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NATA

Client:
LumCAT: 2-2644-L
Luminaire: 92.70.411.00
Report No: 2023614-B003
Ballast type: AC

Test No: 2023614-C003	Voltage(V): 34.150
LampCAT: SLM C 1208 L15 2024 G7 HE+	Current(A): 0.480
Lamp flux(lm): 2554.4	Power (W): 16.392
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2457.68, Efficiency(%): 96.21% , Luminous Efficacy(lm/W): 149.93
Central intensity(cd): 9045.138, Maximum intensity(cd): 9045.138
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.8
[C90/270]Total=24.8
Field angle(10%Imax): [C0/180]Total=55.6
[C90/270]Total=55.6
Maximum s/h(1/2): C0_180=0.42 C90_270=0.42
Maximum s/h(1/4): C0_180=0.45 C90_270=0.45
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.21%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.390%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9045.138	0.000	0	0.00%	0.00%
1.0	9001.755	8.635	8.635	0.34%	0.35%
2.0	8866.692	25.646	34.282	1.00%	1.39%
3.0	8655.034	41.906	76.188	1.64%	3.10%
4.0	8384.216	57.036	133.224	2.23%	5.42%
5.0	8046.006	70.682	203.906	2.77%	8.30%
6.0	7644.138	82.456	286.361	3.23%	11.65%
7.0	7202.970	92.156	378.517	3.61%	15.40%
8.0	6709.631	99.570	478.087	3.90%	19.45%
9.0	6219.544	104.784	582.871	4.10%	23.72%
10.0	5703.303	107.897	690.768	4.22%	28.11%
11.0	5193.842	108.885	799.653	4.26%	32.54%
12.0	4715.795	108.327	907.98	4.24%	36.94%
13.0	4268.883	106.625	1014.605	4.17%	41.28%
14.0	3837.817	103.765	1118.37	4.06%	45.51%
15.0	3481.202	100.479	1218.849	3.93%	49.59%
16.0	3144.652	97.087	1315.936	3.80%	53.54%
17.0	2834.533	93.112	1409.048	3.65%	57.33%
18.0	2564.961	89.026	1498.074	3.49%	60.95%
19.0	2318.223	84.957	1583.032	3.33%	64.41%
20.0	2082.762	80.550	1663.582	3.15%	67.69%
21.0	1888.540	76.257	1739.839	2.99%	70.79%
22.0	1699.854	72.110	1811.949	2.82%	73.73%
23.0	1499.660	67.134	1879.084	2.63%	76.46%
24.0	1347.680	62.253	1941.337	2.44%	78.99%
25.0	1179.717	57.467	1998.804	2.25%	81.33%
26.0	1091.974	53.624	2052.428	2.10%	83.51%
27.0	1002.364	51.238	2103.666	2.01%	85.60%
28.0	880.544	47.671	2151.337	1.87%	87.54%
29.0	766.869	43.101	2194.438	1.69%	89.29%
30.0	656.238	38.424	2232.862	1.50%	90.85%
31.0	549.668	33.559	2266.421	1.31%	92.22%
32.0	449.160	28.615	2295.036	1.12%	93.38%
33.0	357.550	23.766	2318.802	0.93%	94.35%
34.0	283.860	19.411	2338.213	0.76%	95.14%
35.0	231.634	16.009	2354.222	0.63%	95.79%
36.0	141.761	11.889	2366.111	0.47%	96.27%
37.0	80.346	7.244	2373.355	0.28%	96.57%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	47.071	4.253	2377.608	0.17%	96.74%
39.0	36.782	2.862	2380.47	0.11%	96.86%
40.0	32.444	2.414	2382.885	0.09%	96.96%
41.0	29.732	2.214	2385.099	0.09%	97.05%
42.0	28.071	2.100	2387.199	0.08%	97.13%
43.0	26.535	2.023	2389.221	0.08%	97.21%
44.0	25.220	1.953	2391.175	0.08%	97.29%
45.0	24.003	1.892	2393.067	0.07%	97.37%
46.0	22.923	1.835	2394.902	0.07%	97.45%
47.0	22.079	1.790	2396.692	0.07%	97.52%
48.0	21.339	1.755	2398.447	0.07%	97.59%
49.0	20.709	1.727	2400.173	0.07%	97.66%
50.0	20.128	1.703	2401.876	0.07%	97.73%
51.0	19.623	1.682	2403.558	0.07%	97.80%
52.0	19.180	1.665	2405.223	0.07%	97.87%
53.0	18.834	1.654	2406.877	0.06%	97.93%
54.0	18.474	1.644	2408.521	0.06%	98.00%
55.0	18.170	1.636	2410.157	0.06%	98.07%
56.0	17.810	1.626	2411.783	0.06%	98.13%
57.0	17.443	1.612	2413.394	0.06%	98.20%
58.0	17.056	1.595	2414.99	0.06%	98.26%
59.0	16.675	1.577	2416.567	0.06%	98.33%
60.0	16.336	1.560	2418.126	0.06%	98.39%
61.0	15.928	1.540	2419.666	0.06%	98.45%
62.0	15.547	1.517	2421.183	0.06%	98.51%
63.0	15.174	1.494	2422.677	0.06%	98.58%
64.0	14.814	1.471	2424.148	0.06%	98.64%
65.0	14.454	1.448	2425.597	0.06%	98.69%
66.0	14.143	1.427	2427.024	0.06%	98.75%
67.0	13.818	1.406	2428.43	0.06%	98.81%
68.0	13.541	1.386	2429.815	0.05%	98.87%
69.0	13.326	1.371	2431.186	0.05%	98.92%
70.0	13.112	1.358	2432.544	0.05%	98.98%
71.0	12.946	1.347	2433.891	0.05%	99.03%
72.0	12.759	1.337	2435.227	0.05%	99.09%
73.0	12.621	1.327	2436.554	0.05%	99.14%
74.0	12.406	1.316	2437.87	0.05%	99.19%
75.0	12.185	1.299	2439.169	0.05%	99.25%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.019	1.285	2440.454	0.05%	99.30%
77.0	11.866	1.273	2441.728	0.05%	99.35%
78.0	11.763	1.265	2442.993	0.05%	99.40%
79.0	11.680	1.260	2444.252	0.05%	99.45%
80.0	11.590	1.254	2445.507	0.05%	99.50%
81.0	11.534	1.251	2446.757	0.05%	99.56%
82.0	11.458	1.247	2448.004	0.05%	99.61%
83.0	11.389	1.242	2449.246	0.05%	99.66%
84.0	11.313	1.237	2450.483	0.05%	99.71%
85.0	11.251	1.231	2451.714	0.05%	99.76%
86.0	11.078	1.220	2452.935	0.05%	99.81%
87.0	10.918	1.204	2454.138	0.05%	99.86%
88.0	10.829	1.191	2455.33	0.05%	99.90%
89.0	10.732	1.182	2456.512	0.05%	99.95%
90.0	10.635	1.171	2457.683	0.05%	100.00%

Zonal flux distribution table

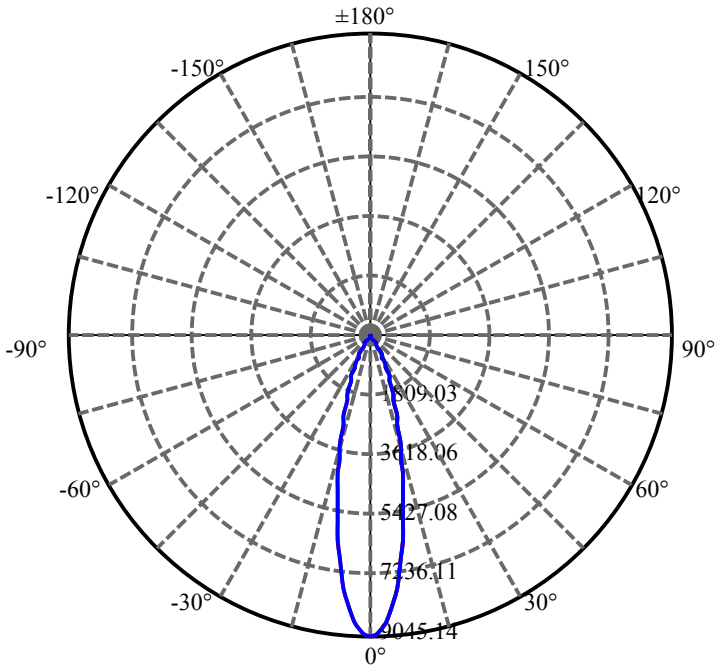
ZONAL LUMEN SUMMARY

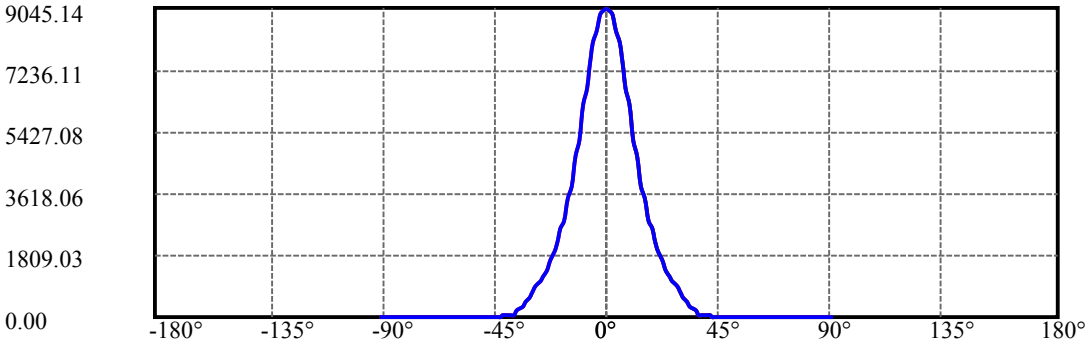
Zone	Lumens	%Lamp	%Fixt
0-30	2232.86	87.41%	90.85%
0-40	2382.88	93.29%	96.96%
0-60	2418.13	94.67%	98.39%
0-90	2456.51	96.17%	99.95%
0-120	2456.51	96.17%	99.95%
0-180	2457.68	96.21%	100.00%
60-90	38.39	1.50%	1.56%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.43	1966.15	76.97%	80.00%

ZONAL LUMEN SUMMARY

0-10	690.77
10-20	972.81
20-30	569.28
30-40	150.02
40-50	18.99
50-60	16.25
60-70	14.42
70-80	12.96
80-90	11.00
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):

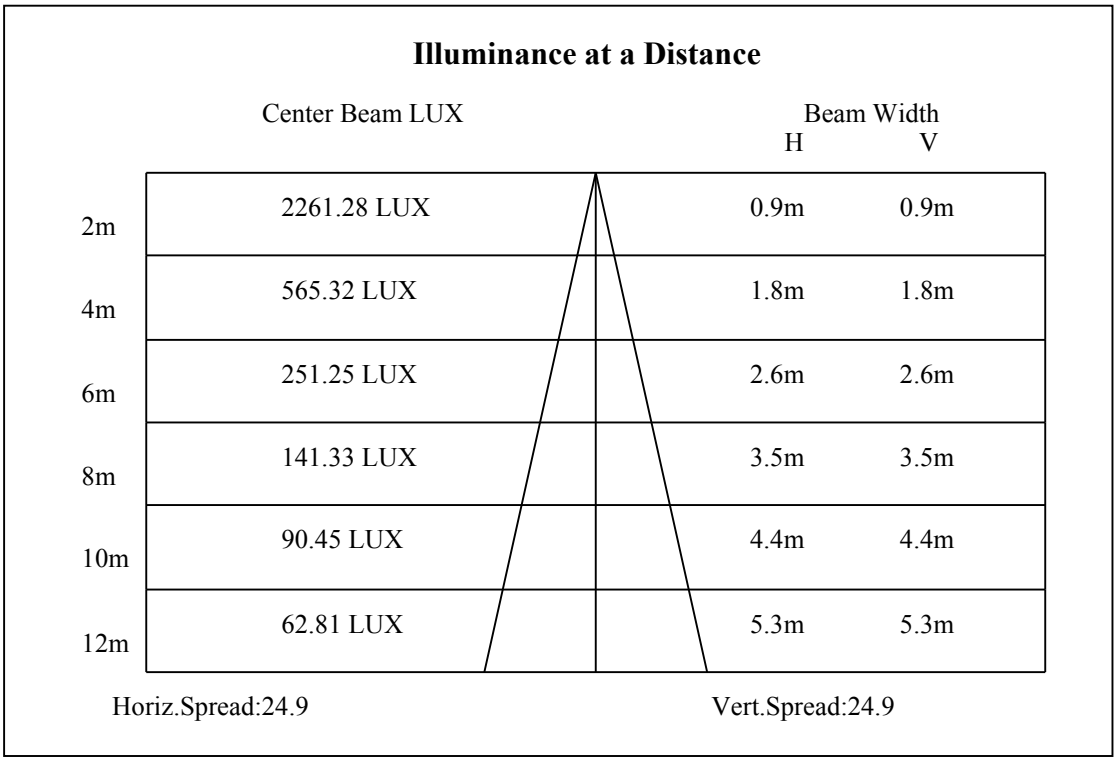
C0/C180:

C90/C270:

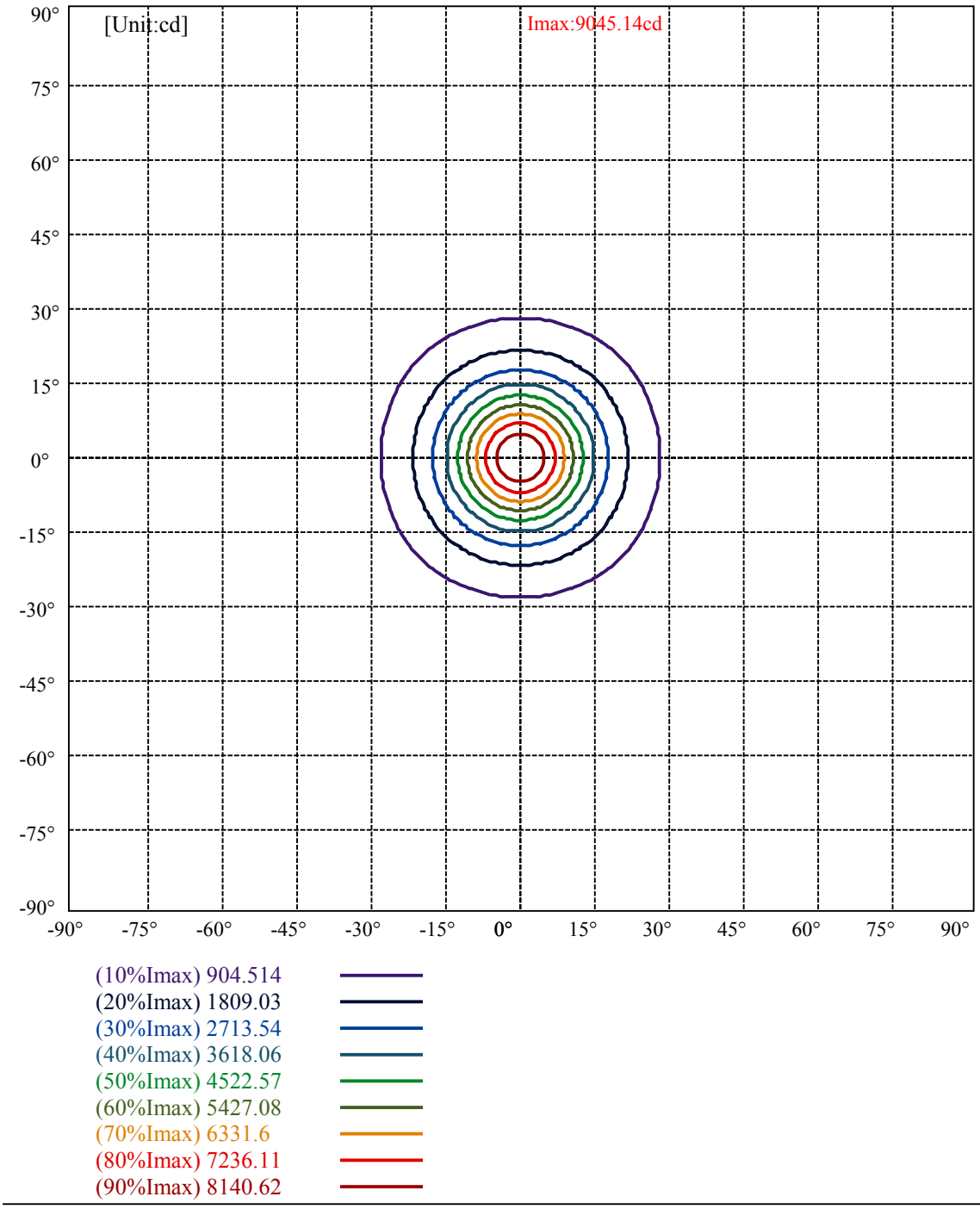
Field angle(10%Imax):C0/180Left:27.8 Right:27.8
:C90/270Left:27.8 Right:27.8

Beam Angle(50%Imax):C0/180Left:12.4 Right:12.4
:C90/270Left:12.4 Right:12.4

Lux distance Curve



ISO-Intensity(V-H)

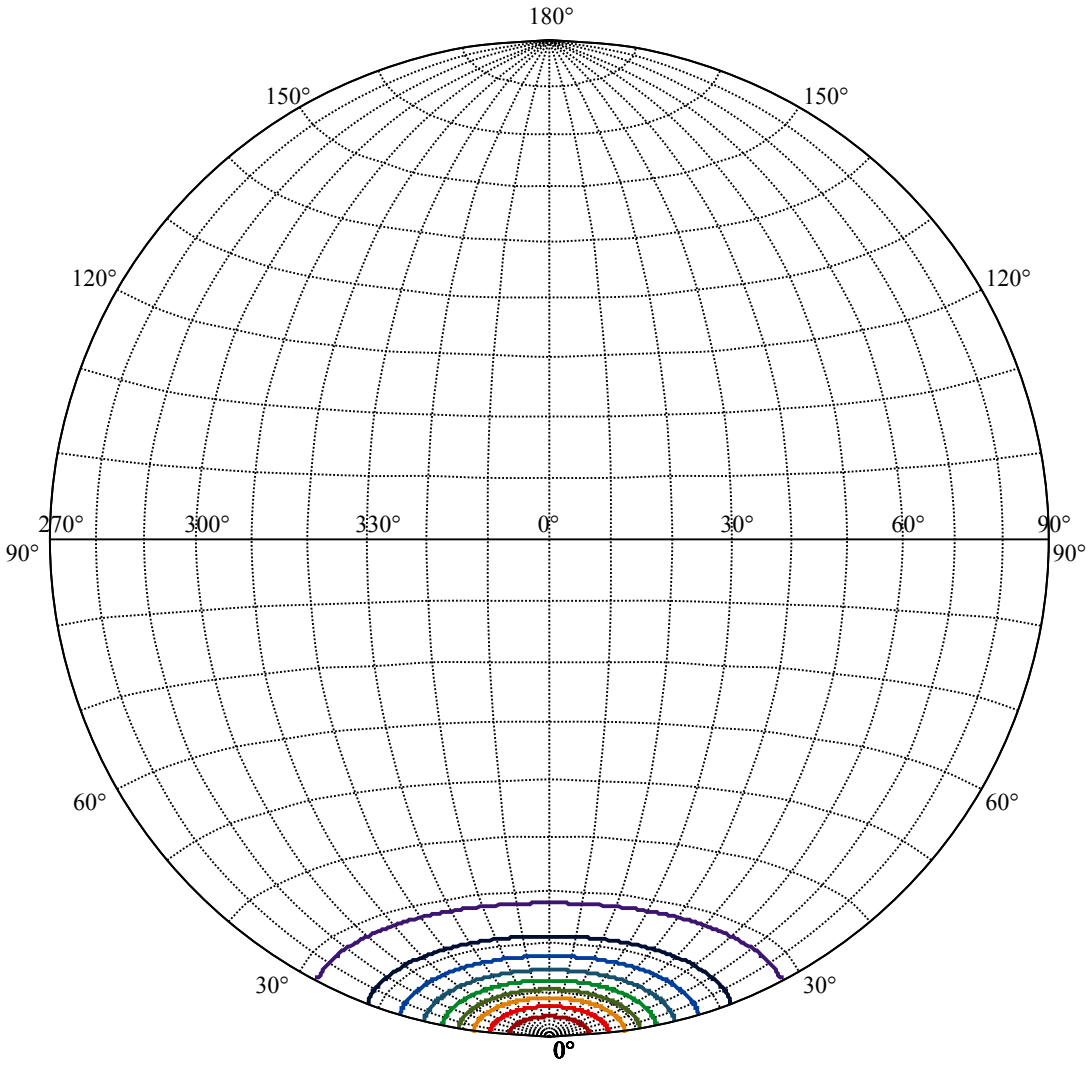


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/6/14
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:9045.14

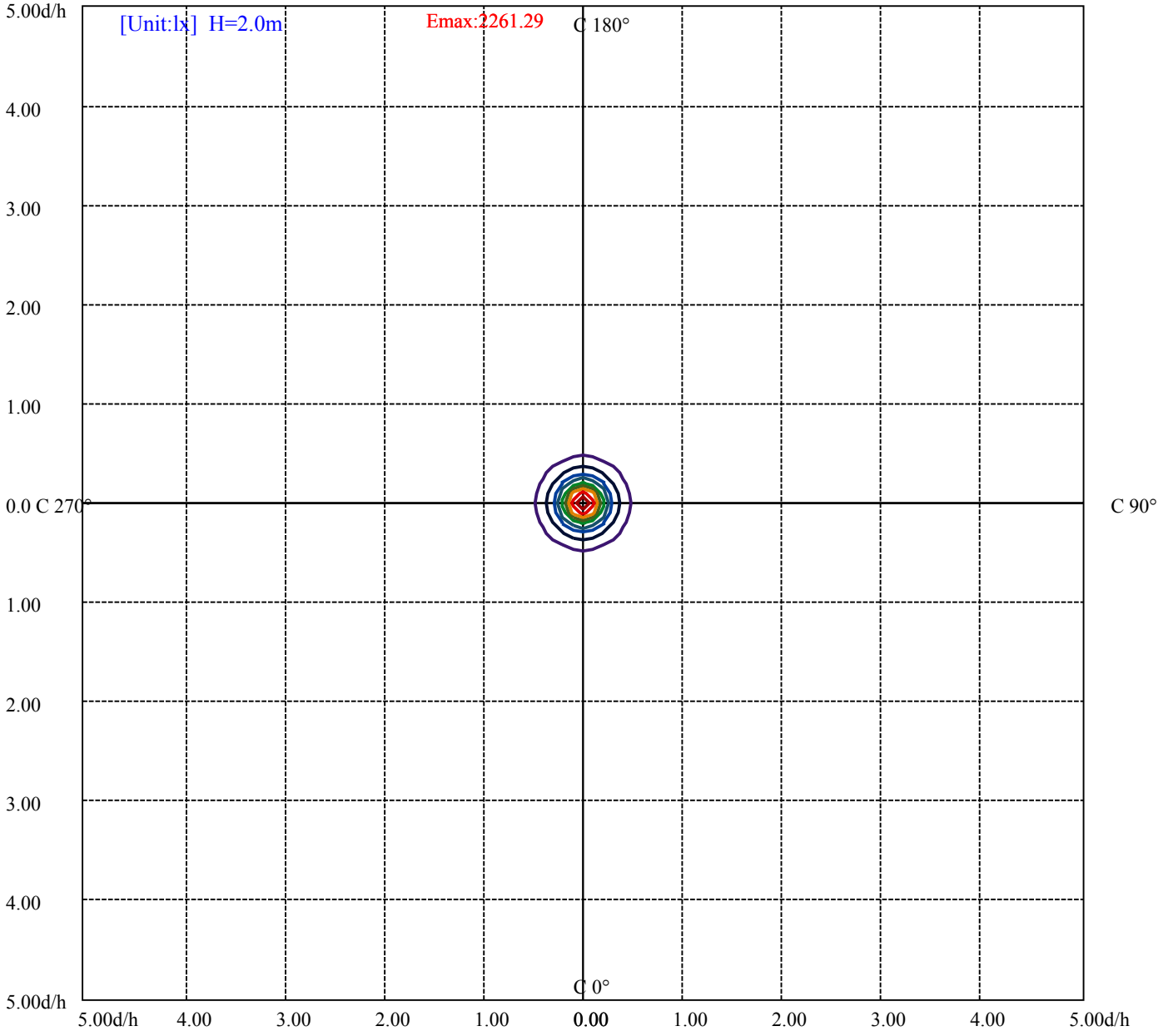
(10%Imax) 904.514
(20%Imax) 1809.03
(30%Imax) 2713.54
(40%Imax) 3618.06
(50%Imax) 4522.57
(60%Imax) 5427.08
(70%Imax) 6331.6
(80%Imax) 7236.11
(90%Imax) 8140.62

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/6/14
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO illuminance diagram

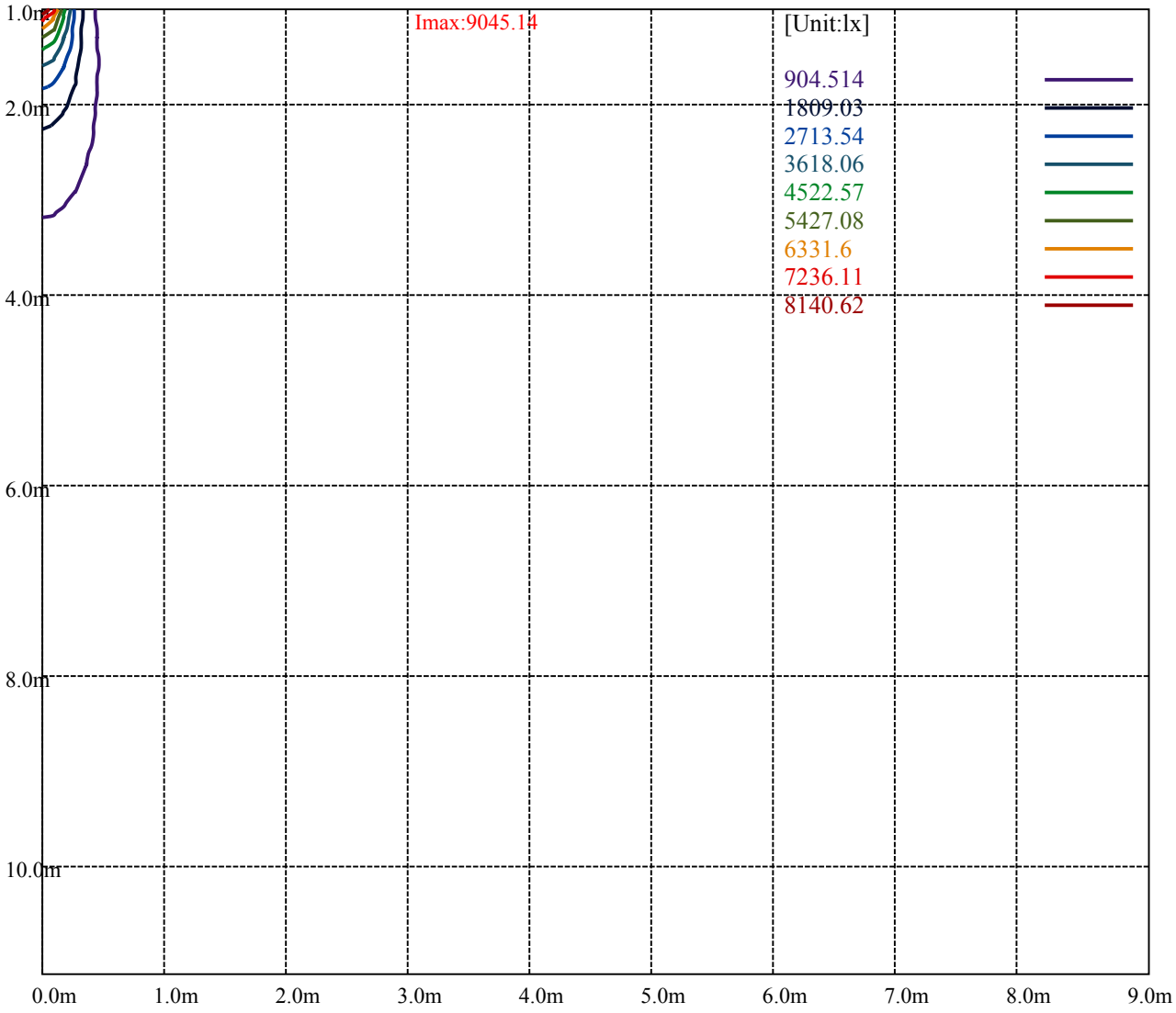


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/6/14
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/6/14
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

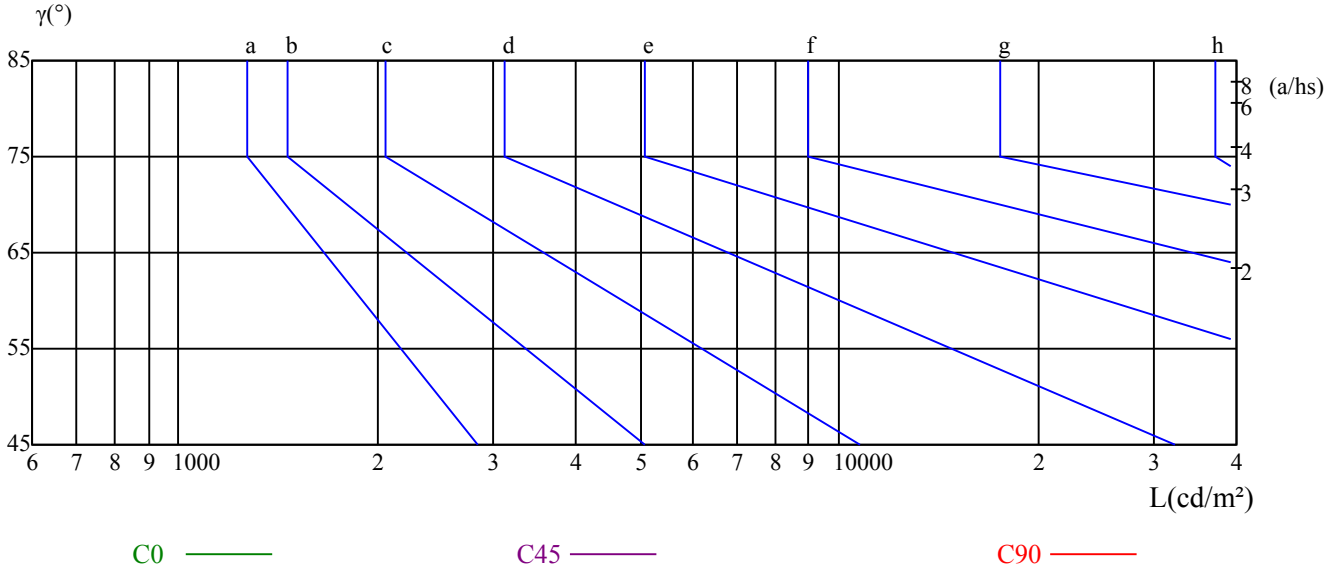
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

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

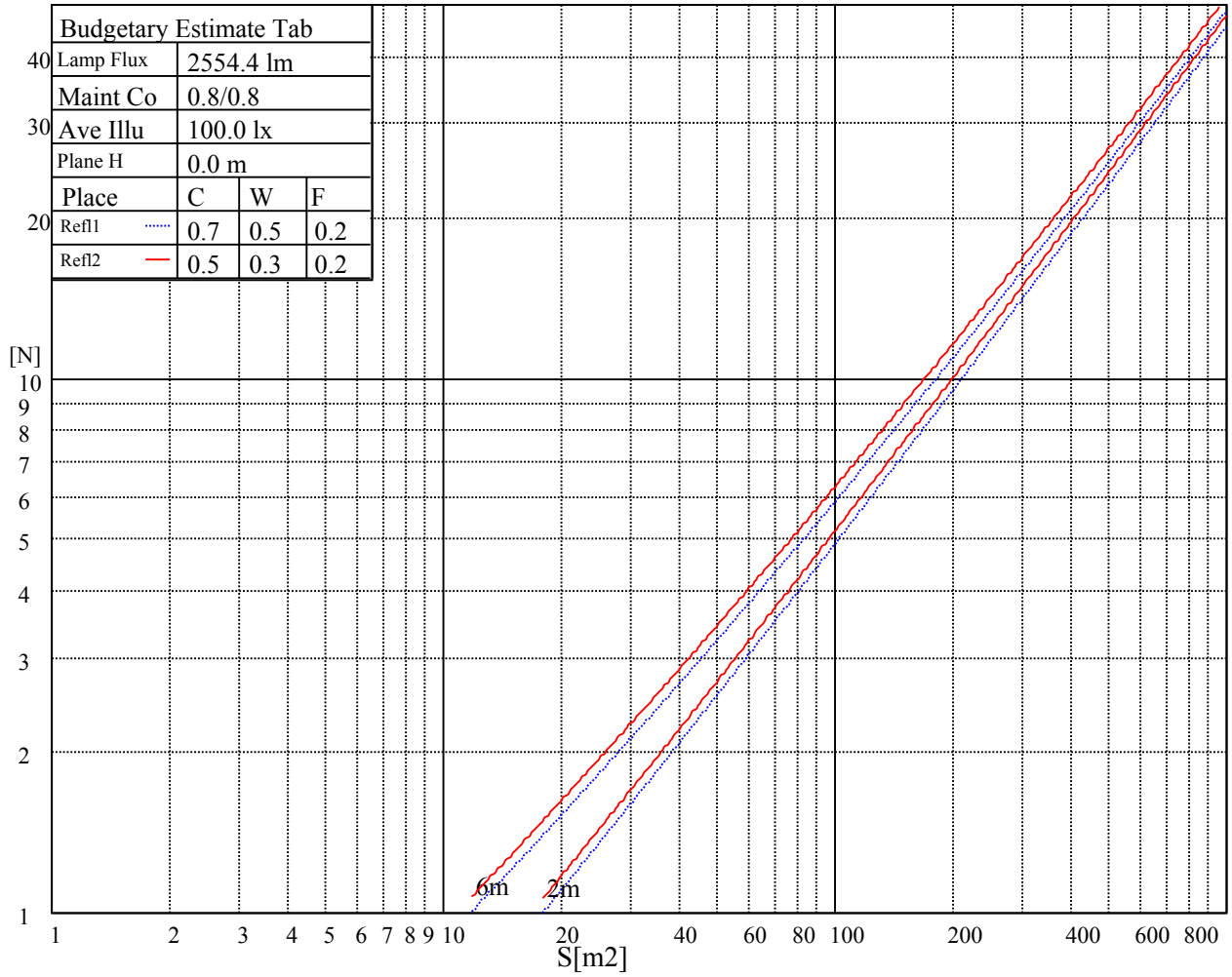
Luminance Limitting Curve



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	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
Variation with the observer position at spacings:											
S = 1.0H		非数字/非数字					非数字/非数字				
S = 1.5H		非数字/非数字					非数字/非数字				
S = 2.0H		非数字/非数字					非数字/非数字				
Standard tables:		BK0					BK0				
Uncorrected UGR		负无穷大					负无穷大				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

Budgetary Estimate Table

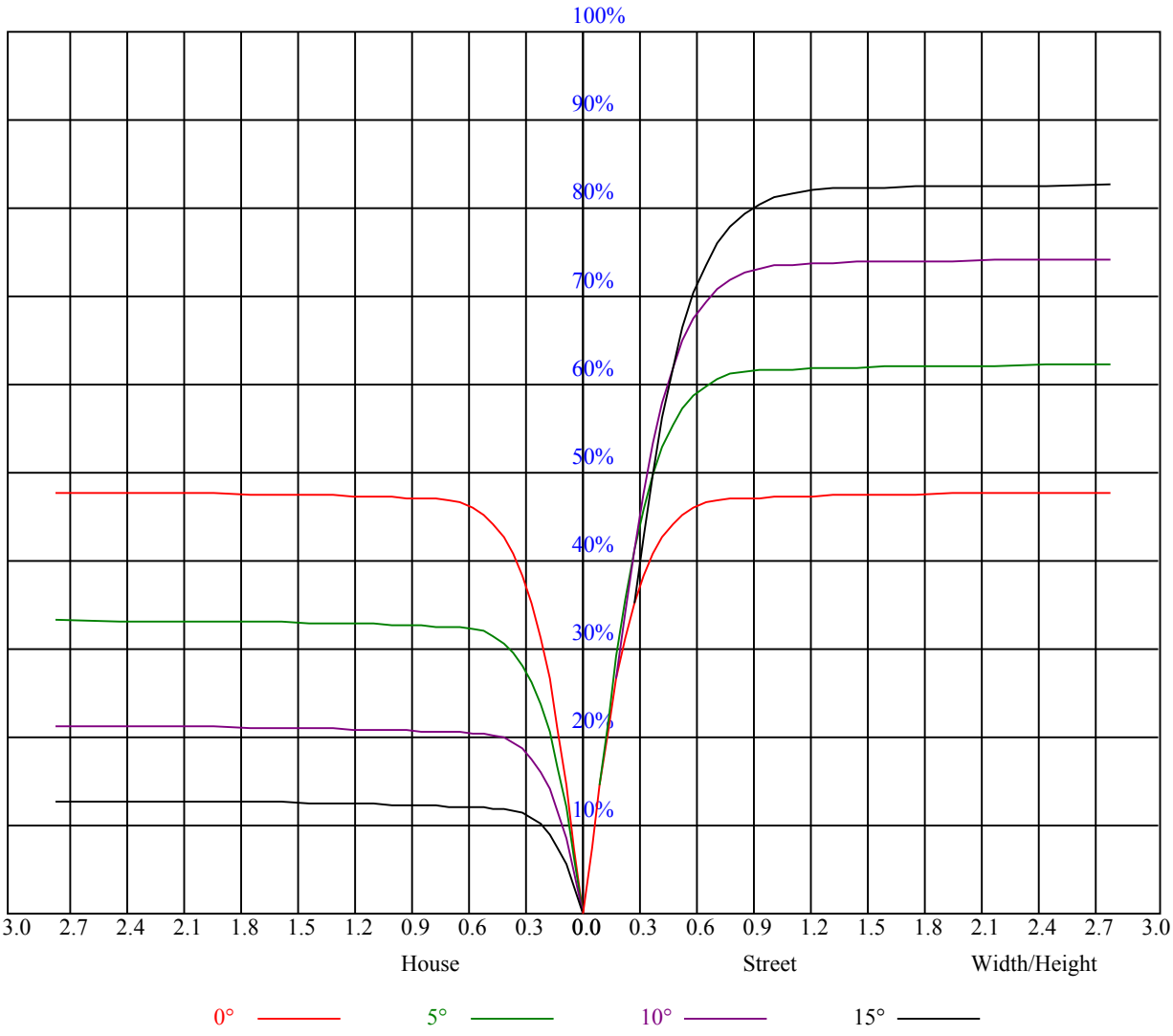


Equipment: GMS1980 Date: 2023/6/14 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.08	1.06	1.04	1.06	1.04	1.02	1.02	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92
2	1.02	0.99	0.96	1.00	0.97	0.95	0.97	0.95	0.93	0.94	0.93	0.91	0.92	0.90	0.89	0.88
3	0.97	0.93	0.90	0.96	0.92	0.89	0.93	0.90	0.88	0.91	0.88	0.86	0.89	0.87	0.85	0.84
4	0.92	0.88	0.85	0.91	0.87	0.84	0.89	0.86	0.83	0.88	0.85	0.83	0.86	0.84	0.82	0.80
5	0.88	0.84	0.81	0.88	0.84	0.80	0.86	0.82	0.80	0.85	0.81	0.79	0.83	0.81	0.78	0.77
6	0.85	0.80	0.77	0.84	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.74
7	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.72
8	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.76	0.72	0.70	0.69
9	0.76	0.72	0.69	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.67
10	0.73	0.69	0.66	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

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/6/14	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.44

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	9107.27	9090.67	8988.82	8760.76	8503.92	8208.88	7778.23	7366.96	6920.25
45.0	9008.19	9093.43	9085.68	8977.19	8781.24	8533.81	8213.31	7749.45	7343.71
90.0	9031.99	8951.73	8739.17	8489.53	8185.64	7830.82	7341.49	6897.00	6417.64
135.0	9033.10	8951.73	8820.54	8595.81	8262.02	7912.74	7530.25	7092.40	6520.60
180.0	9107.27	9016.49	8869.25	8650.05	8388.23	7963.67	7578.41	7146.65	6687.77
225.0	9008.19	8869.81	8588.06	8302.98	7976.40	7587.82	7054.76	6596.99	5992.53
270.0	9031.99	9027.56	8929.59	8767.40	8534.92	8177.33	7840.78	7450.54	6900.88
315.0	9033.10	9012.62	8912.43	8696.55	8441.37	8152.98	7815.87	7323.78	6893.68
360.0	9107.27	9090.67	8988.82	8760.76	8503.92	8208.88	7778.23	7366.96	6920.25

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6358.41	5889.57	5416.29	4946.34	4404.43	4006.99	3646.09	3311.75	2948.63
45.0	6904.20	6326.31	5853.59	5266.29	4806.30	4370.66	3967.14	3518.77	3192.19
90.0	5951.01	5348.21	4876.04	4432.66	3940.01	3585.75	3186.65	2901.03	2641.97
135.0	6053.41	5575.16	5003.91	4562.74	4154.79	3689.82	3370.43	3064.32	2720.57
180.0	6096.59	5620.00	5036.57	4595.40	4177.48	3713.06	3380.94	3082.59	2811.35
225.0	5520.91	5053.73	4508.50	4094.45	3707.53	3289.61	2983.50	2712.27	2467.61
270.0	6445.32	5977.03	5499.32	4921.43	4479.71	4063.45	3689.82	3266.91	2964.13
315.0	6426.50	5836.43	5356.51	4907.04	4480.82	3983.19	3625.05	3299.57	2929.81
360.0	6358.41	5889.57	5416.29	4946.34	4404.43	4006.99	3646.09	3311.75	2948.63

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2685.15	2447.13	2178.11	1979.39	1798.94	1589.70	1436.92	1090.63	1090.63
45.0	2918.19	2658.02	2372.95	2165.93	1980.50	1764.62	1605.75	1456.30	1273.08
90.0	2343.62	2122.76	1924.04	1752.44	1547.08	1392.09	1103.97	1103.97	1005.33
135.0	2478.13	2260.03	2008.73	1826.61	1666.64	1516.08	1336.73	1205.55	1102.59
180.0	2495.84	2267.78	2065.74	1878.65	1661.11	1506.12	1367.18	1190.60	1090.96
225.0	2238.44	1988.80	1810.01	1643.95	1454.08	1102.98	1102.98	1059.03	961.10
270.0	2694.00	2384.58	2163.16	1917.39	1727.53	1562.58	1415.34	1236.54	1116.98
315.0	2666.33	2416.68	2139.36	1943.96	1762.96	1563.13	1412.57	1095.12	1095.12
360.0	2685.15	2447.13	2178.11	1979.39	1798.94	1589.70	1436.92	1090.63	1090.63

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1043.19	930.22	792.83	685.11	583.76	490.82	378.34	294.37	214.94
45.0	1160.71	1036.72	930.99	818.07	710.13	581.71	489.27	399.60	313.25
90.0	912.17	800.41	704.93	581.82	491.76	385.26	304.61	229.88	149.95
135.0	1000.18	870.10	755.52	653.67	531.89	437.24	330.96	292.21	292.21
180.0	993.54	851.28	748.33	617.69	518.61	422.29	335.39	294.43	294.43
225.0	860.80	719.98	615.64	516.23	401.20	317.45	239.07	166.12	89.73
270.0	1023.43	920.48	778.77	679.69	585.59	474.32	386.31	303.28	283.91
315.0	1024.87	915.16	807.94	697.62	574.40	484.18	396.44	290.99	214.66
360.0	1043.19	930.22	792.83	685.11	583.76	490.82	378.34	294.37	214.94

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	145.47	77.83	46.33	35.32	31.99	28.34	26.96	26.07	25.19
45.0	292.21	196.56	85.19	49.38	36.81	34.04	31.88	29.89	28.34
90.0	96.20	57.79	42.46	37.47	34.60	32.44	30.28	27.73	26.02
135.0	112.87	57.24	40.35	36.87	33.88	31.50	29.95	28.45	27.07
180.0	97.48	53.97	35.15	31.94	29.34	28.06	26.79	25.85	24.63
225.0	50.10	35.92	32.94	29.95	28.29	26.90	25.30	24.19	22.97
270.0	193.29	84.80	46.83	38.14	34.15	30.11	28.45	26.90	25.57
315.0	146.47	78.66	47.33	35.20	30.50	26.46	24.96	23.19	21.98
360.0	145.47	77.83	46.33	35.32	31.99	28.34	26.96	26.07	25.19

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	24.47	23.64	23.08	22.64	22.20	21.53	21.09	20.65	20.09
45.0	26.40	25.02	24.36	23.97	23.64	23.41	23.36	23.14	23.14
90.0	24.52	22.81	21.92	21.31	20.81	20.31	19.93	19.48	19.37
135.0	25.63	24.63	23.64	22.53	21.70	20.70	19.87	19.26	18.60
180.0	23.75	22.69	21.53	20.59	19.76	19.04	18.32	17.88	17.55
225.0	22.14	21.42	20.59	19.82	19.21	18.71	18.16	17.66	17.33
270.0	24.13	23.08	22.09	21.26	20.31	19.65	19.10	18.54	18.05
315.0	20.98	20.09	19.43	18.60	18.05	17.66	17.16	16.83	16.55
360.0	24.47	23.64	23.08	22.64	22.20	21.53	21.09	20.65	20.09

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	19.71	19.32	18.88	18.49	18.16	17.71	17.33	16.94	16.55
45.0	23.14	23.08	22.69	21.98	21.37	20.54	19.98	19.26	18.43
90.0	19.15	18.82	18.27	17.77	17.16	16.77	16.22	15.72	15.22
135.0	17.82	17.27	16.88	16.50	16.00	15.61	15.28	14.89	14.67
180.0	17.16	16.88	16.61	16.33	16.00	15.72	15.44	15.11	14.83
225.0	16.88	16.61	16.27	16.00	15.72	15.44	15.22	14.78	14.50
270.0	17.66	17.27	16.99	16.77	16.44	16.16	15.94	15.67	15.33
315.0	16.27	16.11	15.89	15.72	15.61	15.44	15.28	15.06	14.83
360.0	19.71	19.32	18.88	18.49	18.16	17.71	17.33	16.94	16.55

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	16.05	15.72	15.33	15.00	14.56	14.17	13.84	13.40	13.17
45.0	17.82	17.21	16.66	15.94	15.39	14.95	14.45	13.95	13.62
90.0	14.83	14.45	14.06	13.78	13.51	13.17	13.01	12.84	12.68
135.0	14.34	14.00	13.73	13.51	13.17	12.95	12.79	12.62	12.45
180.0	14.56	14.17	13.95	13.73	13.51	13.28	13.12	12.95	12.73
225.0	14.17	13.89	13.56	13.40	13.17	13.06	12.95	12.84	12.79
270.0	15.00	14.67	14.34	14.00	13.84	13.56	13.40	13.34	13.23
315.0	14.61	14.39	14.00	13.78	13.40	13.17	13.06	12.95	12.90
360.0	16.05	15.72	15.33	15.00	14.56	14.17	13.84	13.40	13.17

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.90	12.68	12.51	12.34	12.12	11.90	11.73	11.62	11.51
45.0	13.28	12.95	12.73	12.51	12.23	12.07	11.85	11.79	11.73
90.0	12.51	12.40	12.29	12.18	12.07	11.90	11.90	11.79	11.68
135.0	12.34	12.18	11.96	11.79	11.68	11.62	11.51	11.46	11.35
180.0	12.57	12.34	12.12	11.90	11.73	11.57	11.51	11.46	11.35
225.0	12.45	12.29	12.12	11.96	11.85	11.73	11.62	11.57	11.51
270.0	13.12	13.12	12.73	12.57	12.45	12.34	12.29	12.12	12.07
315.0	12.90	13.01	12.79	12.23	12.01	11.79	11.68	11.62	11.51
360.0	12.90	12.68	12.51	12.34	12.12	11.90	11.73	11.62	11.51

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.51	11.40	11.35	11.29	11.24	11.02	10.90	10.85	10.74
45.0	11.62	11.57	11.46	11.40	11.35	11.24	11.07	10.96	10.90
90.0	11.62	11.57	11.46	11.35	11.24	11.07	10.96	10.85	10.74
135.0	11.29	11.24	11.18	11.18	11.13	10.96	10.85	10.79	10.68
180.0	11.29	11.24	11.18	11.13	11.07	10.96	10.79	10.68	10.57
225.0	11.46	11.35	11.35	11.24	11.18	10.90	10.79	10.68	10.63
270.0	12.01	11.90	11.79	11.62	11.51	11.40	11.07	10.96	10.79
315.0	11.46	11.40	11.35	11.29	11.29	11.07	10.90	10.85	10.79
360.0	11.51	11.40	11.35	11.29	11.24	11.02	10.90	10.85	10.74

Intensity data(cd)

C/γ(°)	90.0
0.0	10.68
45.0	10.79
90.0	10.68
135.0	10.57
180.0	10.46
225.0	10.57
270.0	10.63
315.0	10.68
360.0	10.68