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NATA

LumCAT: 3-1545-A3
Luminaire: 99.02.73.172+92.76.365.00

Report No: NATA0100	Voltage(V): 35.1000
Test No: GC2019011511	Current(A): 0.7000
LampCAT: LUMINUS CLM-14-AC30	Power (W): 24.5700
Lamp flux(lm): 3533.0	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): 3185.02
Efficiency(%): 90.15%
Lumens(lm)/Power(W): 129.90
Central intensity(cd): 28027.970
Maximum intensity(cd): 28027.970
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=13.6
[C90/270]Total=13.6
Field angle(10%Imax): [C0/180]Total=27.0
[C90/270]Total=27.0
Maximum s/h(1/2): C0_180=0.23 C90_270=0.23
Maximum s/h(1/4): C0_180=0.23 C90_270=0.23
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.34%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.517%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	28027.969	6.706	6.706	.190%	.211%
1.0	27810.703	53.225	59.931	1.507%	1.882%
2.0	26872.734	102.845	162.776	2.911%	5.111%
3.0	25373.672	145.625	308.401	4.122%	9.683%
4.0	23295.234	178.198	486.599	5.044%	15.278%
5.0	20240.156	193.447	680.046	5.475%	21.351%
6.0	16586.156	190.122	870.167	5.381%	27.321%
7.0	13294.195	177.668	1047.835	5.029%	32.899%
8.0	10187.648	155.482	1203.317	4.401%	37.780%
9.0	7914.938	135.779	1339.096	3.843%	42.044%
10.0	6015.867	114.557	1453.653	3.242%	45.640%
11.0	4611.797	96.499	1550.151	2.731%	48.670%
12.0	3690.703	84.147	1634.298	2.382%	51.312%
13.0	3059.297	75.468	1709.766	2.136%	53.681%
14.0	2551.781	67.697	1777.463	1.916%	55.807%
15.0	2257.664	64.078	1841.541	1.814%	57.819%
16.0	1996.172	60.338	1901.879	1.708%	59.713%
17.0	1804.008	57.840	1959.718	1.637%	61.529%
18.0	1675.125	56.765	2016.483	1.607%	63.311%
19.0	1584.984	56.587	2073.071	1.602%	65.088%
20.0	1513.406	56.762	2129.833	1.607%	66.870%
21.0	1459.969	57.375	2187.208	1.624%	68.672%
22.0	1421.367	58.389	2245.597	1.653%	70.505%
23.0	1382.625	59.243	2304.84	1.677%	72.365%
24.0	1345.781	60.026	2364.866	1.699%	74.250%
25.0	1312.945	60.848	2425.714	1.722%	76.160%
26.0	1280.953	61.578	2487.292	1.743%	78.093%
27.0	1250.086	62.236	2549.528	1.762%	80.047%
28.0	1216.898	62.649	2612.177	1.773%	82.014%
29.0	1184.555	62.976	2675.153	1.783%	83.992%
30.0	1150.643	63.090	2738.244	1.786%	85.972%
31.0	1116.063	63.035	2801.278	1.784%	87.952%
32.0	1054.976	61.306	2862.584	1.735%	89.876%
33.0	957.741	57.202	2919.786	1.619%	91.672%
34.0	838.434	51.414	2971.2	1.455%	93.287%
35.0	687.248	43.227	3014.427	1.224%	94.644%
36.0	537.532	34.648	3049.075	.981%	95.732%
37.0	403.467	26.627	3075.702	.754%	96.568%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	302.203	20.403	3096.105	.577%	97.208%
39.0	147.354	10.169	3106.274	.288%	97.528%
40.0	78.427	5.528	3111.802	.156%	97.701%
41.0	47.798	3.439	3115.241	.097%	97.809%
42.0	36.162	2.653	3117.895	.075%	97.892%
43.0	29.510	2.207	3120.102	.062%	97.962%
44.0	25.305	1.928	3122.029	.055%	98.022%
45.0	21.537	1.670	3123.699	.047%	98.075%
46.0	18.563	1.464	3125.164	.041%	98.121%
47.0	17.522	1.405	3126.569	.040%	98.165%
48.0	17.093	1.393	3127.962	.039%	98.208%
49.0	16.741	1.386	3129.347	.039%	98.252%
50.0	16.390	1.377	3130.724	.039%	98.295%
51.0	16.088	1.371	3132.095	.039%	98.338%
52.0	15.813	1.366	3133.462	.039%	98.381%
53.0	15.553	1.362	3134.824	.039%	98.424%
54.0	15.286	1.356	3136.18	.038%	98.466%
55.0	15.068	1.354	3137.534	.038%	98.509%
56.0	14.885	1.353	3138.887	.038%	98.551%
57.0	14.674	1.350	3140.236	.038%	98.594%
58.0	14.513	1.350	3141.586	.038%	98.636%
59.0	14.344	1.348	3142.934	.038%	98.679%
60.0	14.168	1.346	3144.28	.038%	98.721%
61.0	14.070	1.349	3145.629	.038%	98.763%
62.0	13.936	1.349	3146.979	.038%	98.805%
63.0	13.816	1.350	3148.329	.038%	98.848%
64.0	13.704	1.351	3149.679	.038%	98.890%
65.0	13.634	1.355	3151.034	.038%	98.933%
66.0	13.514	1.354	3152.388	.038%	98.975%
67.0	13.444	1.357	3153.745	.038%	99.018%
68.0	13.359	1.358	3155.104	.038%	99.061%
69.0	13.303	1.362	3156.465	.039%	99.103%
70.0	13.254	1.366	3157.831	.039%	99.146%
71.0	13.205	1.369	3159.2	.039%	99.189%
72.0	13.163	1.373	3160.573	.039%	99.232%
73.0	13.127	1.377	3161.95	.039%	99.276%
74.0	13.092	1.380	3163.33	.039%	99.319%
75.0	13.064	1.384	3164.714	.039%	99.362%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.043	1.388	3166.102	.039%	99.406%
77.0	13.001	1.389	3167.491	.039%	99.450%
78.0	12.994	1.394	3168.884	.039%	99.493%
79.0	12.952	1.394	3170.279	.039%	99.537%
80.0	12.945	1.398	3171.677	.040%	99.581%
81.0	12.923	1.400	3173.076	.040%	99.625%
82.0	12.930	1.404	3174.48	.040%	99.669%
83.0	12.895	1.404	3175.884	.040%	99.713%
84.0	12.916	1.409	3177.293	.040%	99.757%
85.0	12.916	1.411	3178.704	.040%	99.802%
86.0	12.923	1.414	3180.117	.040%	99.846%
87.0	12.811	1.403	3181.52	.040%	99.890%
88.0	12.790	1.402	3182.922	.040%	99.934%
89.0	12.776	1.401	3184.323	.040%	99.978%
90.0	12.783	0.701	3185.024	.020%	100.000%

Zonal flux distribution table

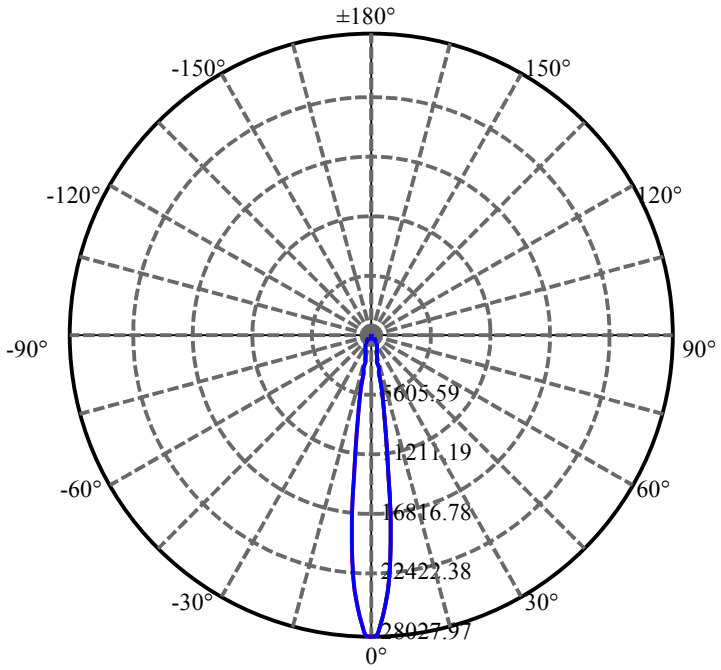
ZONAL LUMEN SUMMARY

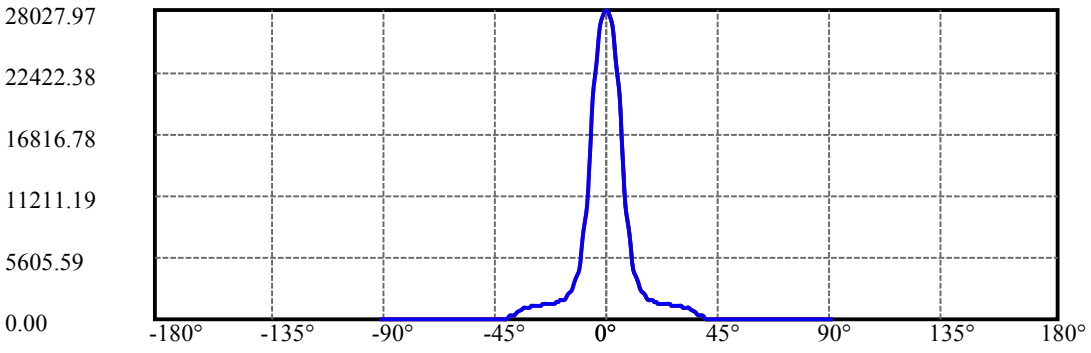
Zone	Lumens	%Lamp	%Fixt
0-30	2738.24	77.50%	85.97%
0-40	3111.80	88.08%	97.70%
0-60	3144.28	89.00%	98.72%
0-90	3184.32	90.13%	99.98%
0-120	3184.32	90.13%	99.98%
0-180	3185.02	90.15%	100.00%
60-90	41.39	1.17%	1.30%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.98	2548.02	72.12%	80.00%

ZONAL LUMEN SUMMARY

0-10	1453.65
10-20	676.18
20-30	608.41
30-40	373.56
40-50	18.92
50-60	13.56
60-70	13.55
70-80	13.85
80-90	12.65
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:13.5 Right:13.5
:C90/270Left:13.5 Right:13.5

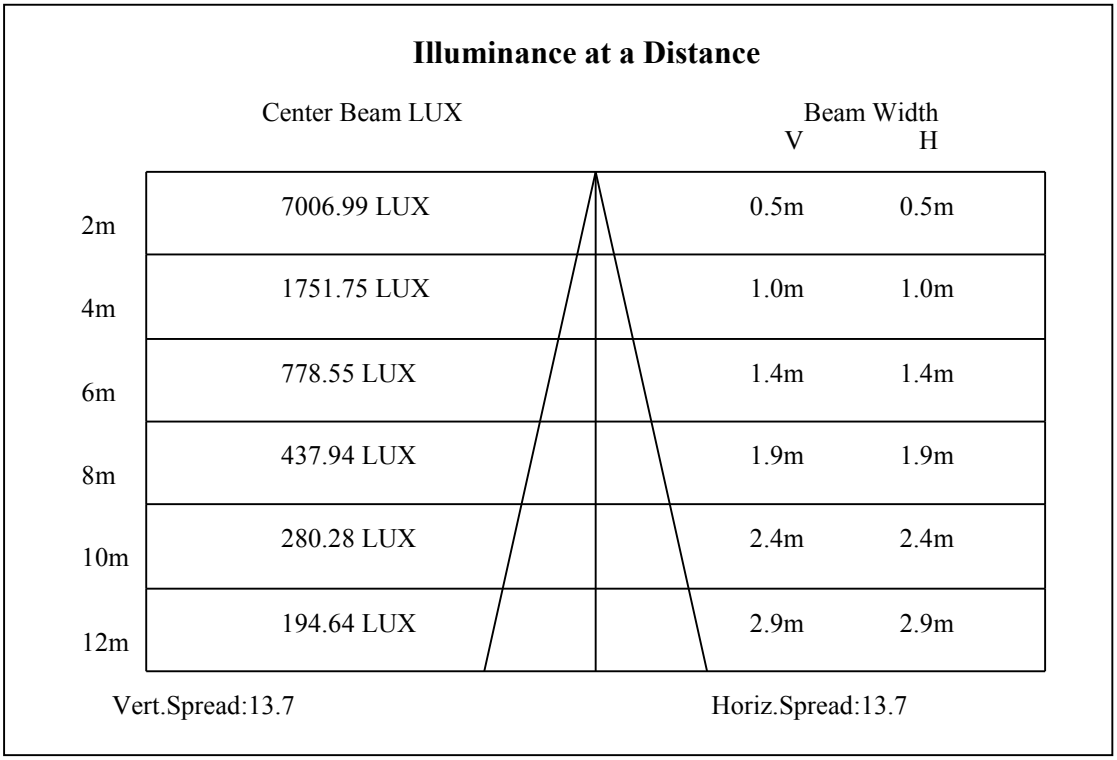
Beam Angle(50%Imax):C0/180Left:6.8 Right:6.8
:C90/270Left:6.8 Right:6.8

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/15
Humidity(%): 65.0%

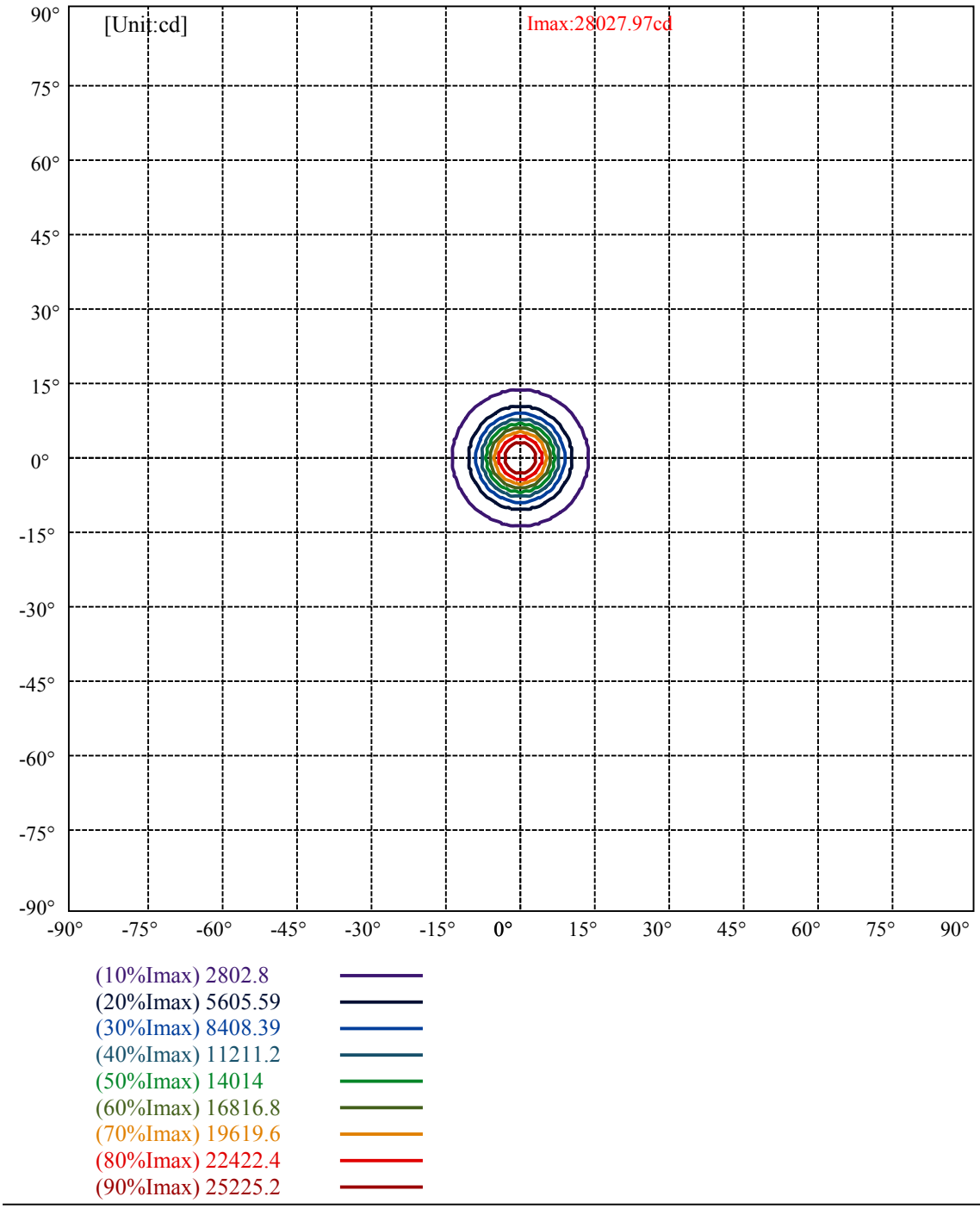
Operator: NT07
Distance(m): 7.50

Lux distance Curve



Equipment: GMS1980 Date: 2019/1/15 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

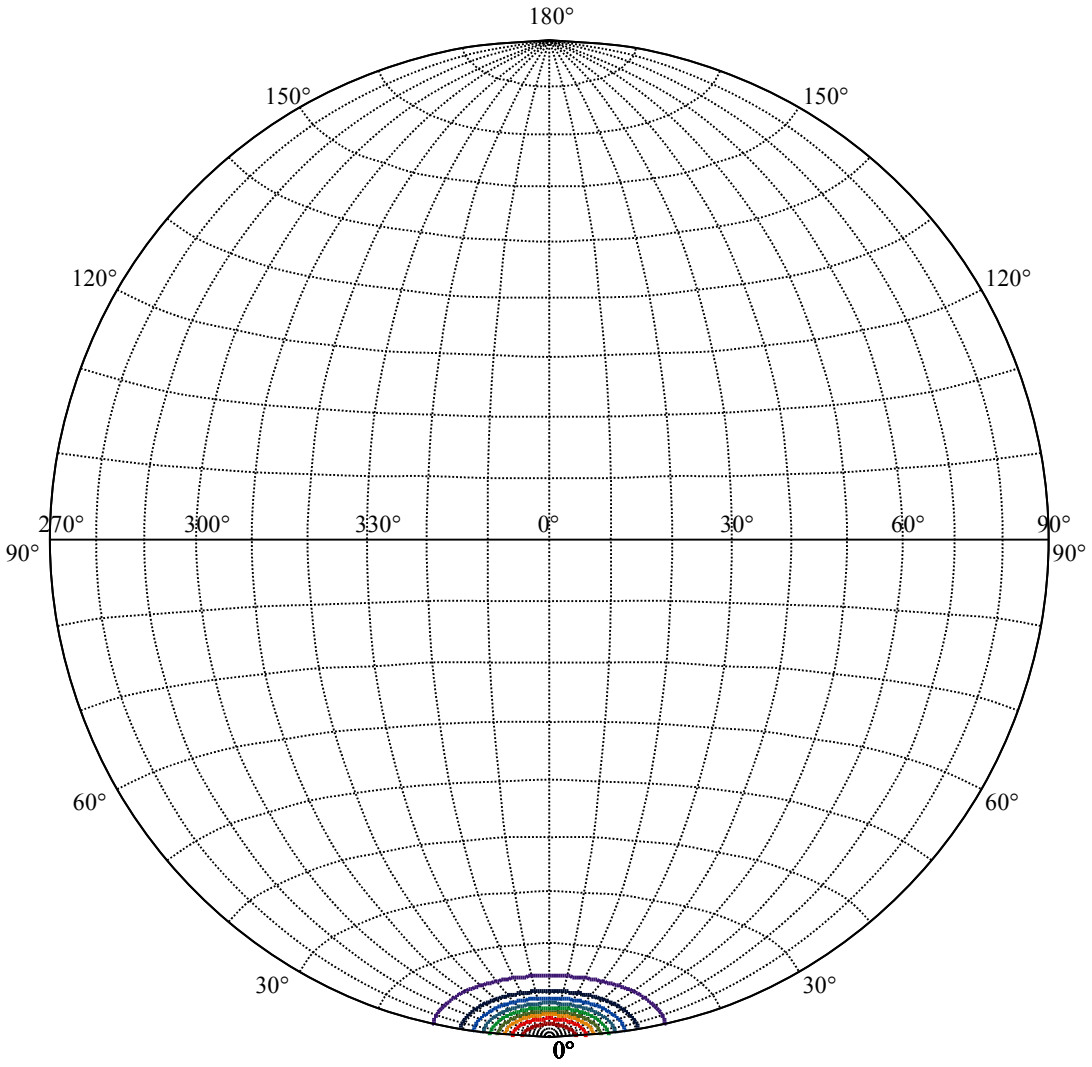


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/15
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



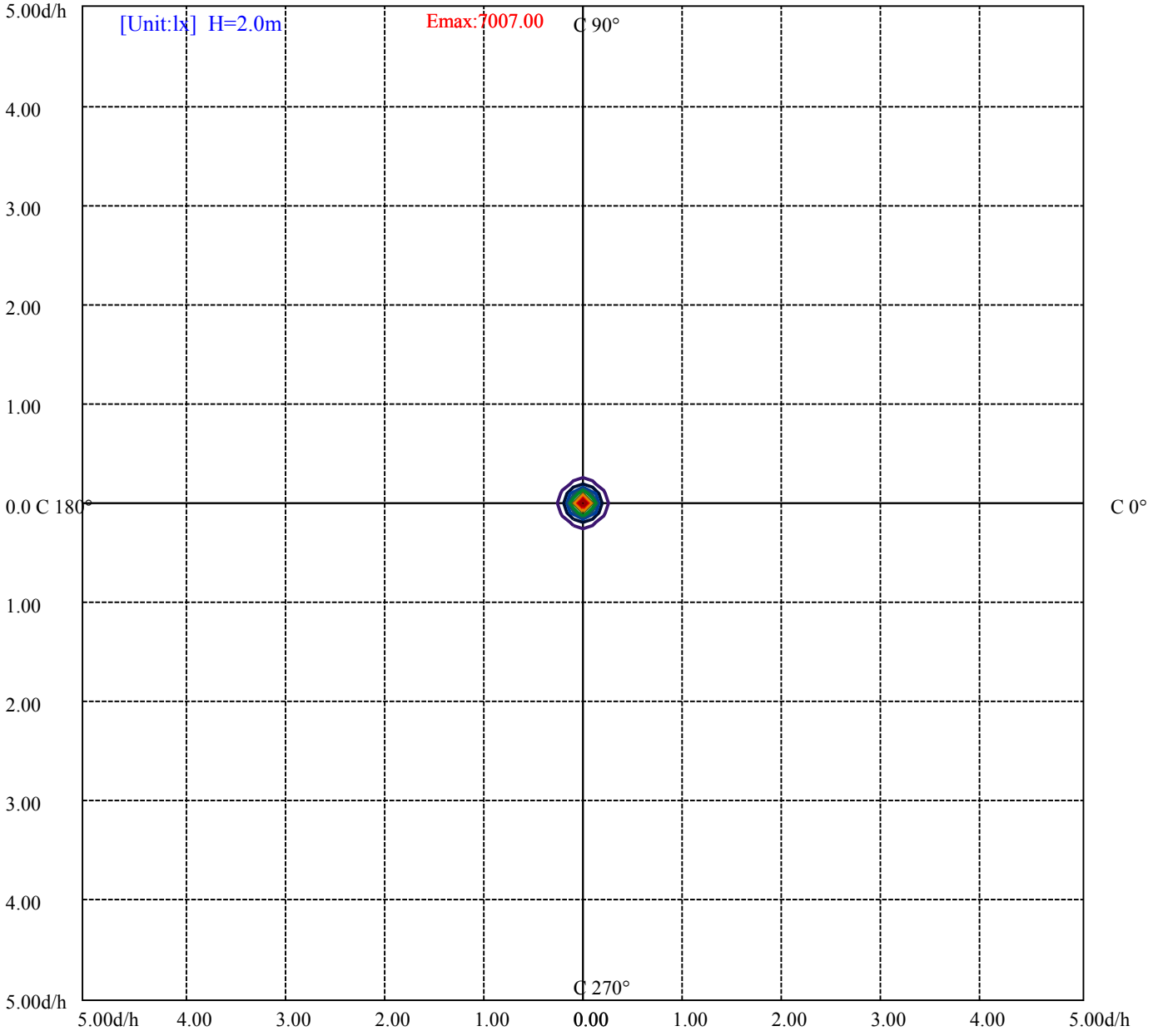
House [Unit:cd] Road

Imax:28027.97

(10%Imax) 2802.8
(20%Imax) 5605.59
(30%Imax) 8408.39
(40%Imax) 11211.2
(50%Imax) 14014
(60%Imax) 16816.8
(70%Imax) 19619.6
(80%Imax) 22422.4
(90%Imax) 25225.2

Equipment: GMS1980 Date: 2019/1/15 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

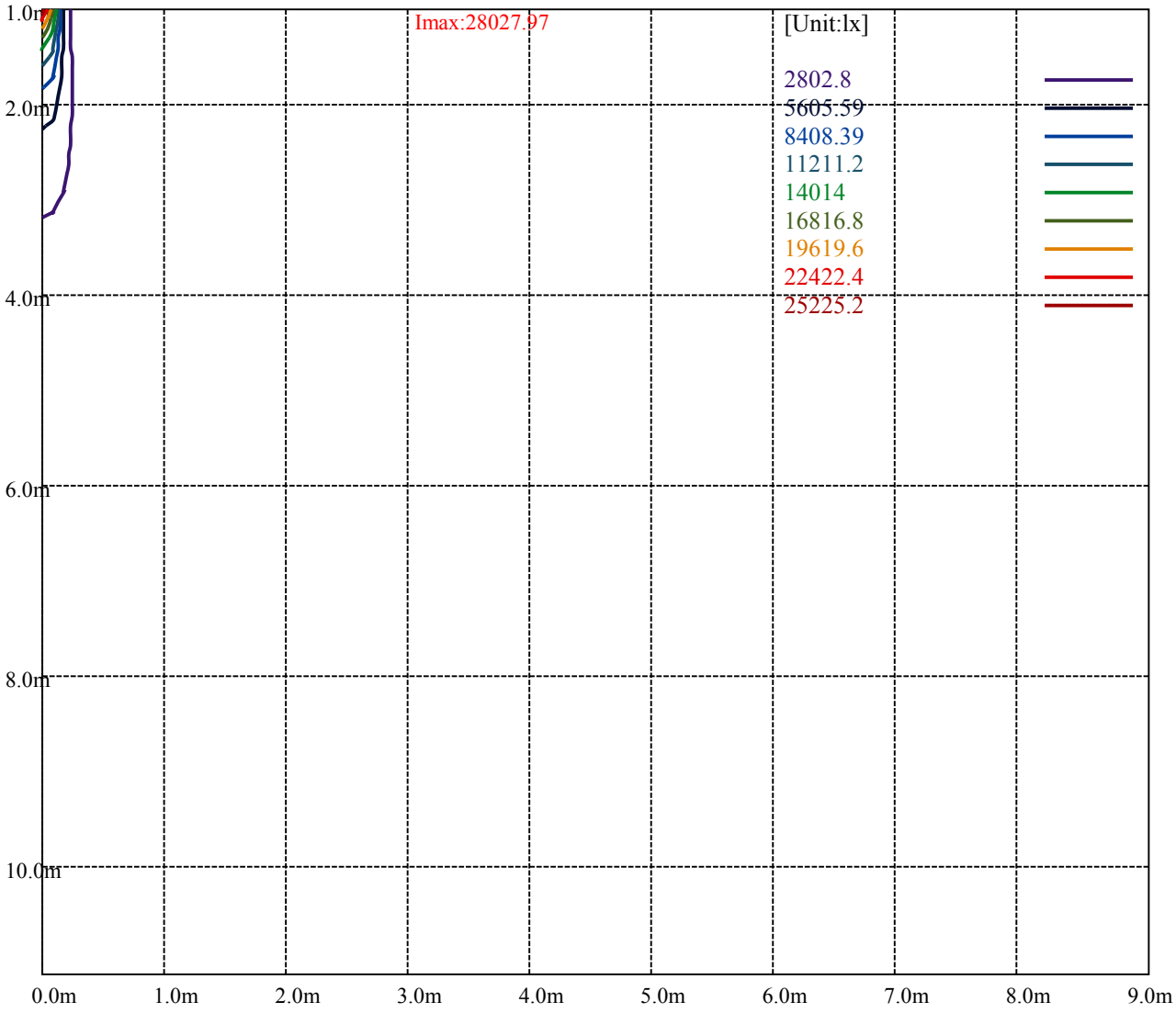
ISO illuminance diagram



(10%Emax) 700.6975
(20%Emax) 1401.397
(30%Emax) 2102.095
(40%Emax) 2802.8
(50%Emax) 3503.5
(60%Emax) 4204.2
(70%Emax) 4904.9
(80%Emax) 5605.575
(90%Emax) 6306.275

Equipment: GMS1980
Temperature(°C): 10.0
Date: 2019/1/15
Humidity(%): 65.0%
Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/15
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

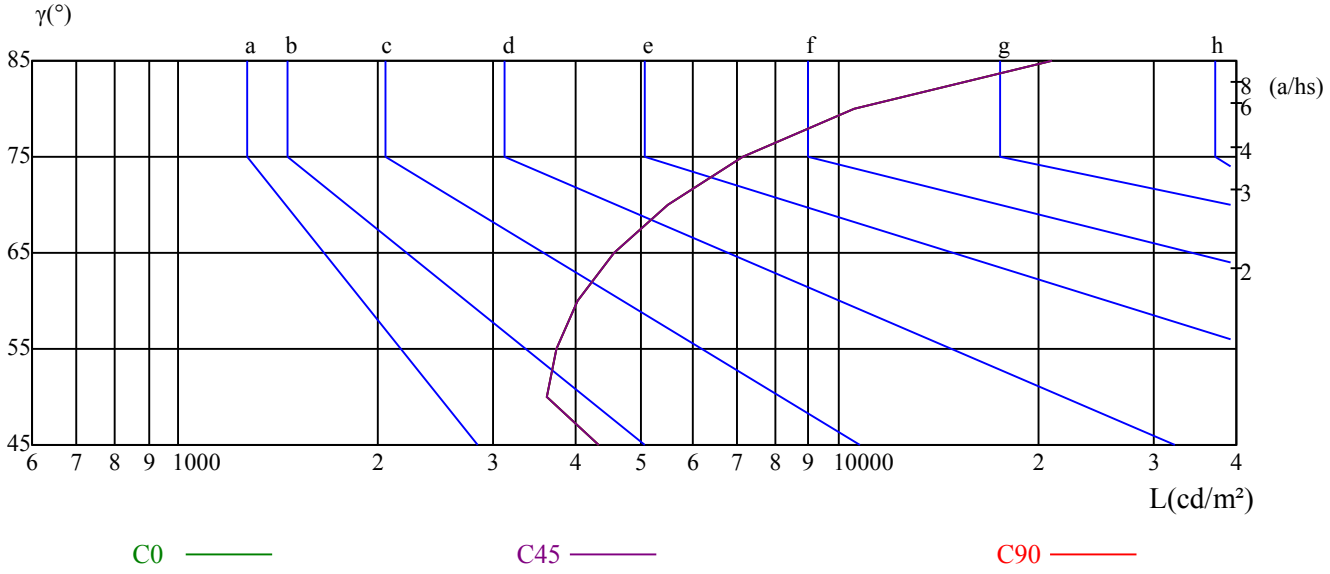
γ	45	50	55	60	65	70	75	80	85
C0	4317	3614	3723	4016	4572	5492	7154	10565	21003
C45	4317	3614	3723	4016	4572	5492	7154	10565	21003
C90	4317	3614	3723	4016	4572	5492	7154	10565	21003

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4572	4572	4572	7154	7154	7154	21003	21003	21003

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

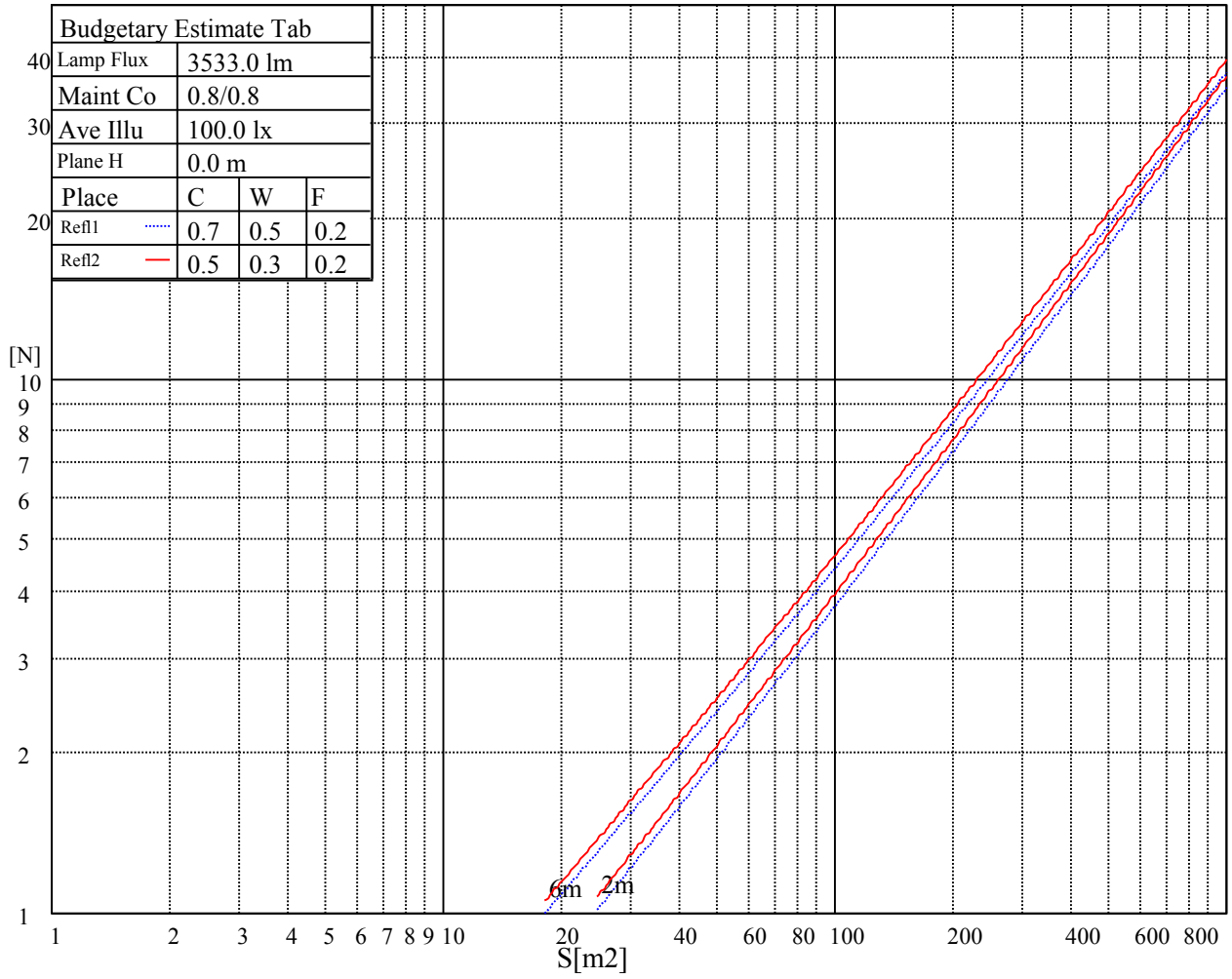


UGR Glare

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	1.35	2.25	1.71	2.57	2.88	1.34	2.24	1.70	2.55	2.87
	3H	4.48	5.28	4.86	5.61	5.98	4.46	5.26	4.85	5.60	5.97
	4H	6.20	6.94	6.61	7.29	7.68	6.18	6.92	6.58	7.27	7.66
	6H	8.15	8.83	8.57	9.20	9.60	8.12	8.79	8.54	9.17	9.57
	8H	9.24	9.87	9.68	10.27	10.68	9.21	9.84	9.64	10.23	10.64
	12H	11.01	11.61	11.44	12.00	12.43	10.98	11.59	11.42	11.97	12.40
4H	2H	2.22	2.96	2.63	3.32	3.71	2.21	2.95	2.62	3.31	3.70
	3H	5.60	6.21	6.02	6.62	7.02	5.60	6.20	6.01	6.61	7.02
	4H	7.49	8.04	7.93	8.46	8.91	7.48	8.02	7.92	8.45	8.90
	6H	9.62	10.08	10.09	10.53	11.01	9.59	10.05	10.06	10.51	10.98
	8H	10.81	11.24	11.29	11.69	12.17	10.78	11.21	11.26	11.66	12.14
	12H	12.48	12.84	12.97	13.33	13.81	12.45	12.82	12.94	13.31	13.79
8H	4H	8.22	8.65	8.69	9.10	9.58	8.21	8.64	8.68	9.09	9.56
	6H	10.62	10.96	11.13	11.46	11.95	10.60	10.94	11.11	11.44	11.93
	8H	12.00	12.30	12.53	12.82	13.32	11.98	12.28	12.51	12.80	13.30
	12H	13.80	14.06	14.33	14.56	15.14	13.78	14.04	14.31	14.54	15.12
12H	4H	8.42	8.79	8.92	9.28	9.76	8.41	8.78	8.91	9.27	9.75
	6H	11.13	11.24	11.47	11.71	12.26	11.11	11.22	11.46	11.69	12.24
	8H	12.45	12.71	12.97	13.20	13.79	12.43	12.69	12.96	13.19	13.77

Variation with the observer position at spacings:		
S = 1.0H	5.8/-7.5	5.8/-7.5
S = 1.5H	8.0/-5.6	8.0/-5.6
S = 2.0H	9.4/-4.1	9.4/-4.1
Standard tables:	BK3	BK3
Uncorrected UGR	1.3	1.3

Budgetary Estimate Table

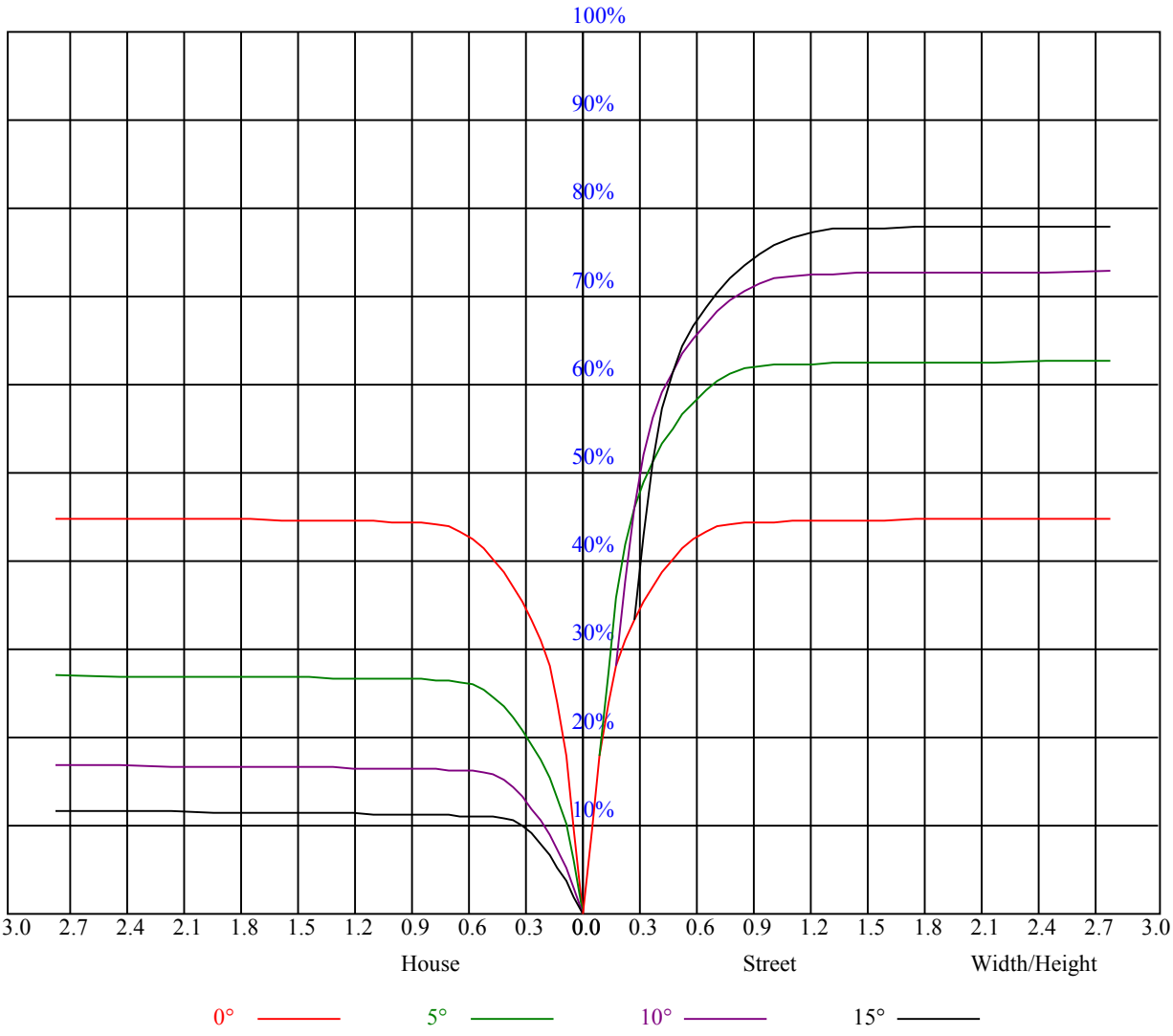


Equipment: GMS1980 Date: 2019/1/15 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	0.98	0.99	0.98	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.89	0.88	0.86
2	0.96	0.93	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.86	0.87	0.85	0.84	0.83
3	0.92	0.88	0.86	0.91	0.87	0.85	0.88	0.86	0.84	0.86	0.84	0.82	0.84	0.83	0.81	0.80
4	0.88	0.84	0.81	0.87	0.84	0.81	0.85	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.77
5	0.85	0.81	0.78	0.84	0.80	0.78	0.82	0.79	0.77	0.81	0.78	0.76	0.80	0.77	0.76	0.75
6	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
7	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.74	0.71	0.76	0.73	0.71	0.70
8	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.74	0.71	0.69	0.68
9	0.74	0.70	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
10	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.70	0.67	0.66	0.65

Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/15
Humidity(%): 65.0%

Operator: NT07
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	28175.63	27646.88	26190.00	24198.75	21532.50	18393.75	14343.75	11317.50	8735.63
45.0	27916.88	27534.38	26066.25	24226.88	22072.50	17977.50	14765.63	12037.50	8724.38
90.0	28046.25	27871.88	27022.50	25683.75	23619.38	20165.63	16981.88	10958.63	10247.63
135.0	27973.13	28361.25	28248.75	27703.13	26628.75	24564.38	21560.63	18388.13	14670.00
180.0	28175.63	28265.63	27916.88	26988.75	25245.00	22882.50	19507.50	15789.38	10860.75
225.0	27916.88	27922.50	27416.25	26263.13	24519.38	22072.50	18320.63	15159.38	11218.50
270.0	28046.25	27781.88	26780.63	25239.38	22978.13	19738.13	16160.63	12999.38	9804.38
315.0	27973.13	27101.25	25340.63	22685.63	19766.25	16126.88	11048.63	9703.69	7239.94
360.0	28175.63	27646.88	26190.00	24198.75	21532.50	18393.75	14343.75	11317.50	8735.63

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6367.50	5051.25	4072.50	3273.75	2880.00	2412.00	2088.00	1899.56	1750.50
45.0	6541.88	5304.38	4021.88	3307.50	2913.75	2362.50	2112.19	1903.50	1744.88
90.0	7788.38	5825.81	4483.13	3634.88	3024.56	2507.63	2220.19	2012.63	1819.13
135.0	11109.38	8392.50	6136.88	4758.75	3701.25	2986.88	2863.13	2247.75	1997.44
180.0	9432.00	6874.88	5137.88	4066.88	3303.00	2655.00	2305.13	2050.31	1816.88
225.0	8872.31	6571.69	5115.38	3960.00	3242.25	2689.88	2310.75	2068.31	1864.13
270.0	7543.13	5709.38	4432.50	3600.00	2936.25	2640.94	2205.56	1991.25	1785.94
315.0	5664.94	4397.06	3494.25	2923.88	2473.31	2159.44	1956.38	1796.06	1653.19
360.0	6367.50	5051.25	4072.50	3273.75	2880.00	2412.00	2088.00	1899.56	1750.50

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1613.25	1538.44	1483.88	1432.13	1396.69	1364.63	1325.81	1297.13	1274.06
45.0	1633.50	1547.44	1479.94	1435.50	1400.06	1360.13	1328.06	1296.56	1263.94
90.0	1696.50	1595.81	1522.13	1457.44	1416.94	1375.88	1337.63	1305.00	1270.13
135.0	1814.63	1683.00	1578.38	1504.13	1454.63	1414.13	1369.69	1333.13	1301.06
180.0	1685.81	1595.25	1517.63	1472.63	1434.38	1387.69	1356.19	1319.06	1281.38
225.0	1716.19	1622.81	1553.63	1491.19	1451.25	1415.81	1377.00	1339.31	1306.69
270.0	1667.81	1585.13	1511.44	1468.13	1431.56	1393.31	1356.75	1325.81	1292.63
315.0	1573.31	1512.00	1460.25	1418.63	1385.44	1349.44	1315.13	1287.56	1257.75
360.0	1613.25	1538.44	1483.88	1432.13	1396.69	1364.63	1325.81	1297.13	1274.06

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1242.56	1209.94	1182.94	1154.81	1116.56	1036.69	910.69	781.88	627.75
45.0	1233.00	1201.50	1166.06	1140.19	1104.19	1011.94	900.56	758.81	608.63
90.0	1239.75	1206.56	1172.81	1118.64	1112.68	1061.49	959.23	843.81	696.54
135.0	1265.63	1231.88	1203.19	1170.00	1141.88	1119.94	1075.50	988.88	858.94
180.0	1256.06	1223.44	1186.31	1161.56	1120.28	1095.30	1022.79	914.06	765.56
225.0	1270.13	1235.25	1203.75	1173.38	1120.84	1107.90	1015.31	902.42	754.20
270.0	1264.50	1231.88	1196.44	1169.44	1140.19	1064.81	961.88	837.56	683.44
315.0	1229.06	1194.75	1164.94	1117.13	1071.90	941.74	815.96	680.06	502.93
360.0	1242.56	1209.94	1182.94	1154.81	1116.56	1036.69	910.69	781.88	627.75

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	470.25	330.75	297.56	82.91	44.94	37.86	28.29	24.08	20.76
45.0	473.63	343.13	311.63	99.56	51.98	42.30	32.85	28.13	23.68
90.0	547.71	416.70	291.54	154.74	77.96	51.02	42.69	33.86	29.98
135.0	709.31	570.94	435.94	291.94	161.72	79.20	47.19	39.71	32.34
180.0	607.73	472.78	327.09	195.75	102.77	50.23	42.75	33.24	27.90
225.0	597.66	461.31	328.39	178.99	91.91	49.28	40.67	30.99	26.83
270.0	529.88	392.63	293.06	123.86	57.38	41.96	31.22	25.09	22.61
315.0	364.11	239.51	132.41	51.08	38.76	30.54	23.63	20.98	18.34
360.0	470.25	330.75	297.56	82.91	44.94	37.86	28.29	24.08	20.76

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	18.23	17.66	17.27	16.88	16.48	16.20	15.86	15.58	15.36
45.0	18.39	17.94	17.44	17.16	16.82	16.48	16.26	15.92	15.64
90.0	23.51	18.11	17.66	17.27	16.99	16.59	16.31	16.03	15.75
135.0	27.84	23.01	18.06	17.55	17.21	16.76	16.43	16.14	15.81
180.0	24.81	18.06	17.49	17.16	16.82	16.43	16.09	15.86	15.58
225.0	22.95	18.45	17.83	17.27	16.93	16.54	16.20	15.92	15.64
270.0	18.84	18.06	17.61	16.99	16.54	16.26	15.98	15.69	15.47
315.0	17.72	17.21	16.82	16.48	16.14	15.86	15.58	15.36	15.19
360.0	18.23	17.66	17.27	16.88	16.48	16.20	15.86	15.58	15.36

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	15.08	14.96	14.74	14.57	14.40	14.23	14.06	13.95	13.84
45.0	15.41	15.19	14.96	14.79	14.63	14.46	14.29	14.18	14.06
90.0	15.47	15.19	15.02	14.79	14.57	14.46	14.23	14.18	14.01
135.0	15.53	15.30	15.08	14.85	14.68	14.46	14.29	14.18	14.01
180.0	15.30	15.08	14.91	14.68	14.51	14.29	14.18	14.06	13.89
225.0	15.41	15.13	14.96	14.74	14.63	14.46	14.23	14.12	14.01
270.0	15.19	14.96	14.85	14.57	14.46	14.29	14.12	14.01	13.89
315.0	14.91	14.74	14.57	14.40	14.23	14.12	13.95	13.89	13.78
360.0	15.08	14.96	14.74	14.57	14.40	14.23	14.06	13.95	13.84

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.73	13.61	13.56	13.44	13.39	13.28	13.22	13.22	13.16
45.0	13.89	13.78	13.73	13.56	13.50	13.44	13.39	13.33	13.28
90.0	13.84	13.73	13.67	13.56	13.44	13.39	13.33	13.28	13.22
135.0	13.89	13.78	13.67	13.56	13.50	13.39	13.33	13.28	13.22
180.0	13.78	13.67	13.61	13.50	13.44	13.33	13.22	13.22	13.16
225.0	13.89	13.78	13.73	13.61	13.50	13.44	13.39	13.28	13.28
270.0	13.78	13.67	13.61	13.50	13.44	13.39	13.33	13.28	13.22
315.0	13.73	13.61	13.50	13.39	13.33	13.22	13.22	13.16	13.11
360.0	13.73	13.61	13.56	13.44	13.39	13.28	13.22	13.22	13.16

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.11	13.05	12.99	12.99	12.99	12.94	12.94	12.88	12.88
45.0	13.22	13.16	13.11	13.11	13.11	13.05	13.05	12.99	12.99
90.0	13.16	13.11	13.11	13.11	13.05	12.99	12.99	12.94	12.94
135.0	13.16	13.16	13.11	13.05	13.05	12.99	12.99	12.94	12.94
180.0	13.11	13.11	13.05	12.99	12.94	12.94	12.94	12.88	12.88
225.0	13.22	13.22	13.16	13.16	13.11	13.11	13.05	12.99	12.99
270.0	13.22	13.16	13.16	13.11	13.11	13.05	13.05	13.05	12.99
315.0	13.11	13.05	13.05	12.99	12.99	12.94	12.94	12.94	12.94
360.0	13.11	13.05	12.99	12.99	12.99	12.94	12.94	12.88	12.88

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.83	12.88	12.88	12.88	12.99	13.16	12.77	12.71	12.71
45.0	12.94	12.99	12.94	12.94	12.88	12.88	12.83	12.83	12.83
90.0	12.94	12.94	12.88	12.88	12.88	12.83	12.83	12.83	12.77
135.0	12.94	12.88	12.88	12.88	12.88	12.88	12.83	12.83	12.77
180.0	12.88	12.88	12.83	12.83	12.83	12.88	12.71	12.71	12.71
225.0	12.99	12.99	12.94	12.99	12.94	12.88	12.94	12.83	12.83
270.0	12.94	12.99	12.94	12.99	12.94	12.94	12.83	12.83	12.83
315.0	12.94	12.88	12.88	12.94	12.99	12.94	12.77	12.77	12.77
360.0	12.83	12.88	12.88	12.88	12.99	13.16	12.77	12.71	12.71

Intensity data(cd)

C/γ(°)	90.0
0.0	12.71
45.0	12.83
90.0	12.83
135.0	12.77
180.0	12.71
225.0	12.83
270.0	12.83
315.0	12.77
360.0	12.71