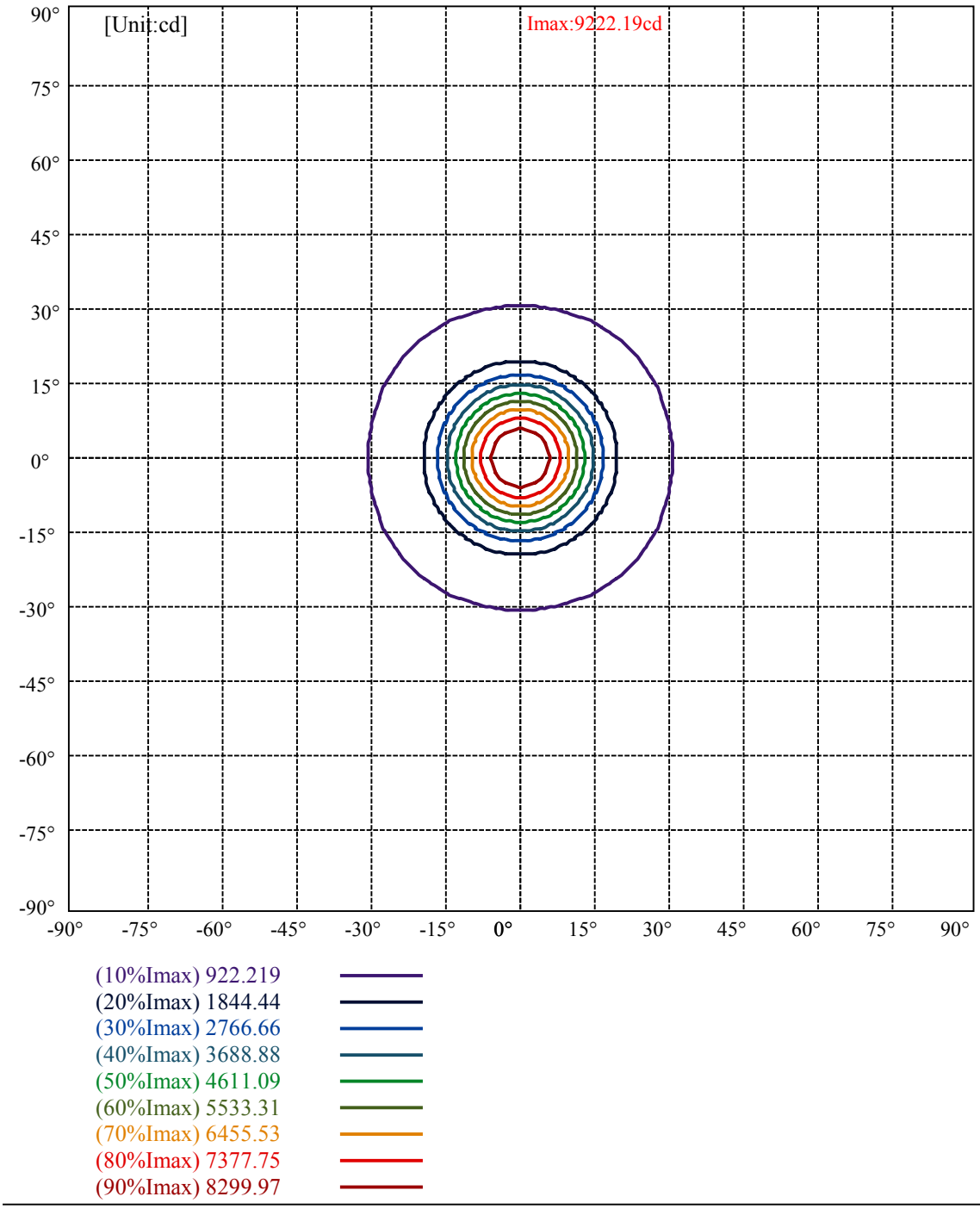
Operator: NT07
Distance(m): 7.50

Lux distance Curve



Equipment: GMS1980 Date: 2019/1/16 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

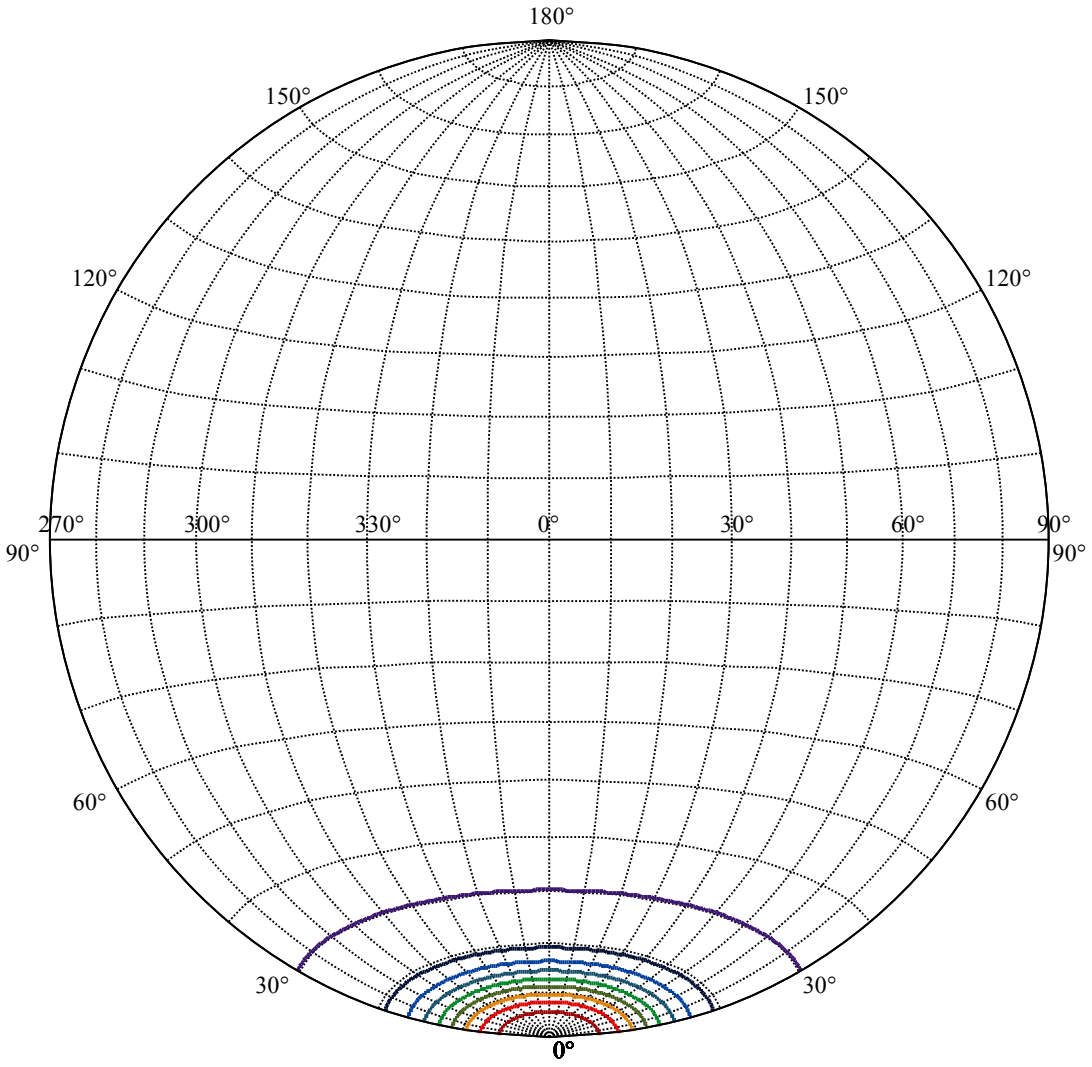


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/16
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



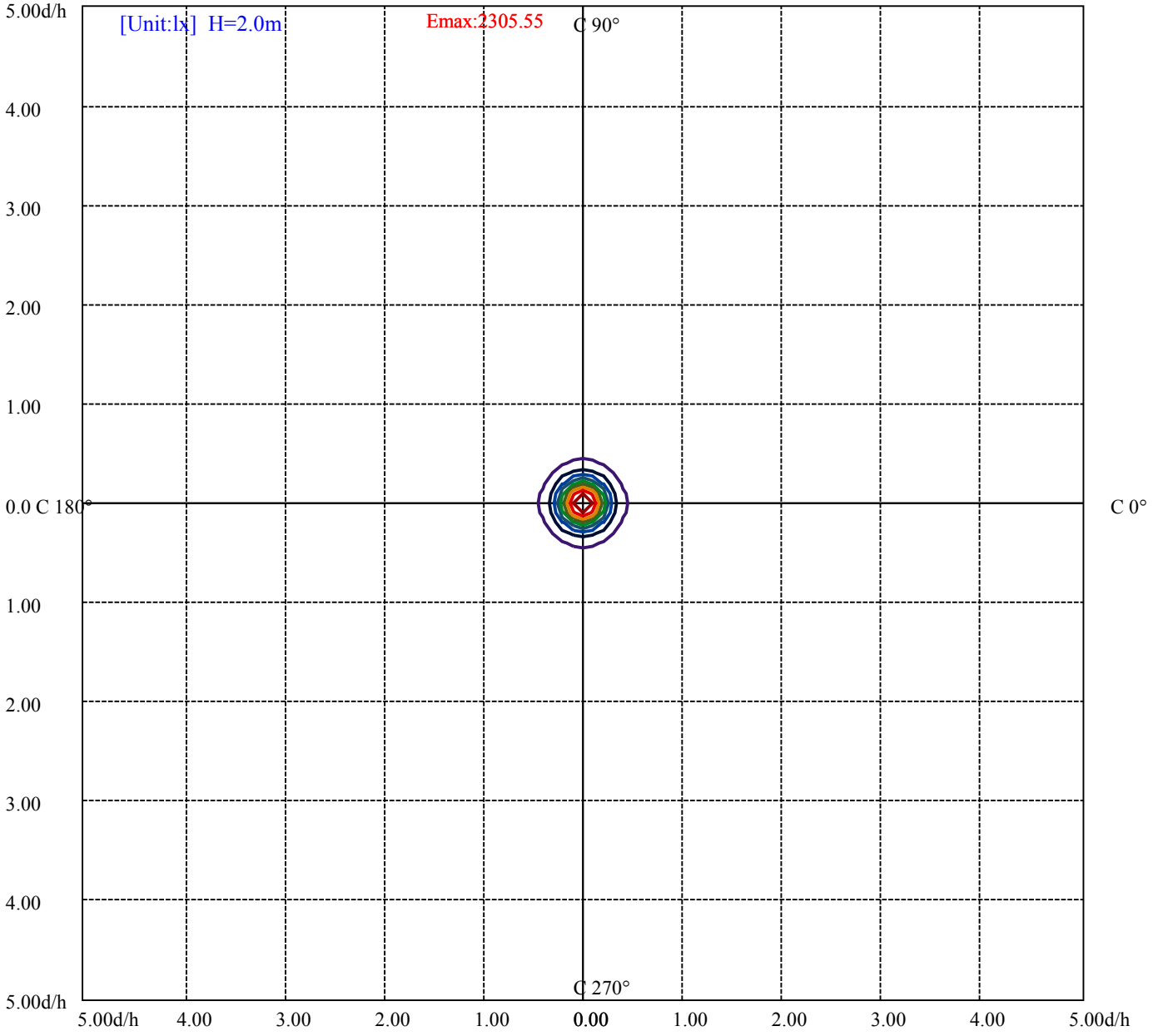
House [Unit:cd] Road

Imax:9222.19

(10%Imax) 922.219
(20%Imax) 1844.44
(30%Imax) 2766.66
(40%Imax) 3688.88
(50%Imax) 4611.09
(60%Imax) 5533.31
(70%Imax) 6455.53
(80%Imax) 7377.75
(90%Imax) 8299.97

Equipment: GMS1980 Date: 2019/1/16 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO illuminance diagram

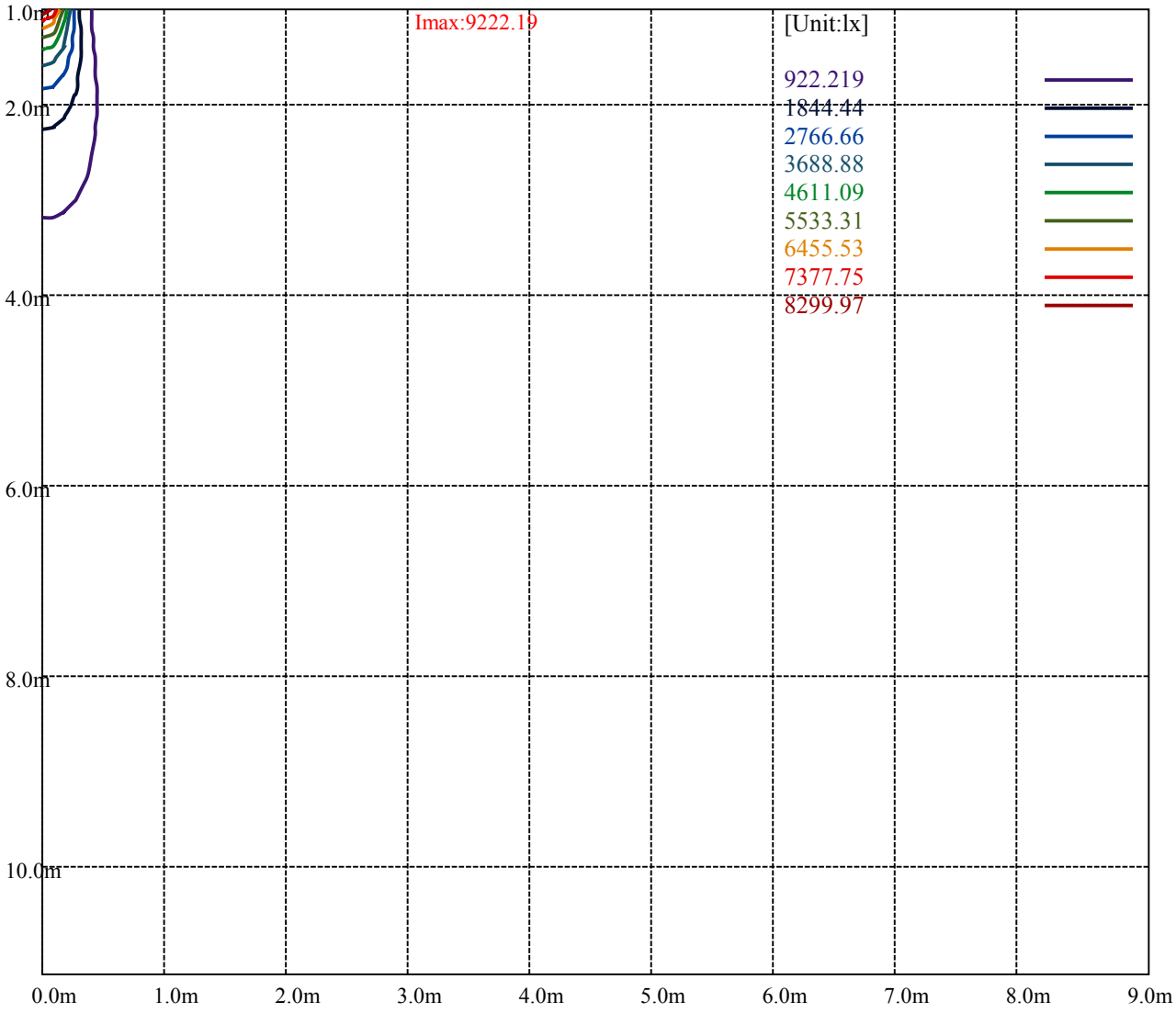


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/16
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/16
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

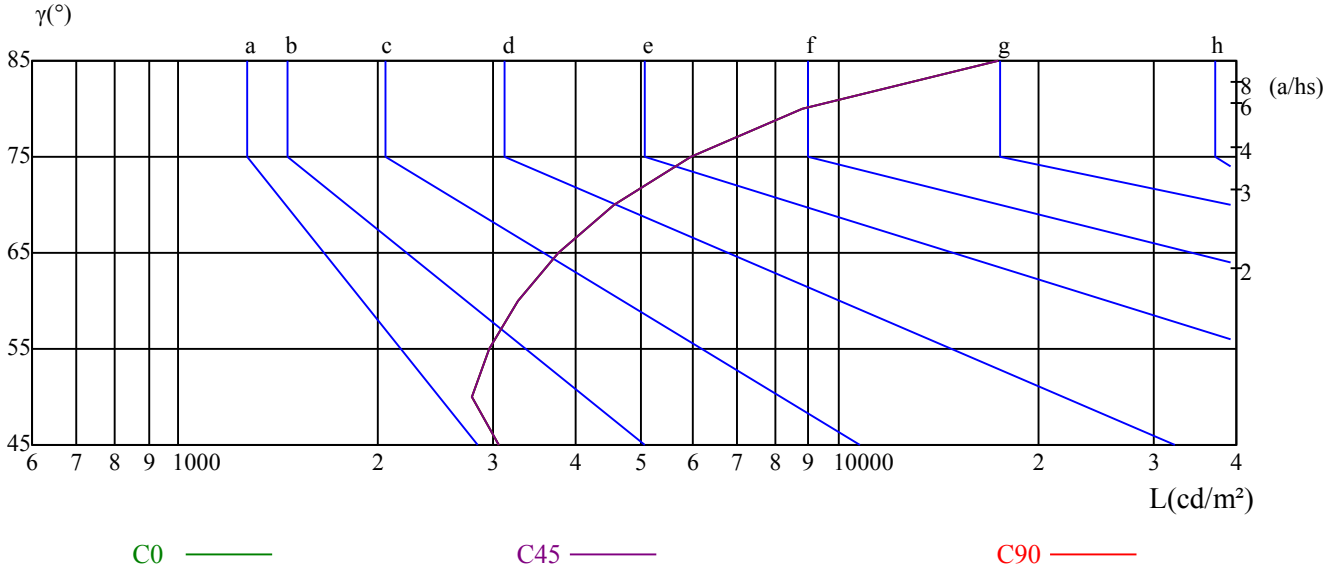
γ	45	50	55	60	65	70	75	80	85
C0	3054	2790	2957	3263	3761	4563	5956	8780	17470
C45	3054	2790	2957	3263	3761	4563	5956	8780	17470
C90	3054	2790	2957	3263	3761	4563	5956	8780	17470

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3761	3761	3761	5956	5956	5956	17470	17470	17470

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: 2019/1/16
Humidity(%): 65.0%

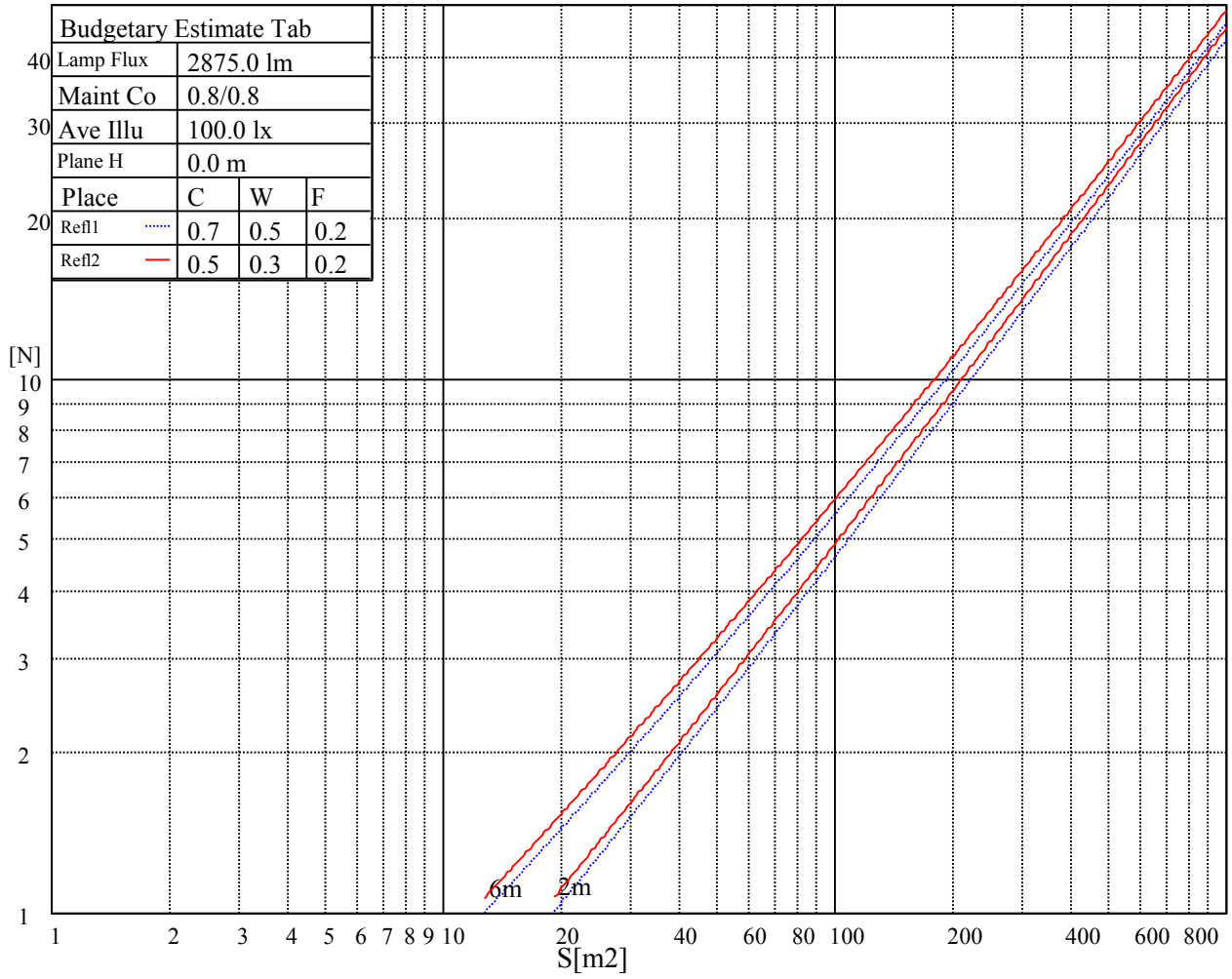
Operator: NT07
Distance(m): 7.50

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	1.21	2.12	1.58	2.43	2.75	1.22	2.13	1.59	2.44	2.76
	3H	4.45	5.25	4.83	5.59	5.96	4.50	5.30	4.88	5.64	6.01
	4H	6.23	6.97	6.64	7.33	7.72	6.27	7.02	6.68	7.37	7.76
	6H	8.22	8.90	8.64	9.27	9.67	8.26	8.93	8.68	9.31	9.71
	8H	9.31	9.95	9.75	10.34	10.75	9.36	9.99	9.80	10.39	10.80
	12H	11.09	11.70	11.52	12.08	12.51	11.16	11.76	11.59	12.15	12.58
4H	2H	2.14	2.89	2.55	3.24	3.63	2.15	2.89	2.56	3.25	3.64
	3H	5.61	6.22	6.03	6.63	7.04	5.66	6.27	6.08	6.68	7.09
	4H	7.56	8.10	8.00	8.53	8.98	7.60	8.14	8.04	8.57	9.02
	6H	9.70	10.17	10.17	10.62	11.10	9.73	10.20	10.21	10.65	11.13
	8H	10.89	11.33	11.37	11.78	12.25	10.93	11.37	11.41	11.82	12.30
	12H	12.56	12.93	13.05	13.42	13.90	12.63	13.00	13.12	13.49	13.97
8H	4H	8.30	8.73	8.77	9.18	9.66	8.32	8.76	8.80	9.21	9.69
	6H	10.71	11.05	11.22	11.56	12.04	10.73	11.07	11.24	11.58	12.07
	8H	12.09	12.39	12.62	12.91	13.41	12.12	12.43	12.66	12.95	13.45
	12H	13.89	14.15	14.41	14.65	15.23	13.95	14.21	14.47	14.71	15.29
12H	4H	8.51	8.88	9.00	9.37	9.85	8.53	8.90	9.03	9.39	9.87
	6H	11.23	11.33	11.57	11.81	12.36	11.25	11.35	11.59	11.83	12.38
	8H	12.54	12.80	13.07	13.30	13.88	12.57	12.83	13.10	13.33	13.91

Variation with the observer position at spacings:		
S = 1.0H	5.9/-7.3	5.9/-7.3
S = 1.5H	8.0/-5.4	8.0/-5.4
S = 2.0H	9.3/-4.0	9.3/-4.0
Standard tables:	BK3	BK3
Uncorrected UGR	0.5	0.5

Budgetary Estimate Table

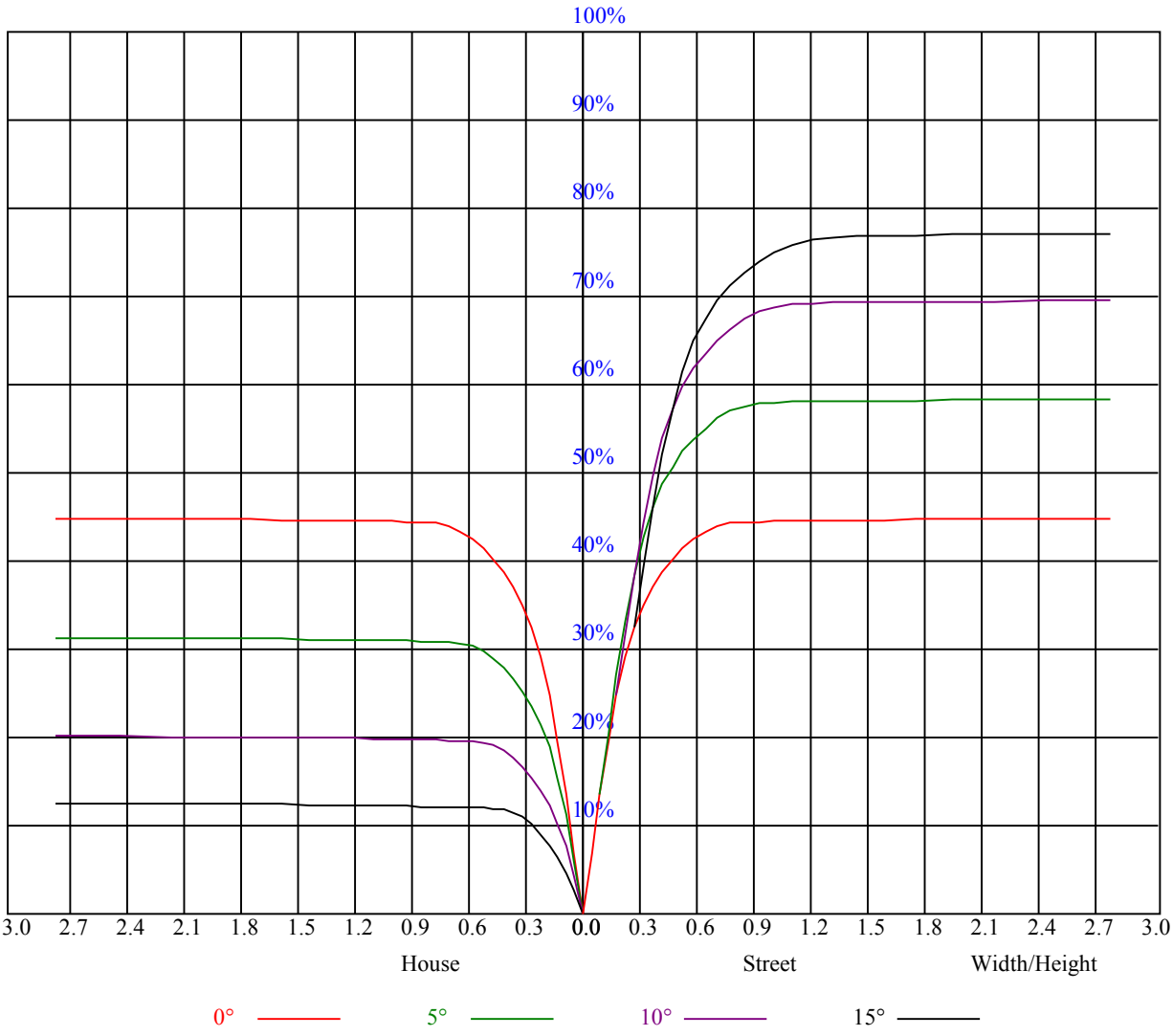


Equipment: GMS1980 Date: 2019/1/16 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.01	0.99	0.97	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86
2	0.96	0.93	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.91	0.87	0.84	0.90	0.86	0.84	0.87	0.85	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.79
4	0.87	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.80	0.77	0.81	0.78	0.77	0.75
5	0.83	0.79	0.76	0.82	0.78	0.75	0.81	0.77	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.72
6	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.73	0.71	0.75	0.73	0.71	0.70
7	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
8	0.74	0.69	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.65
9	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.63
10	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.67	0.64	0.61	0.61

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/1/16	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	9212.06	9243.56	9251.44	9199.69	9077.06	8848.13	8543.81	8199.56	7801.88
45.0	9244.69	9243.56	9201.38	9082.69	8904.38	8621.44	8255.25	7873.88	7445.25
90.0	9211.50	9163.69	9077.63	8913.38	8668.69	8368.88	8022.94	7507.13	7040.81
135.0	9220.50	9174.38	9092.81	8953.88	8757.56	8463.94	8084.81	7693.88	7256.25
180.0	9212.06	9147.94	9042.75	8855.44	8584.31	8281.13	7913.81	7315.88	6886.13
225.0	9244.69	9221.06	9159.19	9018.56	8799.75	8541.56	8217.56	7749.00	7302.94
270.0	9211.50	9231.19	9218.81	9127.69	8966.25	8722.13	8395.88	8042.06	7626.94
315.0	9220.50	9249.19	9229.50	9130.50	8934.19	8688.38	8381.81	7905.94	7452.00
360.0	9212.06	9243.56	9251.44	9199.69	9077.06	8848.13	8543.81	8199.56	7801.88

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7227.00	6733.13	6213.94	5606.44	4988.81	4438.69	3841.88	3297.38	2868.75
45.0	6843.38	6318.56	5767.88	5142.38	4524.19	4002.75	3463.31	2972.81	2574.56
90.0	6537.94	5883.19	5355.56	4829.06	4185.00	3708.00	3264.19	2850.75	2428.31
135.0	6654.94	6140.25	5616.00	5019.75	4432.50	3936.94	3422.81	2949.19	2554.31
180.0	6372.00	5657.06	5193.00	4668.19	4091.06	3559.50	3124.13	2673.56	2321.44
225.0	6818.06	6182.44	5644.13	5097.38	4416.75	3899.25	3413.81	2910.94	2520.56
270.0	7039.13	6535.69	6010.31	5403.38	4780.13	4228.31	3636.56	3099.38	2681.44
315.0	6954.19	6301.13	5754.38	5195.81	4492.69	3950.44	3447.00	2884.50	2543.63
360.0	7227.00	6733.13	6213.94	5606.44	4988.81	4438.69	3841.88	3297.38	2868.75

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2452.50	2133.56	1832.63	1594.13	1428.19	1283.06	1179.00	1115.44	1069.31
45.0	2198.81	1911.94	1647.00	1434.38	1290.94	1168.31	1096.31	1044.00	1008.56
90.0	2073.38	1791.00	1582.88	1393.31	1251.56	1122.13	1091.14	1037.42	1000.69
135.0	2198.25	1928.81	1686.94	1478.81	1333.69	1222.31	1127.81	1073.25	1032.19
180.0	1994.63	1729.69	1536.75	1362.94	1236.38	1120.73	1093.33	1044.79	1009.91
225.0	2159.44	1863.56	1649.25	1457.44	1297.69	1216.69	1116.06	1087.59	1046.48
270.0	2280.94	1982.81	1713.38	1504.13	1363.50	1247.06	1163.81	1109.81	1068.19
315.0	2171.25	1826.44	1630.69	1435.50	1282.50	1203.75	1119.54	1079.04	1038.66
360.0	2452.50	2133.56	1832.63	1594.13	1428.19	1283.06	1179.00	1115.44	1069.31

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1026.00	999.00	973.13	948.94	927.56	903.38	836.44	735.75	630.00
45.0	977.06	956.81	933.75	911.81	889.88	846.56	752.63	638.44	533.25
90.0	976.11	953.38	924.58	905.23	880.59	803.93	712.80	609.13	484.20
135.0	996.19	974.25	951.19	930.94	901.13	846.00	749.25	633.94	525.38
180.0	986.12	959.63	935.72	915.30	868.56	780.75	683.21	575.61	450.62
225.0	1017.17	992.76	964.46	944.66	923.57	869.85	786.15	684.51	559.63
270.0	1027.69	1001.81	976.50	953.44	930.94	902.81	828.56	722.81	613.69
315.0	1009.46	981.23	955.52	935.10	915.13	861.64	780.75	680.46	555.41
360.0	1026.00	999.00	973.13	948.94	927.56	903.38	836.44	735.75	630.00

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	504.00	389.81	290.81	161.27	77.12	42.69	32.91	24.81	21.26
45.0	408.94	304.31	229.78	116.21	51.02	36.84	29.08	23.63	20.93
90.0	360.06	255.66	151.20	73.18	42.86	34.82	28.24	24.19	20.93
135.0	401.06	293.06	180.23	101.25	49.44	36.79	30.09	24.47	21.88
180.0	327.83	226.52	128.48	60.86	38.53	32.34	26.04	22.28	17.49
225.0	429.19	319.50	204.19	104.51	54.06	35.83	29.19	22.44	19.18
270.0	486.56	371.81	288.56	156.77	66.66	37.97	31.16	22.28	18.79
315.0	428.18	317.93	201.99	104.23	53.49	35.94	28.13	21.94	18.62
360.0	504.00	389.81	290.81	161.27	77.12	42.69	32.91	24.81	21.26

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	17.49	13.84	13.50	13.28	12.94	12.77	12.60	12.43	12.26
45.0	15.69	13.50	13.11	12.88	12.71	12.54	12.43	12.26	12.15
90.0	13.89	13.56	13.28	12.88	12.71	12.54	12.43	12.32	12.15
135.0	15.98	13.84	13.50	13.33	13.11	12.88	12.71	12.54	12.38
180.0	13.89	13.61	13.28	13.11	12.88	12.66	12.54	12.38	12.26
225.0	14.91	13.61	13.22	12.99	12.77	12.60	12.43	12.26	12.15
270.0	15.81	13.61	13.28	13.05	12.77	12.60	12.43	12.26	12.15
315.0	14.23	13.78	13.39	13.11	12.88	12.66	12.49	12.38	12.21
360.0	17.49	13.84	13.50	13.28	12.94	12.77	12.60	12.43	12.26

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.15	12.04	11.93	11.81	11.70	11.59	11.53	11.48	11.42
45.0	12.04	11.93	11.81	11.70	11.64	11.59	11.53	11.42	11.36
90.0	12.04	11.87	11.81	11.70	11.64	11.53	11.48	11.42	11.36
135.0	12.26	12.15	11.98	11.93	11.81	11.70	11.64	11.53	11.48
180.0	12.15	11.98	11.87	11.81	11.70	11.59	11.48	11.42	11.42
225.0	12.04	11.93	11.81	11.70	11.64	11.53	11.48	11.42	11.36
270.0	12.04	11.87	11.81	11.70	11.64	11.53	11.48	11.42	11.36
315.0	12.09	11.98	11.87	11.76	11.64	11.59	11.48	11.42	11.36
360.0	12.15	12.04	11.93	11.81	11.70	11.59	11.53	11.48	11.42

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.36	11.25	11.25	11.19	11.14	11.08	11.08	11.03	10.97
45.0	11.31	11.25	11.25	11.19	11.14	11.08	11.03	11.03	11.03
90.0	11.31	11.25	11.14	11.14	11.14	11.08	11.03	10.97	10.97
135.0	11.42	11.36	11.31	11.25	11.19	11.14	11.14	11.03	11.03
180.0	11.36	11.31	11.19	11.14	11.14	11.08	11.08	11.08	11.03
225.0	11.31	11.25	11.19	11.19	11.08	11.03	11.03	10.97	10.97
270.0	11.31	11.25	11.19	11.14	11.08	11.03	10.97	10.97	10.97
315.0	11.31	11.25	11.19	11.14	11.14	11.03	11.03	11.03	10.97
360.0	11.36	11.25	11.25	11.19	11.14	11.08	11.08	11.03	10.97

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.97	10.91	10.91	10.91	10.86	10.86	10.80	10.80	10.74
45.0	10.97	10.91	10.91	10.86	10.91	10.86	10.80	10.80	10.74
90.0	10.91	10.91	10.91	10.86	10.86	10.80	10.80	10.80	10.74
135.0	11.03	11.03	10.97	10.91	10.91	10.91	10.86	10.80	10.80
180.0	10.97	10.97	10.91	10.91	10.86	10.86	10.86	10.80	10.80
225.0	10.91	10.91	10.86	10.86	10.86	10.86	10.80	10.80	10.74
270.0	10.91	10.91	10.86	10.86	10.80	10.80	10.74	10.80	10.74
315.0	10.91	10.91	10.86	10.86	10.80	10.80	10.80	10.80	10.74
360.0	10.97	10.91	10.91	10.91	10.86	10.86	10.80	10.80	10.74

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.74	10.74	10.74	10.69	10.74	10.86	10.63	10.63	10.63
45.0	10.80	10.74	10.74	10.74	10.69	10.69	10.63	10.63	10.63
90.0	10.69	10.69	10.69	10.69	10.63	10.63	10.63	10.58	10.58
135.0	10.80	10.74	10.74	10.74	10.74	10.80	10.69	10.63	10.58
180.0	10.74	10.74	10.74	10.80	10.97	11.14	10.63	10.58	10.58
225.0	10.74	10.74	10.74	10.74	10.74	10.69	10.74	10.63	10.58
270.0	10.74	10.69	10.69	10.69	10.69	10.69	10.63	10.58	10.58
315.0	10.69	10.69	10.69	10.69	10.74	10.86	10.63	10.63	10.58
360.0	10.74	10.74	10.74	10.69	10.74	10.86	10.63	10.63	10.63

Intensity data(cd)

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