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

NT

Client:
LumCAT: 2-2640-L
Luminaire: 92.70.412.00
Report No: 20231117-B013
Ballast type: AC

Test No: 20231117-C013	Voltage(V): 35.900
LampCAT: P2141-036-1206-P3090-1	Current(A): 0.700
Lamp flux(lm): 3111.0	Power (W): 25.130
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2864.40, Efficiency(%): 92.07% , Luminous Efficacy(lm/W): 113.98
Central intensity(cd): 7814.544, Maximum intensity(cd): 7814.544
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=28.4
[C90/270]Total=28.4
Field angle(10%Imax): [C0/180]Total=64.0
[C90/270]Total=64.0
Beam angle of C0 plane : 28.44
Aveage BeamAngle(IEC 61341):28.44
Maximum s/h(1/2): C0_180=0.47 C90_270=0.47
Maximum s/h(1/4): C0_180=0.53 C90_270=0.53
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.07%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.909%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7814.544	0.000	0	0.00%	0.00%
1.0	7773.237	7.458	7.458	0.24%	0.26%
2.0	7687.854	22.191	29.65	0.71%	1.04%
3.0	7540.267	36.421	66.07	1.17%	2.31%
4.0	7326.395	49.763	115.834	1.60%	4.04%
5.0	7084.776	61.996	177.83	1.99%	6.21%
6.0	6790.434	72.918	250.748	2.34%	8.75%
7.0	6457.551	82.230	332.978	2.64%	11.62%
8.0	6096.646	89.848	422.826	2.89%	14.76%
9.0	5725.015	95.808	518.634	3.08%	18.11%
10.0	5367.431	100.383	619.017	3.23%	21.61%
11.0	4984.938	103.441	722.458	3.33%	25.22%
12.0	4636.418	105.175	827.633	3.38%	28.89%
13.0	4304.780	106.109	933.743	3.41%	32.60%
14.0	3970.375	105.921	1039.664	3.40%	36.30%
15.0	3685.028	105.097	1144.761	3.38%	39.97%
16.0	3396.082	103.758	1248.519	3.34%	43.59%
17.0	3130.315	101.634	1350.152	3.27%	47.14%
18.0	2887.036	99.213	1449.365	3.19%	50.60%
19.0	2680.567	96.865	1546.23	3.11%	53.98%
20.0	2474.929	94.360	1640.59	3.03%	57.28%
21.0	2280.084	91.306	1731.896	2.93%	60.46%
22.0	2108.626	88.193	1820.089	2.83%	63.54%
23.0	1948.793	85.136	1905.225	2.74%	66.51%
24.0	1803.351	82.035	1987.26	2.64%	69.38%
25.0	1667.250	78.914	2066.174	2.54%	72.13%
26.0	1518.834	75.208	2141.382	2.42%	74.76%
27.0	1368.043	70.628	2212.01	2.27%	77.22%
28.0	1215.558	65.411	2277.421	2.10%	79.51%
29.0	1127.504	61.301	2338.722	1.97%	81.65%
30.0	1015.365	57.857	2396.579	1.86%	83.67%
31.0	894.604	53.152	2449.731	1.71%	85.52%
32.0	779.614	47.964	2497.695	1.54%	87.20%
33.0	665.094	42.562	2540.257	1.37%	88.68%
34.0	560.310	37.084	2577.341	1.19%	89.98%
35.0	466.264	31.882	2609.223	1.02%	91.09%
36.0	388.008	27.200	2636.423	0.87%	92.04%
37.0	312.630	22.851	2659.274	0.73%	92.84%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	263.822	19.241	2678.515	0.62%	93.51%
39.0	221.774	16.575	2695.09	0.53%	94.09%
40.0	179.097	13.981	2709.071	0.45%	94.58%
41.0	129.963	11.005	2720.076	0.35%	94.96%
42.0	106.971	8.608	2728.685	0.28%	95.26%
43.0	90.185	7.303	2735.988	0.23%	95.52%
44.0	77.412	6.326	2742.313	0.20%	95.74%
45.0	68.064	5.591	2747.904	0.18%	95.93%
46.0	61.145	5.053	2752.957	0.16%	96.11%
47.0	55.367	4.634	2757.591	0.15%	96.27%
48.0	51.237	4.309	2761.901	0.14%	96.42%
49.0	47.812	4.067	2765.968	0.13%	96.56%
50.0	44.968	3.868	2769.837	0.12%	96.70%
51.0	42.871	3.716	2773.553	0.12%	96.83%
52.0	41.232	3.609	2777.162	0.12%	96.95%
53.0	39.945	3.531	2780.693	0.11%	97.08%
54.0	38.990	3.479	2784.172	0.11%	97.20%
55.0	38.235	3.447	2787.619	0.11%	97.32%
56.0	37.571	3.425	2791.045	0.11%	97.44%
57.0	36.955	3.408	2794.452	0.11%	97.56%
58.0	36.291	3.387	2797.839	0.11%	97.68%
59.0	35.509	3.357	2801.196	0.11%	97.79%
60.0	34.485	3.307	2804.503	0.11%	97.91%
61.0	33.143	3.227	2807.73	0.10%	98.02%
62.0	31.773	3.128	2810.858	0.10%	98.13%
63.0	30.161	3.012	2813.871	0.10%	98.24%
64.0	28.445	2.876	2816.746	0.09%	98.34%
65.0	26.833	2.736	2819.482	0.09%	98.43%
66.0	25.262	2.599	2822.081	0.08%	98.52%
67.0	23.747	2.464	2824.545	0.08%	98.61%
68.0	22.494	2.342	2826.888	0.08%	98.69%
69.0	21.470	2.243	2829.131	0.07%	98.77%
70.0	20.536	2.157	2831.288	0.07%	98.84%
71.0	19.824	2.086	2833.374	0.07%	98.92%
72.0	19.166	2.027	2835.401	0.07%	98.99%
73.0	18.585	1.974	2837.376	0.06%	99.06%
74.0	18.004	1.924	2839.299	0.06%	99.12%
75.0	17.485	1.875	2841.174	0.06%	99.19%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.007	1.831	2843.005	0.06%	99.25%
77.0	16.502	1.787	2844.792	0.06%	99.32%
78.0	16.025	1.741	2846.533	0.06%	99.38%
79.0	15.575	1.698	2848.231	0.05%	99.44%
80.0	15.118	1.655	2849.886	0.05%	99.49%
81.0	14.689	1.612	2851.498	0.05%	99.55%
82.0	14.274	1.571	2853.068	0.05%	99.60%
83.0	13.880	1.531	2854.599	0.05%	99.66%
84.0	13.541	1.494	2856.092	0.05%	99.71%
85.0	13.195	1.459	2857.552	0.05%	99.76%
86.0	12.904	1.427	2858.978	0.05%	99.81%
87.0	12.607	1.396	2860.374	0.04%	99.86%
88.0	12.323	1.366	2861.74	0.04%	99.91%
89.0	12.074	1.337	2863.077	0.04%	99.95%
90.0	11.970	1.318	2864.396	0.04%	100.00%

Zonal flux distribution table

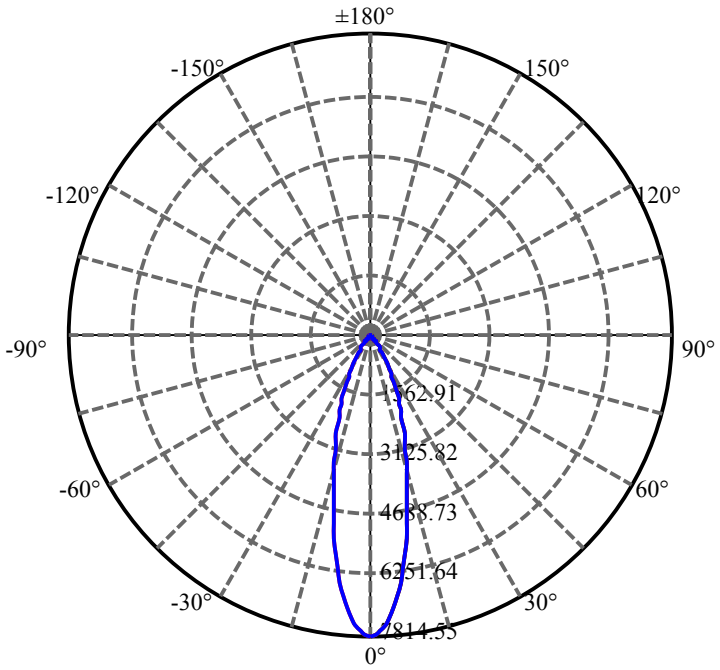
ZONAL LUMEN SUMMARY

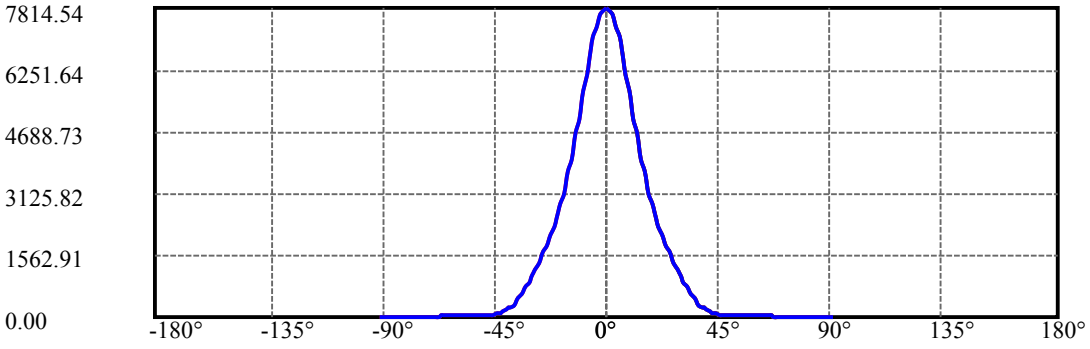
Zone	Lumens	%Lamp	%Fixt
0-30	2396.58	77.04%	83.67%
0-40	2709.07	87.08%	94.58%
0-60	2804.50	90.15%	97.91%
0-90	2863.08	92.03%	99.95%
0-120	2863.08	92.03%	99.95%
0-180	2864.40	92.07%	100.00%
60-90	58.57	1.88%	2.04%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.23	2291.52	73.66%	80.00%

ZONAL LUMEN SUMMARY

0-10	619.02
10-20	1021.57
20-30	755.99
30-40	312.49
40-50	60.77
50-60	34.67
60-70	26.79
70-80	18.60
80-90	13.19
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):

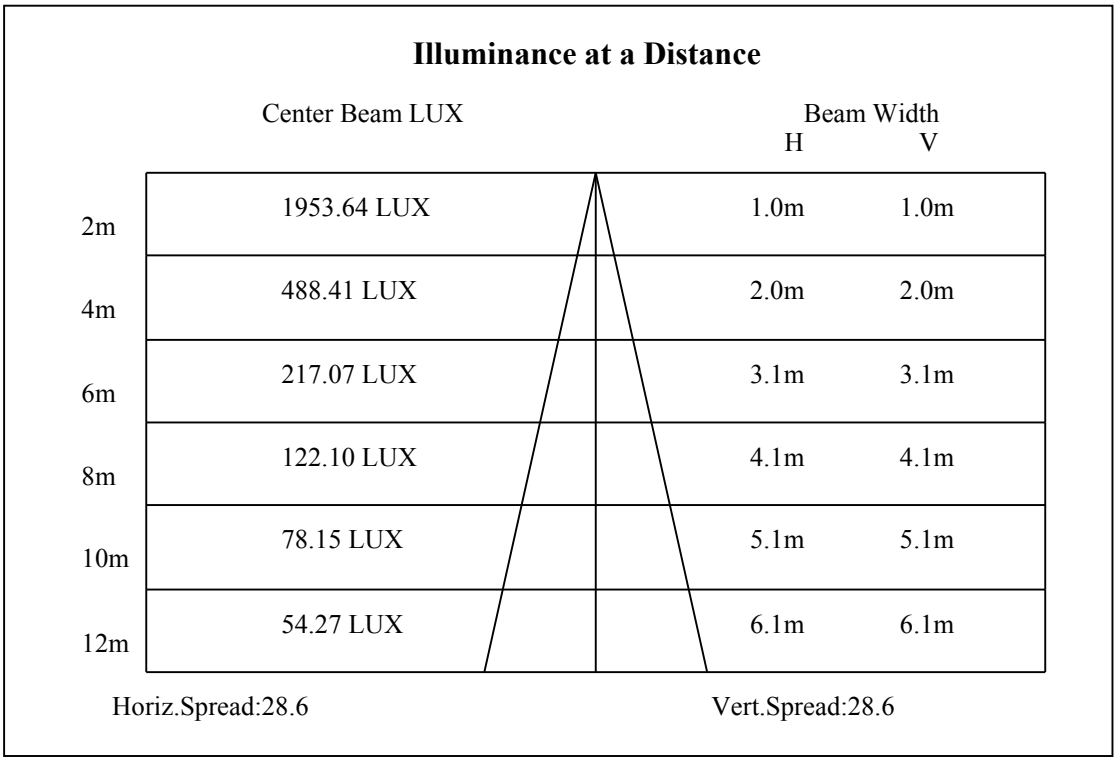
C0/C180:

C90/C270:

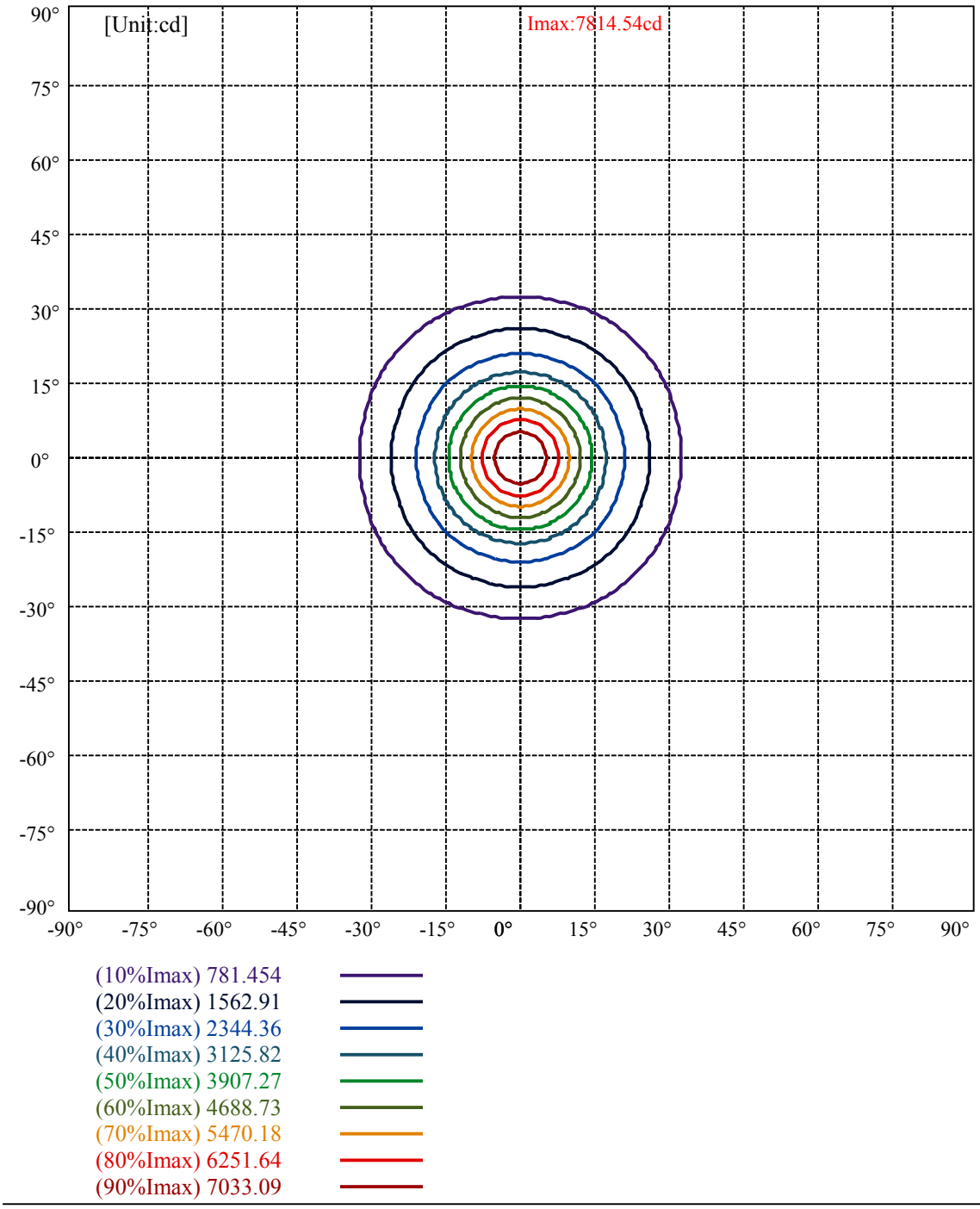
Field angle(10%Imax):C0/180Left:32.0 Right:32.0
:C90/270Left:32.0 Right:32.0

Beam Angle(50%Imax):C0/180Left:14.2 Right:14.2
:C90/270Left:14.2 Right:14.2

Lux distance Curve



ISO-Intensity(V-H)

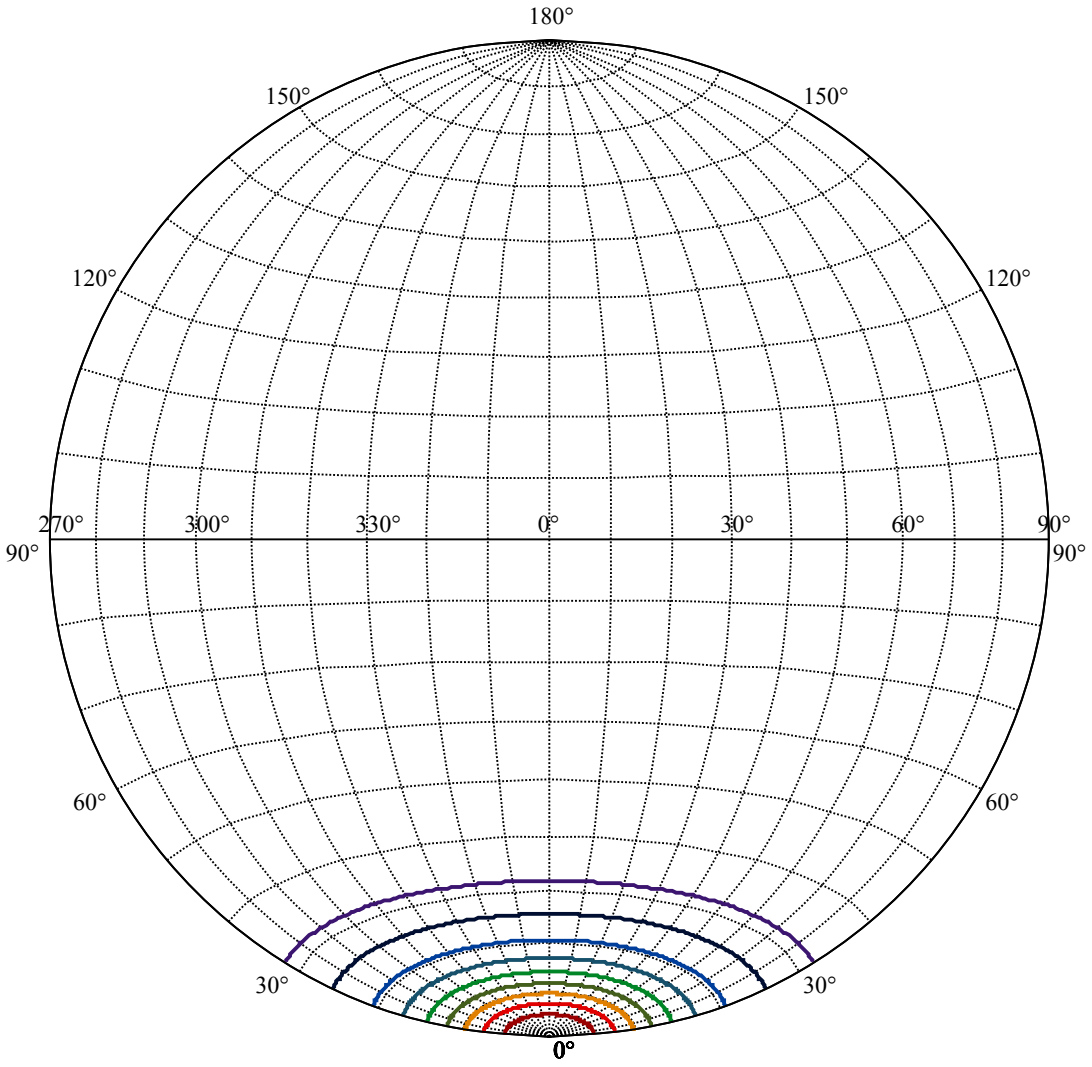


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/17
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



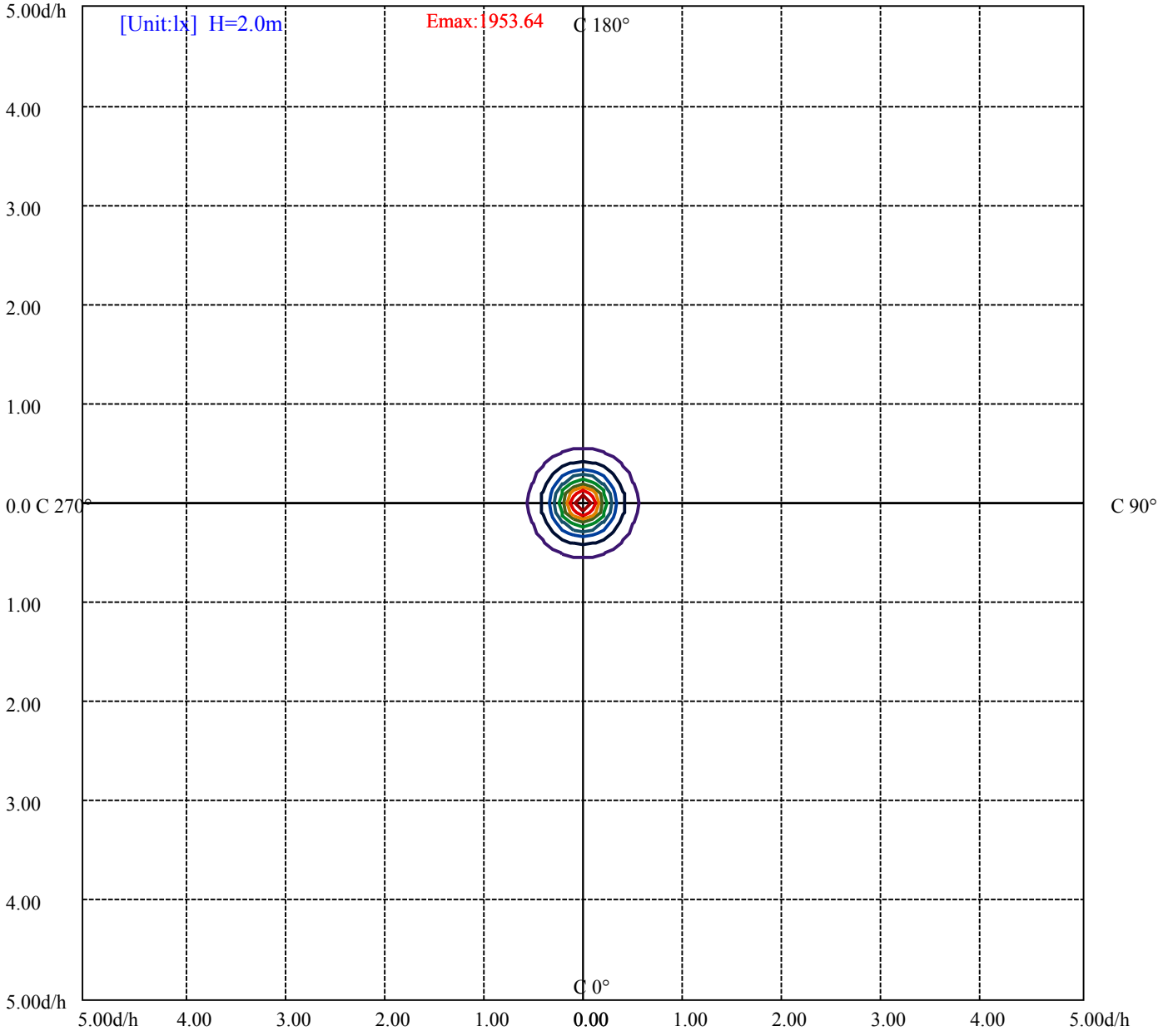
House [Unit:cd] Road

Imax:7814.54

(10%Imax) 781.454
(20%Imax) 1562.91
(30%Imax) 2344.36
(40%Imax) 3125.82
(50%Imax) 3907.27
(60%Imax) 4688.73
(70%Imax) 5470.18
(80%Imax) 6251.64
(90%Imax) 7033.09

NT 2-2640-L

ISO illuminance diagram

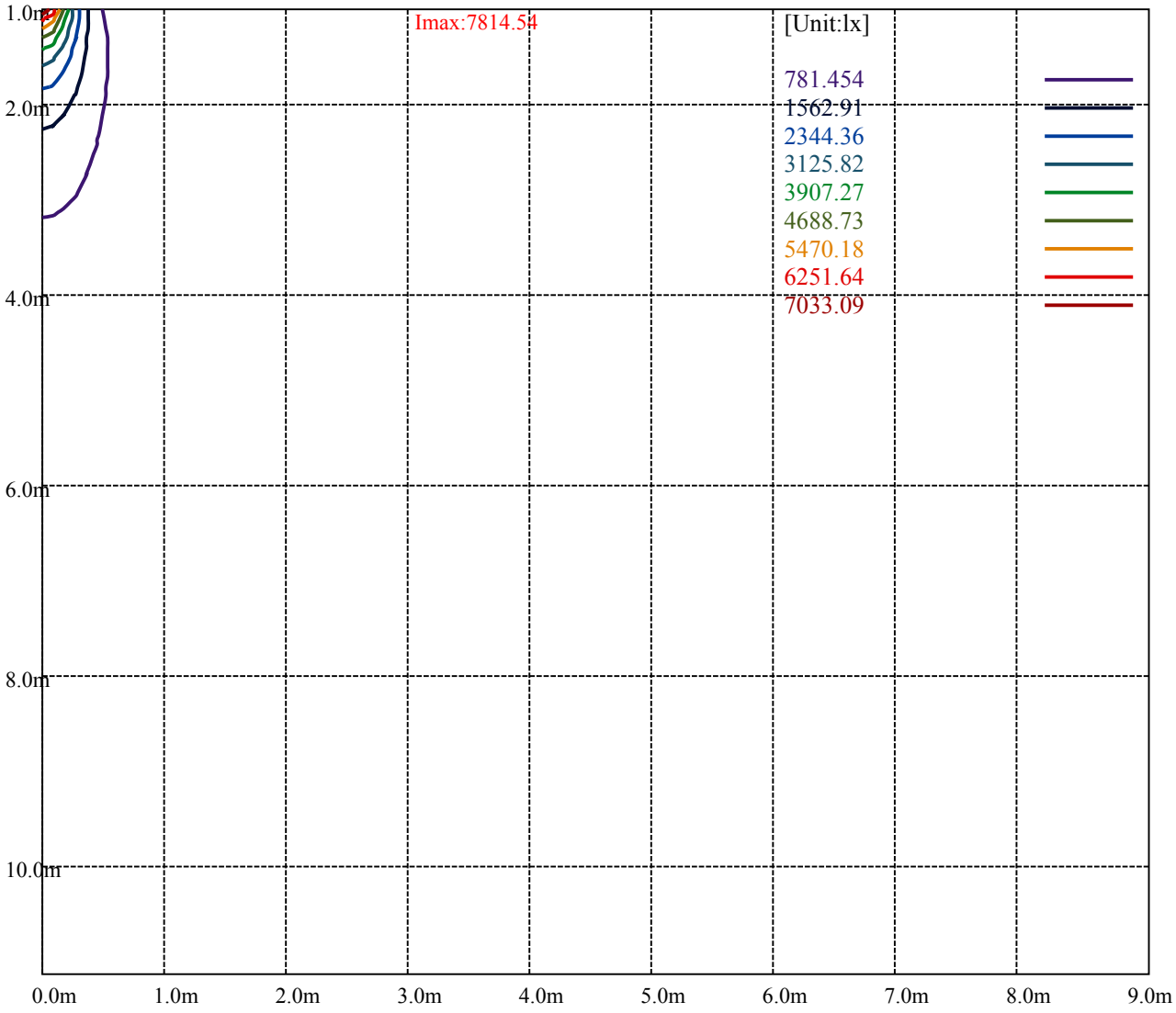


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/17
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/17
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 2-2640-L

Luminance Limitting Curve(no luminous side)

Luminance Table

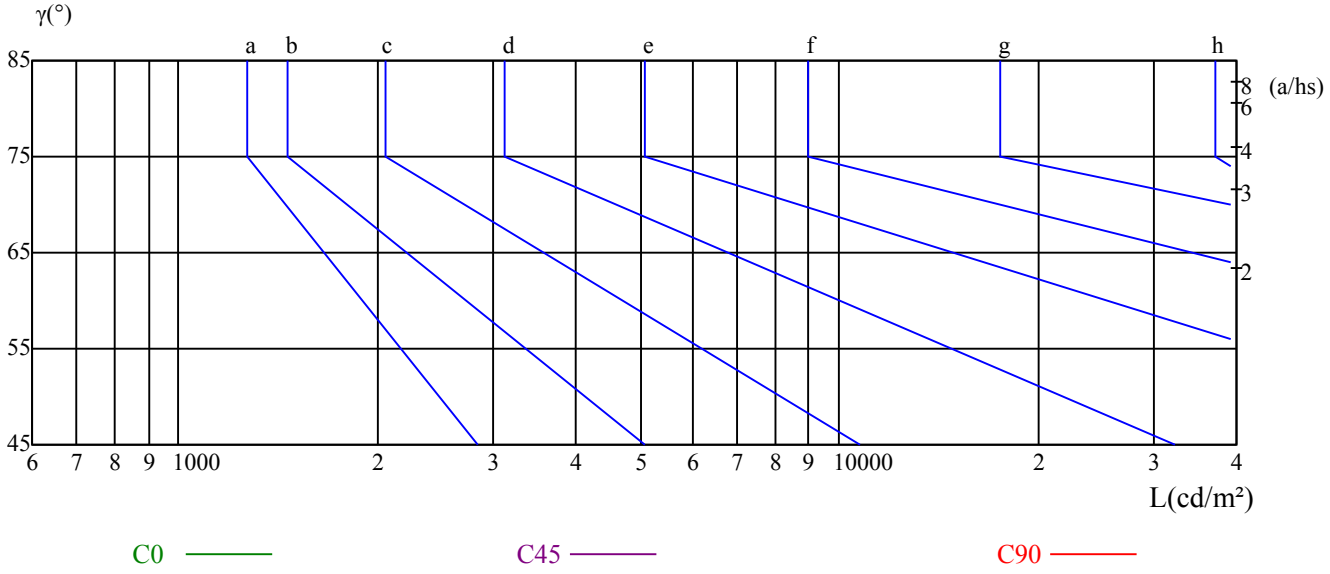
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

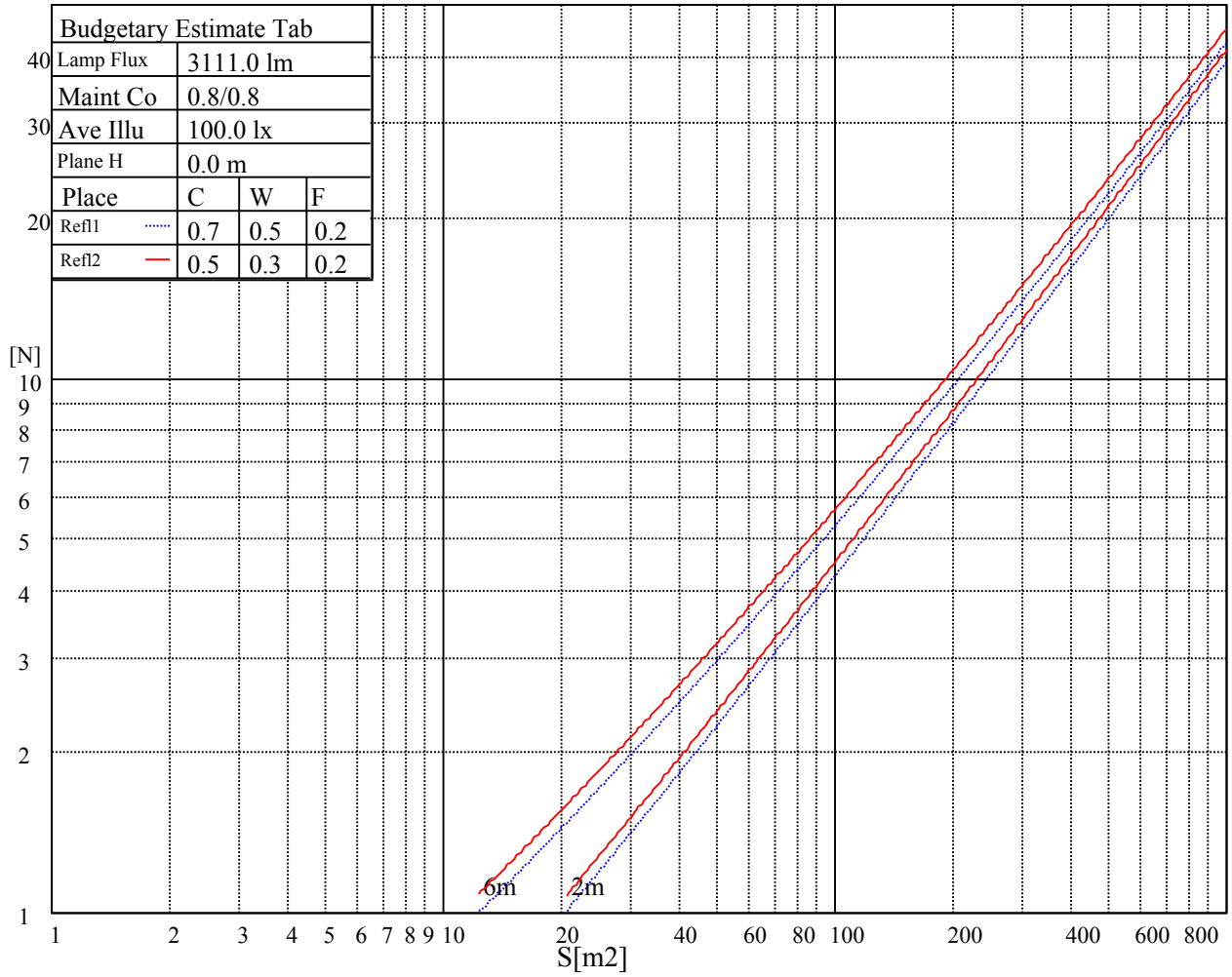
Luminance Limitting Curve



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

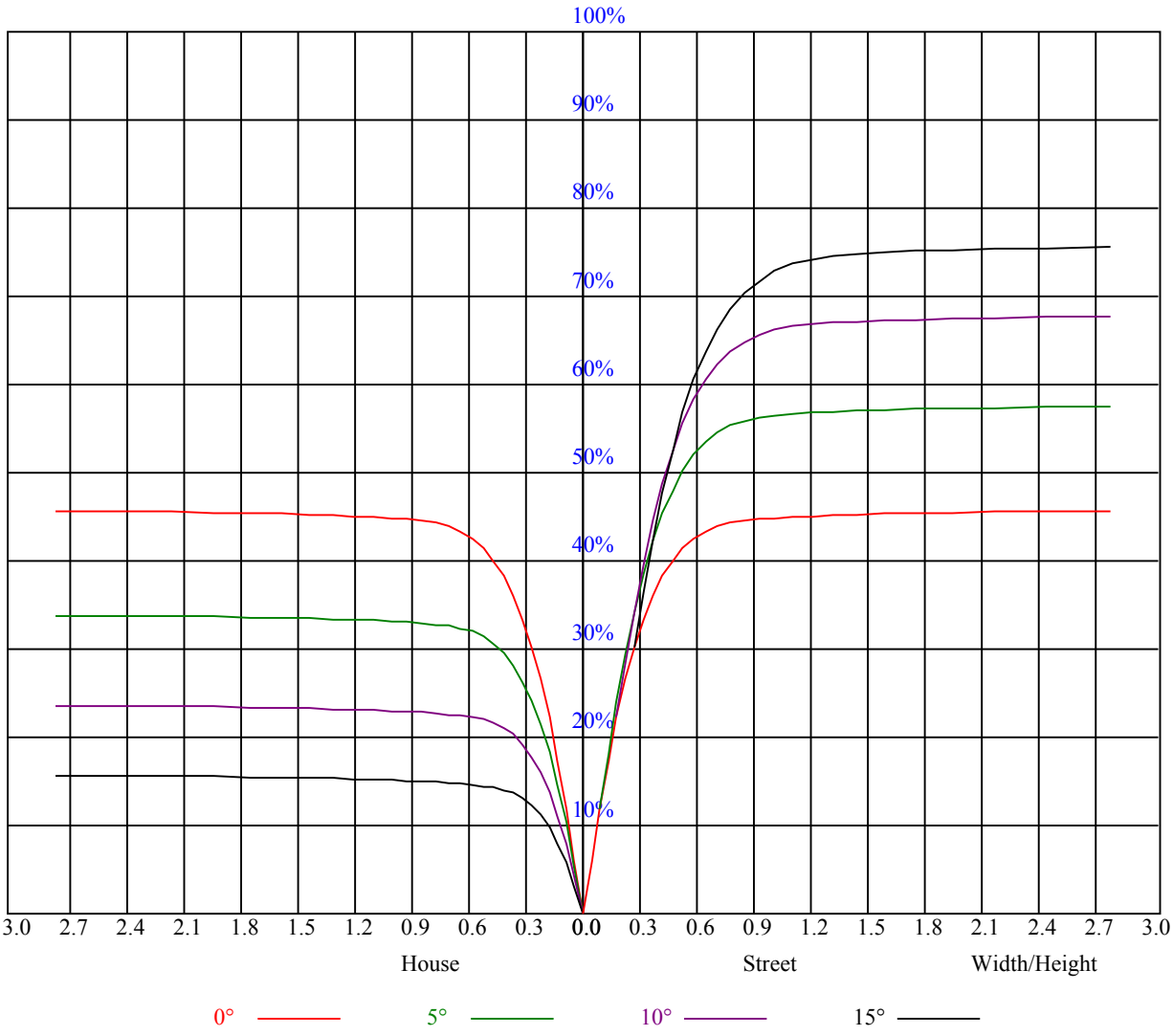


Equipment: GMS1980 Date: 2023/11/17 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.10	1.10	1.10	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	1.00	0.98	1.00	0.99	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.82
3	0.91	0.87	0.83	0.90	0.86	0.83	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.78
4	0.86	0.81	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.80	0.77	0.75	0.74
5	0.82	0.77	0.74	0.81	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.76	0.74	0.71	0.70
6	0.78	0.73	0.70	0.77	0.73	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.68	0.67
7	0.74	0.69	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.67	0.65	0.64
8	0.71	0.66	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61
9	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.59
10	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.56

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/11/17	Operator: NT07
Temperature(°C): 0.0	Humidity(%): 0.0%	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	7810.95	7634.37	7482.15	7244.68	6980.09	6695.02	6315.85	5979.30	5629.46
45.0	7826.45	7783.82	7670.90	7530.86	7301.69	7047.62	6753.69	6374.52	6041.85
90.0	7781.06	7663.71	7513.14	7306.12	7053.71	6752.03	6351.83	6012.51	5657.69
135.0	7839.73	7816.48	7715.74	7540.27	7350.40	7101.31	6804.06	6406.63	6068.97
180.0	7810.95	7827.00	7811.50	7745.63	7571.82	7407.42	7190.43	6926.40	6548.33
225.0	7826.45	7796.00	7745.08	7596.17	7409.63	7142.28	6872.15	6569.92	6148.12
270.0	7781.06	7833.09	7818.70	7769.98	7591.75	7406.87	7183.79	6919.20	6547.22
315.0	7839.73	7831.43	7745.63	7588.43	7352.07	7125.67	6851.67	6471.94	6131.52
360.0	7810.95	7634.37	7482.15	7244.68	6980.09	6695.02	6315.85	5979.30	5629.46

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5173.35	4849.53	4540.10	4226.25	3857.04	3575.84	3314.02	3076.00	2806.43
45.0	5588.50	5249.18	4940.31	4523.50	4209.09	3907.96	3632.30	3304.06	3068.25
90.0	5313.39	4901.56	4569.99	4253.37	3867.00	3591.90	3268.63	3032.27	2811.41
135.0	5708.62	5343.28	4948.61	4629.22	4299.87	3933.98	3651.68	3327.30	3085.41
180.0	6217.32	5873.57	5416.90	5068.18	4748.79	4351.90	4056.31	3765.15	3429.71
225.0	5808.25	5456.20	5000.64	4689.56	4389.54	4019.22	3746.33	3481.19	3238.74
270.0	6221.74	5868.59	5501.59	5054.89	4729.97	4413.34	4118.86	3760.17	3478.42
315.0	5768.95	5397.53	4961.34	4646.38	4336.95	3968.85	3692.09	3422.51	3124.16
360.0	5173.35	4849.53	4540.10	4226.25	3857.04	3575.84	3314.02	3076.00	2806.43

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2605.49	2421.17	2210.82	2060.26	1884.24	1752.49	1619.09	1498.42	1250.44
45.0	2849.05	2642.58	2455.49	2235.73	2077.42	1896.97	1765.23	1635.70	1483.48
90.0	2569.51	2385.74	2216.91	2064.69	1918.00	1752.49	1622.97	1504.51	1359.48
135.0	2870.08	2667.49	2433.34	2262.30	2102.88	1956.20	1787.37	1660.61	1527.21
180.0	3188.37	2958.65	2755.50	2506.96	2319.87	2157.13	2010.44	1841.06	1713.19
225.0	2945.37	2735.02	2535.19	2354.19	2145.51	1992.73	1821.69	1695.48	1568.17
270.0	3170.10	2947.58	2748.31	2488.70	2308.25	2149.93	2002.14	1830.54	1700.46
315.0	2898.31	2686.31	2443.86	2267.84	2112.85	1932.39	1797.88	1671.68	1548.24
360.0	2605.49	2421.17	2210.82	2060.26	1884.24	1752.49	1619.09	1498.42	1250.44

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1099.49	1099.49	982.36	838.99	730.56	625.27	532.17	427.94	353.16
45.0	1366.13	1244.35	1097.66	981.97	867.94	757.24	628.26	536.38	450.58
90.0	1089.03	1089.03	1002.12	862.02	754.30	624.00	531.62	446.37	350.22
135.0	1410.41	1262.06	1146.93	1032.34	892.30	781.59	650.96	558.52	473.83
180.0	1591.42	1434.77	1316.31	1169.07	1050.61	935.48	822.55	688.05	589.52
225.0	1415.39	1080.78	1080.78	1024.15	909.52	794.71	688.49	588.30	482.24
270.0	1579.24	1425.36	1305.24	1187.33	1068.88	951.53	804.84	695.79	574.02
315.0	1393.25	1088.64	1088.64	1027.03	882.72	767.09	661.86	541.14	456.56
360.0	1099.49	1099.49	982.36	838.99	730.56	625.27	532.17	427.94	353.16

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	289.61	223.96	181.17	140.82	116.69	98.75	85.30	72.85	65.32
45.0	373.64	289.50	289.50	221.08	141.59	116.80	98.92	82.37	72.62
90.0	285.90	230.60	185.66	143.09	118.12	99.47	85.58	72.73	64.99
135.0	378.62	309.98	279.54	279.54	152.55	125.15	105.06	89.56	75.50
180.0	500.95	421.79	332.12	285.07	285.07	172.32	132.63	109.88	92.50
225.0	406.30	336.99	279.70	217.43	176.97	144.86	115.19	97.53	81.48
270.0	487.67	390.24	319.94	290.05	290.05	157.92	128.81	107.44	91.22
315.0	381.39	297.97	242.95	197.11	151.72	124.43	104.29	89.12	75.67
360.0	289.61	223.96	181.17	140.82	116.69	98.75	85.30	72.85	65.32

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	59.34	54.58	49.93	47.00	44.56	42.57	40.68	39.58	38.47
45.0	65.15	57.90	53.36	49.65	46.66	43.78	41.96	40.57	39.52
90.0	58.90	53.03	49.49	46.55	43.67	41.96	40.52	39.25	38.42
135.0	67.09	60.56	54.30	50.37	47.16	44.17	42.35	40.96	39.63
180.0	77.27	68.31	60.00	54.97	50.93	47.05	44.62	42.68	41.18
225.0	72.02	64.65	57.46	53.14	49.60	46.72	44.01	42.23	40.91
270.0	77.00	68.64	62.00	56.74	51.59	48.32	45.72	43.07	41.52
315.0	67.75	61.50	56.41	51.48	48.32	45.17	43.12	41.52	39.91
360.0	59.34	54.58	49.93	47.00	44.56	42.57	40.68	39.58	38.47

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	37.75	37.09	36.31	35.59	34.93	33.65	32.38	31.05	29.61
45.0	38.47	37.81	37.42	36.81	36.26	35.48	34.43	33.16	31.77
90.0	37.86	37.42	36.87	36.26	35.65	34.71	33.16	31.83	30.33
135.0	38.91	38.30	37.86	37.20	36.64	36.09	35.15	33.54	32.11
180.0	39.74	39.02	38.36	37.86	37.25	36.64	36.09	35.09	33.77
225.0	39.91	39.02	38.14	37.59	36.59	35.87	34.87	33.21	31.83
270.0	40.30	39.08	38.25	37.64	36.98	36.26	35.54	34.37	33.10
315.0	38.97	38.14	37.36	36.70	36.04	35.37	34.26	32.88	31.66
360.0	37.75	37.09	36.31	35.59	34.93	33.65	32.38	31.05	29.61

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	27.79	26.29	24.80	23.58	22.09	21.09	20.37	19.54	18.99
45.0	29.89	28.40	26.74	25.19	23.64	22.47	21.48	20.48	19.82
90.0	28.40	26.79	24.91	23.58	22.31	21.31	20.31	19.71	19.10
135.0	30.50	28.67	27.01	25.08	23.80	22.47	21.42	20.43	19.76
180.0	32.38	30.50	28.84	27.34	25.35	23.97	22.81	21.70	20.70
225.0	30.33	28.34	26.85	25.24	23.91	22.47	21.42	20.65	19.98
270.0	31.72	30.22	28.67	26.74	25.19	23.64	22.47	21.37	20.43
315.0	30.28	28.34	26.85	25.35	23.69	22.53	21.48	20.43	19.82
360.0	27.79	26.29	24.80	23.58	22.09	21.09	20.37	19.54	18.99

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.32	17.82	17.38	16.88	16.33	15.94	15.50	15.11	14.61
45.0	19.21	18.54	17.99	17.49	16.94	16.50	16.05	15.50	15.11
90.0	18.43	17.93	17.44	16.99	16.55	15.94	15.50	15.06	14.61
135.0	19.21	18.65	17.99	17.49	17.05	16.50	16.05	15.61	15.06
180.0	19.98	19.32	18.82	18.10	17.66	17.16	16.61	16.11	15.61
225.0	19.21	18.65	17.99	17.49	16.99	16.50	16.00	15.61	15.11
270.0	19.76	19.21	18.43	17.93	17.49	16.99	16.44	16.00	15.61
315.0	19.21	18.54	17.99	17.49	17.05	16.50	16.05	15.61	15.22
360.0	18.32	17.82	17.38	16.88	16.33	15.94	15.50	15.11	14.61

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.28	13.89	13.56	13.23	12.95	12.68	12.45	12.12	12.01
45.0	14.67	14.23	13.84	13.51	13.12	12.84	12.57	12.29	11.96
90.0	14.23	13.84	13.45	13.17	12.84	12.57	12.29	12.01	11.90
135.0	14.67	14.23	13.78	13.51	13.12	12.84	12.51	12.23	11.96
180.0	15.17	14.78	14.28	13.95	13.56	13.28	12.95	12.62	12.40
225.0	14.67	14.28	13.95	13.56	13.23	12.95	12.62	12.40	12.12
270.0	15.17	14.67	14.28	13.84	13.45	13.12	12.84	12.57	12.23
315.0	14.67	14.28	13.89	13.56	13.28	12.95	12.62	12.34	12.01
360.0	14.28	13.89	13.56	13.23	12.95	12.68	12.45	12.12	12.01

Intensity data(cd)

C/γ(°)	90.0
0.0	12.01
45.0	11.96
90.0	11.90
135.0	11.90
180.0	12.12
225.0	11.96
270.0	11.96
315.0	11.96
360.0	12.01