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: 2-1793-N
Luminaire: 92.70.131.00

Report No: NATA0100	Voltage(V): 35.3000
Test No: GC2019011714	Current(A): 0.7000
LampCAT: LUMINUS CLM-14-AC30	Power (W): 24.7100
Lamp flux(lm): 3658.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 69	Width(mm): 69
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3073.34
Efficiency(%): 84.02%
Lumens(lm)/Power(W): 124.54
Central intensity(cd): 17312.350
Maximum intensity(cd): 17312.350
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=18.1
[C90/270]Total=18.1
Field angle(10%Imax): [C0/180]Total=44.1
[C90/270]Total=44.1
Maximum s/h(1/2): C0_180=0.31 C90_270=0.31
Maximum s/h(1/4): C0_180=0.33 C90_270=0.33
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.13%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.020%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	17312.344	4.142	4.142	.113%	.135%
1.0	17152.031	32.826	36.968	.897%	1.203%
2.0	16642.969	63.694	100.663	1.741%	3.275%
3.0	15846.328	90.945	191.608	2.486%	6.235%
4.0	14885.859	113.870	305.478	3.113%	9.940%
5.0	13668.961	130.642	436.12	3.571%	14.190%
6.0	12451.641	142.729	578.85	3.902%	18.835%
7.0	11242.477	150.248	729.097	4.107%	23.723%
8.0	9993.586	152.521	881.618	4.170%	28.686%
9.0	8704.688	149.327	1030.945	4.082%	33.545%
10.0	7536.656	143.516	1174.461	3.923%	38.214%
11.0	6495.680	135.917	1310.378	3.716%	42.637%
12.0	5546.672	126.463	1436.841	3.457%	46.752%
13.0	4758.539	117.385	1554.226	3.209%	50.571%
14.0	4104.000	108.877	1663.103	2.976%	54.114%
15.0	3579.328	101.590	1764.692	2.777%	57.419%
16.0	3186.352	96.313	1861.005	2.633%	60.553%
17.0	2835.633	90.915	1951.92	2.485%	63.511%
18.0	2533.148	85.841	2037.761	2.347%	66.304%
19.0	2331.422	83.237	2120.998	2.275%	69.013%
20.0	2088.633	78.337	2199.335	2.142%	71.562%
21.0	1891.406	74.330	2273.665	2.032%	73.980%
22.0	1738.336	71.410	2345.075	1.952%	76.304%
23.0	1596.586	68.410	2413.486	1.870%	78.530%
24.0	1474.945	65.787	2479.273	1.798%	80.670%
25.0	1374.820	63.716	2542.989	1.742%	82.743%
26.0	1270.378	61.070	2604.058	1.669%	84.731%
27.0	1161.984	57.849	2661.908	1.581%	86.613%
28.0	1041.349	53.611	2715.519	1.466%	88.357%
29.0	916.559	48.729	2764.248	1.332%	89.943%
30.0	785.215	43.054	2807.301	1.177%	91.344%
31.0	654.982	36.993	2844.294	1.011%	92.547%
32.0	515.848	29.977	2874.271	.819%	93.523%
33.0	402.820	24.059	2898.33	.658%	94.306%
34.0	292.915	17.962	2916.292	.491%	94.890%
35.0	208.765	13.131	2929.423	.359%	95.317%
36.0	145.406	9.372	2938.795	.256%	95.622%
37.0	101.074	6.670	2945.466	.182%	95.839%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	81.675	5.514	2950.98	.151%	96.019%
39.0	71.916	4.963	2955.943	.136%	96.180%
40.0	64.547	4.550	2960.493	.124%	96.328%
41.0	58.268	4.192	2964.685	.115%	96.465%
42.0	53.220	3.905	2968.59	.107%	96.592%
43.0	48.382	3.618	2972.208	.099%	96.709%
44.0	44.360	3.379	2975.588	.092%	96.819%
45.0	40.922	3.173	2978.761	.087%	96.923%
46.0	38.011	2.998	2981.759	.082%	97.020%
47.0	35.557	2.852	2984.611	.078%	97.113%
48.0	33.532	2.733	2987.344	.075%	97.202%
49.0	31.823	2.634	2989.977	.072%	97.288%
50.0	30.333	2.548	2992.525	.070%	97.370%
51.0	29.173	2.486	2995.012	.068%	97.451%
52.0	28.308	2.446	2997.458	.067%	97.531%
53.0	27.492	2.408	2999.866	.066%	97.609%
54.0	26.880	2.385	3002.25	.065%	97.687%
55.0	26.388	2.370	3004.621	.065%	97.764%
56.0	26.009	2.365	3006.985	.065%	97.841%
57.0	25.643	2.358	3009.344	.064%	97.918%
58.0	25.355	2.358	3011.702	.064%	97.994%
59.0	25.073	2.357	3014.058	.064%	98.071%
60.0	24.834	2.358	3016.417	.064%	98.148%
61.0	24.666	2.366	3018.783	.065%	98.225%
62.0	24.525	2.375	3021.157	.065%	98.302%
63.0	24.258	2.370	3023.527	.065%	98.379%
64.0	23.934	2.359	3025.886	.064%	98.456%
65.0	23.513	2.337	3028.223	.064%	98.532%
66.0	22.929	2.297	3030.52	.063%	98.607%
67.0	22.352	2.256	3032.777	.062%	98.680%
68.0	21.762	2.213	3034.989	.060%	98.752%
69.0	21.178	2.168	3037.157	.059%	98.823%
70.0	20.686	2.132	3039.289	.058%	98.892%
71.0	20.088	2.083	3041.372	.057%	98.960%
72.0	19.568	2.041	3043.413	.056%	99.026%
73.0	19.055	1.998	3045.411	.055%	99.091%
74.0	18.577	1.958	3047.369	.054%	99.155%
75.0	18.105	1.918	3049.287	.052%	99.217%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.670	1.880	3051.167	.051%	99.279%
77.0	17.304	1.849	3053.016	.051%	99.339%
78.0	16.945	1.818	3054.834	.050%	99.398%
79.0	16.594	1.786	3056.62	.049%	99.456%
80.0	16.235	1.753	3058.373	.048%	99.513%
81.0	15.912	1.723	3060.097	.047%	99.569%
82.0	15.588	1.693	3061.789	.046%	99.624%
83.0	15.216	1.656	3063.446	.045%	99.678%
84.0	14.864	1.621	3065.067	.044%	99.731%
85.0	14.513	1.585	3066.652	.043%	99.782%
86.0	14.112	1.544	3068.196	.042%	99.833%
87.0	13.753	1.506	3069.702	.041%	99.882%
88.0	13.402	1.469	3071.171	.040%	99.929%
89.0	13.233	1.451	3072.622	.040%	99.977%
90.0	13.099	0.718	3073.34	.020%	100.000%

Zonal flux distribution table

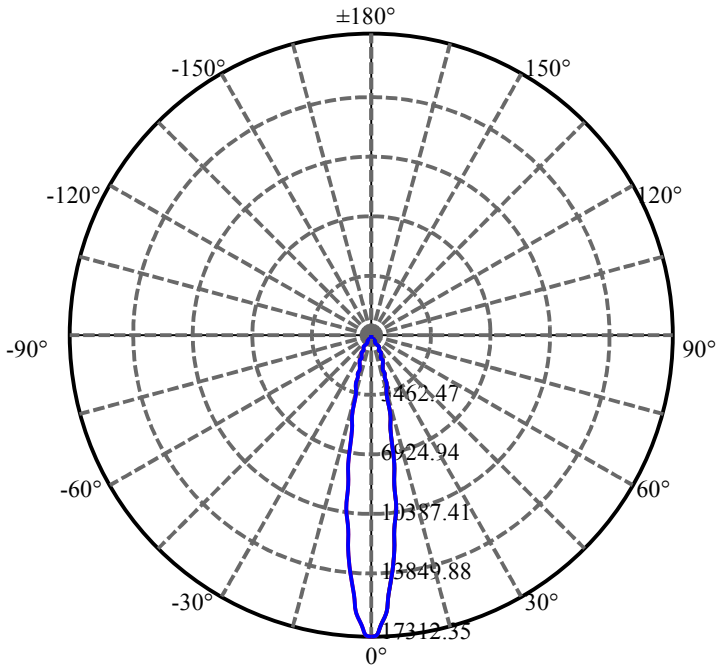
ZONAL LUMEN SUMMARY

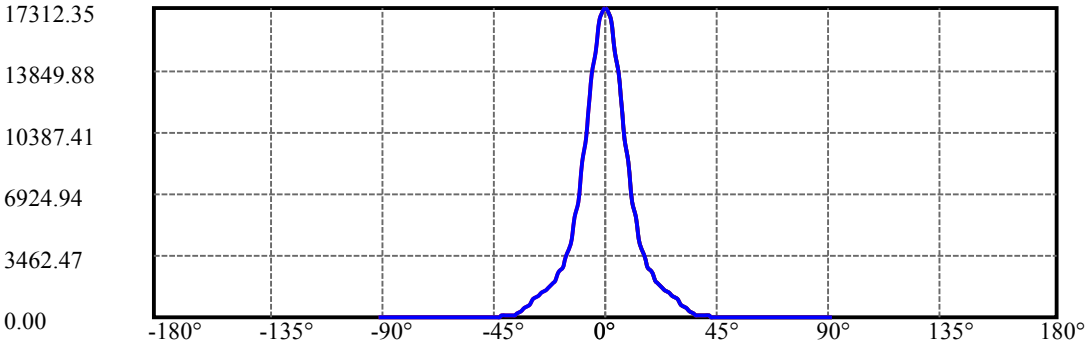
Zone	Lumens	%Lamp	%Fixt
0-30	2807.30	76.74%	91.34%
0-40	2960.49	80.93%	96.33%
0-60	3016.42	82.46%	98.15%
0-90	3072.62	84.00%	99.98%
0-120	3072.62	84.00%	99.98%
0-180	3073.34	84.02%	100.00%
60-90	58.56	1.60%	1.91%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-23.69	2458.67	67.21%	80.00%

ZONAL LUMEN SUMMARY

0-10	1174.46
10-20	1024.87
20-30	607.97
30-40	153.19
40-50	32.03
50-60	23.89
60-70	22.87
70-80	19.08
80-90	14.25
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:22.1 Right:22.1
:C90/270Left:22.1 Right:22.1

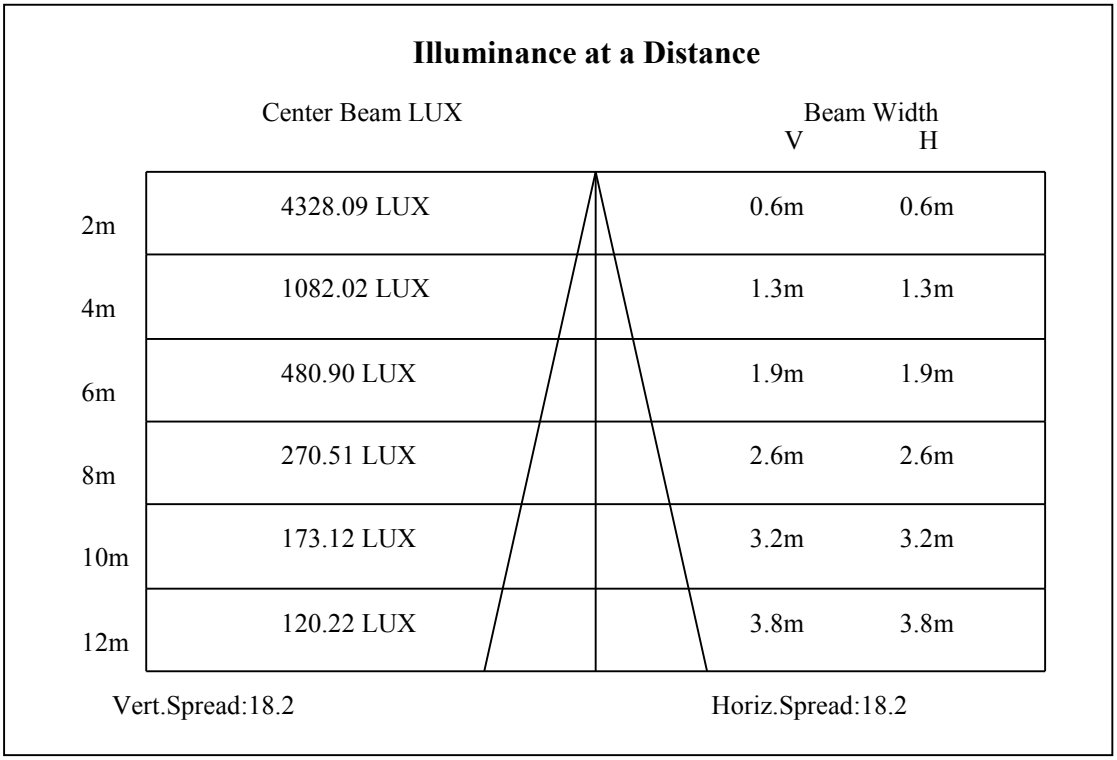
Beam Angle(50%Imax):C0/180Left:9.0 Right:9.0
:C90/270Left:9.0 Right:9.0

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/17
Humidity(%): 65.0%

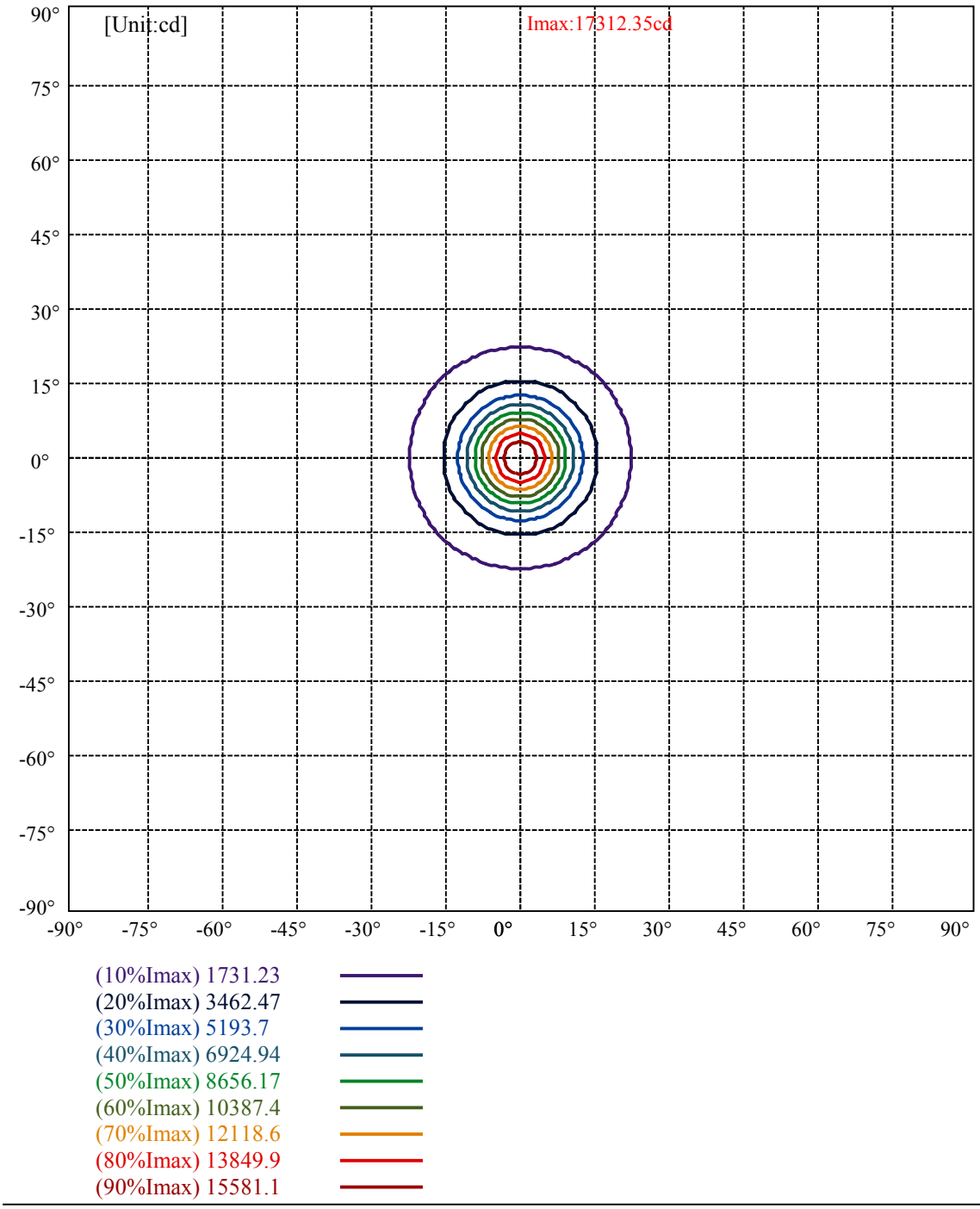
Operator: NT07
Distance(m): 7.50

Lux distance Curve



Equipment: GMS1980 Date: 2019/1/17 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

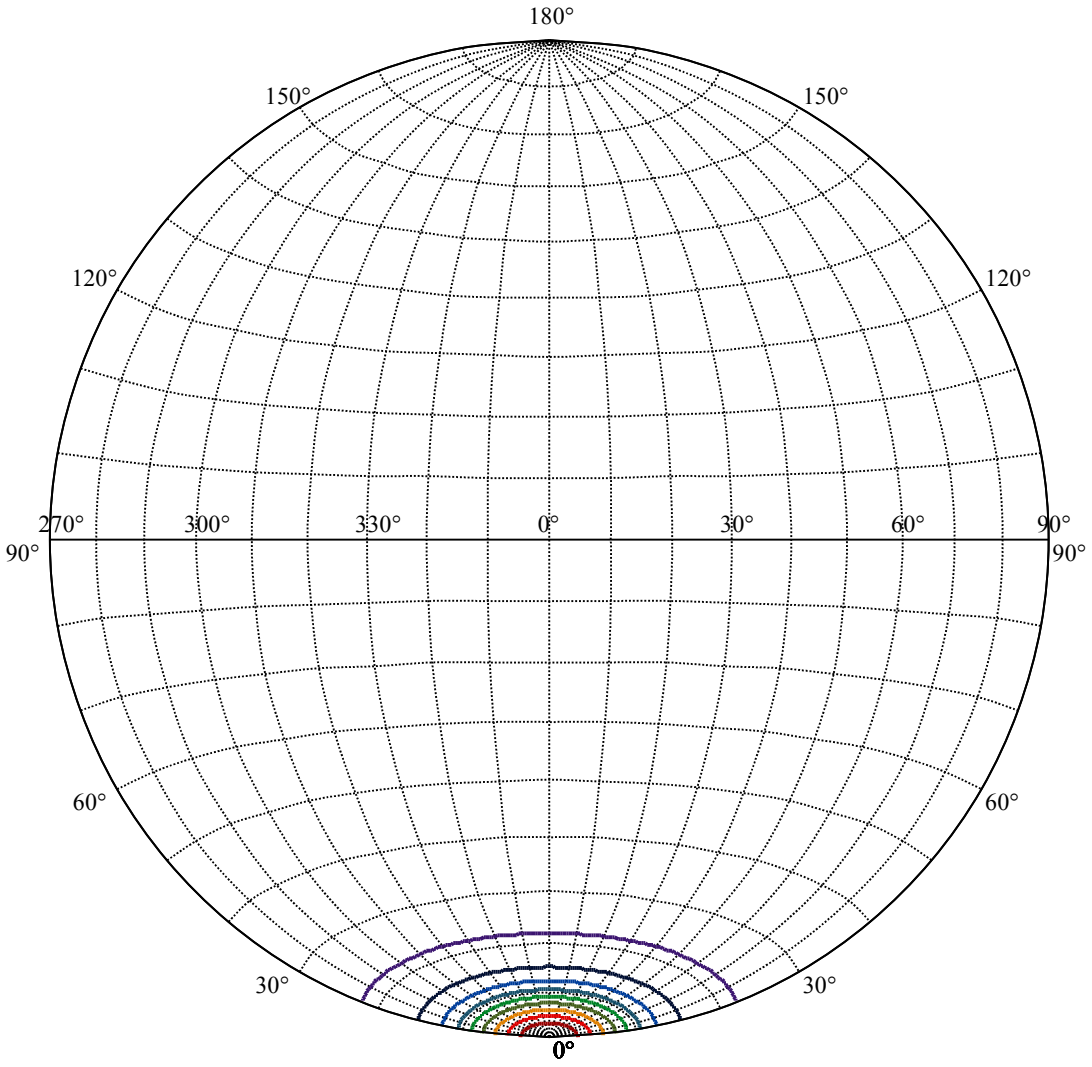


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/17
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web

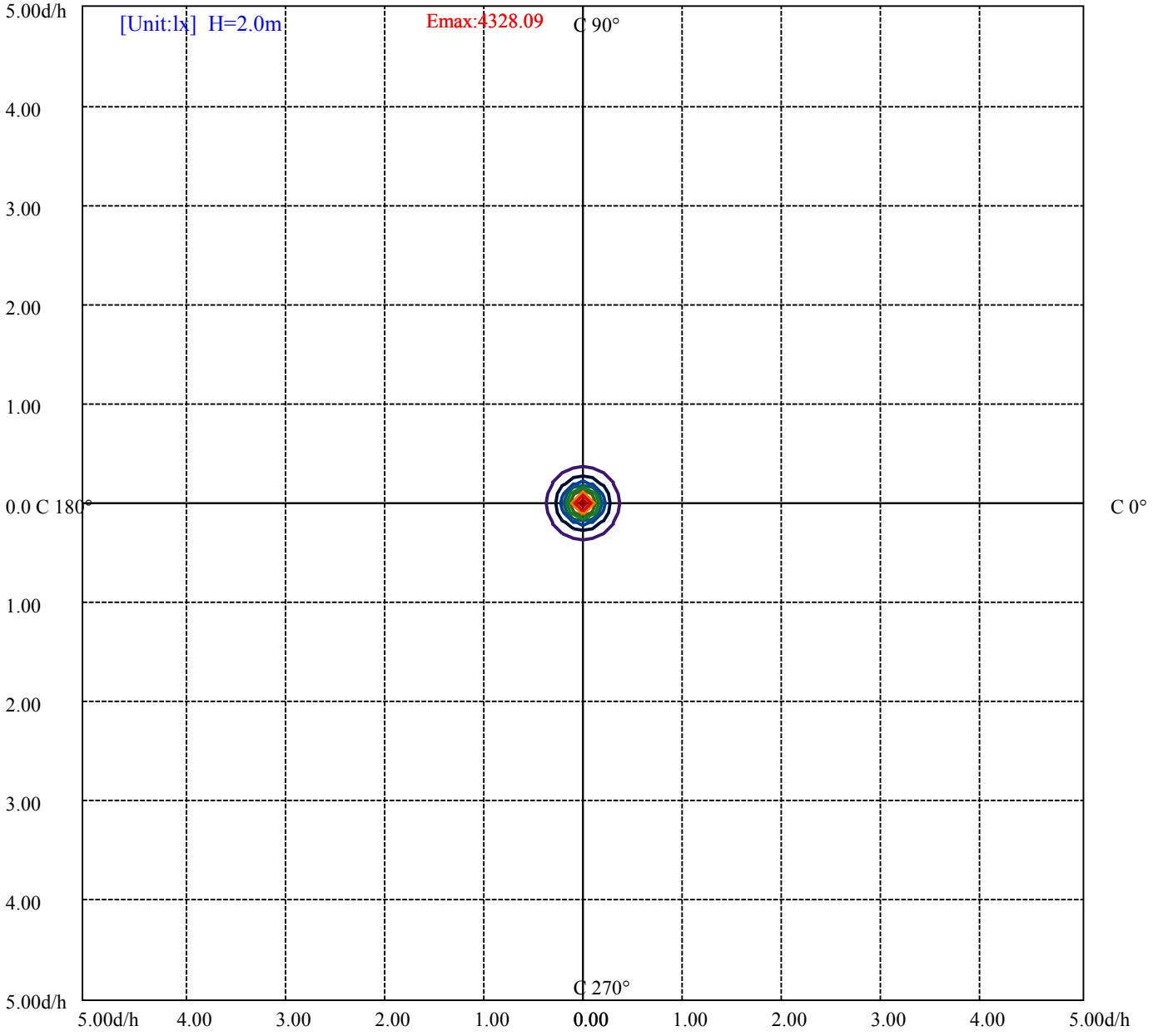


House [Unit:cd] Road

Imax:17312.35

(10%Imax) 1731.23
(20%Imax) 3462.47
(30%Imax) 5193.7
(40%Imax) 6924.94
(50%Imax) 8656.17
(60%Imax) 10387.4
(70%Imax) 12118.6
(80%Imax) 13849.9
(90%Imax) 15581.1

ISO illuminance diagram

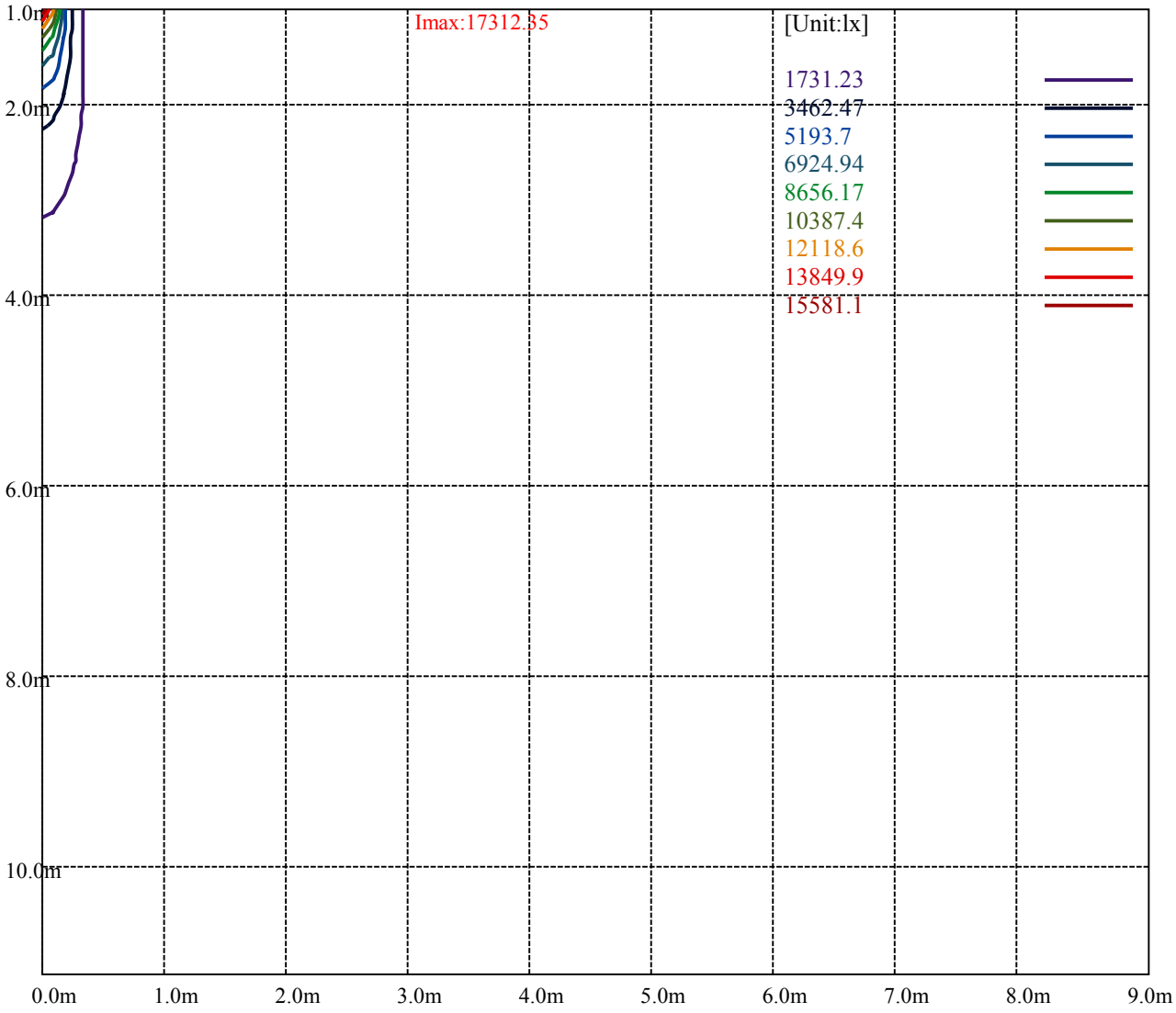


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/17
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/17
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

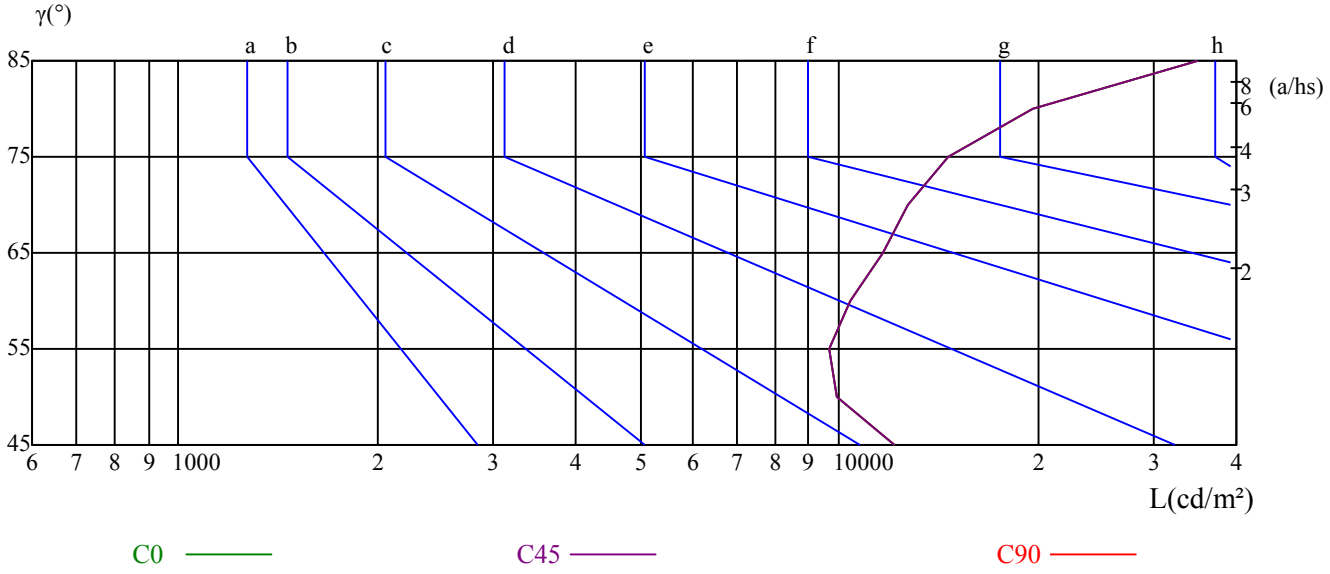
γ	45	50	55	60	65	70	75	80	85
C0	12155	9912	9663	10432	11686	12704	14693	19638	34974
C45	12155	9912	9663	10432	11686	12704	14693	19638	34974
C90	12155	9912	9663	10432	11686	12704	14693	19638	34974

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11686	11686	11686	14693	14693	14693	34974	34974	34974

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

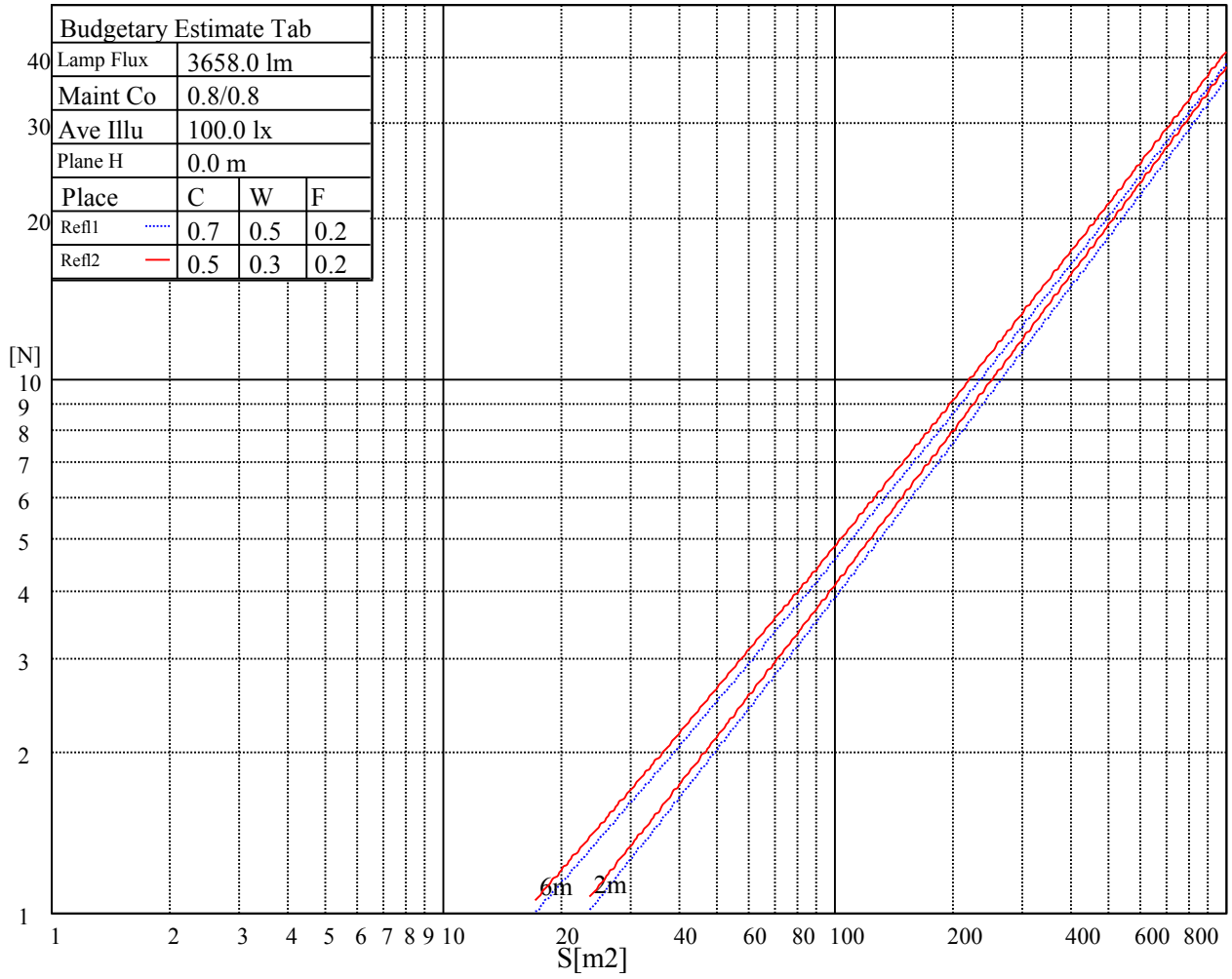
Luminance Limitting Curve



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	6.75	7.68	7.12	7.99	8.31	6.86	7.80	7.23	8.11	8.42
	3H	9.54	10.36	9.92	10.70	11.07	9.63	10.45	10.01	10.78	11.15
	4H	10.85	11.61	11.26	11.96	12.36	10.93	11.70	11.34	12.05	12.44
	6H	12.27	12.97	12.69	13.34	13.74	12.35	13.05	12.77	13.43	13.82
	8H	13.05	13.70	13.49	14.10	14.51	13.13	13.79	13.57	14.18	14.59
	12H	14.36	14.99	14.80	15.37	15.80	14.44	15.07	14.88	15.45	15.89
4H	2H	7.61	8.38	8.02	8.73	9.12	7.69	8.46	8.10	8.81	9.20
	3H	10.57	11.20	10.99	11.61	12.01	10.64	11.27	11.06	11.68	12.08
	4H	12.03	12.59	12.47	13.02	13.46	12.10	12.66	12.54	13.08	13.53
	6H	13.53	14.01	14.00	14.46	14.93	13.60	14.08	14.07	14.53	15.01
	8H	14.43	14.88	14.91	15.33	15.81	14.50	14.95	14.98	15.40	15.88
	12H	15.72	16.10	16.21	16.59	17.07	15.79	16.17	16.28	16.66	17.14
8H	4H	12.58	13.03	13.06	13.48	13.96	12.64	13.08	13.11	13.53	14.01
	6H	14.37	14.72	14.88	15.23	15.72	14.43	14.78	14.94	15.29	15.77
	8H	15.46	15.77	16.00	16.30	16.80	15.52	15.83	16.06	16.36	16.85
	12H	16.99	17.25	17.51	17.75	18.33	17.04	17.31	17.57	17.81	18.39
12H	4H	12.71	13.10	13.20	13.59	14.06	12.76	13.14	13.25	13.63	14.11
	6H	14.84	14.93	15.15	15.40	15.95	14.89	14.98	15.21	15.45	16.00
	8H	15.83	16.10	16.35	16.60	17.18	15.88	16.15	16.41	16.65	17.23

Variation with the observer position at spacings:		
S = 1.0H	3.6/-2.0	3.6/-2.0
S = 1.5H	4.5/-1.7	4.5/-1.7
S = 2.0H	5.1/-1.3	5.1/-1.3
Standard tables:	BKBF	BKBF
Uncorrected UGR	3.8	3.8

Budgetary Estimate Table

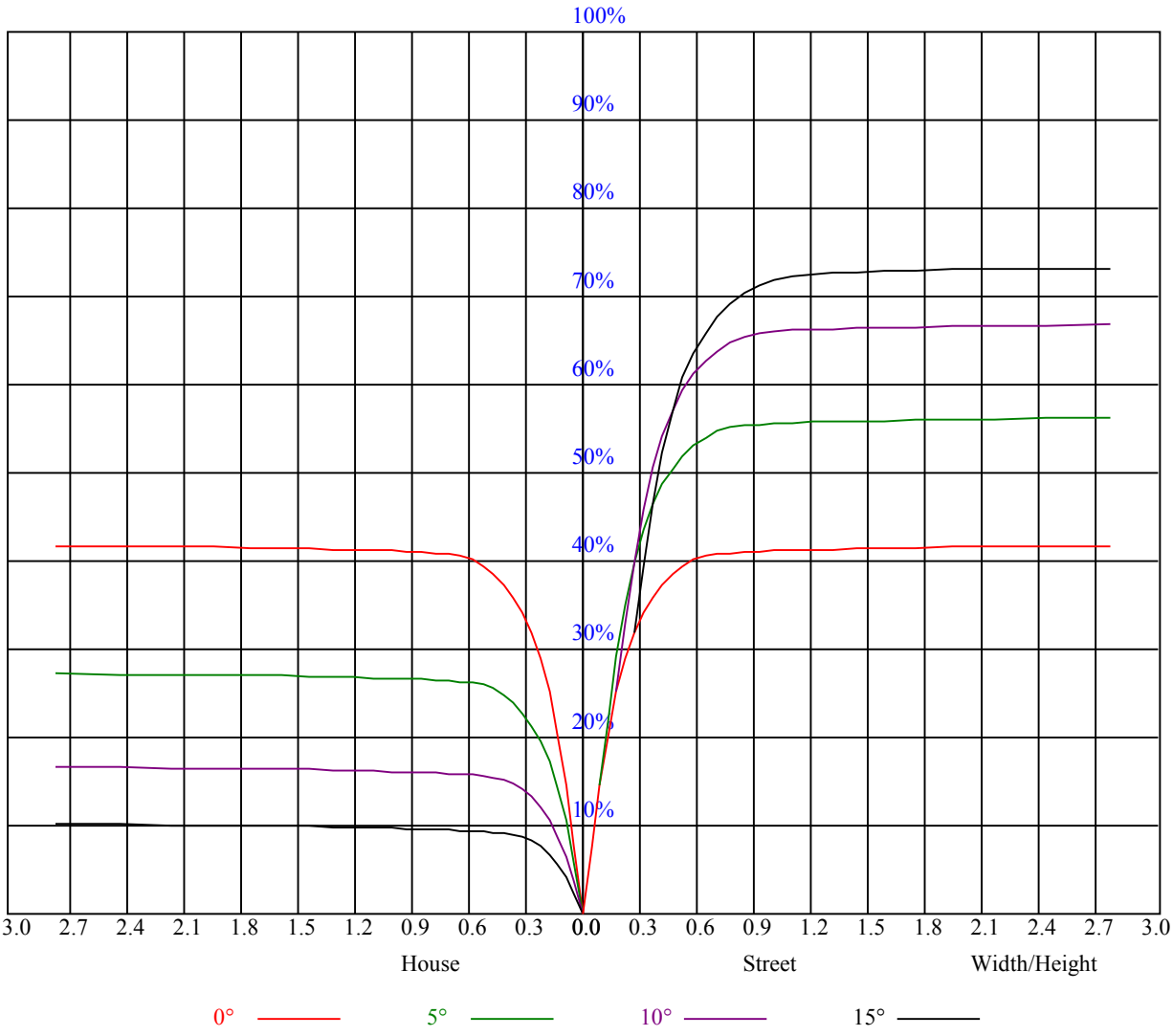


Equipment: GMS1980 Date: 2019/1/17 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.00	1.00	1.00	0.98	0.98	0.98	0.93	0.93	0.93	0.89	0.89	0.89	0.86	0.86	0.86	0.84
1	0.94	0.92	0.91	0.92	0.91	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.80
2	0.89	0.87	0.84	0.88	0.86	0.83	0.85	0.83	0.82	0.83	0.81	0.80	0.81	0.79	0.78	0.77
3	0.85	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.80	0.78	0.76	0.78	0.77	0.75	0.74
4	0.82	0.78	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.76	0.74	0.73	0.72
5	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.71	0.74	0.72	0.70	0.69
6	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.72	0.70	0.68	0.67
7	0.73	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.70	0.68	0.66	0.65
8	0.71	0.67	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.66	0.64	0.63
9	0.69	0.65	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.67	0.64	0.62	0.61
10	0.67	0.63	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.65	0.63	0.61	0.65	0.62	0.61	0.60

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/1/17	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	17150.63	17544.38	17589.38	17167.50	16515.00	15637.50	14349.38	13201.88	12020.63
45.0	17460.00	17336.25	16773.75	16048.13	15142.50	13826.25	12667.50	11463.75	10265.63
90.0	17251.88	16638.75	15868.13	14838.75	13629.38	12465.00	11100.94	9872.44	8522.44
135.0	17386.88	16835.63	16070.63	14900.63	13815.00	12656.25	11160.00	9933.75	8735.63
180.0	17150.63	16509.38	15435.00	14411.25	13286.25	11184.19	10572.19	9347.06	8016.75
225.0	17460.00	17206.88	16593.75	15688.13	14715.00	13483.13	11953.13	11010.94	9678.94
270.0	17251.88	17493.75	17325.00	16779.38	16020.00	14985.00	13764.38	12616.88	11576.25
315.0	17386.88	17651.25	17488.13	16936.88	15963.75	15114.38	14045.63	12493.13	11132.44
360.0	17150.63	17544.38	17589.38	17167.50	16515.00	15637.50	14349.38	13201.88	12020.63

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	10670.63	9326.25	8156.25	6935.63	5968.13	5062.50	4325.63	3785.63	3307.50
45.0	8775.00	7616.25	6575.63	5557.50	4713.75	4111.88	3560.63	3127.50	2896.88
90.0	7386.19	6261.19	5302.13	4587.75	4004.44	3427.88	3062.81	2762.44	2469.94
135.0	7323.75	6300.00	5416.88	4595.63	3943.13	3476.25	3060.00	2868.75	2487.94
180.0	6806.25	5862.38	4972.50	4318.88	3666.94	3263.06	2933.44	2655.56	2358.56
225.0	8516.25	7283.81	6174.56	5325.75	4620.38	3917.25	3475.13	3112.88	2773.69
270.0	9939.38	8763.75	7773.75	6496.88	5495.63	4848.75	4089.38	3549.38	3211.88
315.0	10220.06	8879.63	7593.75	6555.38	5655.94	4724.44	4127.63	3628.69	3178.69
360.0	10670.63	9326.25	8156.25	6935.63	5968.13	5062.50	4325.63	3785.63	3307.50

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2936.25	2863.13	2427.19	2169.00	1987.88	1825.31	1660.50	1524.94	1424.81
45.0	2529.00	2301.19	2079.56	1881.56	1713.94	1573.88	1452.38	1364.06	1287.00
90.0	2218.50	2025.56	1830.38	1662.75	1535.63	1425.94	1342.13	1260.00	1110.77
135.0	2242.69	2058.19	1873.13	1705.50	1568.25	1461.38	1360.13	1283.06	1184.63
180.0	2153.25	1977.75	1797.19	1638.00	1523.81	1417.50	1322.44	1245.38	1117.07
225.0	2495.25	2280.38	2067.75	1877.63	1725.75	1573.88	1465.88	1363.50	1281.38
270.0	2863.13	2581.88	2330.44	2115.56	1942.31	1761.75	1600.88	1483.31	1382.06
315.0	2827.13	2563.31	2303.44	2081.25	1909.13	1733.06	1595.25	1474.31	1375.31
360.0	2936.25	2863.13	2427.19	2169.00	1987.88	1825.31	1660.50	1524.94	1424.81

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1327.50	1232.44	1125.00	987.19	858.94	714.94	578.25	460.69	346.50
45.0	1178.44	1069.31	942.75	795.94	654.19	534.38	406.13	289.69	232.09
90.0	1040.01	916.88	758.53	639.45	523.01	379.63	274.11	187.03	113.51
135.0	1040.06	910.13	775.13	628.88	490.50	373.50	291.94	158.79	106.09
180.0	1012.33	865.86	716.57	593.27	474.69	331.59	232.37	155.03	97.59
225.0	1121.85	1060.43	885.77	774.23	649.63	484.09	383.01	277.09	176.34
270.0	1271.81	1166.06	1047.94	907.31	761.63	637.88	507.38	383.63	292.50
315.0	1303.88	1109.70	1080.79	955.46	827.27	670.78	549.39	431.38	305.49
360.0	1327.50	1232.44	1125.00	987.19	858.94	714.94	578.25	460.69	346.50

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	291.94	141.75	100.58	84.99	74.31	66.38	60.64	54.17	49.73
45.0	121.67	94.11	81.79	70.65	63.79	58.28	51.86	47.70	43.82
90.0	89.21	80.04	69.41	62.66	57.49	51.19	47.70	43.37	39.26
135.0	86.68	77.06	68.74	62.04	56.64	52.48	47.59	43.59	40.84
180.0	85.84	77.18	67.73	61.14	56.42	50.96	46.80	42.92	39.71
225.0	109.29	89.89	79.03	68.63	62.04	56.76	52.03	47.08	42.98
270.0	180.45	119.93	91.69	81.73	71.38	64.01	57.83	52.71	47.98
315.0	198.17	128.64	94.44	83.48	74.31	66.09	61.31	55.52	50.57
360.0	291.94	141.75	100.58	84.99	74.31	66.38	60.64	54.17	49.73

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	45.45	41.68	38.87	36.06	34.09	32.40	30.66	29.76	28.80
45.0	39.66	36.84	34.48	32.51	30.88	29.42	28.41	27.51	26.66
90.0	37.07	34.71	32.46	31.05	29.64	28.29	27.56	26.83	26.21
135.0	37.97	35.33	34.03	32.46	30.77	29.93	29.03	28.24	27.68
180.0	37.29	34.76	33.19	31.50	30.38	29.25	28.41	27.73	27.23
225.0	39.77	37.29	34.09	32.63	30.99	29.25	28.35	27.45	26.72
270.0	43.59	40.39	37.91	35.21	33.08	31.39	29.81	28.80	27.79
315.0	46.58	43.09	39.43	36.84	34.76	32.74	31.16	30.15	28.86
360.0	45.45	41.68	38.87	36.06	34.09	32.40	30.66	29.76	28.80

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	27.96	27.17	26.83	26.27	25.88	25.65	25.31	25.03	24.92
45.0	25.99	25.82	25.26	25.09	24.86	24.47	24.41	24.13	23.96
90.0	25.82	25.37	25.20	24.92	24.75	24.58	24.41	24.41	24.41
135.0	27.28	26.78	26.33	26.10	25.76	25.48	25.20	24.98	24.86
180.0	26.78	26.38	26.10	25.59	25.43	25.26	24.86	24.86	24.58
225.0	26.10	25.76	25.37	25.03	24.75	24.41	24.30	24.08	23.96
270.0	27.06	26.49	26.04	25.65	25.26	24.98	24.69	24.53	24.47
315.0	28.07	27.34	26.94	26.49	26.16	25.76	25.48	25.31	25.03
360.0	27.96	27.17	26.83	26.27	25.88	25.65	25.31	25.03	24.92

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	24.53	24.58	24.30	23.74	23.23	22.73	21.99	21.49	20.93
45.0	24.08	23.68	23.23	22.78	22.05	21.49	20.98	20.42	19.91
90.0	24.08	23.57	23.06	22.39	21.83	21.32	20.70	20.25	19.74
135.0	24.47	23.74	23.29	22.56	21.99	21.38	20.87	20.36	19.69
180.0	24.02	23.46	22.95	22.28	21.77	21.09	20.64	20.25	19.58
225.0	23.79	23.51	22.95	22.50	21.77	21.38	20.76	20.19	19.69
270.0	24.24	24.13	23.91	23.29	22.78	22.05	21.49	20.98	20.31
315.0	24.86	24.81	24.41	23.91	23.40	22.67	21.99	21.54	20.87
360.0	24.53	24.58	24.30	23.74	23.23	22.73	21.99	21.49	20.93

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	20.42	19.86	19.29	18.90	18.39	18.00	17.66	17.27	16.93
45.0	19.29	18.84	18.45	17.89	17.49	17.16	16.76	16.43	16.03
90.0	19.13	18.68	18.17	17.72	17.33	16.99	16.65	16.31	15.98
135.0	19.24	18.73	18.28	17.83	17.38	17.04	16.65	16.26	15.92
180.0	19.13	18.62	18.11	17.66	17.38	16.99	16.65	16.26	15.92
225.0	19.07	18.62	18.23	17.66	17.27	16.93	16.59	16.26	15.92
270.0	19.91	19.29	18.79	18.28	17.83	17.49	17.10	16.76	16.43
315.0	20.36	19.80	19.29	18.90	18.28	17.83	17.49	17.21	16.76
360.0	20.42	19.86	19.29	18.90	18.39	18.00	17.66	17.27	16.93

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	16.59	16.14	15.81	15.36	15.02	14.63	14.29	13.95	13.73
45.0	15.69	15.36	14.96	14.57	14.23	13.89	13.56	13.28	12.99
90.0	15.69	15.47	15.02	14.51	13.95	13.56	13.22	12.99	12.99
135.0	15.58	15.19	14.79	14.51	14.18	13.78	13.50	13.11	13.05
180.0	15.58	15.30	14.91	14.63	14.34	13.89	13.61	13.11	13.11
225.0	15.58	15.30	14.96	14.68	14.34	14.06	13.61	13.33	13.05
270.0	16.14	15.86	15.58	15.30	15.02	14.46	14.01	13.61	13.39
315.0	16.43	16.09	15.69	15.36	15.02	14.63	14.23	13.84	13.56
360.0	16.59	16.14	15.81	15.36	15.02	14.63	14.29	13.95	13.73

Intensity data(cd)

C/γ(°)	90.0
0.0	13.44
45.0	12.94
90.0	12.99
135.0	13.05
180.0	13.11
225.0	12.94
270.0	13.05
315.0	13.28
360.0	13.44