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: 2-2641-L
Luminaire: 92.70.411.00
LampCAT: NICHIA NFDWJ130B-V3
Ballast type: AC

Report No: 20231023-B014	Voltage(V): 36.5700
Test No: 20231023-C014	Current(A): 0.5760
Number of Lamps: 1	Power (W): 21.0640
Lamp flux(lm): 2810.0	PF: 0.0000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2572.73, Efficiency(%): 91.56% , Luminous Efficacy(lm/W): 122.14
Central intensity(cd): 5629.876, Maximum intensity(cd): 5629.876
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=37.0
[C90/270]Total=37.0
Field angle(10%Imax): [C0/180]Total=65.4
[C90/270]Total=65.4
Maximum s/h(1/2): C0_180=0.60 C90_270=0.60
Maximum s/h(1/4): C0_180=0.61 C90_270=0.61
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.56%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.865%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5629.876	0.000	0	0.00%	0.00%
1.0	5617.975	5.382	5.382	0.19%	0.21%
2.0	5584.625	16.079	21.461	0.57%	0.83%
3.0	5527.472	26.576	48.037	0.95%	1.87%
4.0	5443.127	36.722	84.76	1.31%	3.29%
5.0	5346.743	46.417	131.177	1.65%	5.10%
6.0	5229.462	55.581	186.758	1.98%	7.26%
7.0	5095.437	64.086	250.844	2.28%	9.75%
8.0	4942.039	71.836	322.681	2.56%	12.54%
9.0	4766.568	78.683	401.363	2.80%	15.60%
10.0	4588.606	84.661	486.024	3.01%	18.89%
11.0	4393.692	89.752	575.776	3.19%	22.38%
12.0	4187.431	93.804	669.58	3.34%	26.03%
13.0	3992.032	97.070	766.65	3.45%	29.80%
14.0	3776.084	99.431	866.081	3.54%	33.66%
15.0	3583.523	101.036	967.117	3.60%	37.59%
16.0	3349.031	101.581	1068.698	3.61%	41.54%
17.0	3145.122	101.131	1169.829	3.60%	45.47%
18.0	2909.108	99.821	1269.651	3.55%	49.35%
19.0	2702.640	97.633	1367.283	3.47%	53.15%
20.0	2478.665	94.832	1462.116	3.37%	56.83%
21.0	2267.629	91.138	1553.254	3.24%	60.37%
22.0	2077.213	87.311	1640.566	3.11%	63.77%
23.0	1900.843	83.470	1724.036	2.97%	67.01%
24.0	1739.694	79.595	1803.631	2.83%	70.11%
25.0	1563.393	75.105	1878.736	2.67%	73.03%
26.0	1389.714	69.708	1948.445	2.48%	75.73%
27.0	1233.430	64.176	2012.62	2.28%	78.23%
28.0	1131.192	59.867	2072.488	2.13%	80.56%
29.0	1000.433	55.769	2128.257	1.98%	82.72%
30.0	864.056	50.341	2178.598	1.79%	84.68%
31.0	745.592	44.794	2223.392	1.59%	86.42%
32.0	636.096	39.584	2262.976	1.41%	87.96%
33.0	532.232	34.419	2297.395	1.22%	89.30%
34.0	443.846	29.539	2326.934	1.05%	90.45%
35.0	357.515	24.887	2351.821	0.89%	91.41%
36.0	290.302	20.627	2372.448	0.73%	92.22%
37.0	241.487	17.344	2389.792	0.62%	92.89%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	192.887	14.499	2404.291	0.52%	93.45%
39.0	142.473	11.447	2415.738	0.41%	93.90%
40.0	117.675	9.073	2424.811	0.32%	94.25%
41.0	105.165	7.935	2432.746	0.28%	94.56%
42.0	95.008	7.273	2440.018	0.26%	94.84%
43.0	86.801	6.735	2446.753	0.24%	95.10%
44.0	79.709	6.285	2453.038	0.22%	95.35%
45.0	73.544	5.890	2458.927	0.21%	95.58%
46.0	68.161	5.542	2464.469	0.20%	95.79%
47.0	62.985	5.216	2469.685	0.19%	95.99%
48.0	58.792	4.923	2474.608	0.18%	96.19%
49.0	54.676	4.660	2479.268	0.17%	96.37%
50.0	51.064	4.409	2483.676	0.16%	96.54%
51.0	47.604	4.174	2487.851	0.15%	96.70%
52.0	44.705	3.961	2491.812	0.14%	96.85%
53.0	41.917	3.768	2495.58	0.13%	97.00%
54.0	39.557	3.591	2499.171	0.13%	97.14%
55.0	37.357	3.433	2502.604	0.12%	97.27%
56.0	35.288	3.283	2505.887	0.12%	97.40%
57.0	33.600	3.150	2509.037	0.11%	97.52%
58.0	31.932	3.030	2512.067	0.11%	97.64%
59.0	30.521	2.920	2514.987	0.10%	97.76%
60.0	29.151	2.819	2517.806	0.10%	97.87%
61.0	27.981	2.726	2520.532	0.10%	97.97%
62.0	26.840	2.642	2523.174	0.09%	98.07%
63.0	25.774	2.559	2525.733	0.09%	98.17%
64.0	24.819	2.483	2528.215	0.09%	98.27%
65.0	23.899	2.411	2530.626	0.09%	98.36%
66.0	23.076	2.344	2532.97	0.08%	98.45%
67.0	22.294	2.281	2535.251	0.08%	98.54%
68.0	21.450	2.216	2537.467	0.08%	98.63%
69.0	20.744	2.152	2539.62	0.08%	98.71%
70.0	19.990	2.092	2541.712	0.07%	98.79%
71.0	19.353	2.033	2543.745	0.07%	98.87%
72.0	18.633	1.975	2545.72	0.07%	98.95%
73.0	18.018	1.917	2547.637	0.07%	99.02%
74.0	17.416	1.863	2549.5	0.07%	99.10%
75.0	16.786	1.807	2551.307	0.06%	99.17%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.226	1.752	2553.059	0.06%	99.24%
77.0	15.644	1.699	2554.758	0.06%	99.30%
78.0	15.146	1.648	2556.407	0.06%	99.37%
79.0	14.572	1.597	2558.003	0.06%	99.43%
80.0	14.074	1.544	2559.548	0.05%	99.49%
81.0	13.589	1.496	2561.044	0.05%	99.55%
82.0	13.077	1.446	2562.49	0.05%	99.60%
83.0	12.662	1.399	2563.889	0.05%	99.66%
84.0	12.261	1.358	2565.247	0.05%	99.71%
85.0	11.936	1.321	2566.567	0.05%	99.76%
86.0	11.624	1.288	2567.855	0.05%	99.81%
87.0	11.341	1.257	2569.112	0.04%	99.86%
88.0	11.064	1.227	2570.339	0.04%	99.91%
89.0	10.877	1.203	2571.542	0.04%	99.95%
90.0	10.739	1.185	2572.727	0.04%	100.00%

Zonal flux distribution table

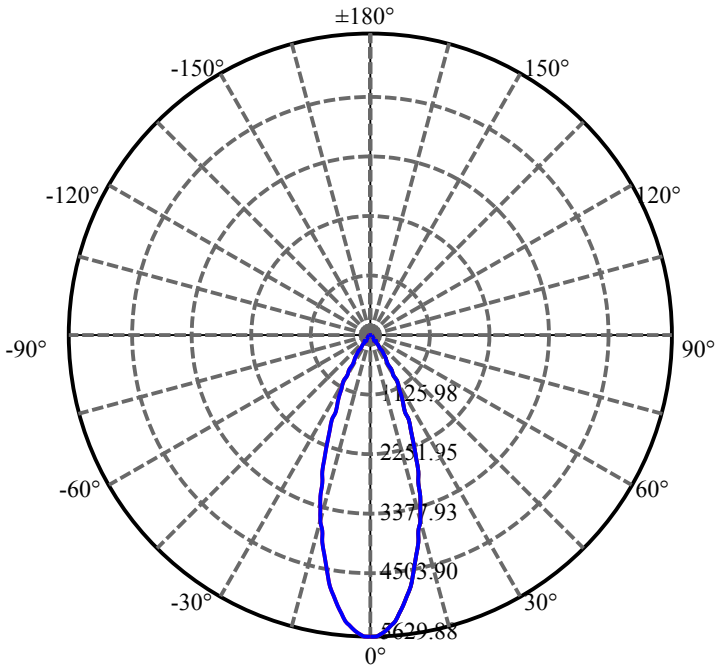
ZONAL LUMEN SUMMARY

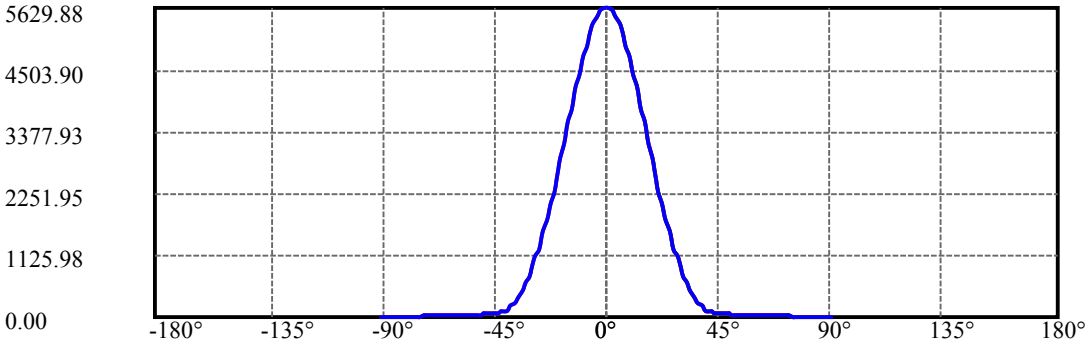
Zone	Lumens	%Lamp	%Fixt
0-30	2178.60	77.53%	84.68%
0-40	2424.81	86.29%	94.25%
0-60	2517.81	89.60%	97.87%
0-90	2571.54	91.51%	99.95%
0-120	2571.54	91.51%	99.95%
0-180	2572.73	91.56%	100.00%
60-90	53.74	1.91%	2.09%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.76	2058.18	73.24%	80.00%

ZONAL LUMEN SUMMARY

0-10	486.02
10-20	976.09
20-30	716.48
30-40	246.21
40-50	58.87
50-60	34.13
60-70	23.91
70-80	17.84
80-90	11.99
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):

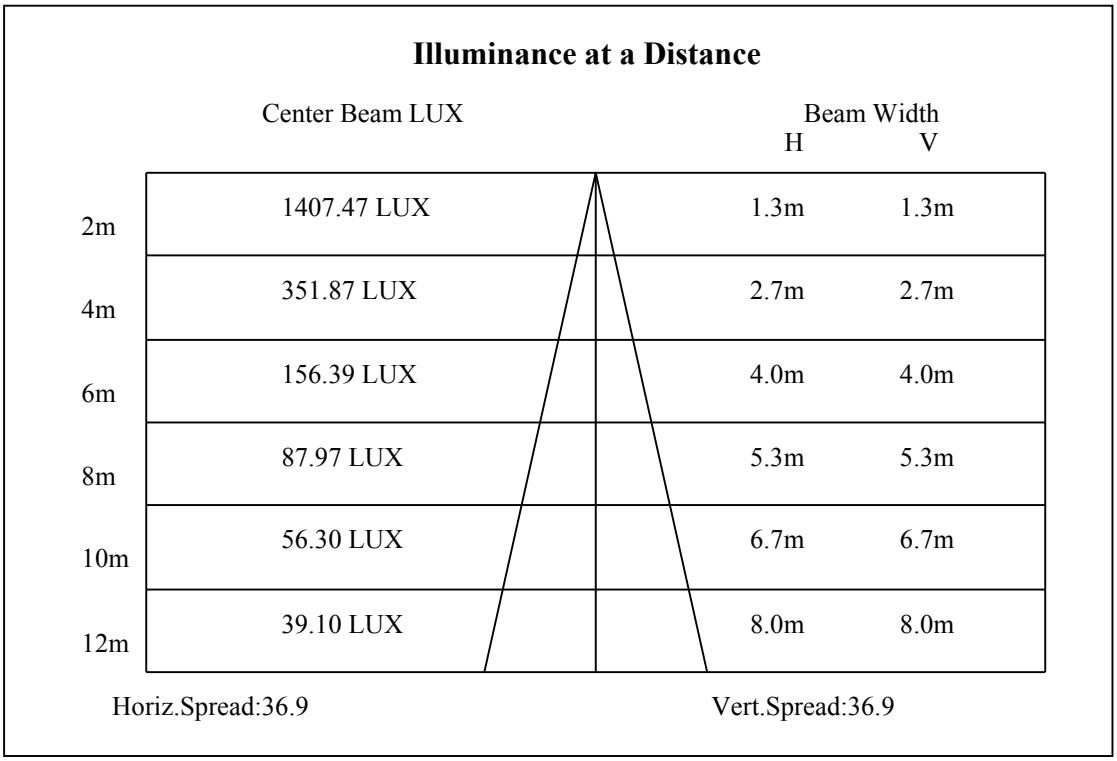
C0/C180:

C90/C270:

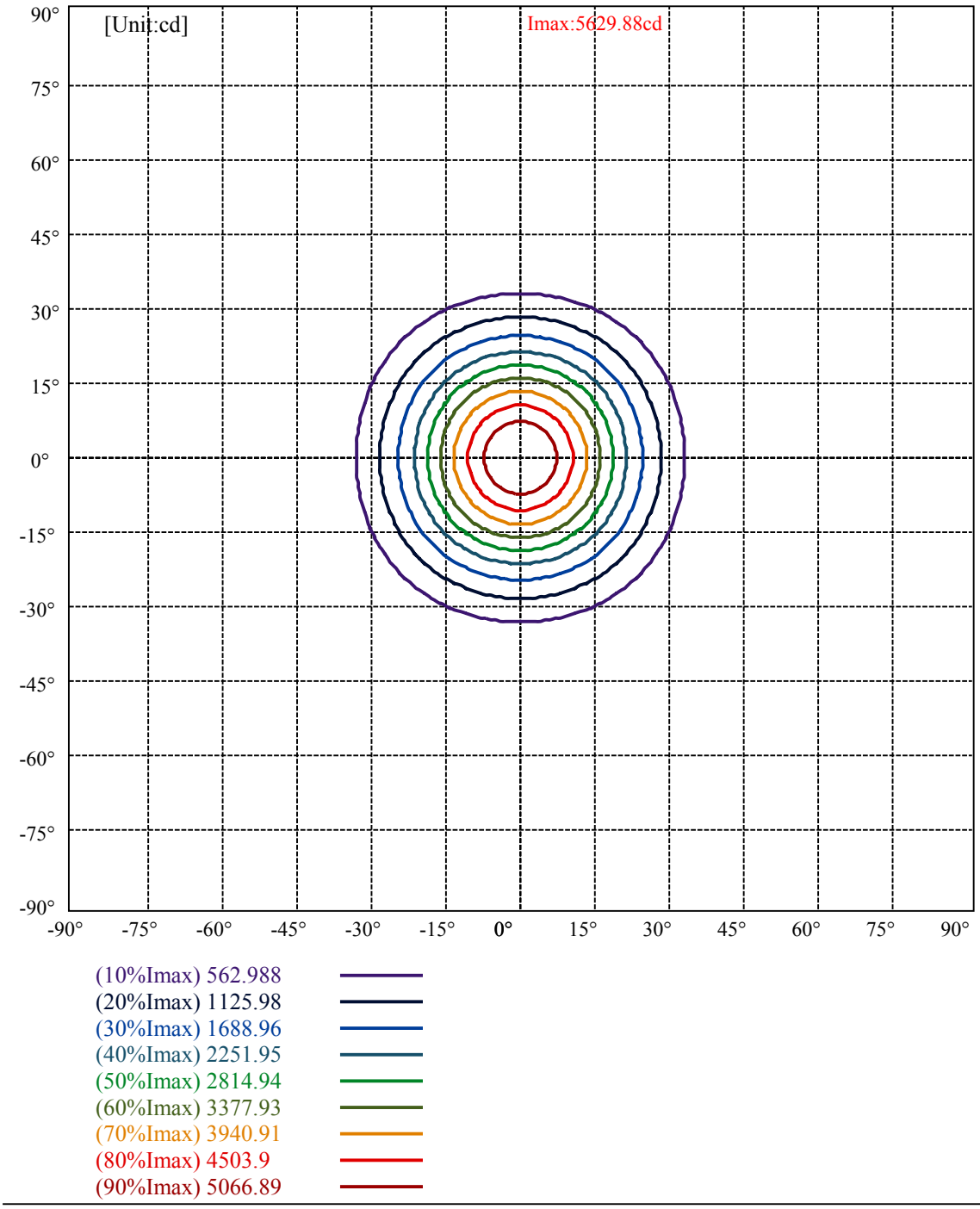
Field angle(10%Imax):C0/180Left:32.7 Right:32.7
:C90/270Left:32.7 Right:32.7

Beam Angle(50%Imax):C0/180Left:18.5 Right:18.5
:C90/270Left:18.5 Right:18.5

Lux distance Curve



ISO-Intensity(V-H)

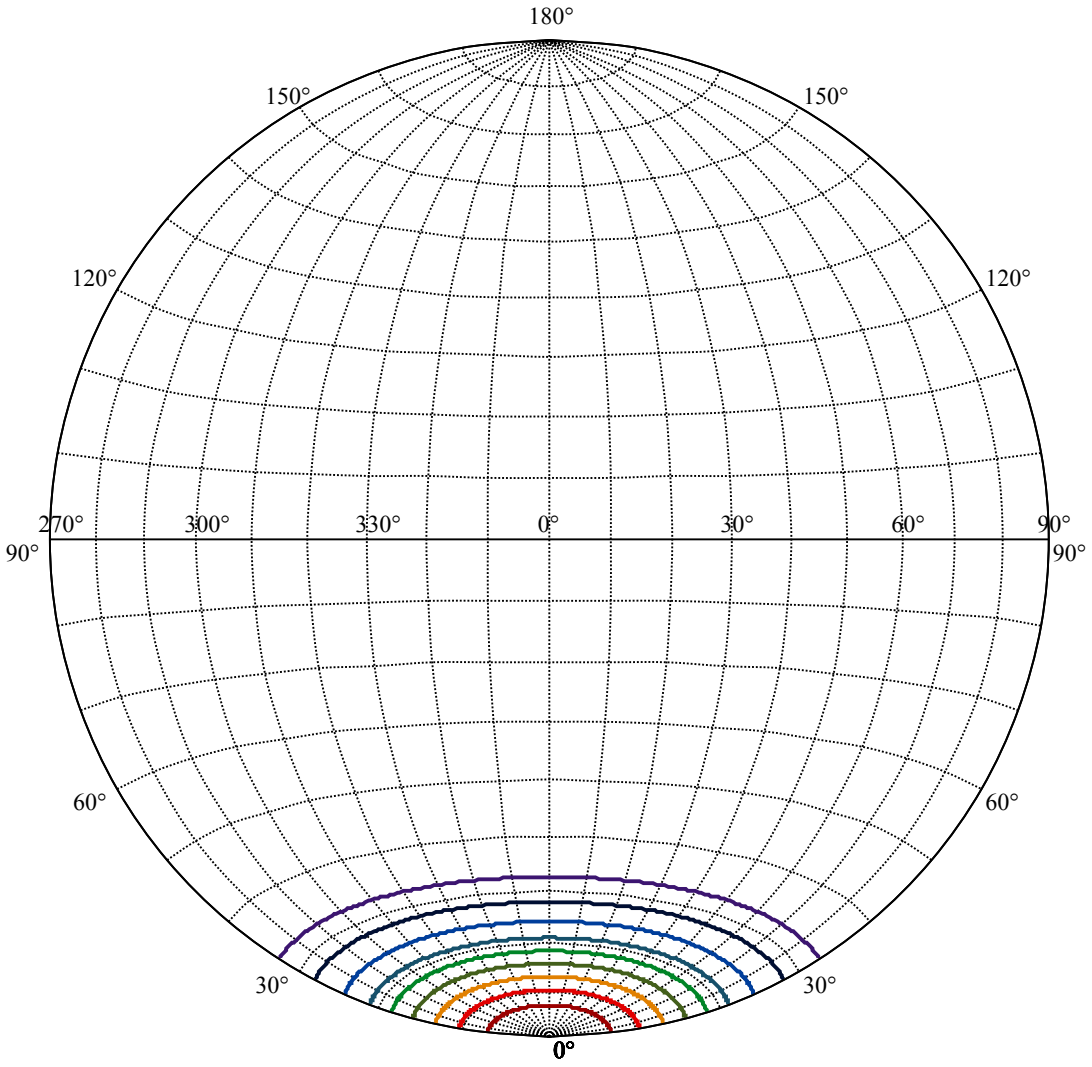


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/23
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



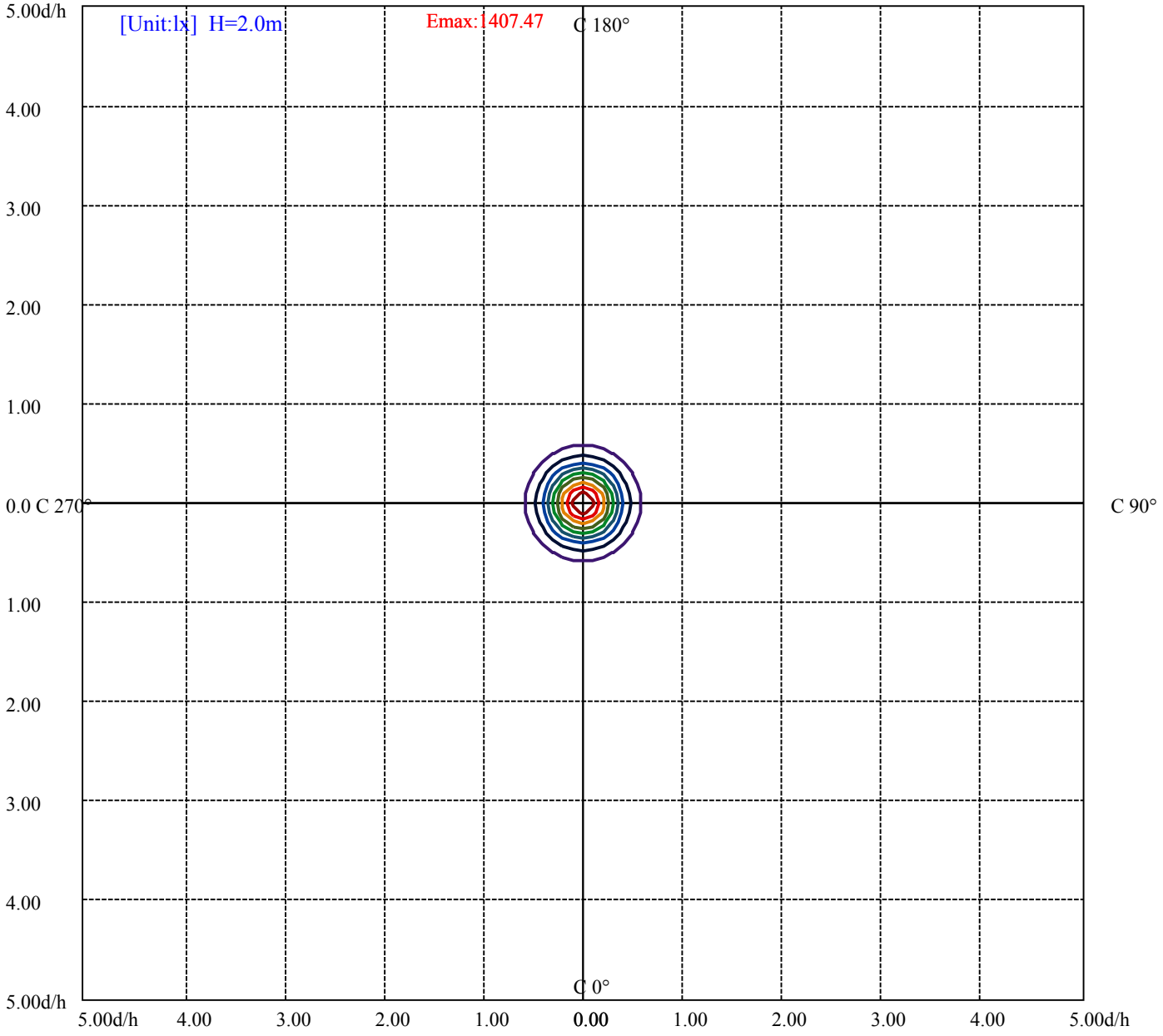
House [Unit:cd] Road

Imax:5629.88

(10%Imax) 562.988
(20%Imax) 1125.98
(30%Imax) 1688.96
(40%Imax) 2251.95
(50%Imax) 2814.94
(60%Imax) 3377.93
(70%Imax) 3940.91
(80%Imax) 4503.9
(90%Imax) 5066.89

Equipment: GMS1980 Date: 2023/10/23 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

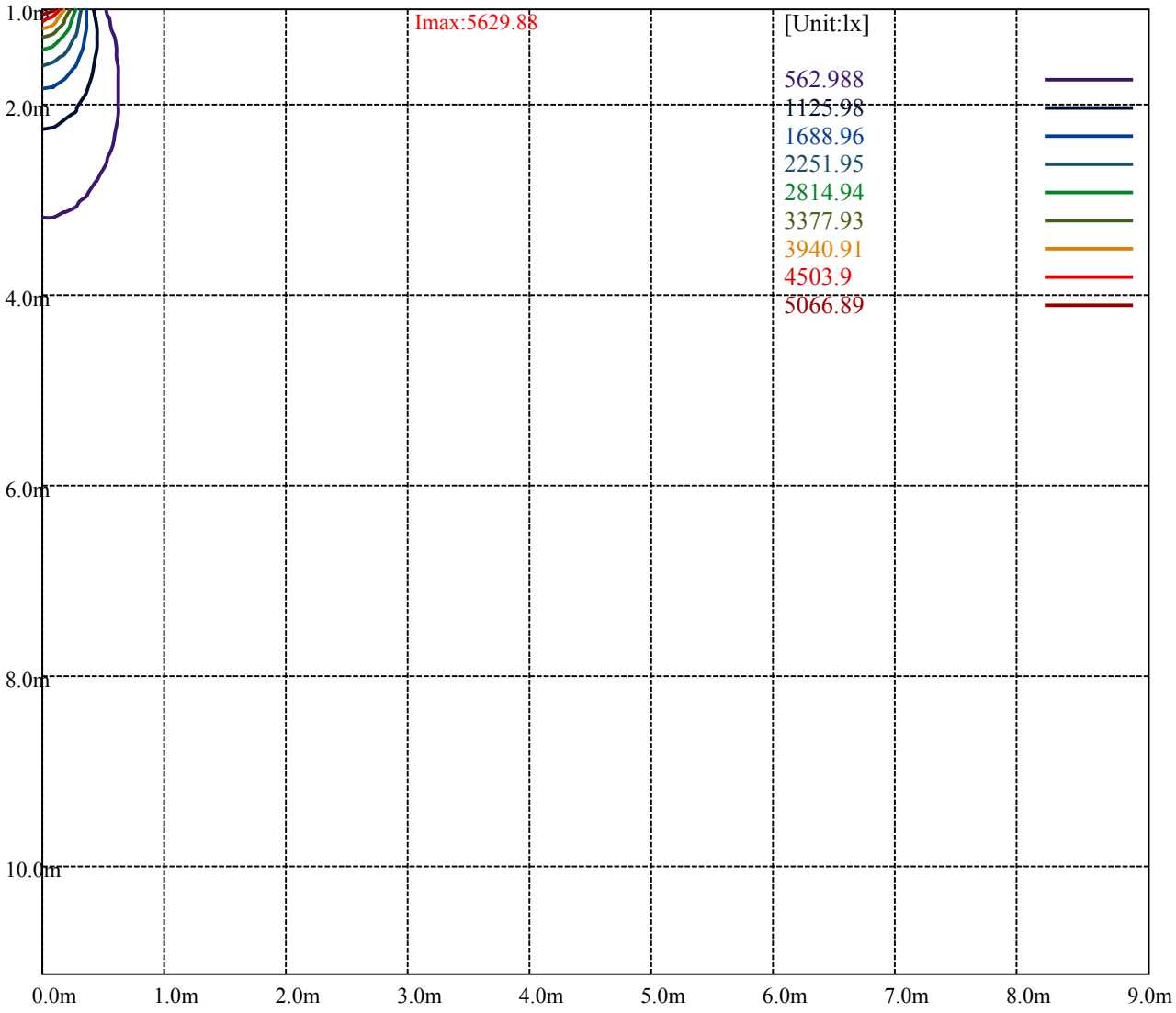
ISO illuminance diagram



(10%Emax) 140.7467
(20%Emax) 281.4925
(30%Emax) 422.24
(40%Emax) 562.9875
(50%Emax) 703.735
(60%Emax) 844.48
(70%Emax) 985.2275
(80%Emax) 1125.975
(90%Emax) 1266.723

Equipment: GMS1980
Temperature(°C): 0.0
Date: 2023/10/23
Humidity(%): 0.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/23
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

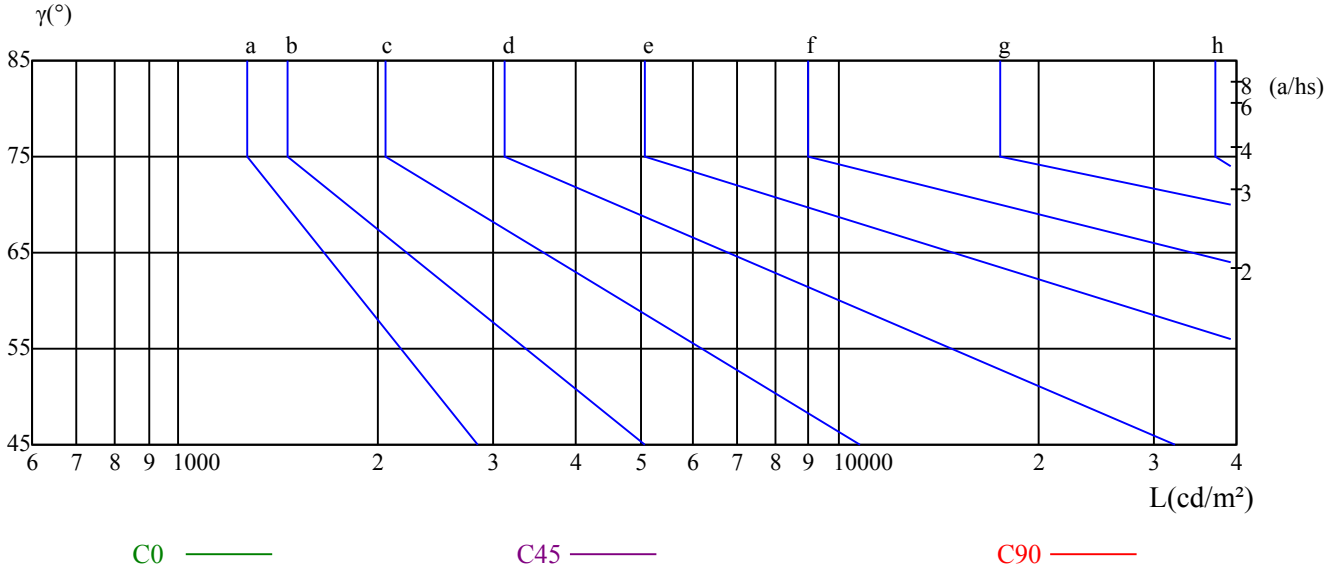
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

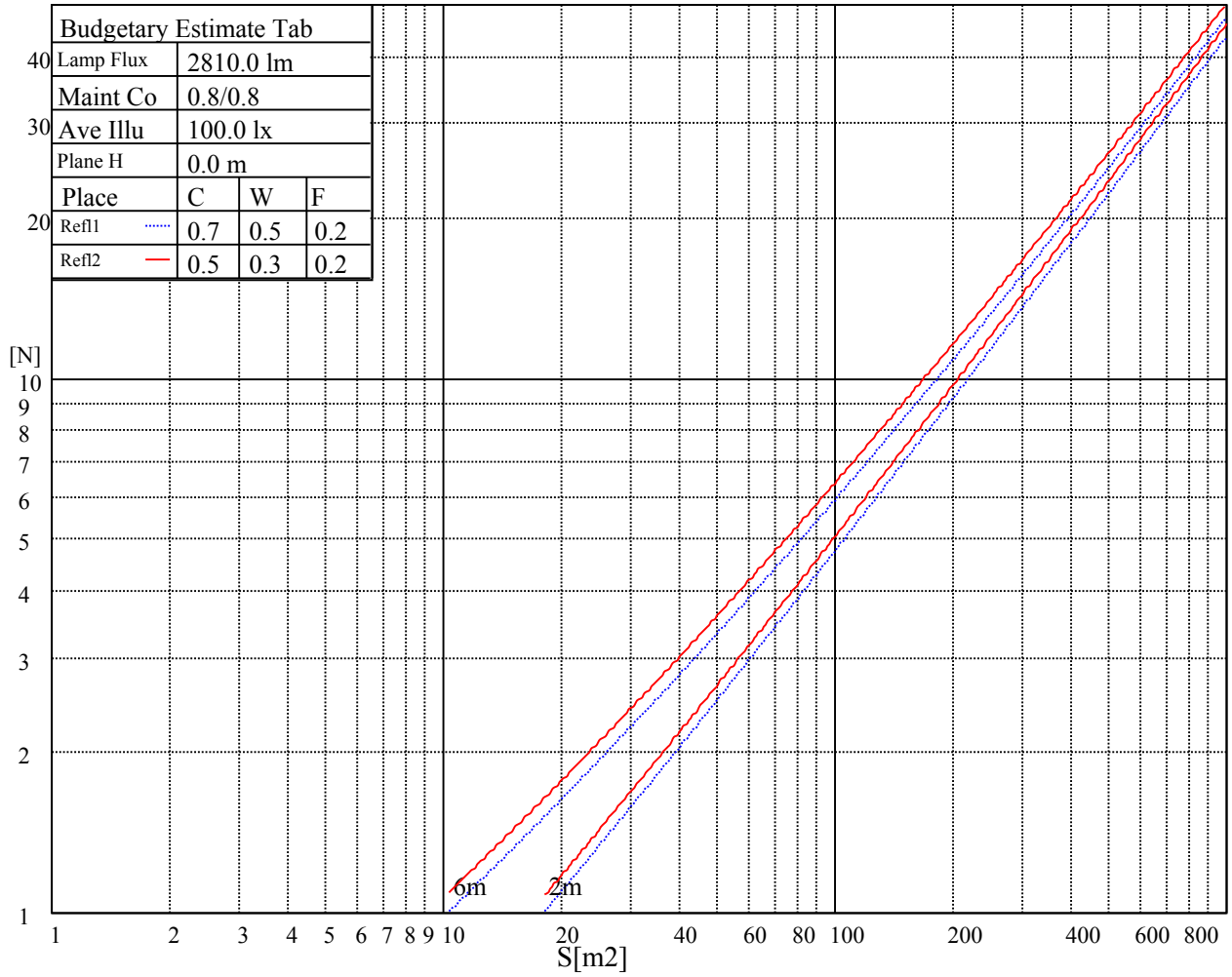
Luminance Limitting Curve



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

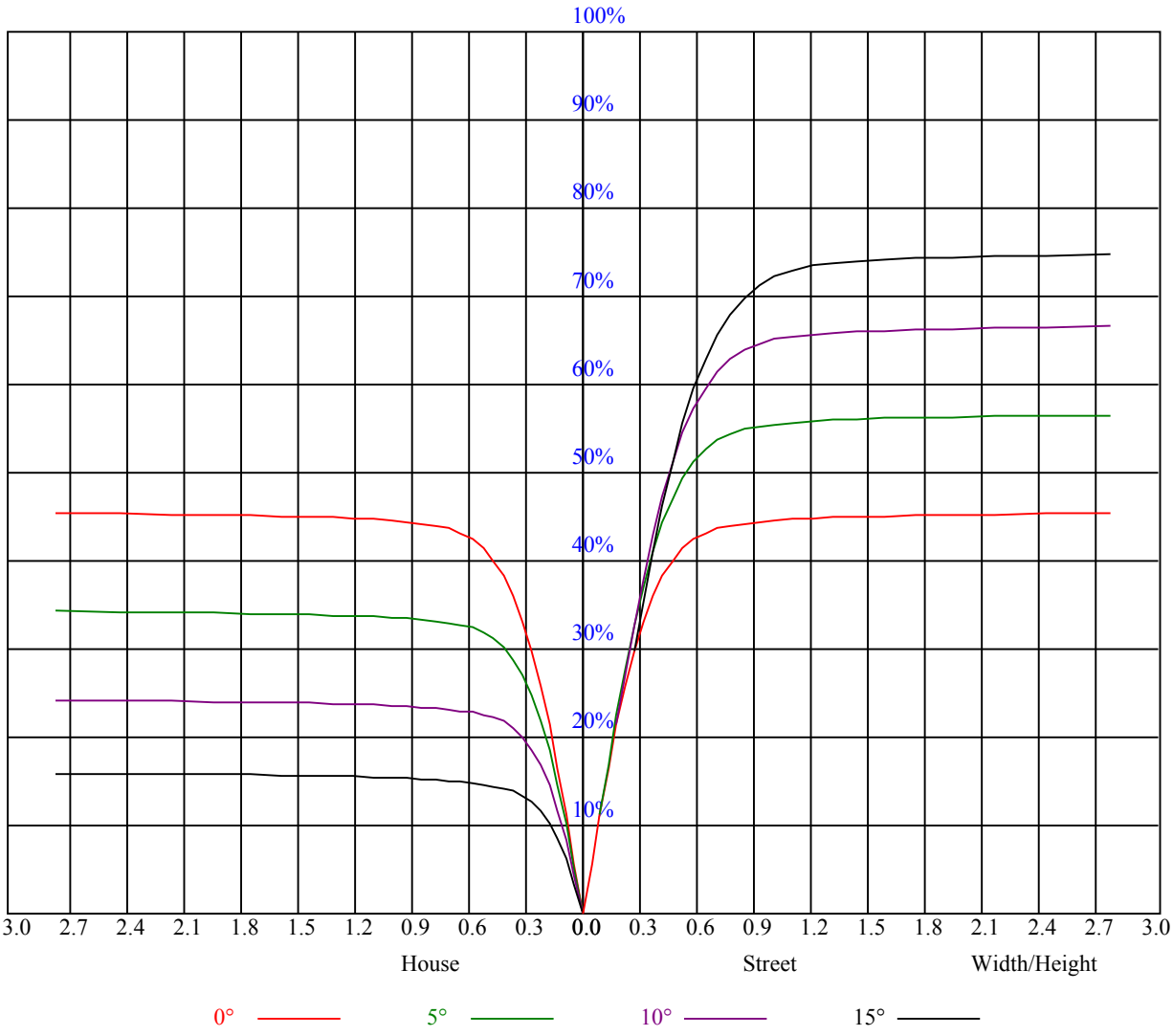


Equipment: GMS1980 Date: 2023/10/23 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.09	1.09	1.09	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.92
1	1.02	1.00	0.98	1.00	0.98	0.96	0.96	0.95	0.93	0.93	0.92	0.90	0.90	0.89	0.88	0.86
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.86	0.88	0.86	0.85	0.86	0.84	0.83	0.81
3	0.90	0.86	0.83	0.89	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.79	0.82	0.80	0.78	0.77
4	0.85	0.81	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.81	0.77	0.75	0.79	0.76	0.74	0.73
5	0.81	0.76	0.73	0.80	0.76	0.72	0.78	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.70	0.69
6	0.77	0.72	0.69	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.69	0.67	0.66
7	0.73	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.66	0.64	0.63
8	0.70	0.65	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.60
9	0.67	0.62	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.57
10	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.55

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/10/23	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	5611.19	5575.77	5500.49	5420.78	5297.34	5185.53	5049.91	4900.45	4690.11
45.0	5633.34	5617.84	5579.09	5522.08	5426.31	5325.57	5214.86	5060.43	4919.27
90.0	5622.82	5575.77	5514.33	5432.96	5340.52	5224.27	5074.82	4935.88	4769.82
135.0	5652.16	5637.21	5614.52	5547.54	5454.54	5367.64	5260.81	5109.69	4969.65
180.0	5611.19	5628.35	5622.27	5590.71	5540.34	5456.20	5369.85	5269.11	5150.10
225.0	5633.34	5625.03	5596.80	5539.23	5456.76	5369.30	5232.58	5101.39	4960.79
270.0	5622.82	5647.17	5644.96	5618.94	5548.09	5485.54	5374.28	5262.47	5137.37
315.0	5652.16	5636.66	5604.55	5547.54	5481.11	5359.89	5258.59	5124.08	4939.20
360.0	5611.19	5575.77	5500.49	5420.78	5297.34	5185.53	5049.91	4900.45	4690.11

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4512.43	4326.44	4133.25	3889.14	3695.96	3498.35	3293.54	3030.61	2821.37
45.0	4764.84	4593.24	4364.63	4176.98	3987.12	3747.44	3548.17	3294.09	3088.73
90.0	4563.90	4386.22	4160.93	3966.64	3780.65	3535.99	3340.59	3134.67	2931.53
135.0	4777.57	4605.42	4434.93	4194.70	3996.53	3809.99	3626.77	3369.93	3167.33
180.0	4982.38	4832.92	4662.99	4478.66	4243.96	4052.99	3868.66	3623.45	3419.19
225.0	4803.03	4581.06	4401.72	4215.73	4030.85	3791.72	3597.43	3399.82	3197.22
270.0	4957.47	4797.50	4624.24	4396.74	4214.07	4024.76	3842.65	3593.00	3397.05
315.0	4770.93	4586.05	4366.85	4180.86	3987.12	3747.44	3550.38	3346.68	3138.55
360.0	4512.43	4326.44	4133.25	3889.14	3695.96	3498.35	3293.54	3030.61	2821.37

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2563.98	2368.03	2174.29	1958.41	1802.31	1655.07	1518.90	1247.67	1073.03
45.0	2880.60	2676.90	2423.93	2230.20	2053.62	1889.22	1699.91	1559.86	1424.25
90.0	2677.45	2478.73	2281.12	2100.67	1889.22	1733.67	1594.74	1425.91	1072.42
135.0	2965.85	2763.81	2513.05	2319.87	2137.76	1971.14	1779.06	1600.83	1458.57
180.0	3182.28	2974.70	2761.59	2563.98	2322.08	2137.20	1967.27	1810.62	1636.25
225.0	2934.85	2725.06	2521.36	2270.60	2091.26	1888.11	1737.55	1600.27	1468.53
270.0	3192.80	2974.70	2705.13	2494.23	2291.09	2067.46	1902.50	1714.85	1575.36
315.0	2875.07	2659.19	2448.84	2203.07	2030.37	1864.86	1717.62	1547.13	1409.30
360.0	2563.98	2368.03	2174.29	1958.41	1802.31	1655.07	1518.90	1247.67	1073.03

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1073.03	946.88	801.46	696.74	599.37	487.89	406.13	331.57	249.53
45.0	1284.20	1109.84	980.87	831.41	724.58	624.39	509.81	426.22	347.62
90.0	1072.42	976.27	853.55	741.63	614.48	521.87	434.86	355.98	269.63
135.0	1314.09	1172.39	1032.90	875.69	761.67	654.83	535.82	451.13	372.53
180.0	1505.62	1370.56	1229.96	1057.81	928.28	780.49	668.67	566.27	458.33
225.0	1086.87	1086.87	1019.61	895.57	750.71	646.36	552.04	444.16	367.82
270.0	1436.43	1291.95	1119.25	990.28	867.94	756.68	626.60	535.27	450.02
315.0	1094.78	1094.78	965.86	823.33	717.71	616.25	523.92	440.17	344.63
360.0	1073.03	946.88	801.46	696.74	599.37	487.89	406.13	331.57	249.53

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	195.23	154.33	124.32	112.76	102.63	94.54	85.58	79.54	73.84
45.0	293.93	293.93	152.39	124.49	110.49	98.25	90.06	82.81	75.11
90.0	210.84	163.02	129.53	110.26	100.36	91.44	82.53	75.89	69.25
135.0	301.12	284.52	211.67	135.17	114.64	104.29	92.77	85.36	78.77
180.0	373.64	303.89	288.39	215.16	140.04	120.23	108.44	96.65	88.68
225.0	296.97	222.69	175.91	141.98	119.51	108.33	98.58	88.46	81.65
270.0	373.08	289.50	289.50	168.77	138.11	121.56	107.83	98.64	90.78
315.0	277.60	220.03	171.37	131.19	115.63	102.68	94.27	87.07	79.60
360.0	195.23	154.33	124.32	112.76	102.63	94.54	85.58	79.54	73.84

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	67.64	62.99	58.95	55.13	50.98	47.88	44.50	42.07	39.91
45.0	69.75	65.04	59.56	55.63	51.20	48.05	45.17	42.46	39.58
90.0	64.43	60.00	55.19	51.64	48.38	45.56	42.90	40.08	37.92
135.0	73.07	66.70	62.05	57.90	54.19	49.76	46.77	43.95	41.46
180.0	81.09	74.23	68.75	64.04	58.67	54.97	50.70	47.55	44.62
225.0	75.61	70.35	64.21	59.78	55.91	52.42	48.38	45.33	42.07
270.0	82.59	76.61	71.35	66.42	61.94	56.96	53.42	50.04	46.22
315.0	74.17	69.36	63.82	59.78	56.13	52.92	48.99	46.16	43.56
360.0	67.64	62.99	58.95	55.13	50.98	47.88	44.50	42.07	39.91

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	37.42	35.65	33.99	32.49	30.78	29.50	28.34	27.29	26.07
45.0	37.70	35.70	34.04	32.27	30.94	29.72	28.23	27.12	26.18
90.0	36.09	34.32	32.38	31.00	29.45	28.34	27.29	26.07	25.19
135.0	38.86	36.81	34.60	33.05	31.66	30.11	28.84	27.73	26.46
180.0	42.07	39.36	37.31	35.32	33.71	31.88	30.44	29.28	28.06
225.0	39.69	37.53	35.15	33.54	31.99	30.61	29.06	27.90	26.85
270.0	43.45	40.96	38.19	36.20	33.99	32.44	31.05	29.72	28.29
315.0	41.18	38.53	36.64	34.93	32.94	31.55	29.95	28.73	27.62
360.0	37.42	35.65	33.99	32.49	30.78	29.50	28.34	27.29	26.07

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.13	24.24	23.19	22.42	21.64	20.76	20.04	19.37	18.60
45.0	25.08	24.19	23.41	22.47	21.75	21.03	20.37	19.60	18.99
90.0	24.30	23.30	22.53	21.81	21.09	20.26	19.60	18.99	18.43
135.0	25.57	24.63	23.80	23.03	22.09	21.48	20.76	19.87	19.26
180.0	26.79	25.79	24.69	23.91	23.14	22.20	21.42	20.76	20.15
225.0	25.85	24.74	23.86	23.08	22.36	21.42	20.76	19.93	19.32
270.0	27.12	26.18	25.19	24.13	23.36	22.53	21.81	20.92	20.26
315.0	26.35	25.46	24.52	23.75	22.92	21.92	21.20	20.48	19.82
360.0	25.13	24.24	23.19	22.42	21.64	20.76	20.04	19.37	18.60

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	17.99	17.38	16.88	16.16	15.67	15.17	14.67	14.06	13.56
45.0	18.32	17.77	17.10	16.61	16.05	15.44	15.00	14.34	13.89
90.0	17.71	17.16	16.66	16.05	15.55	14.95	14.50	14.00	13.45
135.0	18.54	17.93	17.38	16.77	16.22	15.72	15.28	14.67	14.23
180.0	19.32	18.71	18.16	17.55	16.88	16.33	15.78	15.17	14.67
225.0	18.71	17.99	17.44	16.83	16.27	15.67	15.17	14.67	14.17
270.0	19.48	18.88	18.16	17.44	16.83	16.27	15.72	15.06	14.61
315.0	18.99	18.32	17.55	16.88	16.33	15.61	15.06	14.61	14.00
360.0	17.99	17.38	16.88	16.16	15.67	15.17	14.67	14.06	13.56

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.06	12.62	12.23	11.96	11.62	11.35	11.13	10.79	10.96
45.0	13.45	12.90	12.45	12.12	11.79	11.51	11.24	10.96	10.63
90.0	13.06	12.57	12.29	11.90	11.62	11.35	11.02	10.79	10.57
135.0	13.73	13.23	12.79	12.34	12.07	11.73	11.46	11.13	10.85
180.0	14.23	13.73	13.23	12.73	12.34	11.96	11.68	11.40	11.13
225.0	13.62	13.06	12.68	12.29	11.96	11.68	11.35	11.07	10.79
270.0	14.12	13.51	13.01	12.57	12.12	11.85	11.57	11.18	11.18
315.0	13.45	13.01	12.62	12.18	11.96	11.57	11.29	11.18	10.90
360.0	13.06	12.62	12.23	11.96	11.62	11.35	11.13	10.79	10.96

Intensity data(cd)

C/γ(°)	90.0
0.0	10.96
45.0	10.57
90.0	10.52
135.0	10.57
180.0	10.85
225.0	10.57
270.0	10.85
315.0	11.02
360.0	10.96