NATA LIGHTING CO.,LTD.
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Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client: NT
LumCAT: 61-0259
Luminaire: 92.70.427.00
Report No: 20250520-B003
Ballast type: AC

Test No: 20250520-C003	Voltage(V): 33.660
LampCAT: LUMINUS CXM-9	Current(A): 0.364
Lamp flux(lm): 1545.0	Power (W): 12.250
Number of Lamps: 1	PF: 0.000
Length(mm): 45	Width(mm): 45
Phm Type: C	Height(mm): 21

Photometric Results

Lumens(lm): 1319.01, Efficiency(%): 85.37% , Luminous Efficacy(lm/W): 107.67
Central intensity(cd): 3640.800, Maximum intensity(cd): 3640.800
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=35.6
[C90/270]Total=35.6
Field angle(10%Imax): [C0/180]Total=54.4
[C90/270]Total=54.4
Maximum s/h(1/2): C0_180=0.59 C90_270=0.59
Maximum s/h(1/4): C0_180=0.56 C90_270=0.56
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.37%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.930%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3640.799	0.000	0	0.00%	0.00%
1.0	3637.469	3.483	3.483	0.23%	0.26%
2.0	3626.078	10.425	13.908	0.67%	1.05%
3.0	3600.765	17.284	31.192	1.12%	2.36%
4.0	3575.120	24.020	55.212	1.55%	4.19%
5.0	3524.494	30.542	85.754	1.98%	6.50%
6.0	3471.804	36.767	122.522	2.38%	9.29%
7.0	3400.728	42.658	165.179	2.76%	12.52%
8.0	3316.064	48.071	213.25	3.11%	16.17%
9.0	3215.812	52.937	266.187	3.43%	20.18%
10.0	3100.505	57.160	323.348	3.70%	24.51%
11.0	2969.279	60.650	383.997	3.93%	29.11%
12.0	2829.259	63.386	447.384	4.10%	33.92%
13.0	2684.510	65.435	512.818	4.24%	38.88%
14.0	2514.116	66.542	579.36	4.31%	43.92%
15.0	2340.190	66.642	646.002	4.31%	48.98%
16.0	2166.132	66.030	712.033	4.27%	53.98%
17.0	1968.493	64.387	776.42	4.17%	58.86%
18.0	1794.168	62.038	838.458	4.02%	63.57%
19.0	1562.636	58.402	896.859	3.78%	68.00%
20.0	1342.682	53.175	950.035	3.44%	72.03%
21.0	1199.251	48.810	998.845	3.16%	75.73%
22.0	1047.508	45.150	1043.995	2.92%	79.15%
23.0	898.170	40.826	1084.82	2.64%	82.25%
24.0	749.804	36.031	1120.851	2.33%	84.98%
25.0	609.045	30.897	1151.748	2.00%	87.32%
26.0	484.499	25.813	1177.561	1.67%	89.28%
27.0	376.827	21.073	1198.634	1.36%	90.87%
28.0	295.793	17.029	1215.663	1.10%	92.17%
29.0	212.800	13.306	1228.969	0.86%	93.17%
30.0	182.278	10.667	1239.636	0.69%	93.98%
31.0	146.021	9.136	1248.772	0.59%	94.68%
32.0	85.590	6.635	1255.408	0.43%	95.18%
33.0	69.723	4.576	1259.983	0.30%	95.53%
34.0	55.422	3.787	1263.771	0.25%	95.81%
35.0	46.103	3.153	1266.924	0.20%	96.05%
36.0	40.747	2.765	1269.689	0.18%	96.26%
37.0	35.032	2.471	1272.16	0.16%	96.45%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	30.802	2.197	1274.358	0.14%	96.61%
39.0	27.278	1.982	1276.34	0.13%	96.77%
40.0	24.547	1.807	1278.148	0.12%	96.90%
41.0	22.242	1.666	1279.814	0.11%	97.03%
42.0	20.630	1.558	1281.371	0.10%	97.15%
43.0	19.144	1.473	1282.845	0.10%	97.26%
44.0	18.052	1.404	1284.249	0.09%	97.36%
45.0	17.173	1.354	1285.602	0.09%	97.47%
46.0	16.493	1.317	1286.919	0.09%	97.57%
47.0	16.007	1.293	1288.212	0.08%	97.67%
48.0	15.714	1.282	1289.494	0.08%	97.76%
49.0	15.541	1.283	1290.778	0.08%	97.86%
50.0	15.461	1.293	1292.07	0.08%	97.96%
51.0	15.427	1.307	1293.377	0.08%	98.06%
52.0	15.361	1.321	1294.698	0.09%	98.16%
53.0	15.194	1.329	1296.027	0.09%	98.26%
54.0	14.968	1.329	1297.357	0.09%	98.36%
55.0	14.661	1.323	1298.679	0.09%	98.46%
56.0	14.215	1.305	1299.984	0.08%	98.56%
57.0	13.802	1.281	1301.265	0.08%	98.65%
58.0	13.183	1.248	1302.513	0.08%	98.75%
59.0	12.656	1.208	1303.721	0.08%	98.84%
60.0	12.017	1.166	1304.887	0.08%	98.93%
61.0	11.444	1.120	1306.006	0.07%	99.01%
62.0	10.751	1.070	1307.076	0.07%	99.10%
63.0	10.145	1.016	1308.092	0.07%	99.17%
64.0	9.559	0.967	1309.059	0.06%	99.25%
65.0	8.826	0.910	1309.969	0.06%	99.31%
66.0	8.267	0.853	1310.822	0.06%	99.38%
67.0	7.647	0.800	1311.622	0.05%	99.44%
68.0	7.021	0.743	1312.365	0.05%	99.50%
69.0	6.421	0.686	1313.051	0.04%	99.55%
70.0	5.822	0.629	1313.679	0.04%	99.60%
71.0	5.249	0.572	1314.252	0.04%	99.64%
72.0	4.690	0.517	1314.768	0.03%	99.68%
73.0	4.130	0.461	1315.229	0.03%	99.71%
74.0	3.570	0.405	1315.634	0.03%	99.74%
75.0	3.018	0.348	1315.982	0.02%	99.77%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.591	0.298	1316.28	0.02%	99.79%
77.0	2.271	0.259	1316.539	0.02%	99.81%
78.0	2.038	0.231	1316.77	0.01%	99.83%
79.0	1.925	0.213	1316.983	0.01%	99.85%
80.0	1.885	0.205	1317.188	0.01%	99.86%
81.0	1.852	0.202	1317.391	0.01%	99.88%
82.0	1.805	0.198	1317.589	0.01%	99.89%
83.0	1.739	0.193	1317.782	0.01%	99.91%
84.0	1.712	0.188	1317.97	0.01%	99.92%
85.0	1.672	0.185	1318.154	0.01%	99.94%
86.0	1.605	0.179	1318.333	0.01%	99.95%
87.0	1.579	0.174	1318.508	0.01%	99.96%
88.0	1.519	0.170	1318.677	0.01%	99.98%
89.0	1.505	0.166	1318.843	0.01%	99.99%
90.0	1.472	0.163	1319.006	0.01%	100.00%

Zonal flux distribution table

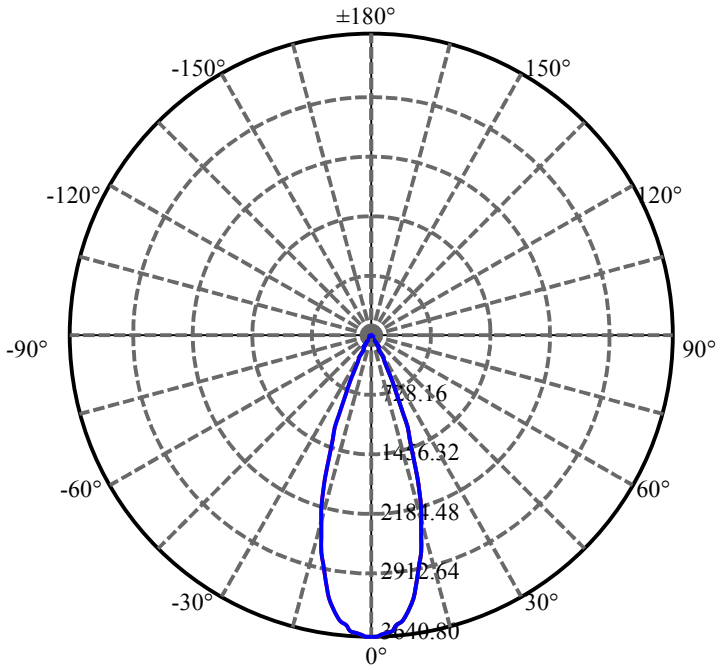
ZONAL LUMEN SUMMARY

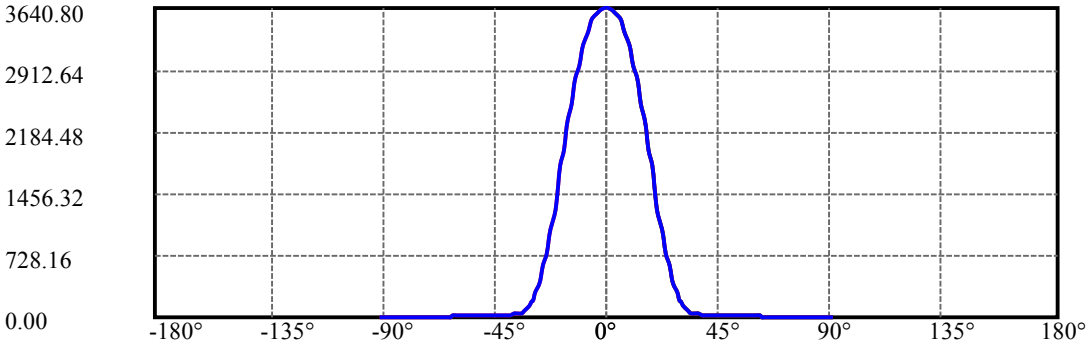
Zone	Lumens	%Lamp	%Fixt
0-30	1239.64	80.24%	93.98%
0-40	1278.15	82.73%	96.90%
0-60	1304.89	84.46%	98.93%
0-90	1318.84	85.36%	99.99%
0-120	1318.84	85.36%	99.99%
0-180	1319.01	85.37%	100.00%
60-90	13.96	0.90%	1.06%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-22.27	1055.21	68.30%	80.00%

ZONAL LUMEN SUMMARY

0-10	323.35
10-20	626.69
20-30	289.60
30-40	38.51
40-50	13.92
50-60	12.82
60-70	8.79
70-80	3.51
80-90	1.65
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):

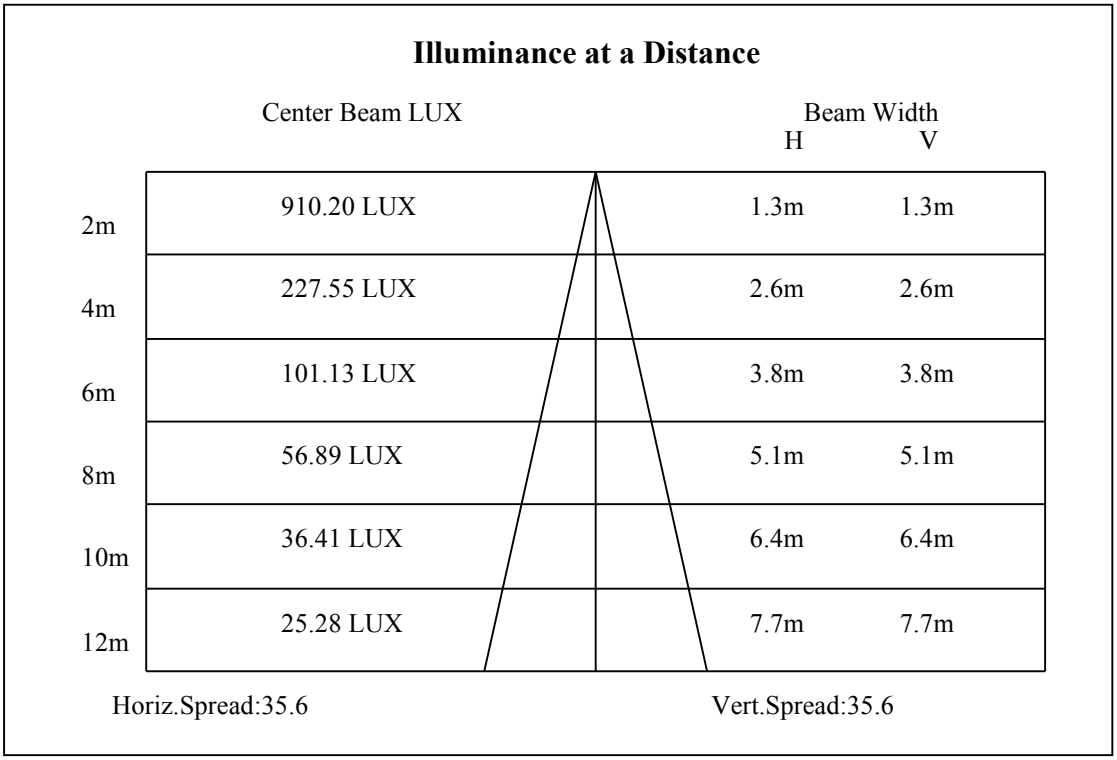
C0/C180:

C90/C270:

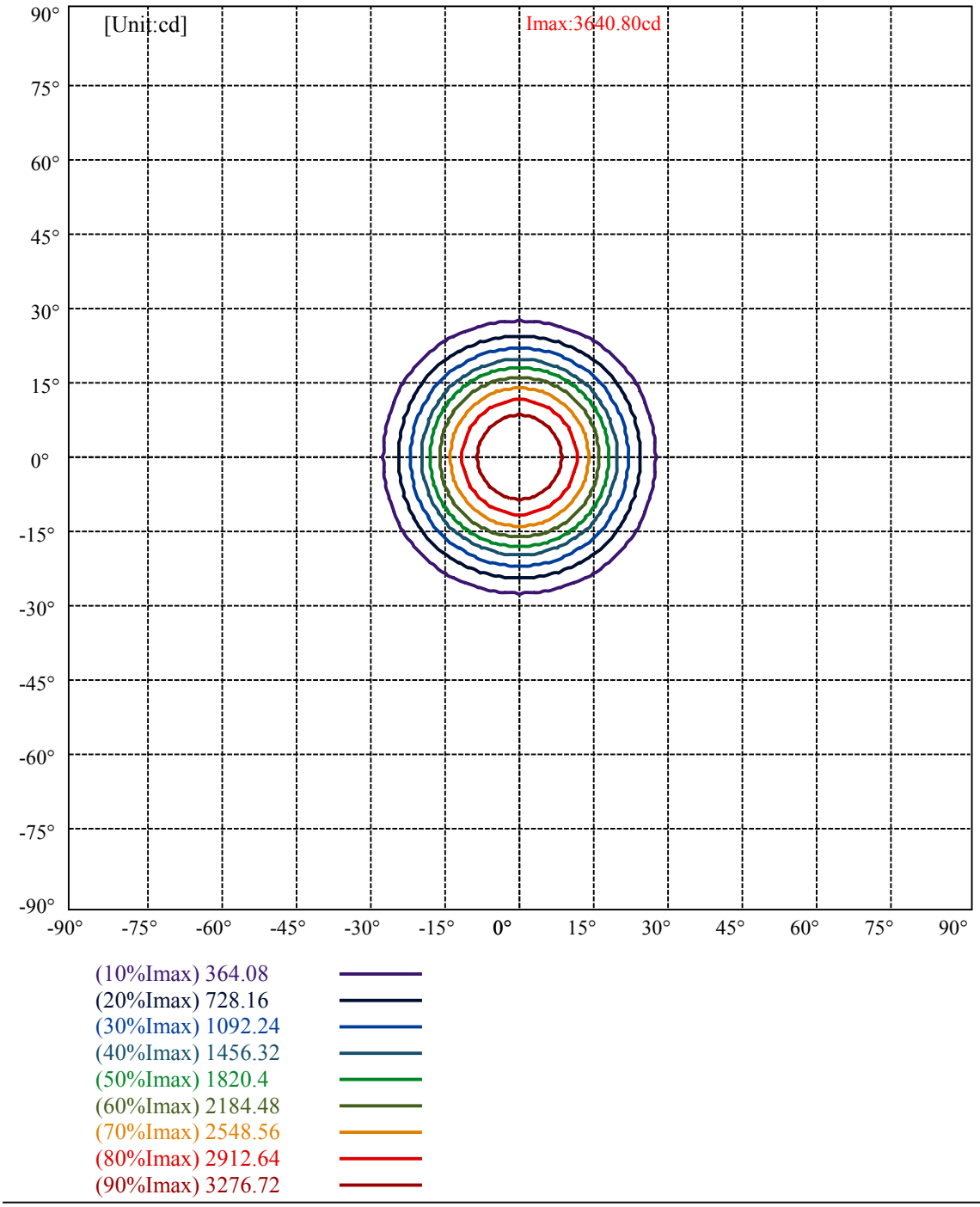
Field angle(10%Imax):C0/180Left:27.2 Right:27.2
:C90/270Left:27.2 Right:27.2

Beam Angle(50%Imax):C0/180Left:17.8 Right:17.8
:C90/270Left:17.8 Right:17.8

Lux distance Curve



ISO-Intensity(V-H)

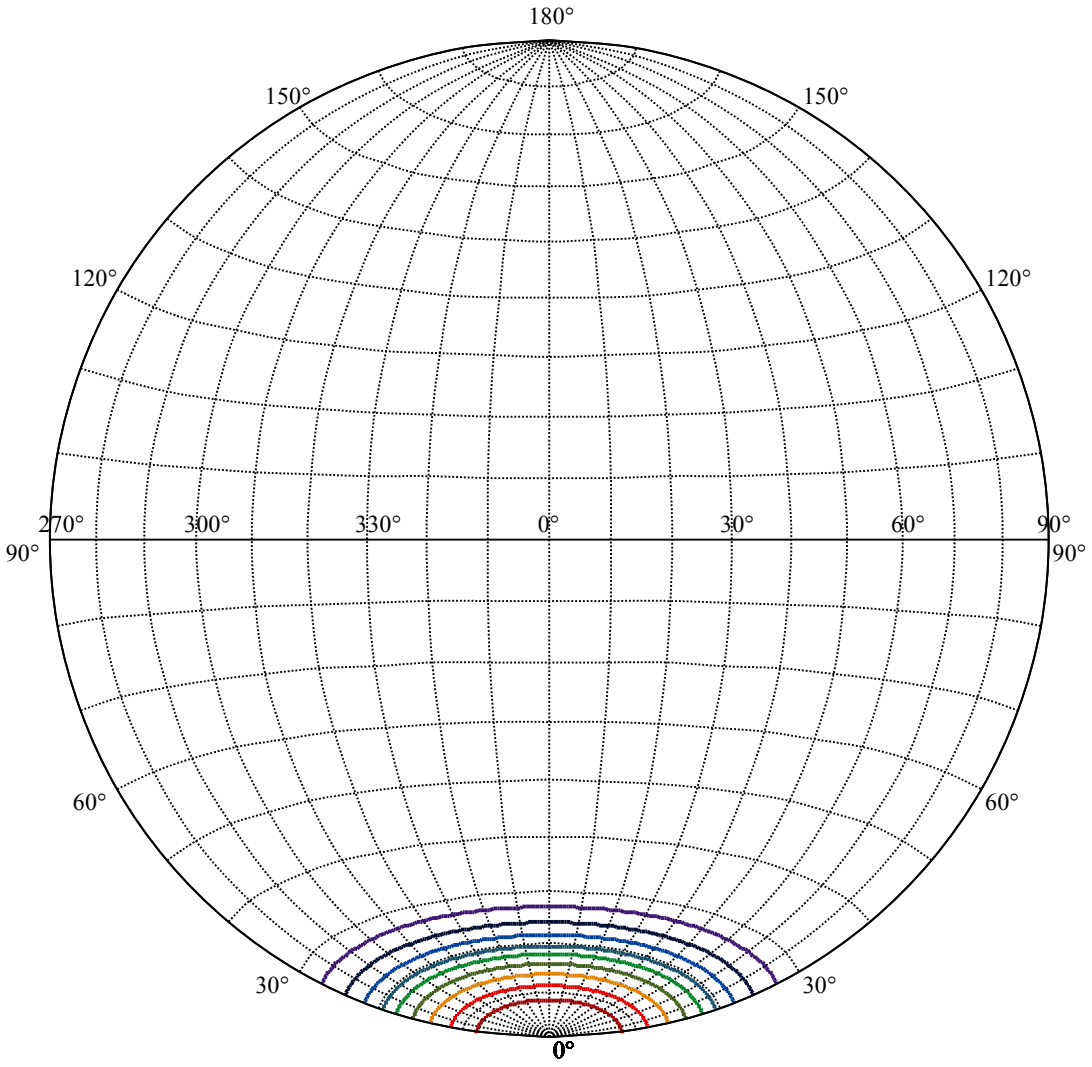


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/5/20
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

ISO candela diagram on circular web



House [Unit:cd] Road

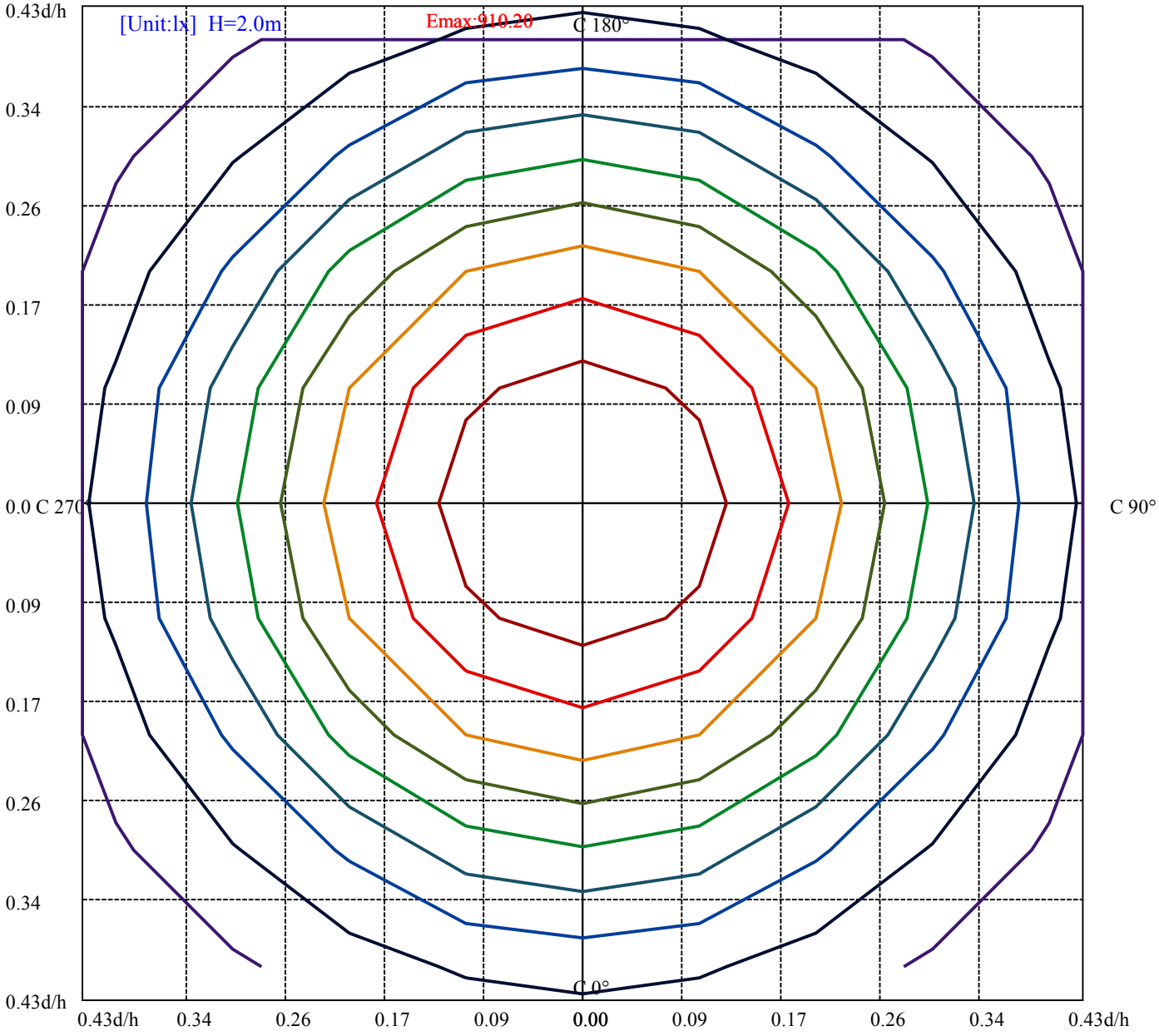
Imax:3640.80

(10%Imax) 364.08
(20%Imax) 728.16
(30%Imax) 1092.24
(40%Imax) 1456.32
(50%Imax) 1820.4
(60%Imax) 2184.48
(70%Imax) 2548.56
(80%Imax) 2912.64
(90%Imax) 3276.72

Equipment: GMS 1800 Date: 2025/5/20 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.30

NT NT 61-0259

ISO illuminance diagram

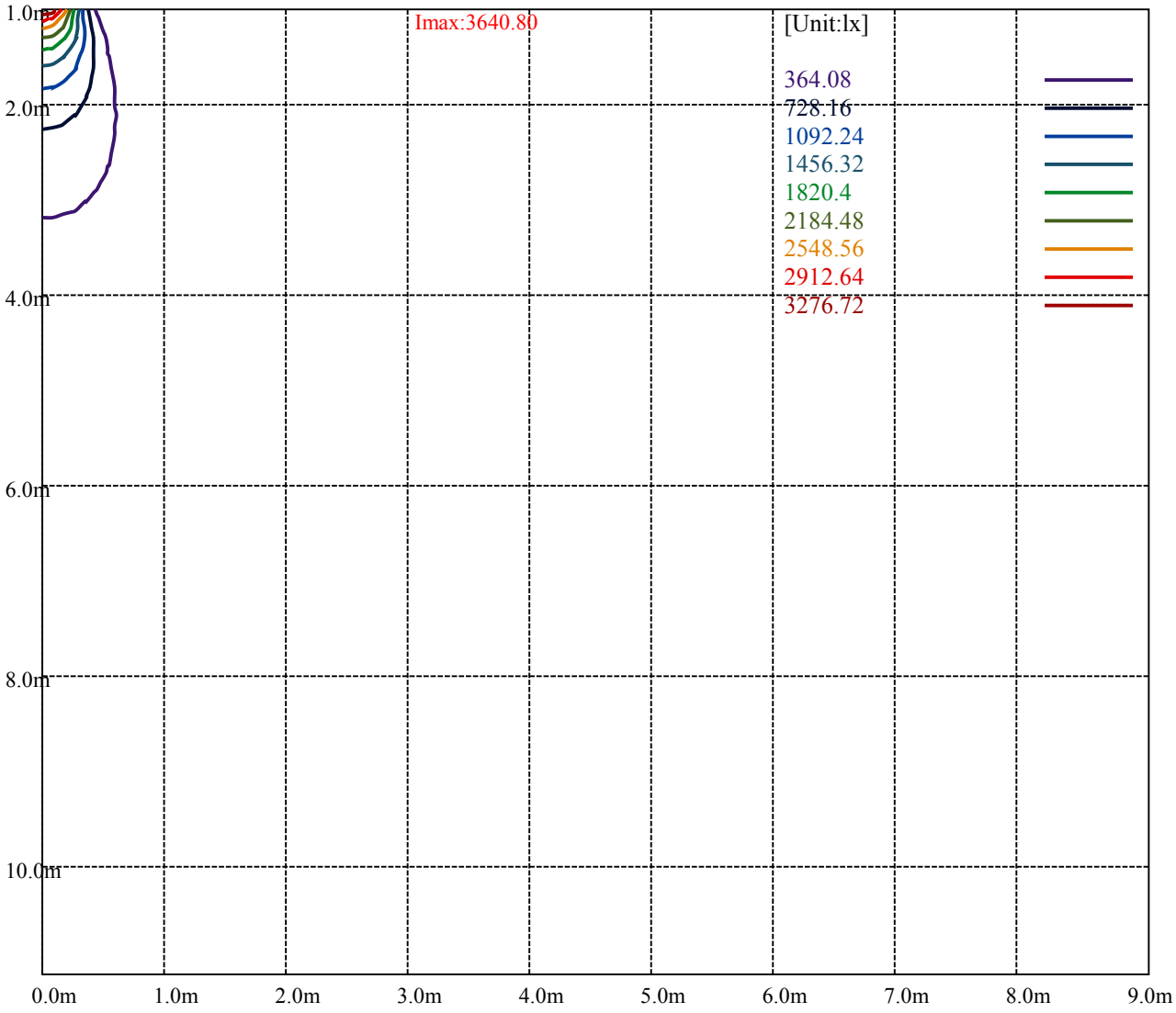


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/5/20
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/5/20
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

NT NT 61-0259

Luminance Limitting Curve(no luminous side)

Luminance Table

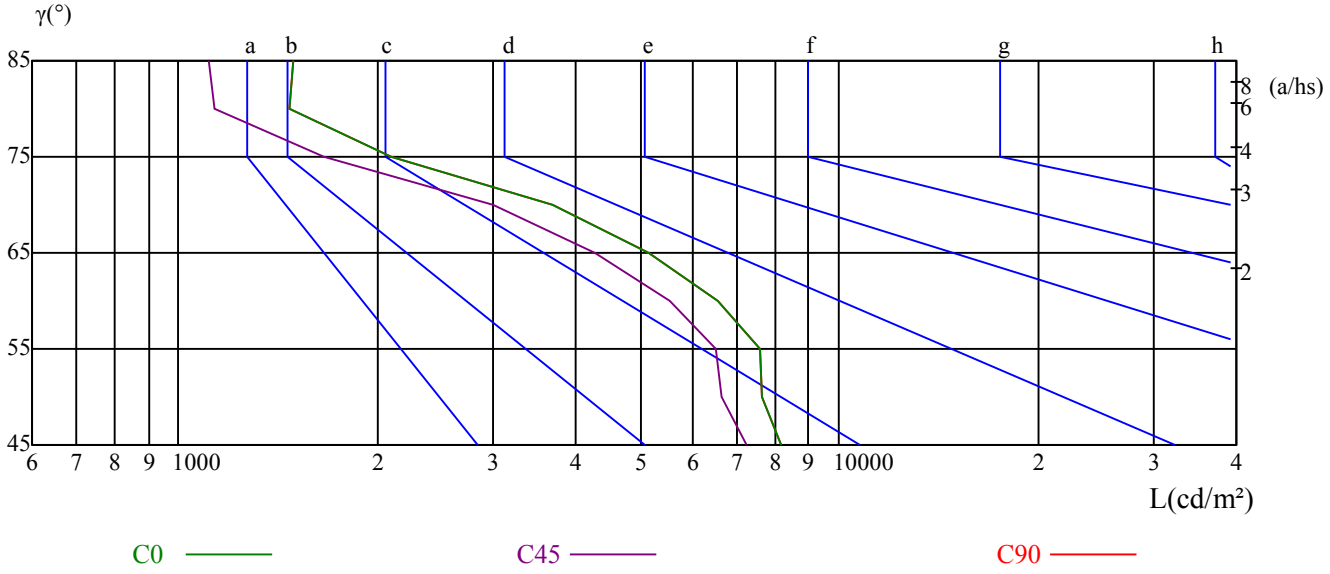
γ	45	50	55	60	65	70	75	80	85
C0	8177	7633	7575	6563	5155	3683	2100	1470	1496
C45	7225	6649	6498	5538	4270	2988	1663	1130	1109
C90	8177	7633	7575	6563	5155	3683	2100	1470	1496

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
10313	10313	10313	5757	5757	5757	9473	9473	9473

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



Equipment: GMS 1800
Temperature(°C): 25.0

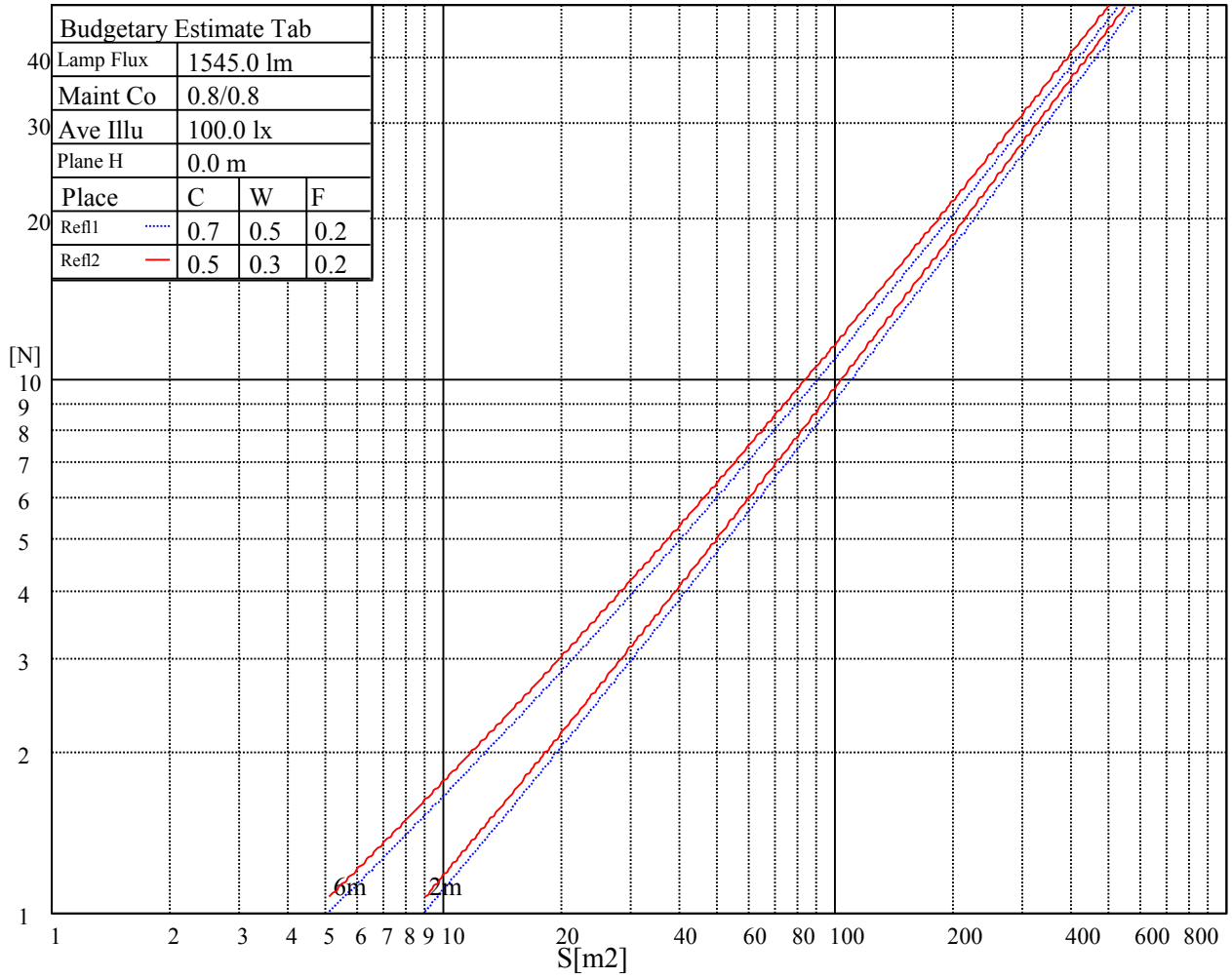
Date: 2025/5/20
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

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	10.55	11.47	10.91	11.78	12.10	10.91	11.83	11.27	12.14	12.46
	3H	11.27	12.09	11.66	12.43	12.78	11.74	12.56	12.13	12.90	13.24
	4H	11.35	12.11	11.75	12.47	12.83	11.88	12.64	12.29	13.00	13.37
	6H	11.38	12.07	11.80	12.45	12.85	11.90	12.59	12.32	12.97	13.37
	8H	11.36	12.02	11.78	12.41	12.82	11.88	12.54	12.30	12.92	13.33
	12H	11.35	11.97	11.77	12.37	12.79	11.87	12.49	12.29	12.89	13.30
4H	2H	10.96	11.72	11.37	12.08	12.45	11.26	12.02	11.66	12.38	12.74
	3H	11.77	12.40	12.19	12.80	13.22	12.17	12.81	12.60	13.20	13.62
	4H	11.93	12.48	12.37	12.90	13.35	12.40	12.95	12.84	13.37	13.82
	6H	11.94	12.43	12.42	12.88	13.33	12.40	12.88	12.87	13.33	13.79
	8H	11.97	12.41	12.46	12.87	13.35	12.42	12.86	12.90	13.32	13.80
	12H	12.00	12.41	12.49	12.87	13.39	12.45	12.86	12.94	13.32	13.84
8H	4H	11.91	12.36	12.40	12.82	13.29	12.35	12.80	12.84	13.26	13.73
	6H	11.97	12.33	12.47	12.81	13.32	12.39	12.75	12.89	13.23	13.74
	8H	12.08	12.38	12.61	12.90	13.40	12.49	12.79	13.03	13.31	13.81
	12H	12.16	12.39	12.71	12.91	13.43	12.58	12.81	13.12	13.32	13.85
12H	4H	11.87	12.28	12.36	12.73	13.26	12.31	12.72	12.80	13.17	13.70
	6H	11.99	12.29	12.52	12.81	13.31	12.40	12.70	12.94	13.22	13.72
	8H	12.08	12.31	12.63	12.83	13.35	12.49	12.71	13.03	13.23	13.76
Variation with the observer position at spacings:											
S = 1.0H		1.8/-0.8					1.8/-0.8				
S = 1.5H		3.1/-1.4					3.1/-1.4				
S = 2.0H		5.0/-1.9					5.0/-1.9				
Standard tables:		BK2					BK2				
Uncorrected UGR		-6.4					-6.4				

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

Budgetary Estimate Table

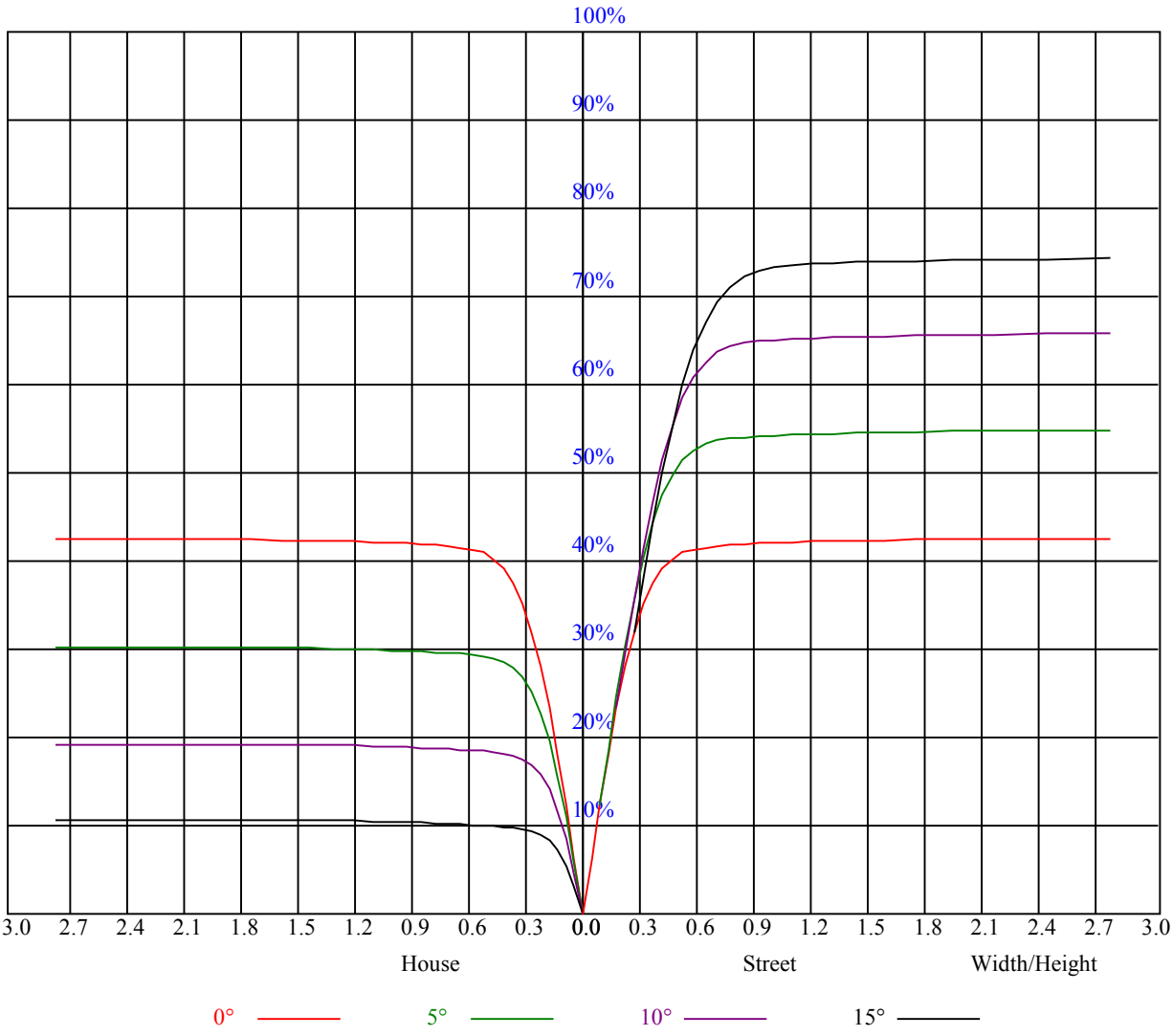


Equipment: GMS 1800 Date: 2025/5/20 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.30

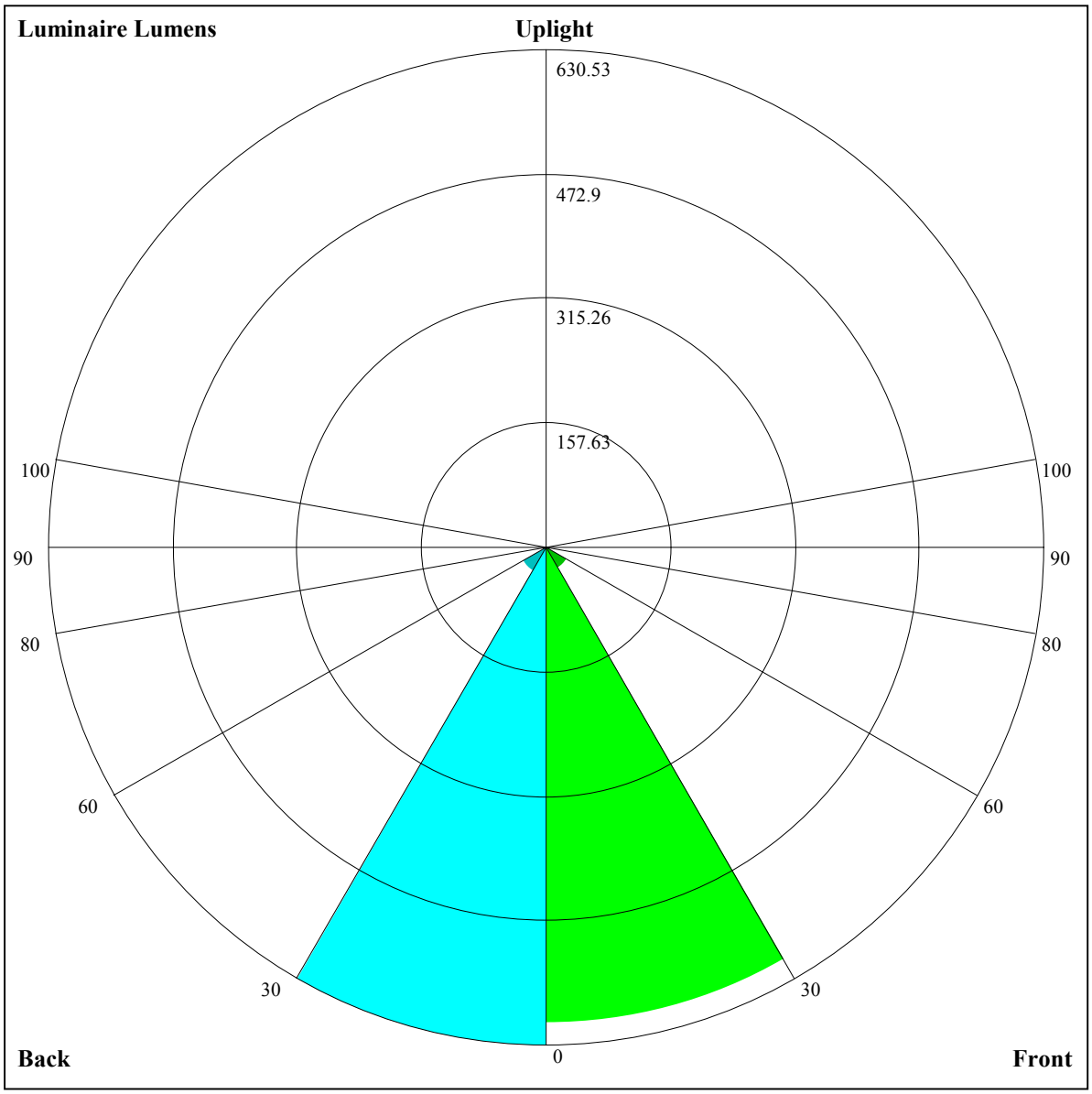
Utilization factor table for indoor luminaire

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

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2025/5/20	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.30



Luminaire Lumens:
FL=603.59,FM=30.72,FH=6.02,FVH=0.88
BL=630.53,BM=33.87,BH=6.23,BVH=0.91
UL=0,UH=0

BUG Rating:B2-U0-G0

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	3636.14	3624.41	3603.63	3565.79	3538.62	3462.94	3418.71	3337.18	3237.53
45.0	3642.00	3644.13	3649.99	3646.26	3639.87	3616.42	3588.18	3541.81	3486.92
90.0	3647.86	3652.66	3638.80	3614.82	3599.90	3559.40	3502.91	3439.50	3360.63
135.0	3637.20	3646.79	3645.20	3621.75	3606.83	3572.72	3528.49	3467.74	3399.00
180.0	3636.14	3646.26	3651.59	3634.00	3615.35	3587.64	3543.94	3490.12	3421.38
225.0	3642.00	3629.74	3600.97	3575.39	3545.01	3466.14	3416.58	3334.52	3235.40
270.0	3647.86	3642.00	3623.88	3596.70	3558.87	3503.44	3432.57	3346.77	3251.38
315.0	3637.20	3613.75	3594.57	3551.41	3496.52	3427.24	3343.04	3248.19	3136.28
360.0	3636.14	3624.41	3603.63	3565.79	3538.62	3462.94	3418.71	3337.18	3237.53

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3125.09	2993.46	2849.58	2698.23	2536.23	2361.44	2174.39	1980.95	1781.11
45.0	3411.25	3328.65	3215.68	3097.37	3019.57	2812.27	2650.80	2550.09	2292.16
90.0	3269.50	3156.53	3030.23	2895.94	2753.12	2593.78	2421.66	2242.07	2060.88
135.0	3316.40	3221.01	3109.63	2989.73	2852.77	2705.69	2550.09	2388.62	2219.16
180.0	3338.25	3243.39	3125.62	3000.92	2862.37	2713.15	2550.09	2372.10	2191.98
225.0	3118.69	2987.60	2839.98	2682.78	2515.98	2337.99	2148.81	1951.64	1745.41
270.0	3136.28	3000.39	2859.17	2703.03	2535.17	2362.51	2178.12	1987.34	1793.37
315.0	3011.04	2873.02	2724.34	2566.07	2400.87	2226.08	2047.56	1856.25	1663.87
360.0	3125.09	2993.46	2849.58	2698.23	2536.23	2361.44	2174.39	1980.95	1781.11

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1581.27	1387.30	1024.02	1024.02	890.80	734.44	592.21	466.61	360.08
45.0	2098.19	1972.42	1762.46	1555.69	1351.06	1154.95	971.10	806.97	656.16
90.0	1870.64	1670.80	1477.89	1031.21	996.42	996.42	829.51	674.97	539.51
135.0	2040.10	1854.12	1668.14	1478.42	1294.57	1149.09	978.03	819.23	673.21
180.0	2004.93	1850.92	1613.25	1419.81	1266.86	1087.81	918.35	762.21	621.52
225.0	1539.71	1245.01	1013.58	1013.58	844.70	692.82	556.45	437.03	333.60
270.0	1672.93	1479.49	1208.78	1097.93	923.68	705.72	621.52	492.03	379.58
315.0	1545.57	1041.02	973.34	973.34	811.98	664.10	531.25	413.32	312.33
360.0	1581.27	1387.30	1024.02	1024.02	890.80	734.44	592.21	466.61	360.08

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	269.65	198.93	143.72	104.55	79.14	62.94	52.65	45.51	39.59
45.0	520.80	400.90	299.65	299.65	263.95	103.33	86.38	66.67	51.11
90.0	419.87	317.34	233.14	166.69	120.49	88.51	67.89	55.47	47.69
135.0	541.59	425.95	325.76	308.71	275.14	128.59	94.75	72.31	57.93
180.0	497.89	389.18	297.52	281.53	201.92	119.32	100.50	70.72	57.98
225.0	247.32	179.80	130.40	96.88	74.45	59.31	49.88	43.01	36.98
270.0	286.86	286.86	151.29	110.31	83.35	65.33	56.33	46.84	40.50
315.0	230.64	167.38	120.92	89.90	69.76	57.39	49.40	42.85	37.04
360.0	269.65	198.93	143.72	104.55	79.14	62.94	52.65	45.51	39.59

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	34.43	29.79	26.38	23.87	21.85	20.46	19.77	18.44	17.91
45.0	46.74	40.45	32.77	30.11	26.49	23.77	21.80	20.14	18.97
90.0	41.30	35.70	30.75	26.96	24.46	21.69	20.30	18.86	17.48
135.0	49.03	42.42	38.90	31.76	29.15	25.69	23.02	20.94	19.34
180.0	52.28	44.92	38.80	33.84	29.84	26.65	24.14	22.06	20.57
225.0	31.92	27.92	24.73	23.13	20.41	18.97	18.23	17.21	16.41
270.0	36.13	30.38	27.34	24.30	22.06	20.20	18.81	17.64	16.73
315.0	34.16	28.67	26.75	24.25	22.12	20.52	18.97	17.85	17.00
360.0	34.43	29.79	26.38	23.87	21.85	20.46	19.77	18.44	17.91

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	17.32	17.00	16.68	16.52	16.31	16.20	15.99	15.67	15.29
45.0	17.96	17.16	16.73	16.41	16.36	16.31	16.31	16.31	16.15
90.0	16.79	16.15	15.56	15.19	15.03	14.92	14.92	14.92	14.76
135.0	18.17	17.16	16.36	15.72	15.35	15.08	14.87	14.76	14.65
180.0	19.08	17.91	16.95	16.41	16.09	15.88	15.83	15.88	16.15
225.0	15.72	15.24	15.03	14.92	14.71	14.65	14.55	14.39	14.18
270.0	15.93	15.29	14.87	14.60	14.49	14.49	14.44	14.23	14.07
315.0	16.41	16.04	15.88	15.93	15.99	16.15	16.52	16.73	16.31
360.0	17.32	17.00	16.68	16.52	16.31	16.20	15.99	15.67	15.29

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	14.76	14.28	13.70	13.16	12.58	12.04	11.35	10.71	10.02
45.0	16.04	15.77	15.24	14.92	14.44	13.96	13.32	12.74	12.20
90.0	14.65	14.34	14.02	13.64	13.27	12.68	12.15	11.83	10.92
135.0	14.49	14.28	13.96	13.64	13.27	12.95	12.31	11.94	11.35
180.0	16.52	16.73	16.31	15.77	15.08	14.18	13.48	12.74	11.94
225.0	13.86	13.48	13.06	12.52	11.99	11.51	10.98	10.50	9.75
270.0	13.75	13.38	13.00	12.79	12.10	11.78	11.30	10.71	10.07
315.0	15.67	15.03	14.44	13.96	12.74	12.15	11.24	10.39	9.75
360.0	14.76	14.28	13.70	13.16	12.58	12.04	11.35	10.71	10.02

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.38	8.95	8.05	7.67	6.98	6.34	5.76	5.17	4.58
45.0	11.56	10.87	10.18	9.49	8.85	8.10	7.46	6.82	6.29
90.0	10.39	10.07	9.11	8.74	8.10	7.46	6.87	6.23	5.65
135.0	10.82	10.28	9.59	8.95	8.31	7.78	7.14	6.50	5.92
180.0	11.08	10.28	9.65	9.06	8.47	7.78	7.19	6.61	6.08
225.0	9.27	8.63	7.89	7.35	6.82	6.23	5.65	5.12	4.53
270.0	9.49	8.90	8.31	7.67	7.03	6.45	5.92	5.33	4.69
315.0	9.17	8.47	7.83	7.19	6.61	6.02	5.38	4.80	4.26
360.0	9.38	8.95	8.05	7.67	6.98	6.34	5.76	5.17	4.58

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	4.05	3.52	2.98	2.40	2.08	2.03	2.03	1.87	1.81
45.0	5.65	5.01	4.42	3.89	3.46	2.82	2.29	2.08	2.08
90.0	5.12	4.53	4.00	3.36	2.77	2.24	1.92	1.81	1.76
135.0	5.33	4.80	4.21	3.68	3.14	2.66	2.08	1.81	1.76
180.0	5.44	4.90	4.42	3.89	3.36	2.82	2.45	2.40	2.34
225.0	4.00	3.46	2.88	2.29	1.97	1.87	1.87	1.81	1.76
270.0	4.16	3.62	3.04	2.40	1.92	1.76	1.71	1.71	1.65
315.0	3.78	3.20	2.61	2.24	2.03	1.97	1.97	1.92	1.92
360.0	4.05	3.52	2.98	2.40	2.08	2.03	2.03	1.87	1.81

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	1.71	1.65	1.49	1.44	1.44	1.39	1.33	1.28	1.28
45.0	1.97	1.92	1.87	1.81	1.71	1.60	1.60	1.55	1.49
90.0	1.76	1.71	1.65	1.60	1.60	1.49	1.49	1.39	1.39
135.0	1.76	1.71	1.60	1.60	1.55	1.44	1.44	1.33	1.28
180.0	2.34	2.29	2.29	2.24	2.18	2.24	2.13	2.13	2.13
225.0	1.76	1.71	1.65	1.65	1.60	1.49	1.55	1.44	1.44
270.0	1.60	1.60	1.49	1.49	1.44	1.39	1.33	1.28	1.28
315.0	1.92	1.87	1.87	1.87	1.87	1.81	1.76	1.76	1.76
360.0	1.71	1.65	1.49	1.44	1.44	1.39	1.33	1.28	1.28

Intensity data(cd)

C/γ(°)	90.0
0.0	1.23
45.0	1.44
90.0	1.39
135.0	1.23
180.0	2.08
225.0	1.39
270.0	1.23
315.0	1.81
360.0	1.23