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Nata

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

Report No: NATA0100	Voltage(V): 34.7000
Test No: GC2018091216	Current(A): 0.5000
LampCAT: LUMINUS CXM-11-AC30	Power (W): 17.3500
Lamp flux(lm): 2496.0	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): 2252.13
Efficiency(%): 90.23%
Lumens(lm)/Power(W): 130.18
Central intensity(cd): 27729.850
Maximum intensity(cd): 27729.850
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=11.2
[C90/270]Total=11.2
Field angle(10%Imax): [C0/180]Total=21.6
[C90/270]Total=21.6
Maximum s/h(1/2): C0_180=0.19 C90_270=0.19
Maximum s/h(1/4): C0_180=0.19 C90_270=0.19
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.49%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.351%

Equipment: GMS1980	Date: 2018/9/12	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.50

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	27729.844	6.634	6.634	.266%	.295%
1.0	27319.922	52.286	58.92	2.095%	2.616%
2.0	25944.609	99.293	158.213	3.978%	7.025%
3.0	23261.484	133.502	291.716	5.349%	12.953%
4.0	19942.031	152.548	444.263	6.112%	19.726%
5.0	16168.641	154.533	598.796	6.191%	26.588%
6.0	12397.852	142.113	740.909	5.694%	32.898%
7.0	9070.383	121.219	862.128	4.857%	38.281%
8.0	6593.484	100.629	962.757	4.032%	42.749%
9.0	4654.406	79.845	1042.602	3.199%	46.294%
10.0	3320.859	63.237	1105.839	2.534%	49.102%
11.0	2645.508	55.355	1161.195	2.218%	51.560%
12.0	2183.344	49.780	1210.974	1.994%	53.770%
13.0	1755.352	43.302	1254.276	1.735%	55.693%
14.0	1550.391	41.131	1295.407	1.648%	57.519%
15.0	1408.711	39.982	1335.389	1.602%	59.295%
16.0	1283.133	38.785	1374.174	1.554%	61.017%
17.0	1174.289	37.650	1411.824	1.508%	62.688%
18.0	1122.511	38.039	1449.863	1.524%	64.377%
19.0	1073.377	38.322	1488.184	1.535%	66.079%
20.0	1033.938	38.779	1526.963	1.554%	67.801%
21.0	998.726	39.249	1566.212	1.572%	69.544%
22.0	964.765	39.632	1605.845	1.588%	71.303%
23.0	933.673	40.006	1645.851	1.603%	73.080%
24.0	903.248	40.288	1686.138	1.614%	74.869%
25.0	874.132	40.511	1726.65	1.623%	76.667%
26.0	852.061	40.960	1767.61	1.641%	78.486%
27.0	834.919	41.566	1809.176	1.665%	80.332%
28.0	818.107	42.118	1851.295	1.687%	82.202%
29.0	802.132	42.645	1893.94	1.709%	84.096%
30.0	789.005	43.261	1937.201	1.733%	86.016%
31.0	773.944	43.712	1980.913	1.751%	87.957%
32.0	757.238	44.004	2024.917	1.763%	89.911%
33.0	711.091	42.470	2067.388	1.702%	91.797%
34.0	618.820	37.947	2105.335	1.520%	93.482%
35.0	498.579	31.360	2136.695	1.256%	94.874%
36.0	381.509	24.591	2161.286	.985%	95.966%
37.0	272.398	17.977	2179.263	.720%	96.765%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	171.042	11.548	2190.811	.463%	97.277%
39.0	70.966	4.898	2195.708	.196%	97.495%
40.0	37.350	2.633	2198.341	.105%	97.612%
41.0	30.523	2.196	2200.537	.088%	97.709%
42.0	25.896	1.900	2202.437	.076%	97.794%
43.0	21.565	1.613	2204.05	.065%	97.865%
44.0	18.766	1.430	2205.479	.057%	97.929%
45.0	15.427	1.196	2206.676	.048%	97.982%
46.0	12.670	0.999	2207.675	.040%	98.026%
47.0	12.277	0.985	2208.66	.039%	98.070%
48.0	12.059	0.983	2209.642	.039%	98.113%
49.0	11.841	0.980	2210.622	.039%	98.157%
50.0	11.665	0.980	2211.602	.039%	98.201%
51.0	11.496	0.980	2212.582	.039%	98.244%
52.0	11.348	0.981	2213.563	.039%	98.288%
53.0	11.187	0.980	2214.542	.039%	98.331%
54.0	11.039	0.979	2215.522	.039%	98.375%
55.0	10.927	0.982	2216.503	.039%	98.418%
56.0	10.821	0.984	2217.487	.039%	98.462%
57.0	10.702	0.984	2218.471	.039%	98.506%
58.0	10.610	0.987	2219.458	.040%	98.549%
59.0	10.512	0.988	2220.446	.040%	98.593%
60.0	10.427	0.990	2221.436	.040%	98.637%
61.0	10.364	0.994	2222.43	.040%	98.681%
62.0	10.308	0.998	2223.428	.040%	98.726%
63.0	10.252	1.002	2224.43	.040%	98.770%
64.0	10.188	1.004	2225.434	.040%	98.815%
65.0	10.139	1.008	2226.442	.040%	98.859%
66.0	10.097	1.012	2227.453	.041%	98.904%
67.0	10.041	1.014	2228.467	.041%	98.949%
68.0	10.020	1.019	2229.486	.041%	98.995%
69.0	9.991	1.023	2230.509	.041%	99.040%
70.0	9.963	1.027	2231.535	.041%	99.086%
71.0	9.942	1.031	2232.566	.041%	99.131%
72.0	9.914	1.034	2233.6	.041%	99.177%
73.0	9.893	1.037	2234.638	.042%	99.223%
74.0	9.886	1.042	2235.68	.042%	99.270%
75.0	9.865	1.045	2236.725	.042%	99.316%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.858	1.049	2237.773	.042%	99.363%
77.0	9.837	1.051	2238.825	.042%	99.409%
78.0	9.823	1.054	2239.878	.042%	99.456%
79.0	9.823	1.057	2240.936	.042%	99.503%
80.0	9.795	1.058	2241.993	.042%	99.550%
81.0	9.788	1.060	2243.053	.042%	99.597%
82.0	9.773	1.061	2244.115	.043%	99.644%
83.0	9.788	1.065	2245.18	.043%	99.691%
84.0	9.809	1.070	2246.25	.043%	99.739%
85.0	9.851	1.076	2247.326	.043%	99.787%
86.0	9.865	1.079	2248.405	.043%	99.835%
87.0	9.816	1.075	2249.48	.043%	99.882%
88.0	9.675	1.060	2250.54	.042%	99.929%
89.0	9.654	1.058	2251.599	.042%	99.976%
90.0	9.668	0.530	2252.129	.021%	100.000%

Zonal flux distribution table

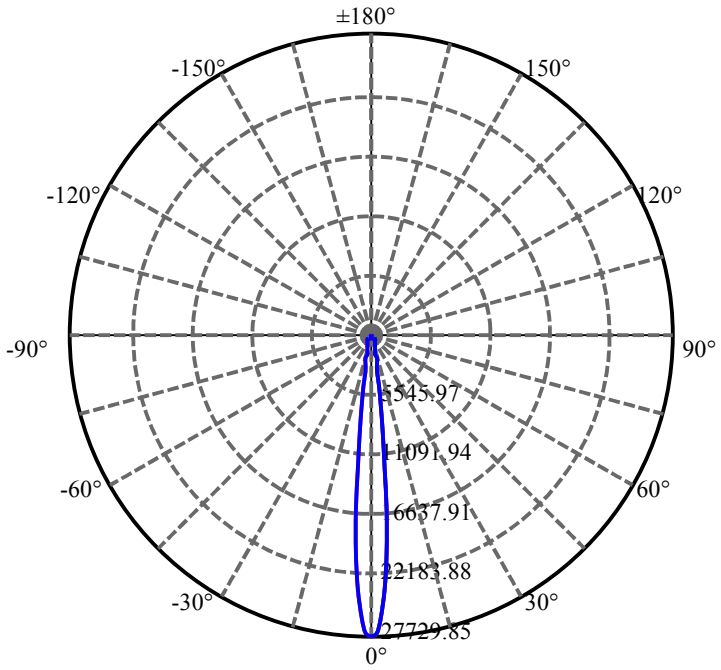
ZONAL LUMEN SUMMARY

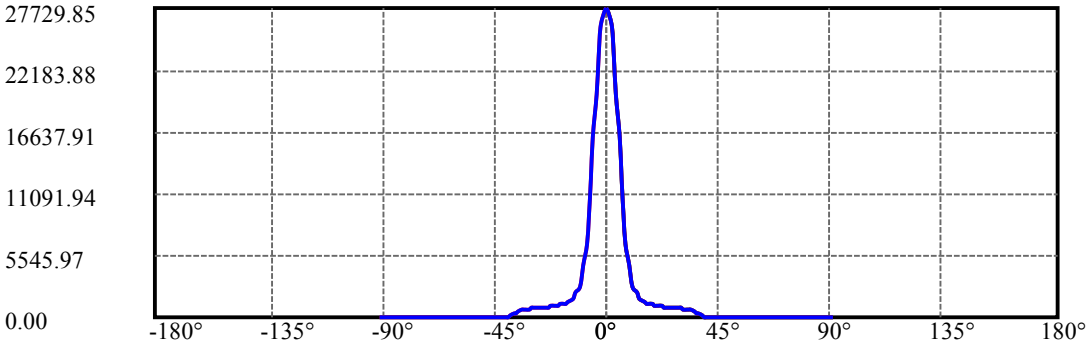
Zone	Lumens	%Lamp	%Fixt
0-30	1937.20	77.61%	86.02%
0-40	2198.34	88.07%	97.61%
0-60	2221.44	89.00%	98.64%
0-90	2251.60	90.21%	99.98%
0-120	2251.60	90.21%	99.98%
0-180	2252.13	90.23%	100.00%
60-90	31.15	1.25%	1.38%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.82	1801.70	72.18%	80.00%

ZONAL LUMEN SUMMARY

0-10	1105.84
10-20	421.12
20-30	410.24
30-40	261.14
40-50	13.26
50-60	9.83
60-70	10.10
70-80	10.46
80-90	9.61
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:10.8 Right:10.8
:C90/270Left:10.8 Right:10.8

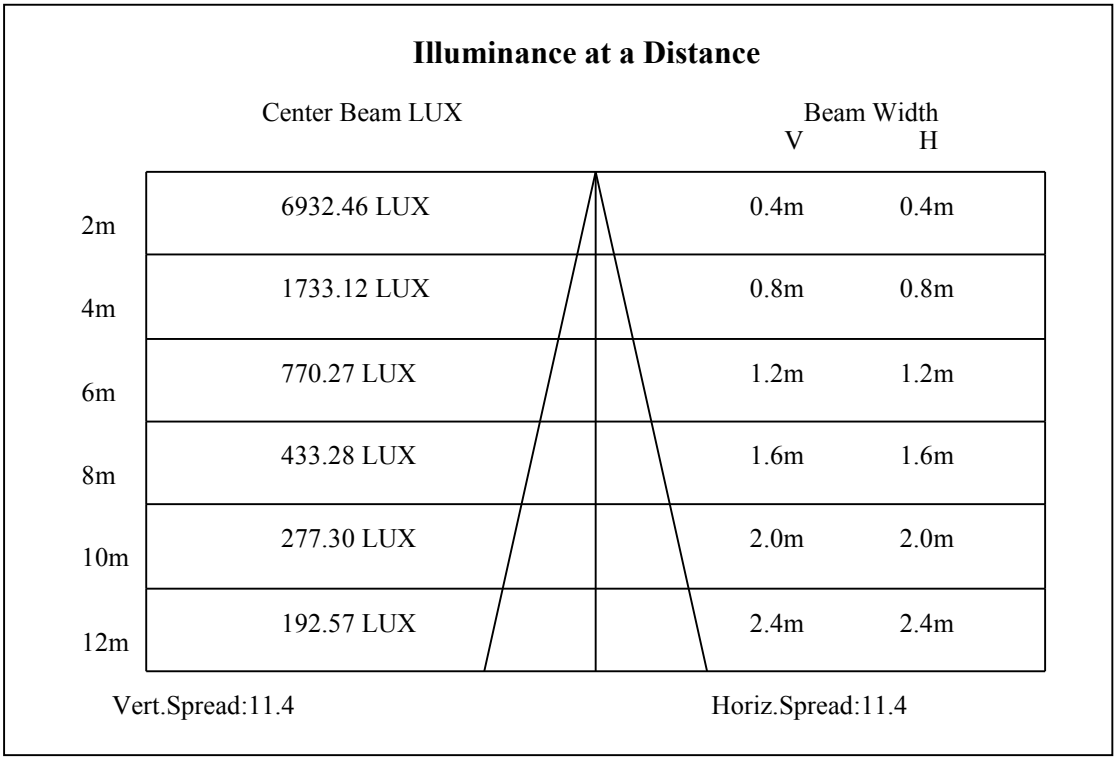
Beam Angle(50%Imax):C0/180Left:5.6 Right:5.6
:C90/270Left:5.6 Right:5.6

Equipment: GMS1980
Temperature(°C): 25.0

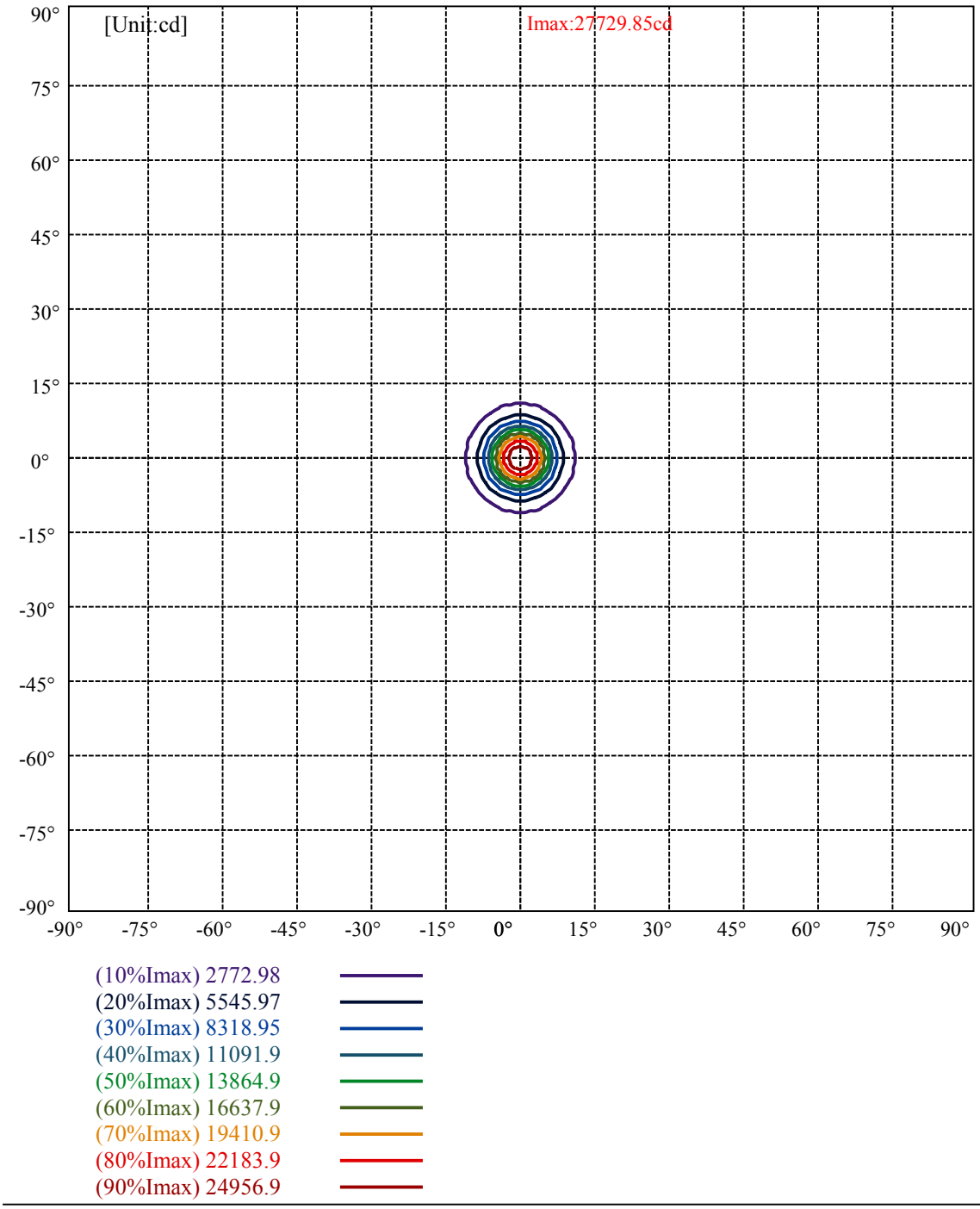
Date: 2018/9/12
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

Lux distance Curve



ISO-Intensity(V-H)



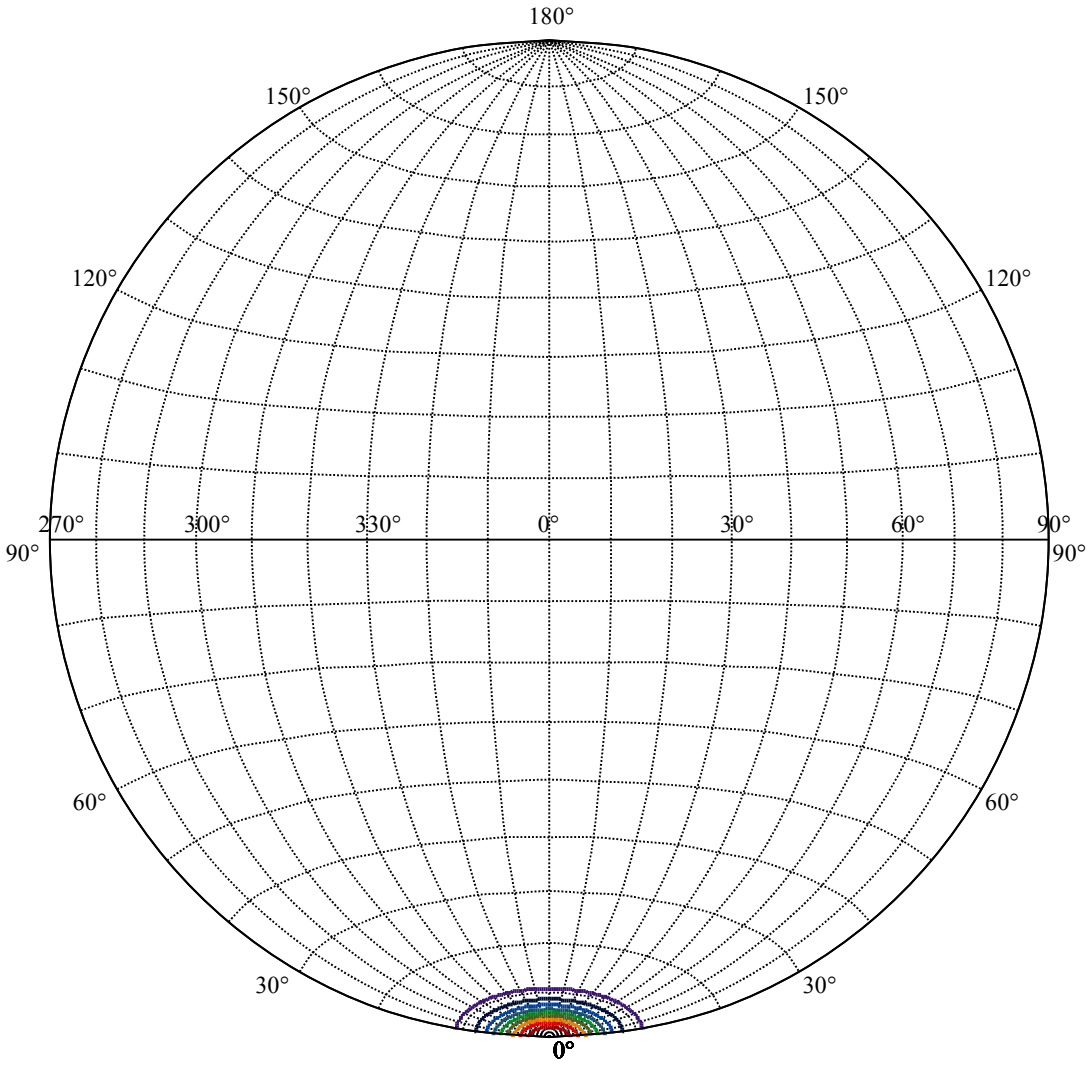
(10%Imax) 2772.98
(20%Imax) 5545.97
(30%Imax) 8318.95
(40%Imax) 11091.9
(50%Imax) 13864.9
(60%Imax) 16637.9
(70%Imax) 19410.9
(80%Imax) 22183.9
(90%Imax) 24956.9

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/12
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



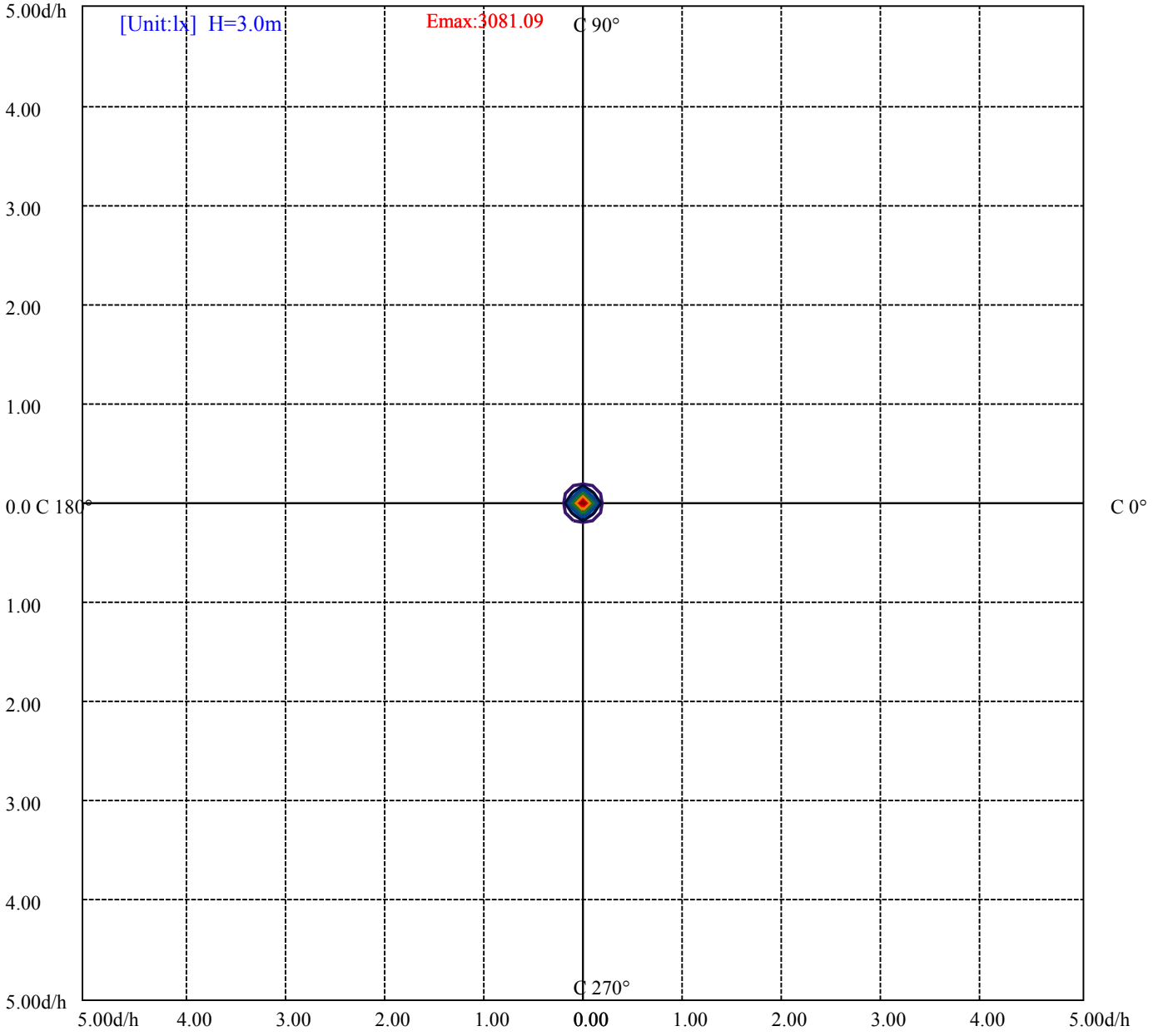
House [Unit:cd] Road

Imax:27729.85

(10%Imax) 2772.98
(20%Imax) 5545.97
(30%Imax) 8318.95
(40%Imax) 11091.9
(50%Imax) 13864.9
(60%Imax) 16637.9
(70%Imax) 19410.9
(80%Imax) 22183.9
(90%Imax) 24956.9

Equipment: GMS1980 Date: 2018/9/12 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.50

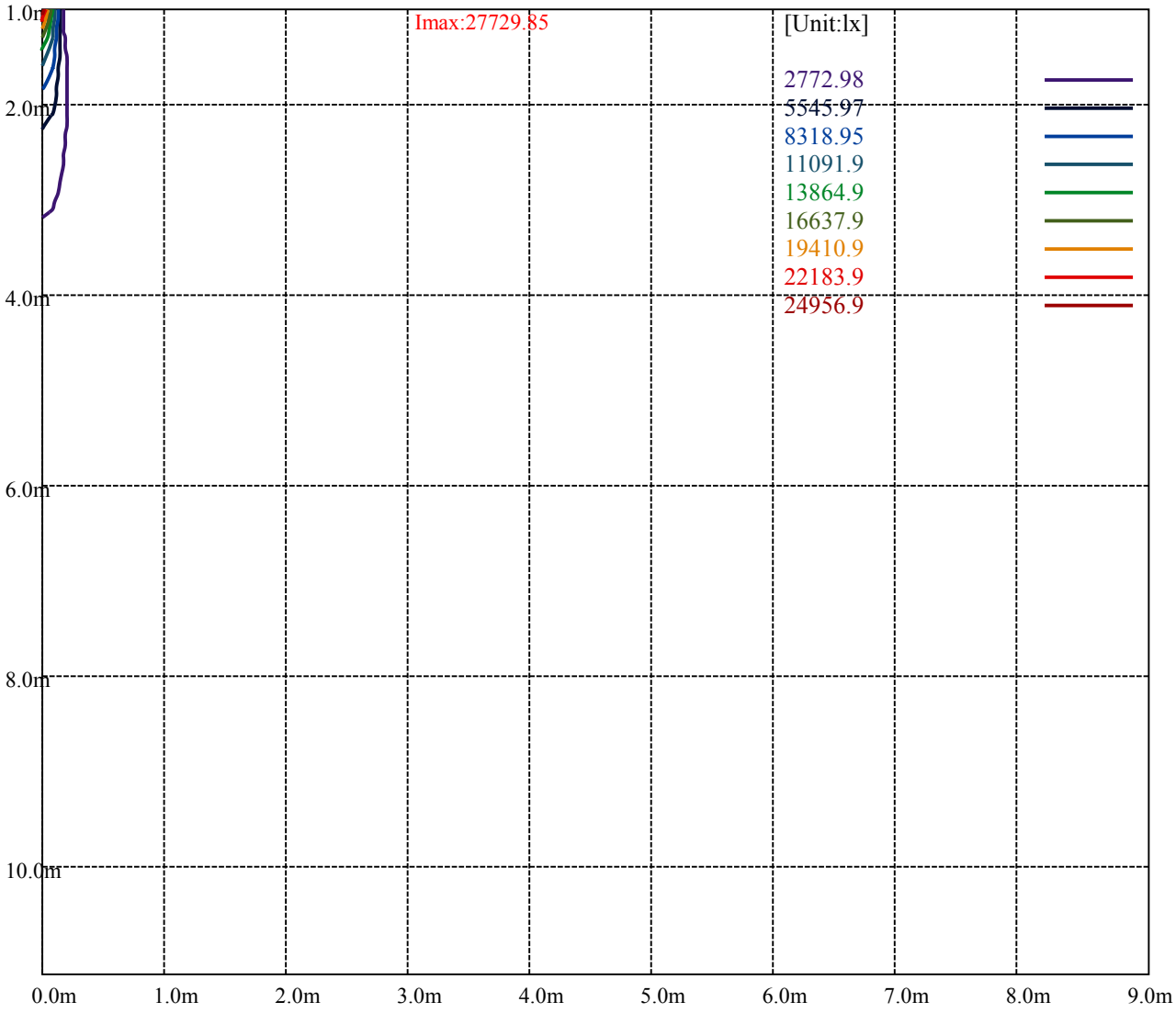
ISO illuminance diagram



(10%Emax) 308.1089
(20%Emax) 616.2178
(30%Emax) 924.3255
(40%Emax) 1232.433
(50%Emax) 1540.544
(60%Emax) 1848.656
(70%Emax) 2156.756
(80%Emax) 2464.867
(90%Emax) 2772.978

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2018/9/12
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/12
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

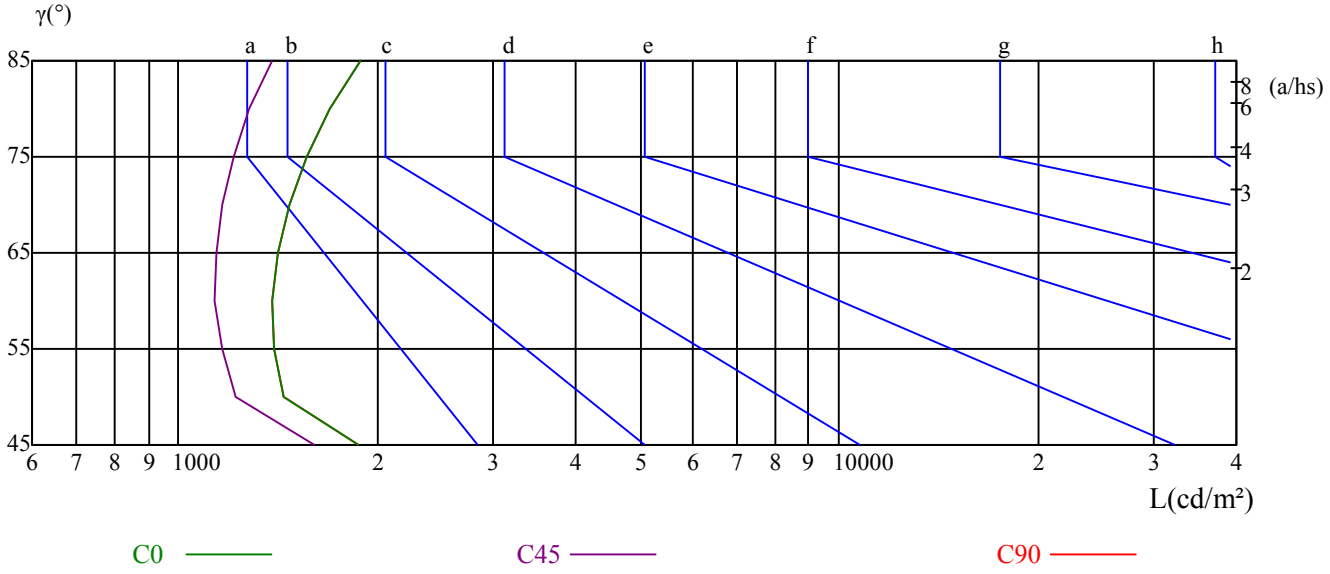
γ	45	50	55	60	65	70	75	80	85
C0	1868	1445	1395	1385	1414	1475	1569	1696	1888
C45	1605	1223	1162	1135	1139	1165	1212	1279	1383
C90	1868	1445	1395	1385	1414	1475	1569	1696	1888

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3400	3400	3400	5402	5402	5402	16018	16018	16018

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

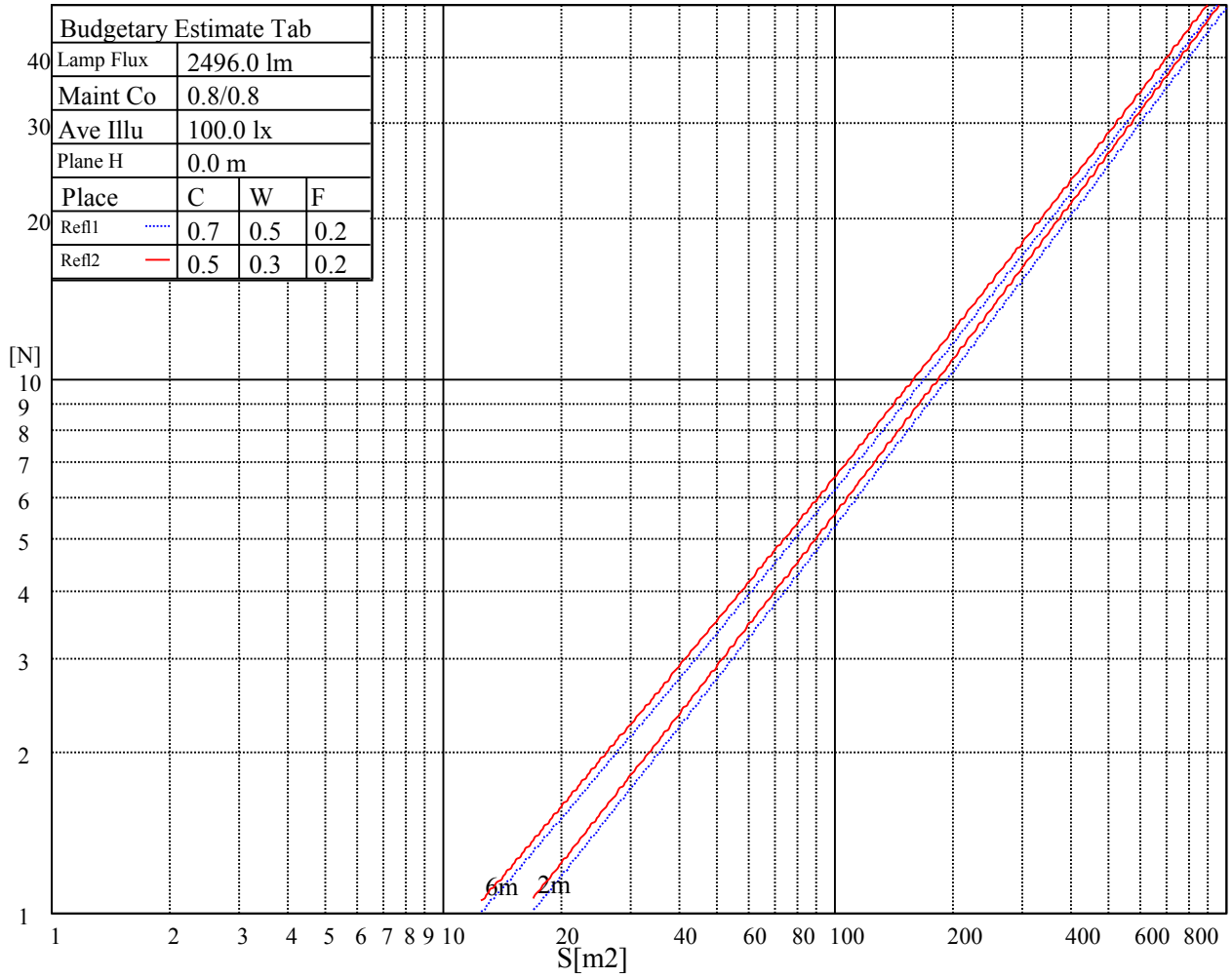


UGR Glare

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	-0.53	0.37	-0.17	0.68	1.00	-0.51	0.40	-0.14	0.71	1.03
	3H	1.73	2.53	2.11	2.86	3.23	1.77	2.57	2.15	2.90	3.27
	4H	2.98	3.72	3.39	4.07	4.47	3.01	3.75	3.42	4.11	4.50
	6H	4.30	4.98	4.72	5.35	5.75	4.33	5.01	4.75	5.39	5.78
	8H	4.96	5.59	5.40	5.99	6.40	5.00	5.63	5.44	6.03	6.44
	12H	5.99	6.59	6.42	6.98	7.41	6.03	6.64	6.47	7.02	7.46
4H	2H	-0.05	0.69	0.36	1.04	1.44	-0.03	0.71	0.38	1.07	1.46
	3H	2.51	3.11	2.92	3.52	3.93	2.54	3.15	2.96	3.56	3.96
	4H	3.94	4.48	4.37	4.90	5.35	3.96	4.50	4.40	4.93	5.38
	6H	5.36	5.82	5.83	6.27	6.75	5.38	5.85	5.86	6.30	6.77
	8H	6.13	6.56	6.61	7.01	7.49	6.16	6.60	6.64	7.05	7.52
	12H	7.15	7.52	7.64	8.01	8.49	7.20	7.56	7.69	8.06	8.53
8H	4H	4.37	4.80	4.85	5.26	5.73	4.40	4.83	4.87	5.28	5.75
	6H	6.03	6.37	6.54	6.88	7.36	6.06	6.40	6.57	6.90	7.39
	8H	6.96	7.26	7.50	7.79	8.29	6.99	7.29	7.53	7.82	8.31
	12H	8.12	8.37	8.64	8.87	9.45	8.15	8.41	8.68	8.91	9.49
12H	4H	4.46	4.83	4.96	5.32	5.80	4.49	4.85	4.98	5.34	5.82
	6H	6.40	6.51	6.74	6.98	7.53	6.42	6.53	6.77	7.00	7.55
	8H	7.23	7.49	7.76	7.99	8.57	7.26	7.52	7.78	8.01	8.60

Variation with the observer position at spacings:		
S = 1.0H	6.0/-8.4	6.0/-8.4
S = 1.5H	8.5/-6.6	8.5/-6.6
S = 2.0H	10.1/-5.3	10.1/-5.3
Standard tables:	BK1	BK1
Uncorrected UGR	-3.5	-3.5

Budgetary Estimate Table

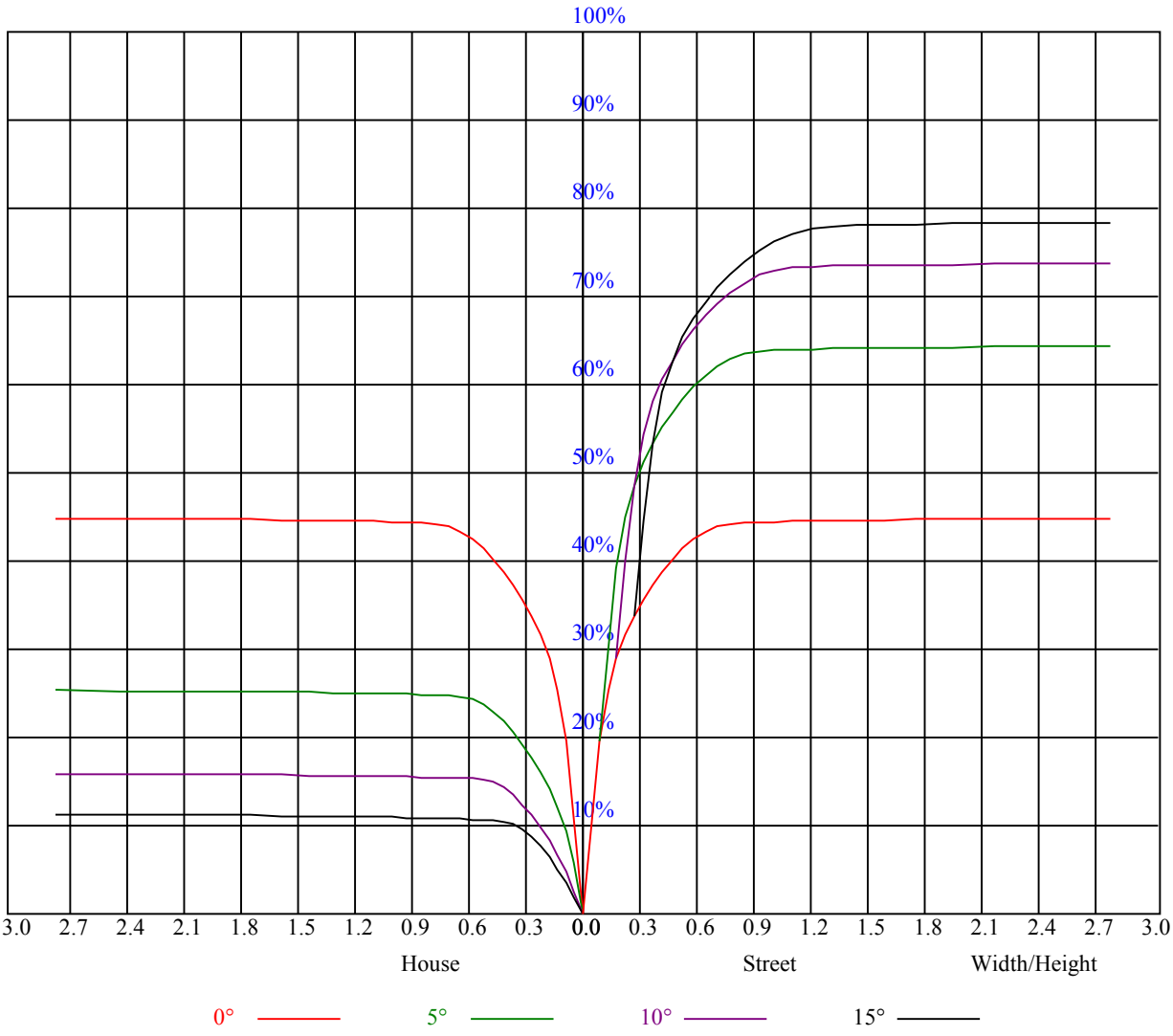


Equipment: GMS1980 Date: 2018/9/12 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.50

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	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.01	1.00	0.98	1.00	0.98	0.96	0.96	0.95	0.93	0.93	0.92	0.91	0.89	0.89	0.88	0.86
2	0.96	0.94	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.85	0.83
3	0.92	0.89	0.86	0.91	0.88	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.85	0.83	0.81	0.80
4	0.88	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.82	0.80	0.82	0.80	0.79	0.78
5	0.85	0.81	0.78	0.84	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.80	0.78	0.76	0.75
6	0.82	0.78	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.79	0.77	0.74	0.78	0.76	0.74	0.73
7	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.76	0.74	0.72	0.71
8	0.77	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.75	0.72	0.70	0.69
9	0.75	0.71	0.69	0.75	0.71	0.69	0.74	0.71	0.69	0.73	0.71	0.68	0.73	0.70	0.68	0.67
10	0.73	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.72	0.69	0.67	0.71	0.69	0.67	0.66

Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/12
Humidity(%): 60.0%

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	27585.00	26426.25	24305.63	20497.50	16965.00	13466.25	9472.50	6901.88	5090.63
45.0	27961.88	27821.25	26645.63	24322.50	21330.00	17443.13	13483.13	10158.75	7312.50
90.0	27973.13	27461.25	26043.75	23326.88	19704.38	16166.25	10851.75	8516.81	6009.19
135.0	27399.38	27855.00	27174.38	25858.13	22691.25	19417.50	15885.00	11475.00	8319.38
180.0	27585.00	27866.25	27365.63	25711.88	22488.75	19580.63	16008.75	11100.94	8315.44
225.0	27961.88	27180.00	25560.00	22623.75	18832.50	15232.50	10923.75	7947.00	5679.00
270.0	27973.13	27630.00	26223.75	23619.38	20441.25	16931.25	12594.38	9438.75	6868.13
315.0	27399.38	26319.38	24238.13	20131.88	17083.13	11111.63	9963.56	7023.94	5153.63
360.0	27585.00	26426.25	24305.63	20497.50	16965.00	13466.25	9472.50	6901.88	5090.63

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3611.25	2846.25	2535.75	1928.81	1661.63	1496.81	1351.13	1242.56	1165.50
45.0	4888.13	3639.38	2908.13	2278.69	1837.13	1613.81	1460.25	1320.75	1234.69
90.0	4295.25	2985.19	2359.69	1955.25	1630.13	1467.00	1348.31	1247.06	1122.02
135.0	5883.75	3892.50	2913.75	2538.00	1815.19	1578.38	1419.19	1285.31	1183.50
180.0	5856.75	3866.63	2910.38	2306.25	1919.25	1615.50	1455.75	1335.38	1230.75
225.0	4134.94	2937.94	2350.69	1962.00	1656.56	1495.13	1370.25	1243.13	1117.63
270.0	4674.38	3538.13	2857.50	2532.94	1854.00	1634.06	1488.94	1329.19	1222.31
315.0	3890.81	2860.88	2328.19	1964.81	1668.94	1502.44	1375.88	1261.69	1117.91
360.0	3611.25	2846.25	2535.75	1928.81	1661.63	1496.81	1351.13	1242.56	1165.50

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1105.31	1065.38	1024.31	987.75	955.69	920.81	888.19	860.63	840.94
45.0	1161.00	1095.75	1047.94	1010.81	975.94	943.31	907.88	876.94	855.56
90.0	1093.16	1038.09	1005.36	969.92	933.19	909.96	881.16	858.32	841.73
135.0	1126.69	1075.50	1037.25	1006.31	973.13	943.31	914.06	885.38	864.00
180.0	1120.61	1102.89	1059.92	1021.39	991.18	957.71	931.39	900.00	870.53
225.0	1104.98	1057.22	1023.36	987.41	957.38	924.81	896.57	866.98	844.76
270.0	1162.13	1097.44	1056.38	1026.00	985.50	952.88	923.06	887.63	862.31
315.0	1106.21	1054.74	1017.00	980.21	946.13	916.59	883.69	857.19	836.66
360.0	1105.31	1065.38	1024.31	987.75	955.69	920.81	888.19	860.63	840.94

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	821.25	807.75	794.25	783.00	766.69	739.13	657.56	544.50	431.44
45.0	835.88	819.00	805.50	793.69	776.81	765.00	745.31	649.13	538.31
90.0	829.01	816.19	799.26	786.66	775.41	757.86	697.39	606.94	471.21
135.0	848.25	830.25	816.75	801.00	783.56	772.31	753.19	678.94	558.00
180.0	854.94	836.38	817.43	801.34	786.04	771.98	751.50	685.52	577.69
225.0	828.45	814.95	794.25	781.76	767.42	750.09	680.12	583.03	456.75
270.0	840.38	820.69	802.69	791.44	775.69	765.56	737.44	650.25	532.69
315.0	821.19	799.65	786.94	773.16	759.94	735.98	666.23	552.26	422.55
360.0	821.25	807.75	794.25	783.00	766.69	739.13	657.56	544.50	431.44

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	300.94	286.88	85.89	37.13	30.99	27.23	21.04	18.28	15.98
45.0	444.94	303.19	222.08	92.42	39.94	34.54	30.66	25.26	22.33
90.0	352.91	241.09	131.57	54.96	34.65	31.05	27.39	23.12	20.59
135.0	448.88	321.19	290.81	103.84	45.51	32.68	29.08	24.98	21.66
180.0	451.35	335.53	212.96	119.76	49.33	34.03	30.54	25.65	21.88
225.0	326.98	218.03	110.70	44.66	33.53	28.97	23.96	19.97	16.54
270.0	416.81	284.63	216.34	77.23	34.99	30.38	24.75	19.13	16.76
315.0	309.26	188.66	97.99	37.74	29.87	25.31	19.74	16.14	14.40
360.0	300.94	286.88	85.89	37.13	30.99	27.23	21.04	18.28	15.98

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	12.88	12.60	12.32	12.04	11.81	11.64	11.48	11.31	11.19
45.0	17.72	12.54	12.32	12.09	11.87	11.70	11.53	11.42	11.25
90.0	14.85	12.43	12.15	11.98	11.76	11.59	11.42	11.31	11.14
135.0	19.13	12.83	12.43	12.21	11.98	11.81	11.64	11.48	11.31
180.0	18.96	13.50	12.43	12.21	12.04	11.81	11.64	11.53	11.31
225.0	12.88	12.54	12.21	12.04	11.76	11.59	11.42	11.25	11.08
270.0	14.23	12.54	12.26	12.04	11.87	11.64	11.48	11.31	11.14
315.0	12.77	12.38	12.09	11.87	11.64	11.53	11.36	11.19	11.08
360.0	12.88	12.60	12.32	12.04	11.81	11.64	11.48	11.31	11.19

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.08	10.91	10.80	10.69	10.63	10.52	10.46	10.41	10.35
45.0	11.08	10.97	10.86	10.74	10.69	10.58	10.46	10.41	10.35
90.0	10.97	10.91	10.80	10.63	10.58	10.46	10.41	10.35	10.29
135.0	11.14	11.03	10.91	10.80	10.74	10.63	10.52	10.46	10.35
180.0	11.19	11.08	10.97	10.86	10.74	10.63	10.52	10.46	10.41
225.0	10.91	10.80	10.69	10.58	10.46	10.35	10.29	10.24	10.18
270.0	11.03	10.86	10.80	10.69	10.58	10.46	10.41	10.29	10.29
315.0	10.91	10.86	10.74	10.63	10.46	10.46	10.35	10.29	10.24
360.0	11.08	10.91	10.80	10.69	10.63	10.52	10.46	10.41	10.35

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.29	10.24	10.18	10.18	10.13	10.13	10.07	10.07	10.01
45.0	10.29	10.24	10.18	10.13	10.07	10.07	10.01	10.01	9.96
90.0	10.24	10.18	10.13	10.07	10.07	10.01	9.96	9.96	9.96
135.0	10.29	10.24	10.18	10.13	10.07	10.01	10.01	10.01	9.96
180.0	10.29	10.24	10.18	10.18	10.07	10.01	10.01	9.96	9.96
225.0	10.13	10.07	10.01	9.96	9.90	9.90	9.90	9.79	9.84
270.0	10.24	10.13	10.13	10.07	10.01	10.01	9.96	9.96	9.96
315.0	10.24	10.18	10.13	10.07	10.01	10.01	10.01	9.96	9.90
360.0	10.29	10.24	10.18	10.18	10.13	10.13	10.07	10.07	10.01

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.01	9.96	9.96	9.96	9.96	9.96	9.90	9.90	9.90
45.0	9.96	9.96	9.96	9.90	9.84	9.84	9.84	9.84	9.79
90.0	9.90	9.90	9.90	9.84	9.84	9.84	9.84	9.84	9.79
135.0	9.96	9.90	9.90	9.90	9.90	9.84	9.84	9.84	9.84
180.0	9.90	9.84	9.84	9.84	9.84	9.79	9.79	9.79	9.79
225.0	9.79	9.79	9.79	9.73	9.73	9.73	9.73	9.73	9.68
270.0	9.90	9.90	9.84	9.84	9.84	9.84	9.79	9.79	9.79
315.0	9.90	9.90	9.90	9.90	9.90	9.84	9.84	9.84	9.79
360.0	10.01	9.96	9.96	9.96	9.96	9.96	9.90	9.90	9.90

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.84	9.84	9.96	10.07	10.18	10.07	9.73	9.73	9.68
45.0	9.79	9.79	9.79	9.79	9.90	10.01	10.07	9.68	9.62
90.0	9.79	9.73	9.79	9.79	9.84	10.01	10.24	9.68	9.68
135.0	9.79	9.79	9.79	9.79	9.79	9.73	9.79	9.68	9.68
180.0	9.79	9.79	9.73	9.73	9.73	9.73	9.68	9.68	9.68
225.0	9.68	9.68	9.68	9.68	9.68	9.68	9.62	9.62	9.62
270.0	9.79	9.73	9.73	9.79	9.79	9.73	9.68	9.68	9.62
315.0	9.84	9.84	9.84	9.84	9.90	9.96	9.73	9.68	9.68
360.0	9.84	9.84	9.96	10.07	10.18	10.07	9.73	9.73	9.68

Intensity data(cd)

C/γ(°)	90.0
0.0	9.73
45.0	9.62
90.0	9.62
135.0	9.73
180.0	9.68
225.0	9.62
270.0	9.68
315.0	9.68
360.0	9.73