NATA LIGHTING CO.,LTD.
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Email:info@nata.com
Tel:+86 571 85021543 Fax:+86 571 87977635
Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client: NT
LumCAT: 61-0261
Luminaire: 92.70.427.00
Report No: 20250702-B002
Ballast type: AC
Test No: 20250702-C002
LampCAT: LUMINUS CXM-9
Lamp flux(lm): 1501.0
Number of Lamps: 1
Length(mm): 45
Phm Type: C

Voltage(V): 33.680
Current(A): 0.360
Power (W): 12.120
PF: 0.000
Width(mm): 45
Height(mm): 21

Photometric Results

Lumens(lm): 1296.50, Efficiency(%): 86.38% , Luminous Efficacy(lm/W): 106.97
Central intensity(cd): 5187.333, Maximum intensity(cd): 5187.333
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=27.4
[C90/270]Total=27.4
Field angle(10%Imax): [C0/180]Total=46.8
[C90/270]Total=46.8
Maximum s/h(1/2): C0_180=0.46 C90_270=0.46
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(%): 86.38%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.462%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5187.333	0.000	0	0.00%	0.00%
1.0	5163.311	4.953	4.953	0.33%	0.38%
2.0	5122.885	14.764	19.716	0.98%	1.52%
3.0	5046.700	24.322	44.039	1.62%	3.40%
4.0	4941.962	33.435	77.474	2.23%	5.98%
5.0	4799.339	41.907	119.38	2.79%	9.21%
6.0	4643.605	49.625	169.006	3.31%	13.04%
7.0	4449.231	56.439	225.445	3.76%	17.39%
8.0	4223.559	62.069	287.514	4.14%	22.18%
9.0	3971.256	66.415	353.929	4.42%	27.30%
10.0	3699.598	69.418	423.347	4.62%	32.65%
11.0	3407.350	71.013	494.36	4.73%	38.13%
12.0	3109.542	71.239	565.599	4.75%	43.62%
13.0	2804.596	70.186	635.785	4.68%	49.04%
14.0	2517.152	68.118	703.903	4.54%	54.29%
15.0	2188.802	64.605	768.508	4.30%	59.28%
16.0	1874.082	59.533	828.041	3.97%	63.87%
17.0	1668.726	55.171	883.212	3.68%	68.12%
18.0	1370.870	50.116	933.328	3.34%	71.99%
19.0	1152.329	43.898	977.227	2.92%	75.37%
20.0	984.646	39.113	1016.339	2.61%	78.39%
21.0	835.324	34.947	1051.286	2.33%	81.09%
22.0	676.543	30.382	1081.668	2.02%	83.43%
23.0	558.457	25.914	1107.582	1.73%	85.43%
24.0	447.439	21.992	1129.574	1.47%	87.12%
25.0	361.810	18.401	1147.975	1.23%	88.54%
26.0	302.619	15.684	1163.659	1.04%	89.75%
27.0	240.909	13.298	1176.956	0.89%	90.78%
28.0	208.809	11.386	1188.342	0.76%	91.66%
29.0	173.928	10.013	1198.356	0.67%	92.43%
30.0	129.611	8.195	1206.551	0.55%	93.06%
31.0	110.098	6.671	1213.222	0.44%	93.58%
32.0	89.843	5.728	1218.95	0.38%	94.02%
33.0	75.506	4.871	1223.821	0.32%	94.39%
34.0	65.519	4.268	1228.089	0.28%	94.72%
35.0	55.842	3.769	1231.858	0.25%	95.01%
36.0	48.800	3.332	1235.19	0.22%	95.27%
37.0	42.712	2.985	1238.174	0.20%	95.50%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	37.482	2.677	1240.851	0.18%	95.71%
39.0	33.830	2.434	1243.285	0.16%	95.90%
40.0	30.632	2.248	1245.533	0.15%	96.07%
41.0	27.729	2.078	1247.611	0.14%	96.23%
42.0	25.470	1.933	1249.544	0.13%	96.38%
43.0	23.514	1.815	1251.359	0.12%	96.52%
44.0	22.121	1.722	1253.081	0.11%	96.65%
45.0	20.844	1.651	1254.732	0.11%	96.78%
46.0	19.794	1.589	1256.322	0.11%	96.90%
47.0	19.026	1.544	1257.866	0.10%	97.02%
48.0	18.435	1.514	1259.38	0.10%	97.14%
49.0	17.941	1.494	1260.874	0.10%	97.25%
50.0	17.550	1.480	1262.354	0.10%	97.37%
51.0	17.262	1.473	1263.827	0.10%	97.48%
52.0	17.035	1.472	1265.298	0.10%	97.59%
53.0	16.747	1.470	1266.768	0.10%	97.71%
54.0	16.438	1.463	1268.23	0.10%	97.82%
55.0	16.116	1.453	1269.684	0.10%	97.93%
56.0	15.711	1.438	1271.122	0.10%	98.04%
57.0	15.251	1.416	1272.537	0.09%	98.15%
58.0	14.647	1.383	1273.92	0.09%	98.26%
59.0	14.098	1.344	1275.264	0.09%	98.36%
60.0	13.452	1.302	1276.565	0.09%	98.46%
61.0	12.780	1.252	1277.817	0.08%	98.56%
62.0	12.094	1.199	1279.016	0.08%	98.65%
63.0	11.455	1.145	1280.161	0.08%	98.74%
64.0	10.755	1.090	1281.251	0.07%	98.82%
65.0	10.137	1.034	1282.285	0.07%	98.90%
66.0	9.472	0.978	1283.263	0.07%	98.98%
67.0	8.833	0.920	1284.184	0.06%	99.05%
68.0	8.250	0.865	1285.049	0.06%	99.12%
69.0	7.701	0.814	1285.863	0.05%	99.18%
70.0	7.193	0.765	1286.628	0.05%	99.24%
71.0	6.761	0.721	1287.349	0.05%	99.29%
72.0	6.342	0.681	1288.03	0.05%	99.35%
73.0	5.971	0.644	1288.674	0.04%	99.40%
74.0	5.662	0.612	1289.286	0.04%	99.44%
75.0	5.354	0.582	1289.868	0.04%	99.49%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.086	0.554	1290.422	0.04%	99.53%
77.0	4.804	0.527	1290.949	0.04%	99.57%
78.0	4.578	0.502	1291.451	0.03%	99.61%
79.0	4.406	0.483	1291.934	0.03%	99.65%
80.0	4.235	0.466	1292.4	0.03%	99.68%
81.0	4.118	0.452	1292.852	0.03%	99.72%
82.0	4.036	0.442	1293.294	0.03%	99.75%
83.0	3.960	0.435	1293.728	0.03%	99.79%
84.0	3.878	0.427	1294.155	0.03%	99.82%
85.0	3.816	0.420	1294.575	0.03%	99.85%
86.0	3.699	0.411	1294.986	0.03%	99.88%
87.0	3.590	0.399	1295.385	0.03%	99.91%
88.0	3.452	0.386	1295.771	0.03%	99.94%
89.0	3.336	0.372	1296.143	0.02%	99.97%
90.0	3.233	0.360	1296.503	0.02%	100.00%

Zonal flux distribution table

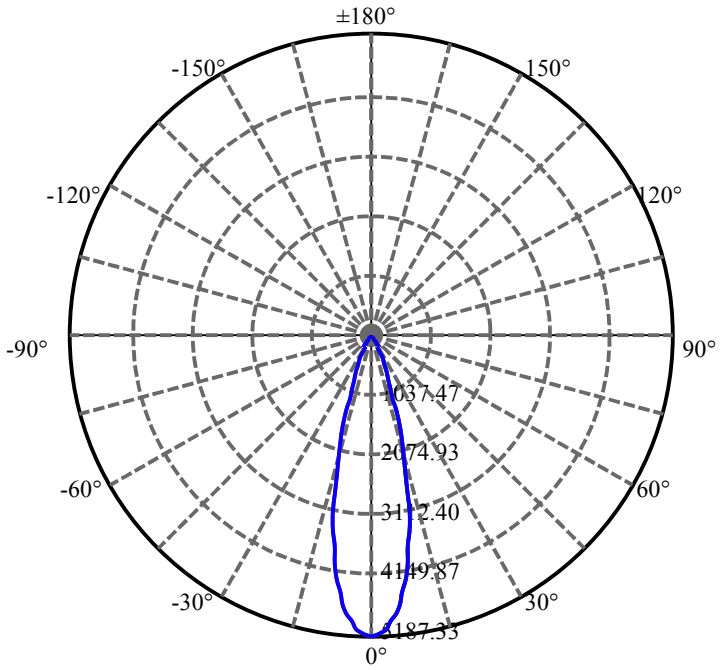
ZONAL LUMEN SUMMARY

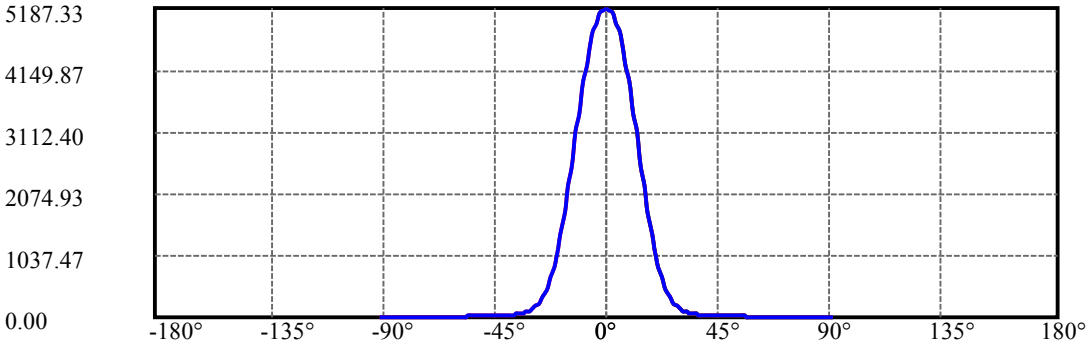
Zone	Lumens	%Lamp	%Fixt
0-30	1206.55	80.38%	93.06%
0-40	1245.53	82.98%	96.07%
0-60	1276.57	85.05%	98.46%
0-90	1296.14	86.35%	99.97%
0-120	1296.14	86.35%	99.97%
0-180	1296.50	86.38%	100.00%
60-90	19.58	1.30%	1.51%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-20.60	1037.20	69.10%	80.00%

ZONAL LUMEN SUMMARY

0-10	423.35
10-20	592.99
20-30	190.21
30-40	38.98
40-50	16.82
50-60	14.21
60-70	10.06
70-80	5.77
80-90	3.74
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):

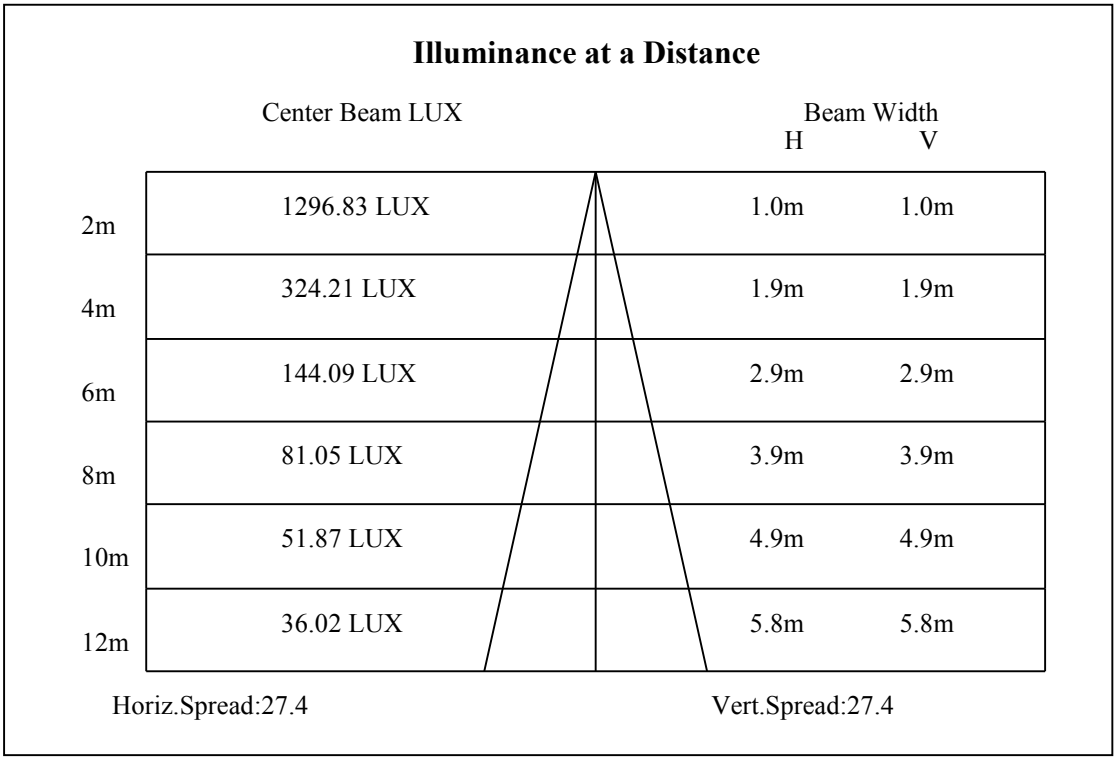
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:23.4 Right:23.4
:C90/270Left:23.4 Right:23.4

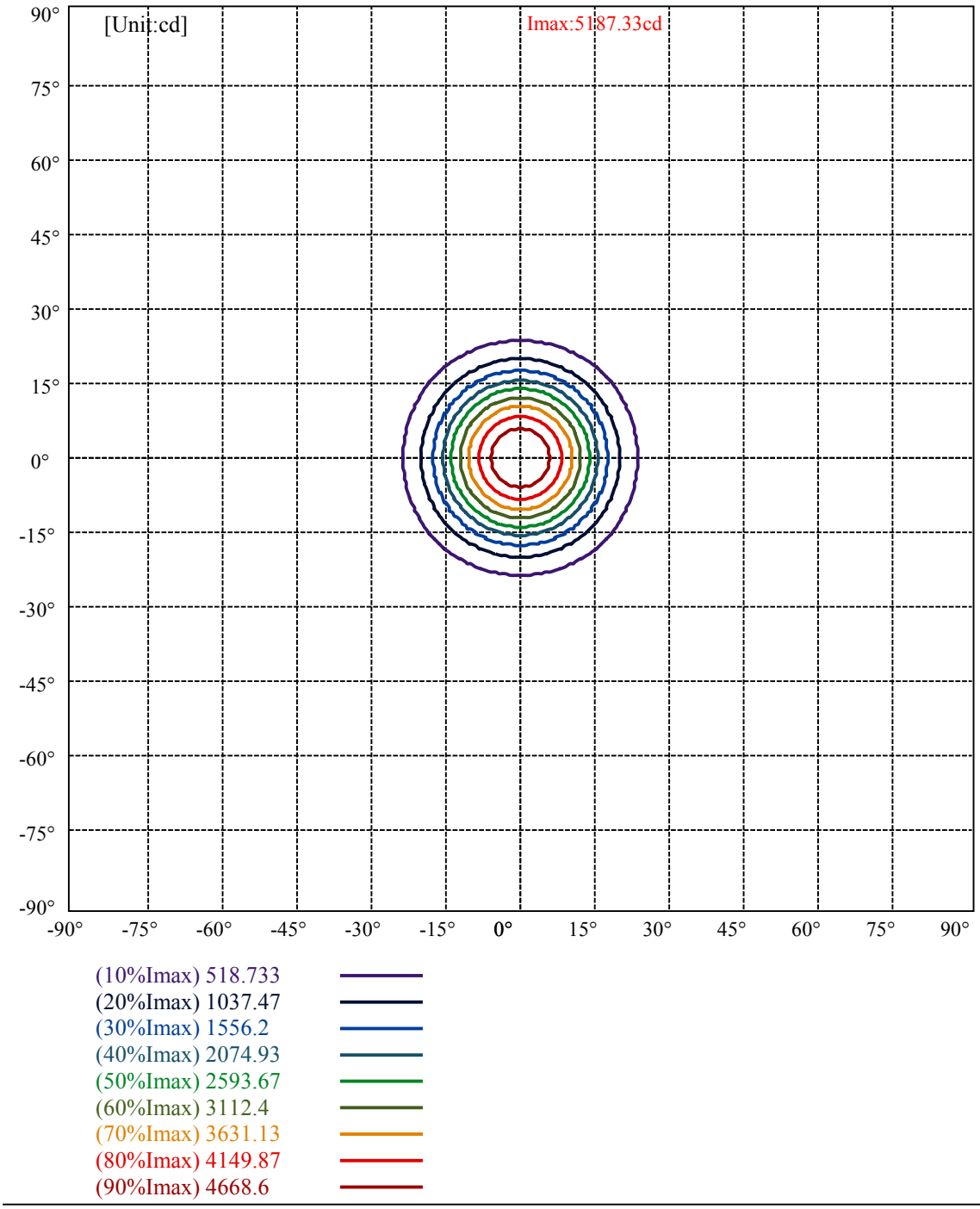
Beam Angle(50%Imax):C0/180Left:13.7 Right:13.7
:C90/270Left:13.7 Right:13.7

Lux distance Curve



Equipment: GMS 1800 Date: 2025/7/2 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.41

ISO-Intensity(V-H)



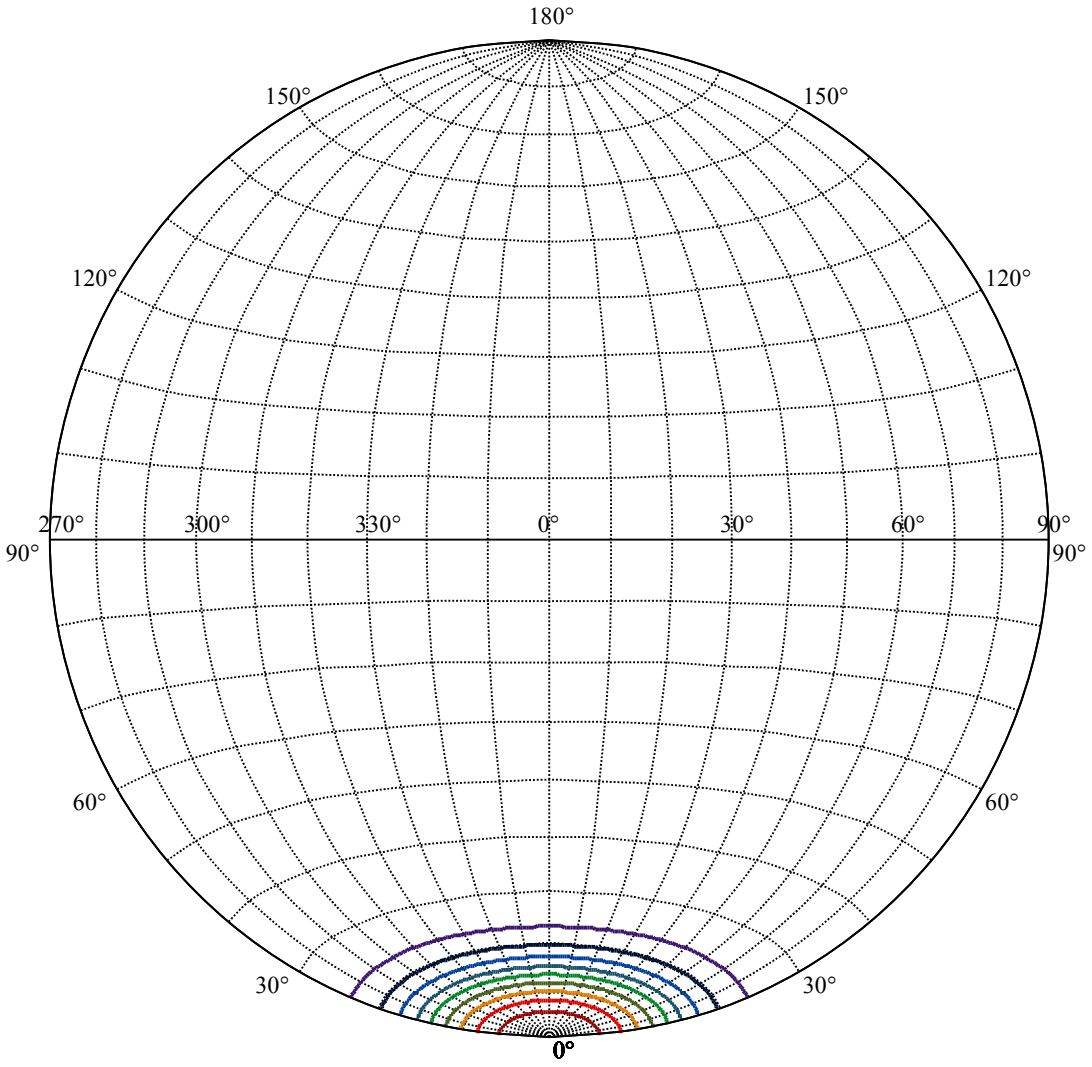
(10%Imax) 518.733
(20%Imax) 1037.47
(30%Imax) 1556.2
(40%Imax) 2074.93
(50%Imax) 2593.67
(60%Imax) 3112.4
(70%Imax) 3631.13
(80%Imax) 4149.87
(90%Imax) 4668.6

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/7/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.41

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:5187.33

(10%Imax) 518.733
(20%Imax) 1037.47
(30%Imax) 1556.2
(40%Imax) 2074.93
(50%Imax) 2593.67
(60%Imax) 3112.4
(70%Imax) 3631.13
(80%Imax) 4149.87
(90%Imax) 4668.6

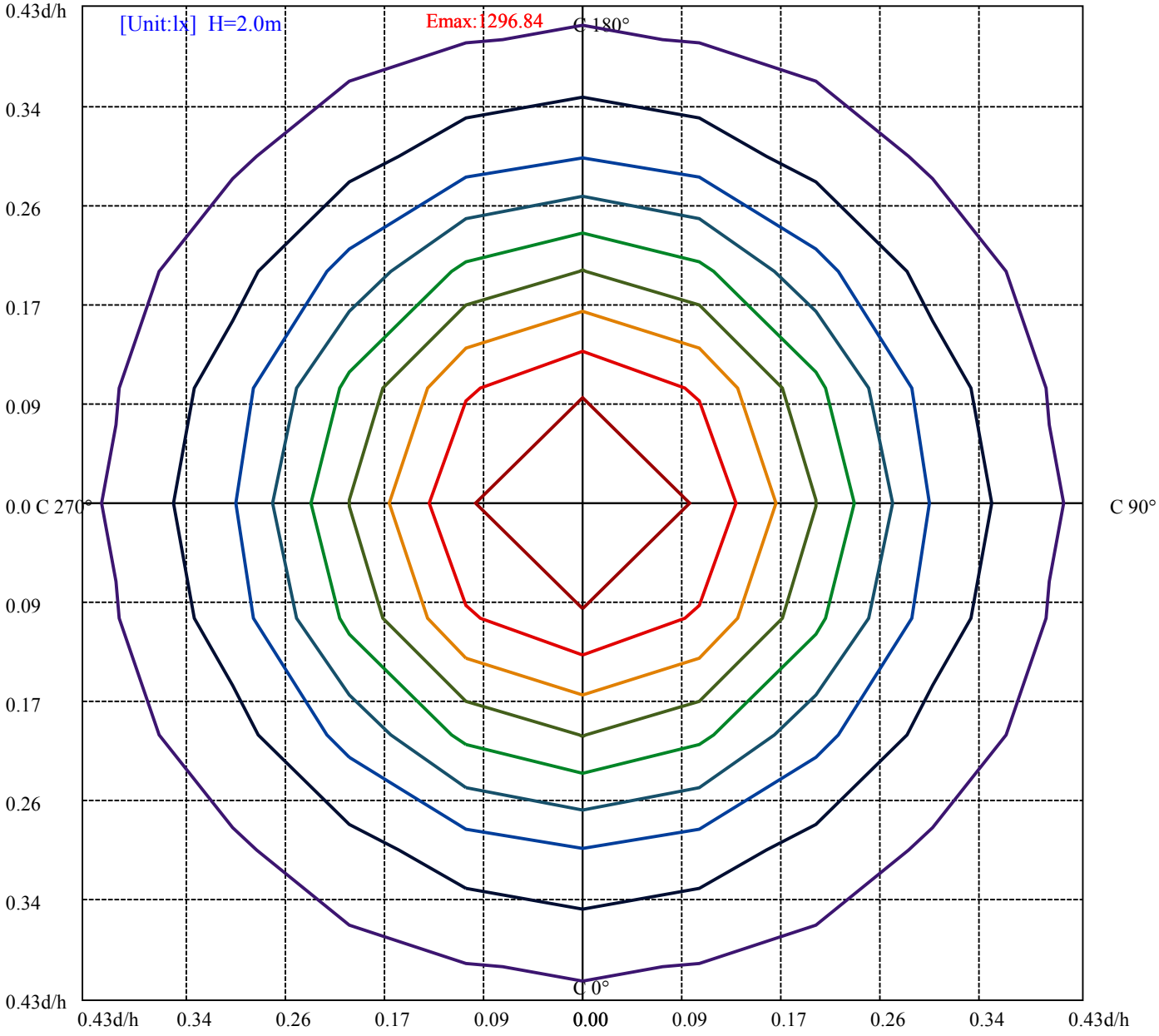
Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/7/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.41

NT NT 61-0261

ISO illuminance diagram

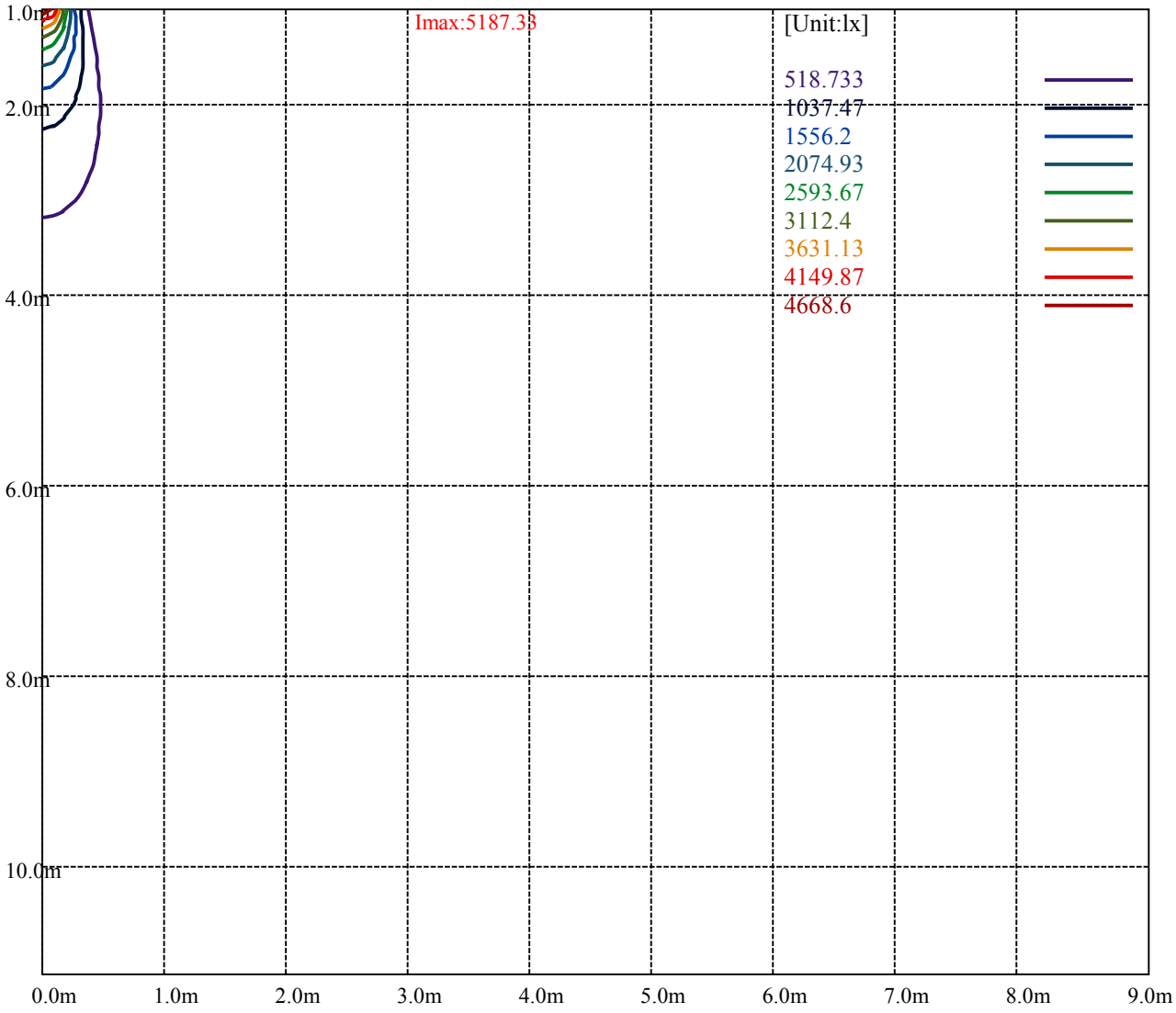


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/7/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.41

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/7/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.41

Luminance Limitting Curve(no luminous side)

Luminance Table

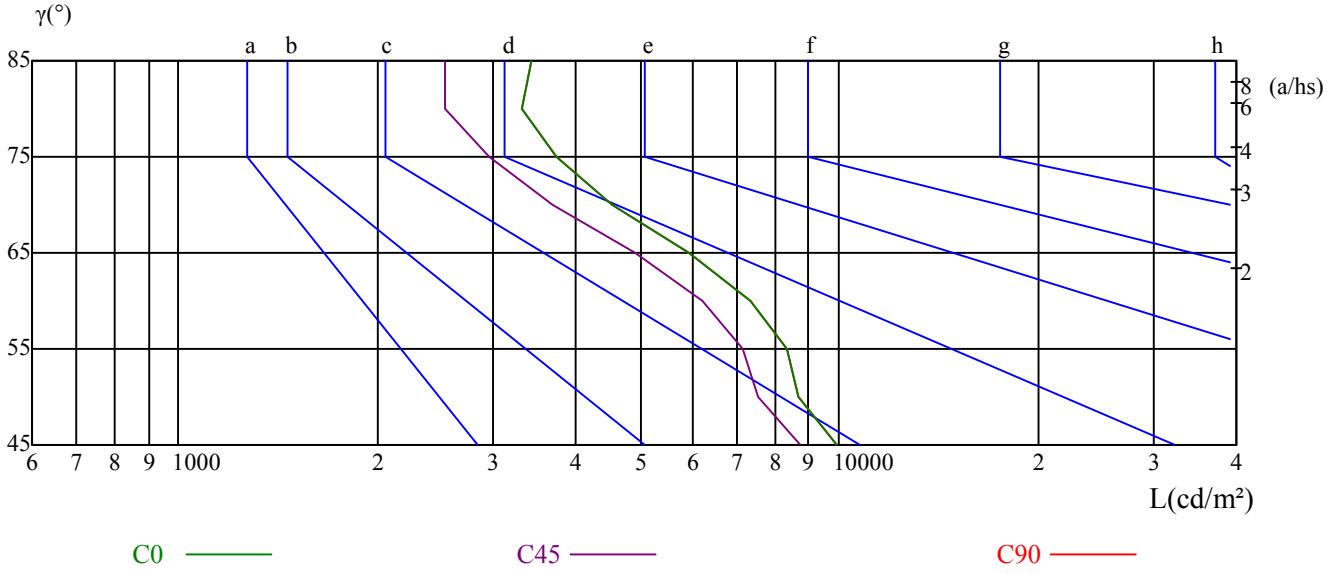
γ	45	50	55	60	65	70	75	80	85
C0	9925	8664	8326	7347	5920	4551	3726	3303	3414
C45	8770	7547	7143	6200	4904	3692	2950	2539	2531
C90	9925	8664	8326	7347	5920	4551	3726	3303	3414

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11846	11846	11846	10215	10215	10215	21622	21622	21622

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

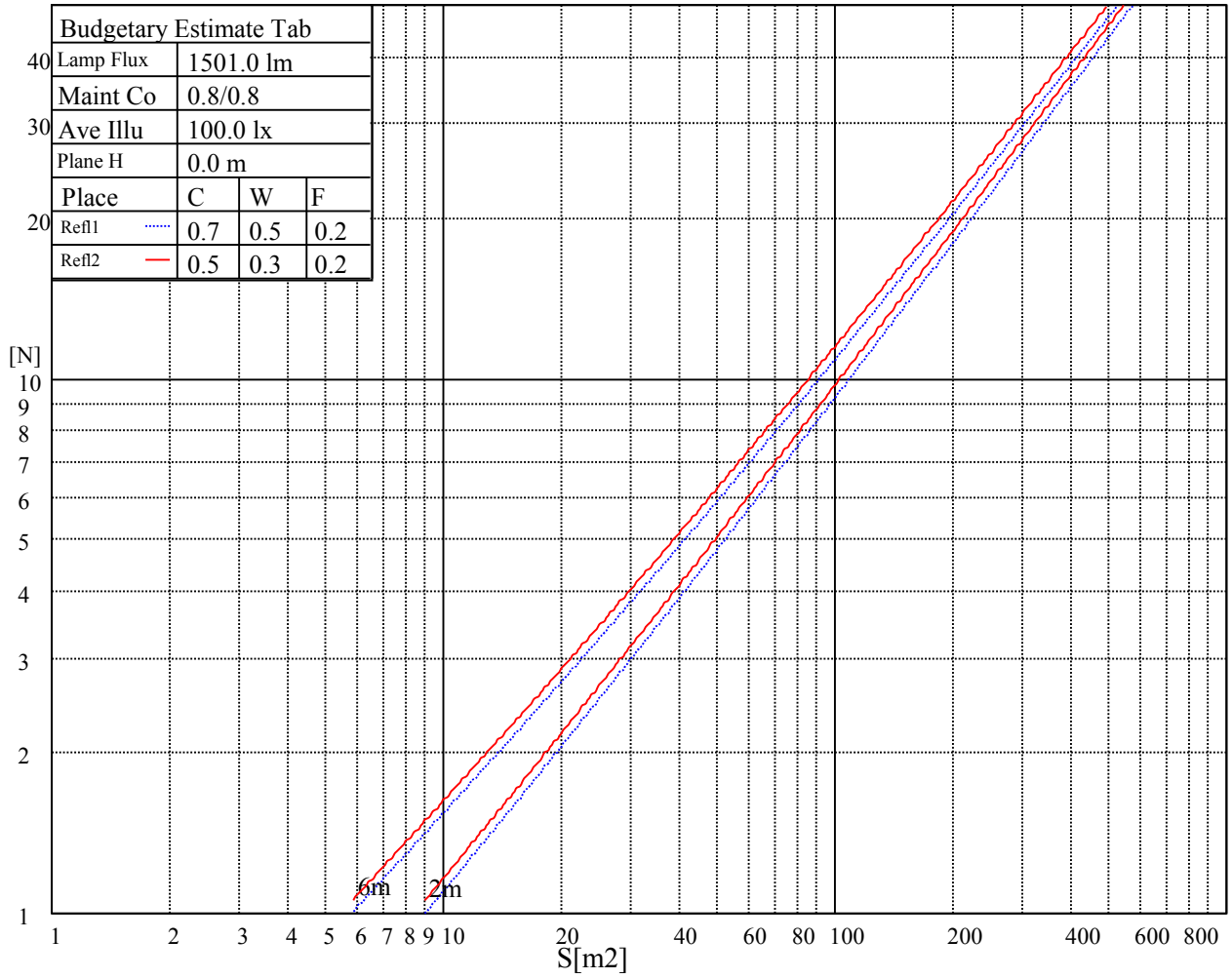
Luminance Limitting Curve



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	11.06	12.00	11.42	12.31	12.63	11.83	12.77	12.20	13.08	13.40
	3H	11.87	12.71	12.26	13.04	13.39	12.69	13.52	13.08	13.86	14.21
	4H	12.15	12.92	12.55	13.27	13.64	12.99	13.76	13.39	14.12	14.49
	6H	12.43	13.13	12.85	13.51	13.91	13.29	13.99	13.70	14.37	14.77
	8H	12.57	13.25	13.00	13.63	14.04	13.40	14.08	13.83	14.46	14.87
	12H	12.73	13.36	13.15	13.76	14.18	13.55	14.18	13.97	14.58	15.00
4H	2H	11.48	12.25	11.88	12.60	12.97	12.12	12.89	12.52	13.24	13.61
	3H	12.40	13.05	12.83	13.44	13.86	13.08	13.73	13.51	14.13	14.54
	4H	12.81	13.37	13.25	13.80	14.25	13.53	14.09	13.97	14.51	14.96
	6H	13.17	13.66	13.64	14.11	14.57	13.89	14.39	14.37	14.84	15.29
	8H	13.40	13.85	13.88	14.31	14.79	14.10	14.55	14.58	15.01	15.49
	12H	13.65	14.07	14.14	14.52	15.04	14.34	14.76	14.83	15.21	15.73
8H	4H	12.92	13.38	13.41	13.84	14.31	13.58	14.03	14.07	14.49	14.97
	6H	13.41	13.79	13.92	14.27	14.78	14.07	14.44	14.57	14.92	15.43
	8H	13.80	14.11	14.33	14.63	15.13	14.42	14.73	14.95	15.25	15.75
	12H	14.18	14.42	14.72	14.93	15.46	14.79	15.02	15.33	15.54	16.07
12H	4H	12.92	13.34	13.41	13.80	14.32	13.57	13.99	14.06	14.44	14.96
	6H	13.51	13.82	14.04	14.34	14.84	14.14	14.45	14.67	14.97	15.47
	8H	13.91	14.15	14.46	14.67	15.19	14.50	14.74	15.05	15.26	15.78
Variation with the observer position at spacings:											
S = 1.0H		1.4/-0.8					1.4/-0.8				
S = 1.5H		2.3/-1.1					2.3/-1.1				
S = 2.0H		3.7/-1.4					3.7/-1.4				
Standard tables:		BK3					BK3				
Uncorrected UGR		-4.3					-4.3				

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

Budgetary Estimate Table

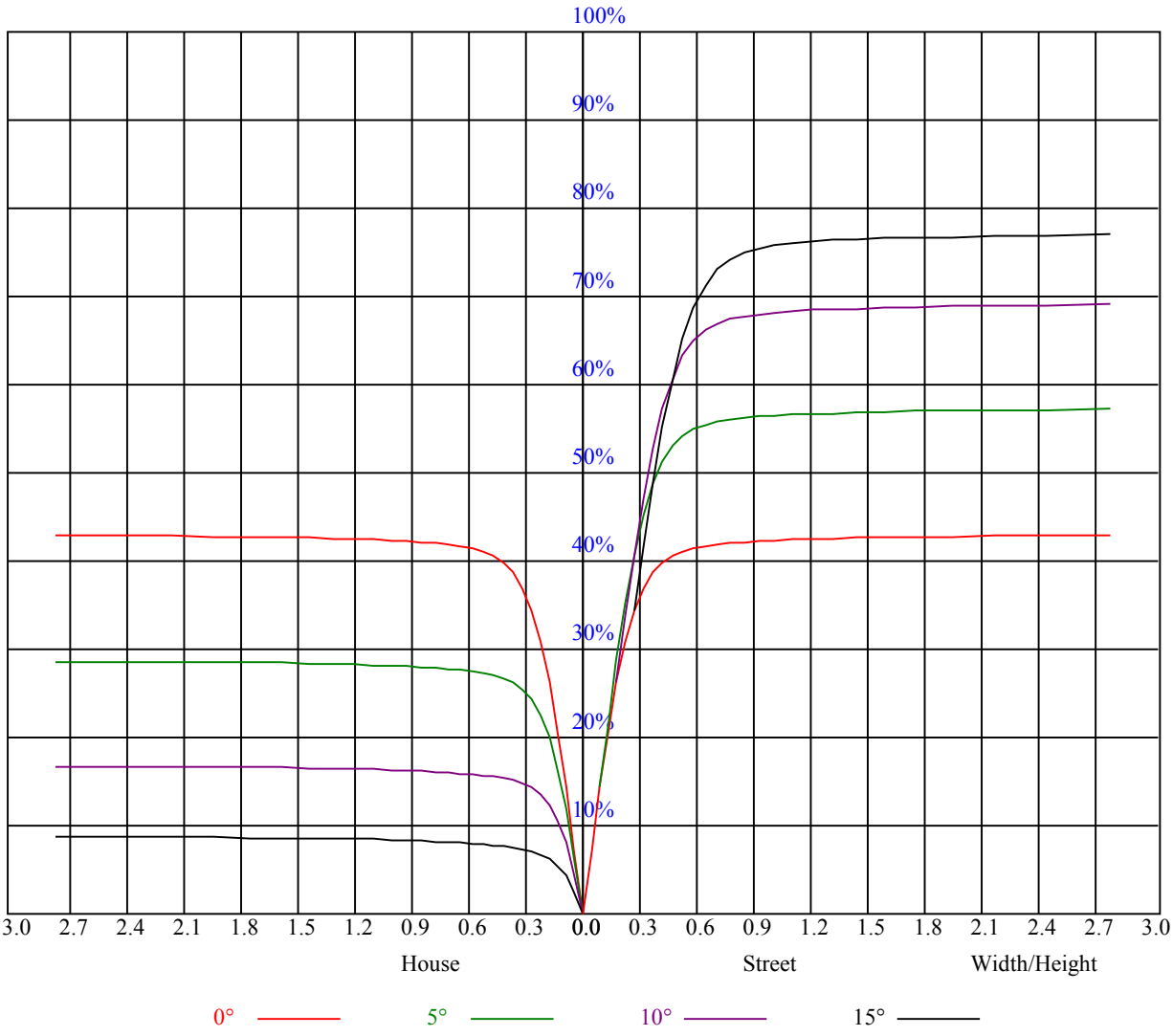


Equipment: GMS 1800 Date: 2025/7/2 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.41

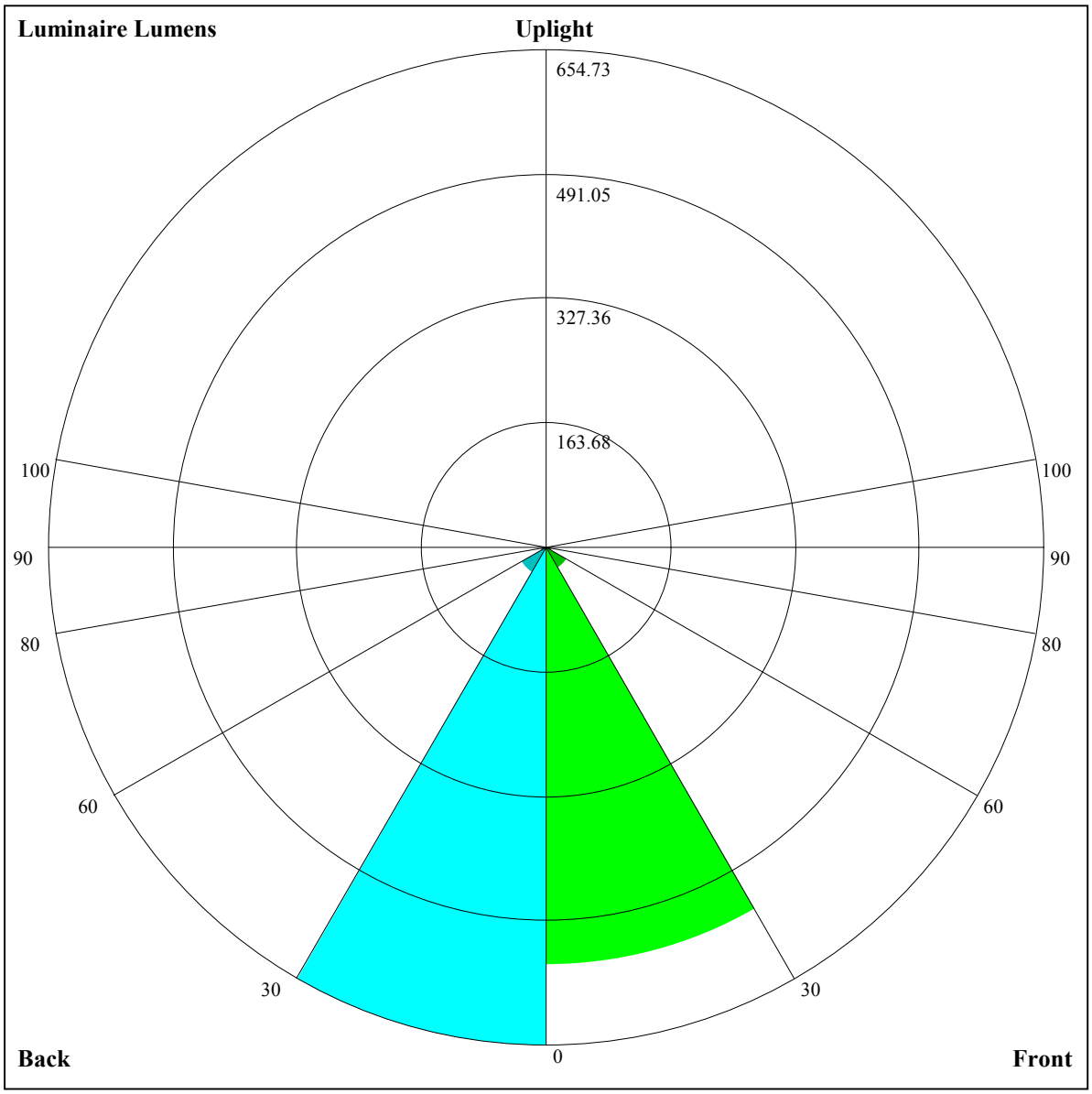
Utilization factor table for indoor luminaire

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	1.03	1.03	1.03	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.97	0.95	0.94	0.95	0.94	0.92	0.92	0.91	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83
2	0.92	0.89	0.87	0.91	0.88	0.86	0.88	0.86	0.84	0.86	0.84	0.83	0.83	0.82	0.81	0.80
3	0.88	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.81	0.79	0.78	0.77
4	0.84	0.81	0.78	0.83	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.79	0.77	0.75	0.74
5	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.71
6	0.78	0.74	0.72	0.78	0.74	0.71	0.76	0.73	0.71	0.75	0.73	0.71	0.74	0.72	0.70	0.69
7	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.72	0.70	0.68	0.67
8	0.73	0.69	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.68	0.66	0.65
9	0.71	0.67	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.69	0.66	0.64	0.63
10	0.69	0.65	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.67	0.65	0.63	0.67	0.64	0.62	0.62

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2025/7/2	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.41



Luminaire Lumens:
FL=549.57,FM=32.33,FH=7.61,FVH=2.06
BL=654.73,BM=38.1,BH=8.3,BVH=2.17
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	5156.04	5062.69	4945.74	4795.29	4683.83	4407.09	4261.03	4002.97	3721.84
45.0	5199.41	5203.81	5172.51	5109.36	5029.75	4905.65	4754.11	4583.34	4373.59
90.0	5232.36	5233.46	5211.49	5136.27	5062.14	4947.38	4797.49	4641.00	4428.50
135.0	5161.53	5231.26	5261.46	5255.97	5231.81	5189.53	5070.38	4964.96	4814.51
180.0	5156.04	5214.79	5238.95	5232.91	5177.45	5112.11	5002.29	4858.98	4691.51
225.0	5199.41	5156.04	5094.54	5046.22	4868.32	4720.61	4610.80	4391.71	4163.30
270.0	5232.36	5186.78	5126.93	5016.57	4897.97	4743.68	4541.61	4319.24	4067.21
315.0	5161.53	5017.67	4931.46	4781.01	4584.44	4368.65	4111.13	3831.65	3528.01
360.0	5156.04	5062.69	4945.74	4795.29	4683.83	4407.09	4261.03	4002.97	3721.84

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3418.19	3105.22	2782.91	2477.07	2169.58	1875.28	1602.38	1039.03	1039.03
45.0	4137.49	3878.87	3596.65	3295.75	2994.30	2802.67	2383.73	2208.02	1920.30
90.0	4185.81	3916.21	3625.20	3332.54	3022.31	2713.17	2398.00	2094.91	1811.58
135.0	4632.76	4423.56	4174.83	3898.09	3600.49	3296.85	2971.79	2653.87	2342.54
180.0	4488.35	4261.03	3995.83	3711.95	3411.06	3094.24	2779.06	2457.85	2214.61
225.0	3903.03	3620.26	3316.61	3017.91	2704.94	2403.49	2111.93	1826.96	1563.40
270.0	3789.37	3493.42	3186.48	2872.41	2562.73	2257.99	1962.58	1686.39	1432.72
315.0	3215.03	2898.21	2580.30	2270.61	1971.37	1693.53	1300.94	1025.63	1025.63
360.0	3418.19	3105.22	2782.91	2477.07	2169.58	1875.28	1602.38	1039.03	1039.03

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	919.60	744.99	628.04	510.32	399.68	336.37	271.08	219.58	179.71
45.0	1547.47	1401.42	1172.45	970.94	795.23	648.08	527.83	427.90	348.83
90.0	1551.87	1005.75	1005.75	966.55	786.72	636.99	515.04	416.26	336.20
135.0	2043.30	1753.38	1490.37	1243.83	1024.20	863.32	664.55	560.78	450.96
180.0	1862.10	1642.47	1378.36	1095.58	931.41	750.21	604.70	489.40	394.95
225.0	1020.41	1020.41	869.69	763.22	567.15	498.46	403.63	300.35	264.11
270.0	1190.02	978.08	791.39	694.75	555.29	449.86	363.66	293.92	293.92
315.0	832.19	672.13	541.12	437.40	352.67	284.37	229.02	186.30	152.26
360.0	919.60	744.99	628.04	510.32	399.68	336.37	271.08	219.58	179.71

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	147.10	120.25	99.22	82.42	69.18	59.47	51.23	44.86	39.59
45.0	293.92	293.92	177.19	145.12	128.65	98.67	81.81	73.41	62.27
90.0	272.62	220.68	179.55	147.59	122.23	101.53	85.38	72.09	61.44
135.0	365.30	294.47	294.47	192.34	157.53	130.13	107.35	89.50	75.44
180.0	319.73	306.55	281.84	171.59	152.75	117.34	97.68	88.07	69.62
225.0	213.70	174.77	144.08	119.26	99.38	83.35	70.34	60.29	52.33
270.0	190.86	157.53	129.97	106.91	89.99	75.88	64.90	55.90	48.76
315.0	124.04	102.29	85.11	71.66	61.06	52.38	45.35	40.03	37.28
360.0	147.10	120.25	99.22	82.42	69.18	59.47	51.23	44.86	39.59

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	35.25	31.57	28.50	25.86	23.89	22.18	21.36	19.60	19.00
45.0	53.26	46.29	40.58	35.85	32.18	29.05	26.52	24.49	22.90
90.0	53.04	47.39	40.58	35.91	32.89	29.05	26.85	24.60	22.73
135.0	63.75	54.91	47.72	41.89	38.98	34.81	30.20	28.44	26.03
180.0	63.36	54.58	44.91	41.68	36.84	33.22	29.87	27.18	25.04
225.0	45.68	40.25	35.75	33.49	29.05	26.41	25.09	22.46	21.63
270.0	42.72	37.94	34.65	30.97	28.17	25.64	23.72	22.35	21.47
315.0	33.33	28.77	27.18	24.98	23.06	21.47	20.15	19.00	18.17
360.0	35.25	31.57	28.50	25.86	23.89	22.18	21.36	19.60	19.00

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	18.06	17.41	17.08	16.91	16.75	16.75	16.69	16.58	16.36
45.0	21.52	20.37	19.49	18.89	18.39	18.01	17.79	17.63	17.30
90.0	21.25	19.99	19.05	18.28	17.79	17.46	17.24	17.02	16.91
135.0	23.99	22.57	21.58	20.76	19.82	18.94	18.34	18.01	17.57
180.0	23.12	21.58	20.26	19.16	18.23	17.52	17.08	16.75	16.58
225.0	20.43	19.44	18.56	18.06	17.63	17.35	17.08	16.91	16.64
270.0	20.92	20.04	19.49	18.89	18.56	18.06	17.74	17.41	16.91
315.0	17.46	16.97	16.69	16.53	16.36	16.31	16.14	15.98	15.70
360.0	18.06	17.41	17.08	16.91	16.75	16.75	16.69	16.58	16.36

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	16.03	15.65	15.10	14.44	13.78	13.07	12.35	11.59	10.87
45.0	17.02	16.91	16.47	16.14	15.54	14.94	14.28	13.62	12.90
90.0	16.64	16.36	16.03	15.59	15.15	14.44	13.78	13.40	12.41
135.0	17.30	17.08	16.69	16.36	15.92	15.48	14.88	14.22	13.73
180.0	16.42	16.25	16.14	15.92	15.65	15.26	14.83	14.22	13.56
225.0	16.36	15.98	15.48	14.94	14.33	13.67	12.96	12.35	11.53
270.0	16.42	15.87	15.26	14.83	13.89	13.45	12.79	11.75	11.37
315.0	15.32	14.83	14.50	13.78	12.90	12.46	11.75	11.09	10.38
360.0	16.03	15.65	15.10	14.44	13.78	13.07	12.35	11.59	10.87

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.38	9.44	9.06	8.35	7.74	7.14	6.70	6.20	5.77
45.0	12.13	11.37	10.65	9.94	9.28	8.68	8.07	7.52	7.08
90.0	11.75	11.26	10.60	9.94	9.28	8.62	8.07	7.52	7.14
135.0	13.01	12.46	11.81	11.09	10.32	9.66	8.95	8.40	7.85
180.0	12.96	12.24	11.53	10.82	10.10	9.44	8.84	8.18	7.58
225.0	10.98	10.21	9.66	8.95	8.40	7.80	7.30	6.81	6.37
270.0	10.71	10.05	9.39	8.84	8.29	7.85	7.36	7.03	6.70
315.0	9.72	9.00	8.40	7.85	7.25	6.81	6.31	5.88	5.60
360.0	10.38	9.44	9.06	8.35	7.74	7.14	6.70	6.20	5.77

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.44	5.11	4.89	4.61	4.34	4.06	3.95	3.84	3.79
45.0	6.59	6.20	5.93	5.49	5.33	5.05	4.72	4.50	4.17
90.0	6.70	6.20	5.88	5.55	5.33	5.05	4.72	4.45	4.17
135.0	7.25	6.75	6.31	5.93	5.55	5.22	4.94	4.72	4.45
180.0	7.08	6.59	6.15	5.77	5.44	5.16	4.83	4.72	4.39
225.0	5.98	5.66	5.33	5.11	4.83	4.56	4.28	4.06	3.95
270.0	6.42	6.20	6.04	5.88	5.77	5.49	5.38	5.22	5.22
315.0	5.27	5.05	4.78	4.50	4.12	3.84	3.79	3.73	3.73
360.0	5.44	5.11	4.89	4.61	4.34	4.06	3.95	3.84	3.79

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.73	3.68	3.51	3.35	3.29	3.18	3.07	2.97	2.86
45.0	4.06	4.01	4.01	3.90	3.84	3.68	3.62	3.46	3.35
90.0	4.01	3.90	3.84	3.73	3.62	3.51	3.29	3.18	2.97
135.0	4.17	4.01	3.90	3.90	3.95	3.95	3.95	3.84	3.84
180.0	4.12	3.84	3.73	3.68	3.68	3.57	3.46	3.35	3.18
225.0	3.90	3.90	3.90	3.79	3.73	3.57	3.46	3.29	3.18
270.0	5.27	5.38	5.38	5.38	5.27	5.16	5.00	4.83	4.72
315.0	3.68	3.57	3.40	3.29	3.13	2.97	2.86	2.69	2.58
360.0	3.73	3.68	3.51	3.35	3.29	3.18	3.07	2.97	2.86

Intensity data(cd)

C/γ(°)	90.0
0.0	2.86
45.0	3.18
90.0	2.86
135.0	3.73
180.0	3.07
225.0	3.07
270.0	4.61
315.0	2.47
360.0	2.86