NATA LIGHTING CO.,LTD.
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Tel:+86-750-3770000 Fax:+86 750 3771111
Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client: NT
LumCAT: 62-0220-1
Luminaire: 92.70.427.00
Report No: 20250226-B005
Ballast type: AC

Test No: 20250226-C005	Voltage(V): 35.890
LampCAT: CITIZEN CLU028	Current(A): 0.360
Lamp flux(lm): 1484.0	Power (W): 12.920
Number of Lamps: 1	PF: 0.000
Length(mm): 50	Width(mm): 50
Phm Type: C	Height(mm): 24

Photometric Results

Lumens(lm): 1355.98, Efficiency(%): 91.37% , Luminous Efficacy(lm/W): 104.95
Central intensity(cd): 1296.439, Maximum intensity(cd): 1321.952
Angle of maximum intensity: C=0.0 γ=9.0
Beam Angle(50%Imax): [C0/180]Total=63.8
[C90/270]Total=63.8
Field angle(10%Imax): [C0/180]Total=82.0
[C90/270]Total=82.0
Maximum s/h(1/2): C0_180=1.06 C90_270=1.06
Maximum s/h(1/4): C0_180=0.93 C90_270=0.93
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.37%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.096%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1296.439	0.000	0	0.00%	0.00%
1.0	1296.905	1.241	1.241	0.08%	0.09%
2.0	1298.904	3.726	4.967	0.25%	0.37%
3.0	1302.035	6.221	11.187	0.42%	0.83%
4.0	1305.898	8.730	19.917	0.59%	1.47%
5.0	1310.894	11.257	31.174	0.76%	2.30%
6.0	1316.090	13.805	44.98	0.93%	3.32%
7.0	1318.954	16.356	61.335	1.10%	4.52%
8.0	1321.885	18.900	80.235	1.27%	5.92%
9.0	1321.952	21.427	101.662	1.44%	7.50%
10.0	1319.420	23.903	125.566	1.61%	9.26%
11.0	1314.291	26.316	151.882	1.77%	11.20%
12.0	1308.163	28.667	180.549	1.93%	13.31%
13.0	1300.169	30.954	211.503	2.09%	15.60%
14.0	1290.710	33.163	244.666	2.23%	18.04%
15.0	1279.986	35.292	279.958	2.38%	20.65%
16.0	1267.463	37.327	317.285	2.52%	23.40%
17.0	1253.074	39.252	356.537	2.64%	26.29%
18.0	1239.219	41.093	397.629	2.77%	29.32%
19.0	1223.032	42.838	440.467	2.89%	32.48%
20.0	1204.381	44.428	484.896	2.99%	35.76%
21.0	1183.598	45.854	530.75	3.09%	39.14%
22.0	1153.722	46.969	577.719	3.17%	42.61%
23.0	1130.954	47.939	625.658	3.23%	46.14%
24.0	1103.789	48.859	674.517	3.29%	49.74%
25.0	1074.420	49.528	724.045	3.34%	53.40%
26.0	1024.680	49.549	773.595	3.34%	57.05%
27.0	981.835	49.090	822.684	3.31%	60.67%
28.0	929.404	48.389	871.073	3.26%	64.24%
29.0	867.361	47.008	918.081	3.17%	67.71%
30.0	800.516	45.032	963.114	3.03%	71.03%
31.0	726.862	42.505	1005.618	2.86%	74.16%
32.0	654.741	39.581	1045.2	2.67%	77.08%
33.0	577.137	36.292	1081.491	2.45%	79.76%
34.0	498.108	32.540	1114.031	2.19%	82.16%
35.0	424.768	28.661	1142.693	1.93%	84.27%
36.0	359.721	24.978	1167.671	1.68%	86.11%
37.0	303.886	21.643	1189.314	1.46%	87.71%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	250.150	18.493	1207.807	1.25%	89.07%
39.0	198.385	15.310	1223.117	1.03%	90.20%
40.0	165.306	12.684	1235.801	0.85%	91.14%
41.0	131.020	10.552	1246.353	0.71%	91.92%
42.0	98.926	8.354	1254.707	0.56%	92.53%
43.0	82.500	6.721	1261.428	0.45%	93.03%
44.0	68.624	5.704	1267.132	0.38%	93.45%
45.0	59.938	4.941	1272.072	0.33%	93.81%
46.0	52.797	4.409	1276.481	0.30%	94.14%
47.0	47.635	3.994	1280.476	0.27%	94.43%
48.0	43.225	3.673	1284.149	0.25%	94.70%
49.0	39.728	3.406	1287.555	0.23%	94.95%
50.0	36.970	3.198	1290.753	0.22%	95.19%
51.0	34.459	3.022	1293.775	0.20%	95.41%
52.0	32.414	2.870	1296.645	0.19%	95.62%
53.0	30.708	2.746	1299.39	0.19%	95.83%
54.0	29.369	2.648	1302.038	0.18%	96.02%
55.0	28.277	2.573	1304.612	0.17%	96.21%
56.0	27.318	2.512	1307.124	0.17%	96.40%
57.0	26.392	2.456	1309.58	0.17%	96.58%
58.0	25.426	2.396	1311.976	0.16%	96.75%
59.0	24.633	2.340	1314.316	0.16%	96.93%
60.0	23.847	2.290	1316.606	0.15%	97.10%
61.0	23.048	2.238	1318.844	0.15%	97.26%
62.0	22.348	2.187	1321.032	0.15%	97.42%
63.0	21.602	2.138	1323.169	0.14%	97.58%
64.0	20.896	2.085	1325.255	0.14%	97.73%
65.0	20.077	2.028	1327.283	0.14%	97.88%
66.0	19.338	1.967	1329.249	0.13%	98.03%
67.0	18.592	1.907	1331.156	0.13%	98.17%
68.0	17.859	1.846	1333.003	0.12%	98.31%
69.0	17.000	1.778	1334.781	0.12%	98.44%
70.0	16.227	1.706	1336.487	0.11%	98.56%
71.0	15.541	1.642	1338.129	0.11%	98.68%
72.0	14.748	1.575	1339.704	0.11%	98.80%
73.0	13.995	1.503	1341.207	0.10%	98.91%
74.0	13.269	1.433	1342.641	0.10%	99.02%
75.0	12.576	1.366	1344.006	0.09%	99.12%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.824	1.295	1345.302	0.09%	99.21%
77.0	11.124	1.223	1346.525	0.08%	99.30%
78.0	10.471	1.156	1347.681	0.08%	99.39%
79.0	9.712	1.084	1348.766	0.07%	99.47%
80.0	9.113	1.015	1349.78	0.07%	99.54%
81.0	8.413	0.948	1350.728	0.06%	99.61%
82.0	7.687	0.873	1351.601	0.06%	99.68%
83.0	7.041	0.801	1352.402	0.05%	99.74%
84.0	6.342	0.729	1353.131	0.05%	99.79%
85.0	5.629	0.653	1353.784	0.04%	99.84%
86.0	4.976	0.580	1354.364	0.04%	99.88%
87.0	4.277	0.506	1354.87	0.03%	99.92%
88.0	3.630	0.433	1355.303	0.03%	99.95%
89.0	3.051	0.366	1355.67	0.02%	99.98%
90.0	2.678	0.314	1355.984	0.02%	100.00%

Zonal flux distribution table

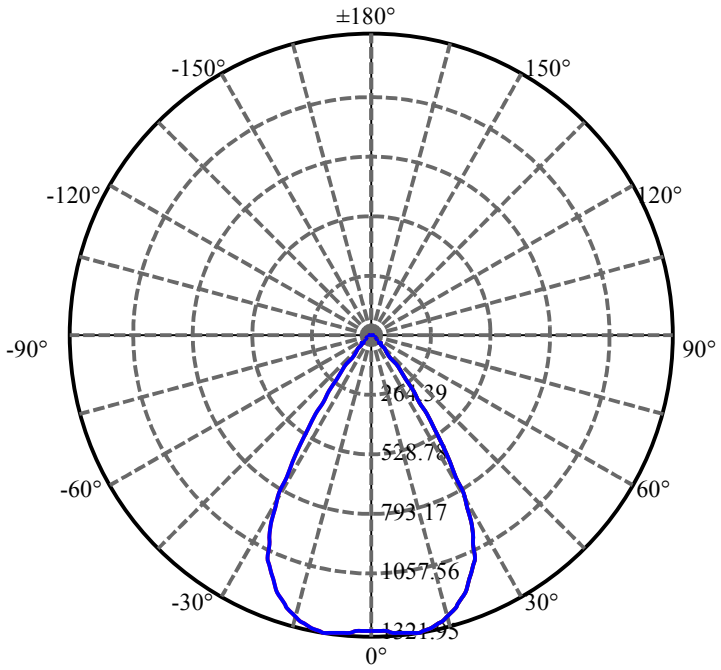
ZONAL LUMEN SUMMARY

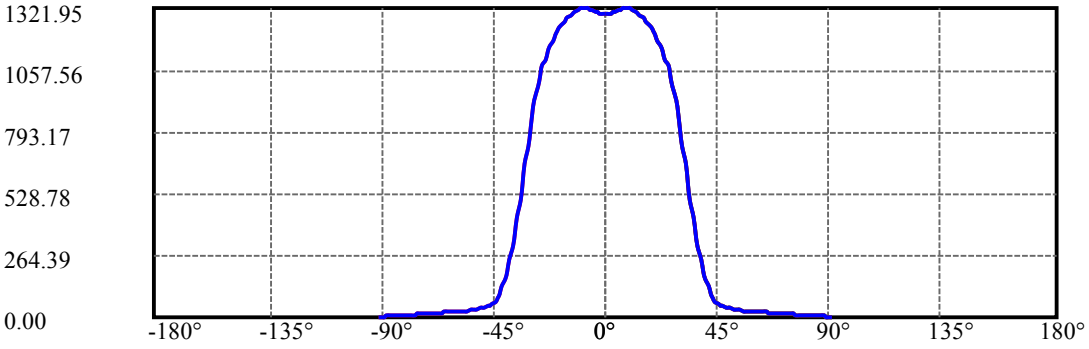
Zone	Lumens	%Lamp	%Fixt
0-30	963.11	64.90%	71.03%
0-40	1235.80	83.28%	91.14%
0-60	1316.61	88.72%	97.10%
0-90	1355.67	91.35%	99.98%
0-120	1355.67	91.35%	99.98%
0-180	1355.98	91.37%	100.00%
60-90	39.06	2.63%	2.88%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-33.10	1084.79	73.10%	80.00%

ZONAL LUMEN SUMMARY

0-10	125.57
10-20	359.33
20-30	478.22
30-40	272.69
40-50	54.95
50-60	25.85
60-70	19.88
70-80	13.29
80-90	5.89
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):

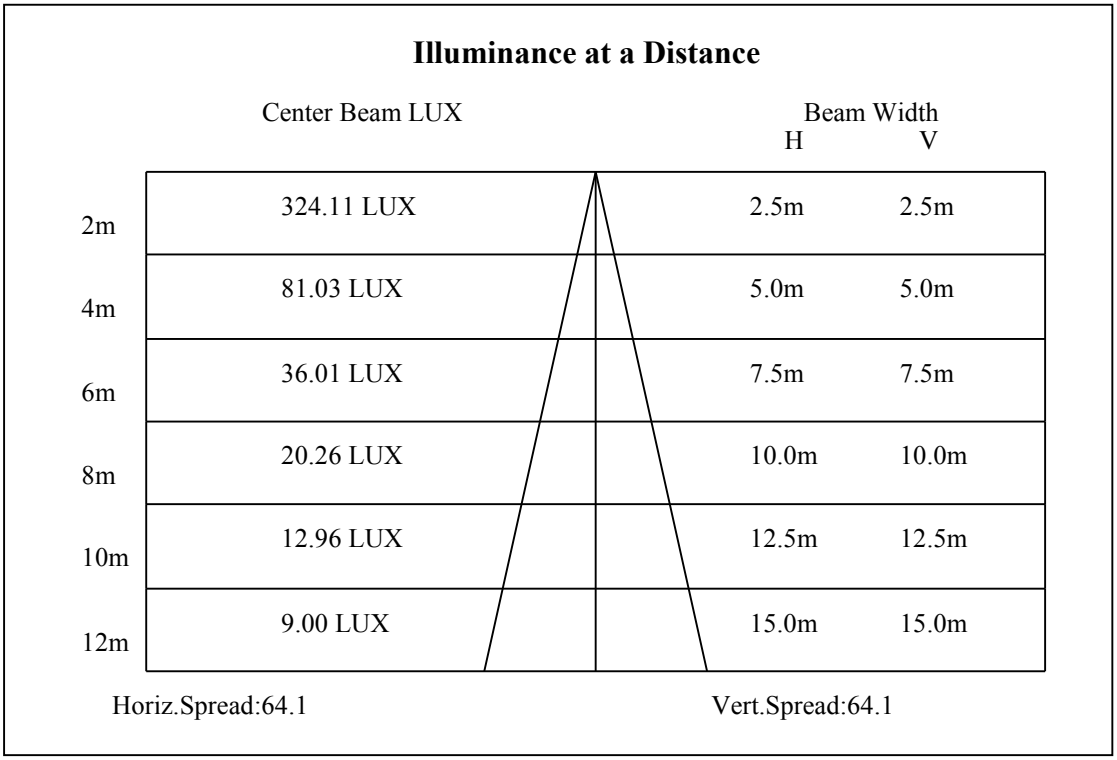
C0/C180:

C90/C270:

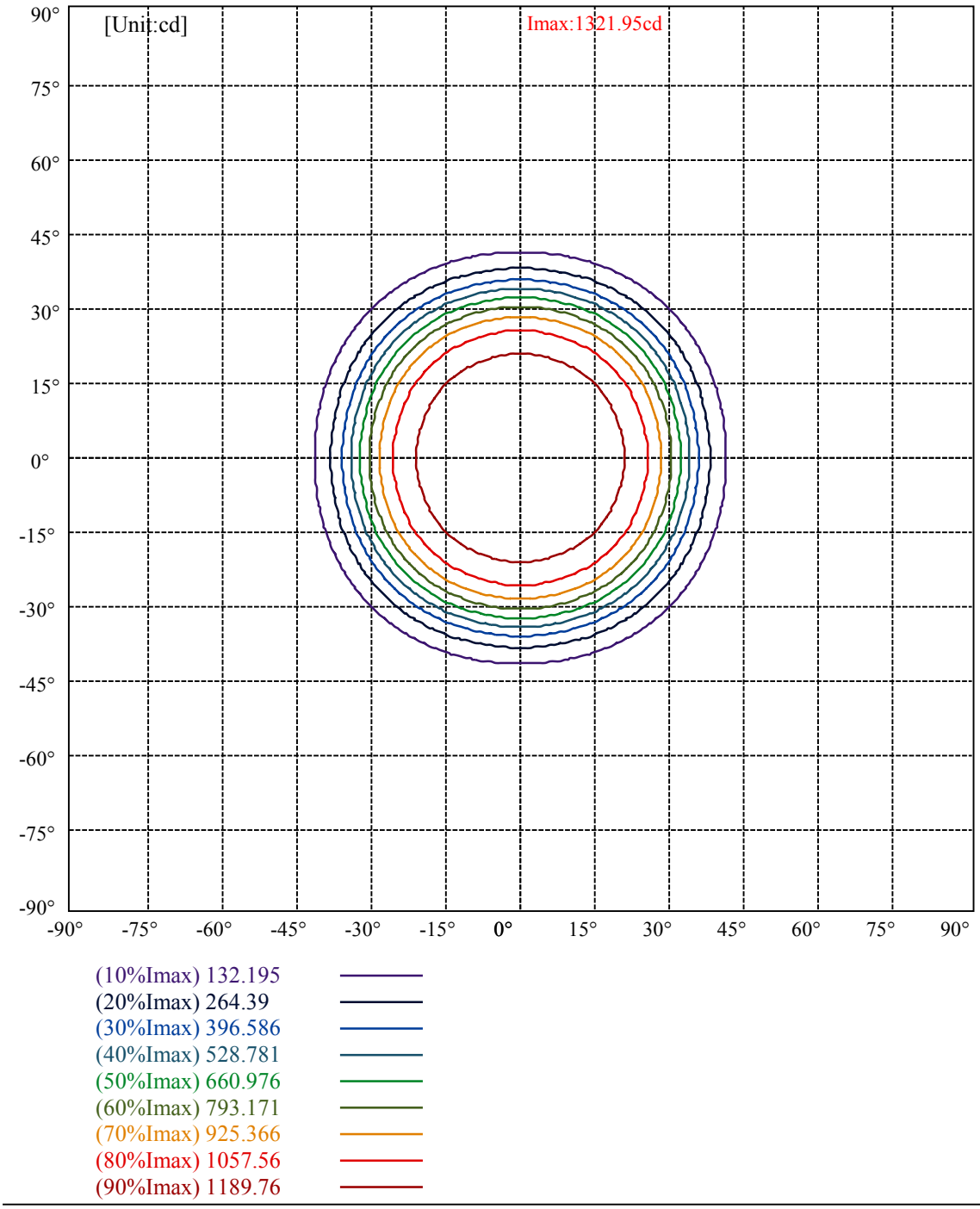
Field angle(10%Imax):C0/180Left:50.0 Right:32.0
:C90/270Left:50.0 Right:32.0

Beam Angle(50%Imax):C0/180Left:40.9 Right:22.9
:C90/270Left:40.9 Right:22.9

Lux distance Curve



ISO-Intensity(V-H)



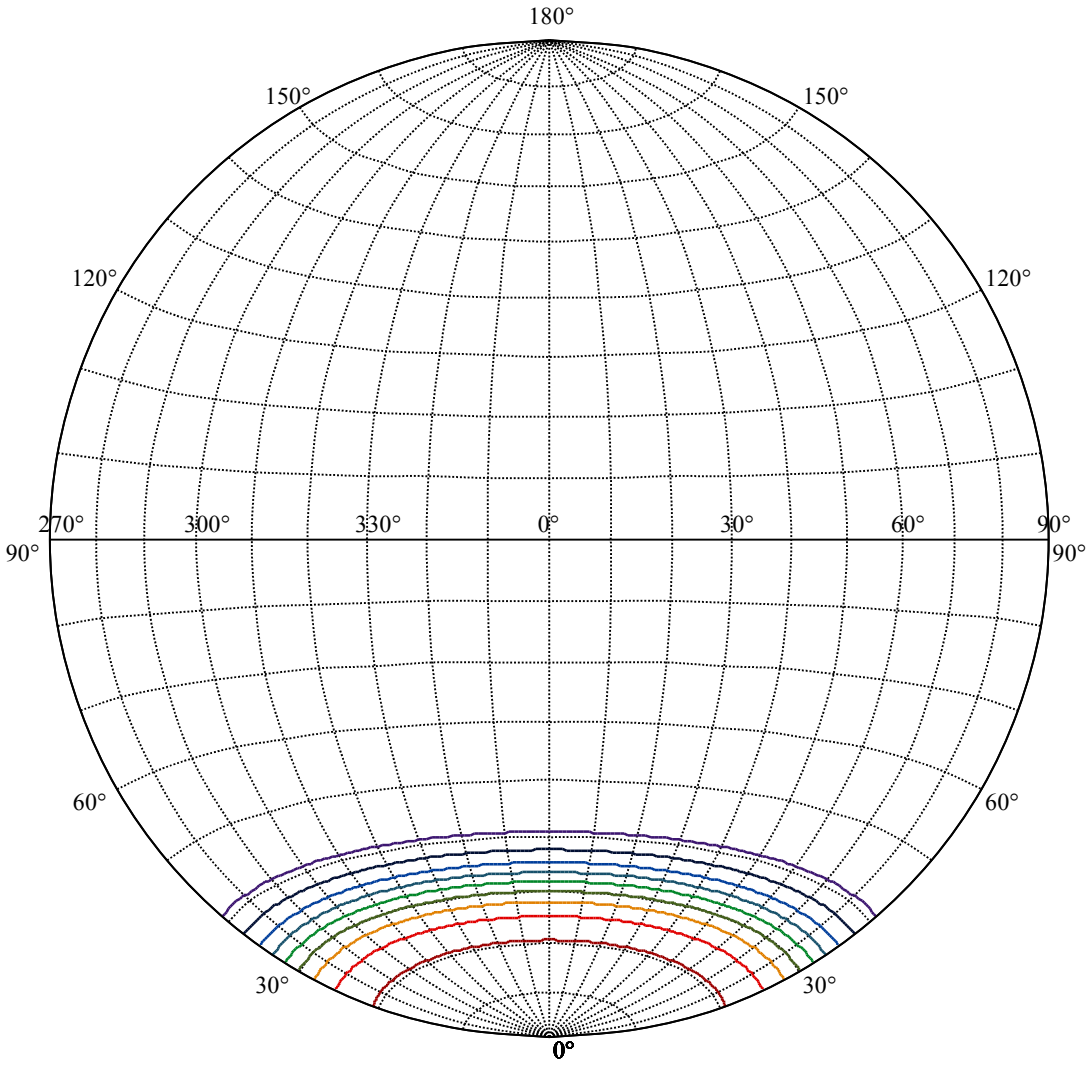
(10%Imax) 132.195
(20%Imax) 264.39
(30%Imax) 396.586
(40%Imax) 528.781
(50%Imax) 660.976
(60%Imax) 793.171
(70%Imax) 925.366
(80%Imax) 1057.56
(90%Imax) 1189.76

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/2/27
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:1321.95

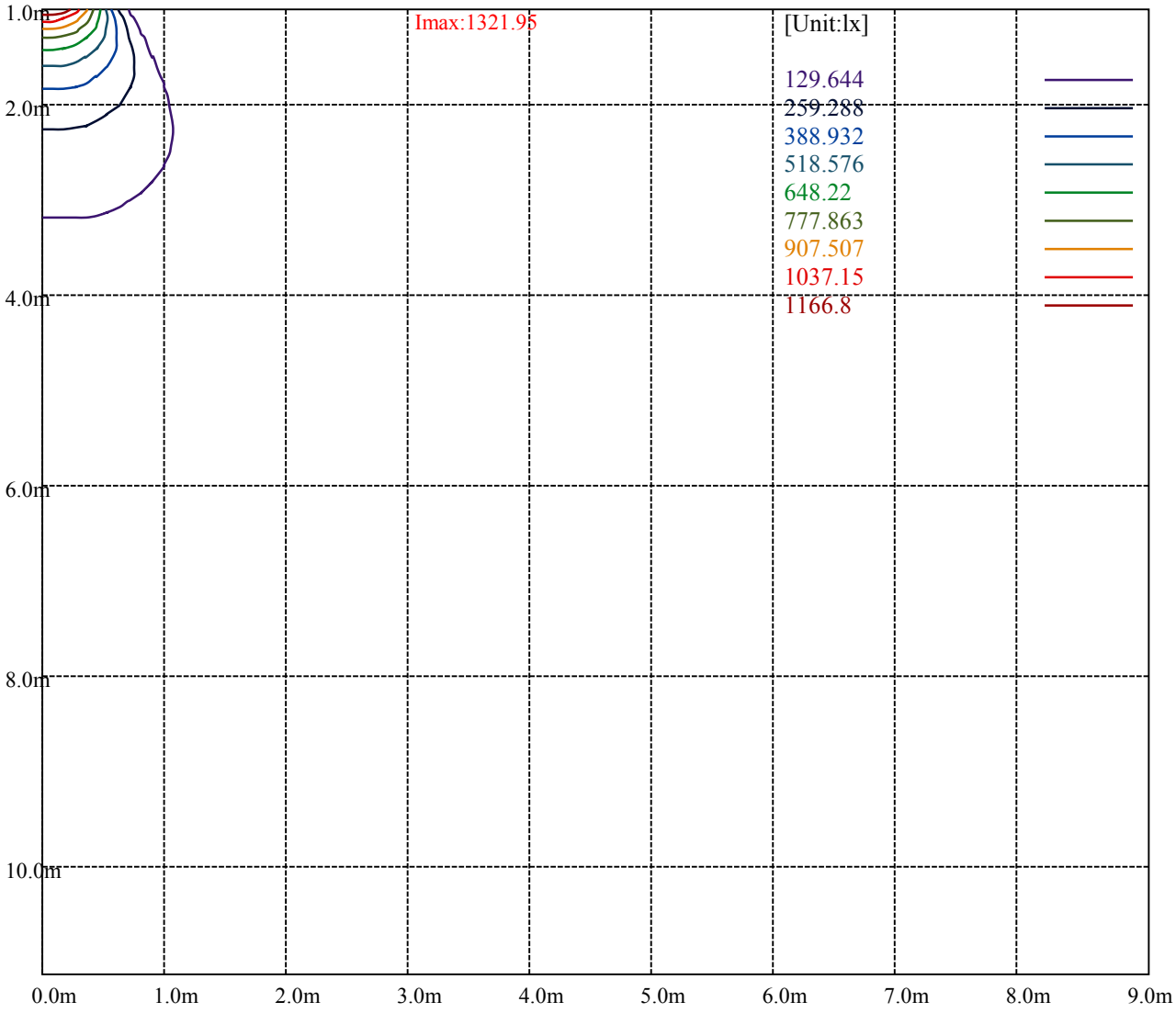
(10%Imax) 132.195
(20%Imax) 264.39
(30%Imax) 396.586
(40%Imax) 528.781
(50%Imax) 660.976
(60%Imax) 793.171
(70%Imax) 925.366
(80%Imax) 1057.56
(90%Imax) 1189.76

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/2/27
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/2/27
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

NT NT 62-0220

Luminance Limitting Curve(no luminous side)

Luminance Table

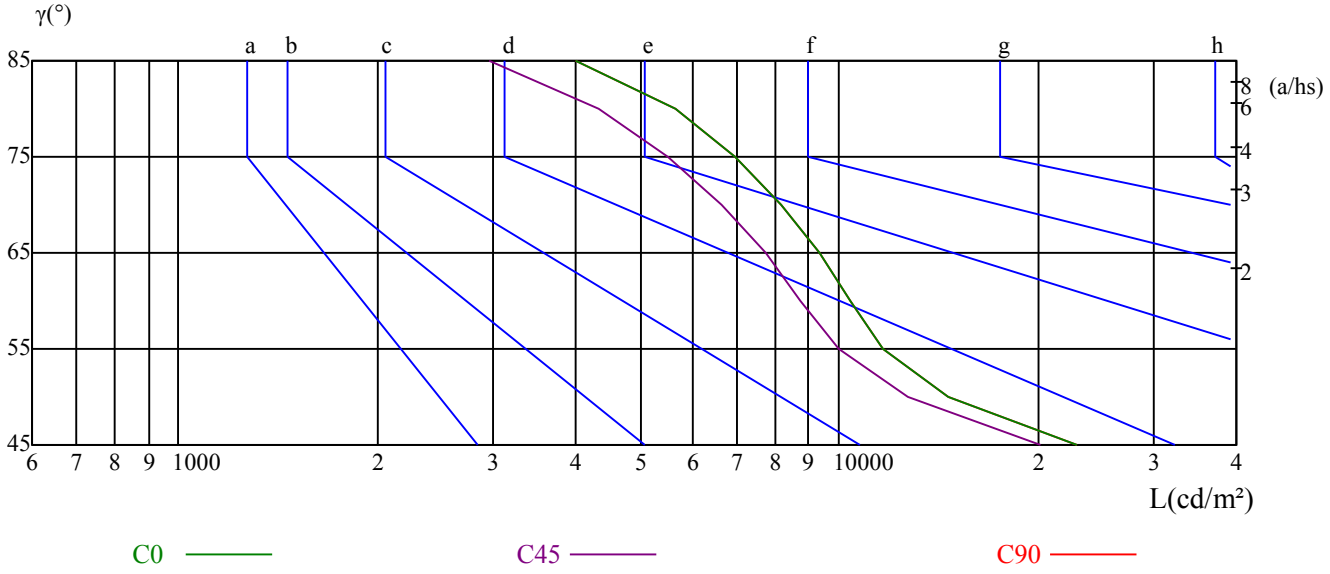
γ	45	50	55	60	65	70	75	80	85
C0	22909	14634	11700	10417	9364	8184	6963	5639	3983
C45	20196	12718	10013	8768	7738	6624	5501	4328	2949
C90	22909	14634	11700	10417	9364	8184	6963	5639	3983

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
19003	19003	19003	19437	19437	19437	25833	25833	25833

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

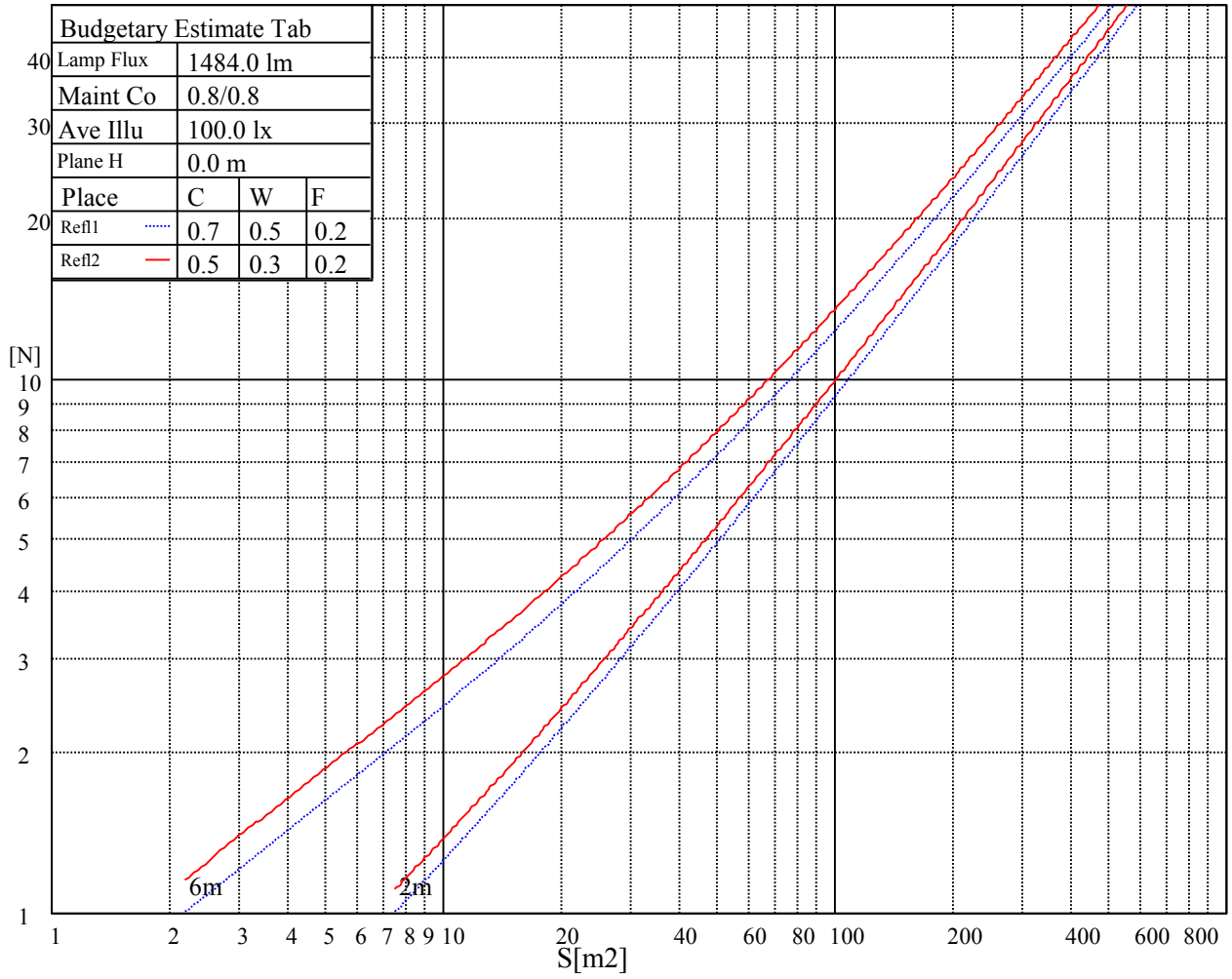


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	19.07	20.08	19.43	20.39	20.71	18.25	19.27	18.62	19.58	19.89
	3H	19.39	20.29	19.77	20.62	20.97	18.58	19.48	18.97	19.82	20.17
	4H	19.58	20.42	19.98	20.77	21.14	18.78	19.62	19.18	19.97	20.34
	6H	19.81	20.58	20.23	20.95	21.35	19.00	19.76	19.41	20.14	20.54
	8H	19.88	20.61	20.30	20.99	21.40	19.06	19.79	19.48	20.18	20.58
	12H	19.92	20.62	20.35	21.01	21.43	19.10	19.79	19.53	20.19	20.61
4H	2H	18.98	19.81	19.38	20.17	20.53	18.22	19.05	18.62	19.41	19.77
	3H	19.44	20.14	19.86	20.53	20.95	18.71	19.41	19.13	19.80	20.22
	4H	19.80	20.40	20.23	20.83	21.27	19.07	19.68	19.51	20.10	20.55
	6H	20.11	20.65	20.59	21.10	21.55	19.38	19.92	19.85	20.37	20.82
	8H	20.27	20.76	20.75	21.22	21.69	19.53	20.02	20.01	20.48	20.96
	12H	20.39	20.85	20.88	21.30	21.82	19.64	20.10	20.13	20.56	21.07
8H	4H	19.82	20.31	20.30	20.77	21.25	19.15	19.64	19.63	20.10	20.57
	6H	20.25	20.66	20.76	21.14	21.65	19.58	19.99	20.08	20.47	20.98
	8H	20.53	20.87	21.06	21.39	21.89	19.86	20.20	20.39	20.72	21.22
	12H	20.73	21.00	21.28	21.52	22.04	20.05	20.32	20.59	20.84	21.36
12H	4H	19.80	20.26	20.29	20.71	21.23	19.14	19.60	19.63	20.05	20.57
	6H	20.31	20.66	20.85	21.18	21.67	19.66	20.00	20.19	20.52	21.02
	8H	20.59	20.86	21.13	21.37	21.89	19.94	20.21	20.48	20.72	21.24

Variation with the observer position at spacings:		
S = 1.0H	4.7/-4.3	4.7/-4.3
S = 1.5H	7.0/-3.9	7.0/-3.9
S = 2.0H	8.7/-3.6	8.7/-3.6
Standard tables:	BK2	BK2
Uncorrected UGR	2.8	2.8

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

Budgetary Estimate Table



Equipment: GMS 1800
Temperature(°C): 25.0

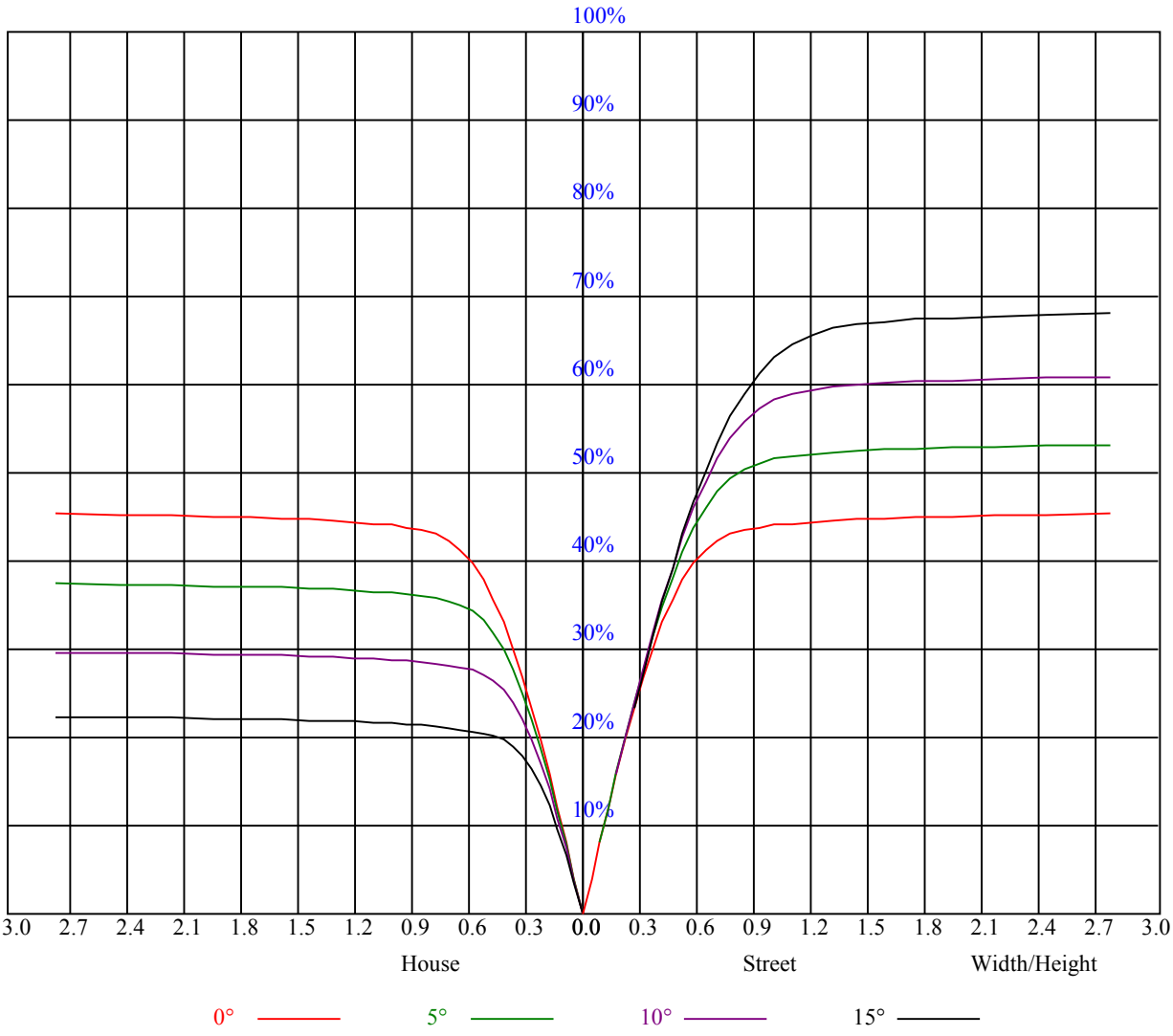
Date: 2025/2/27
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

Utilization factor table for indoor luminaire

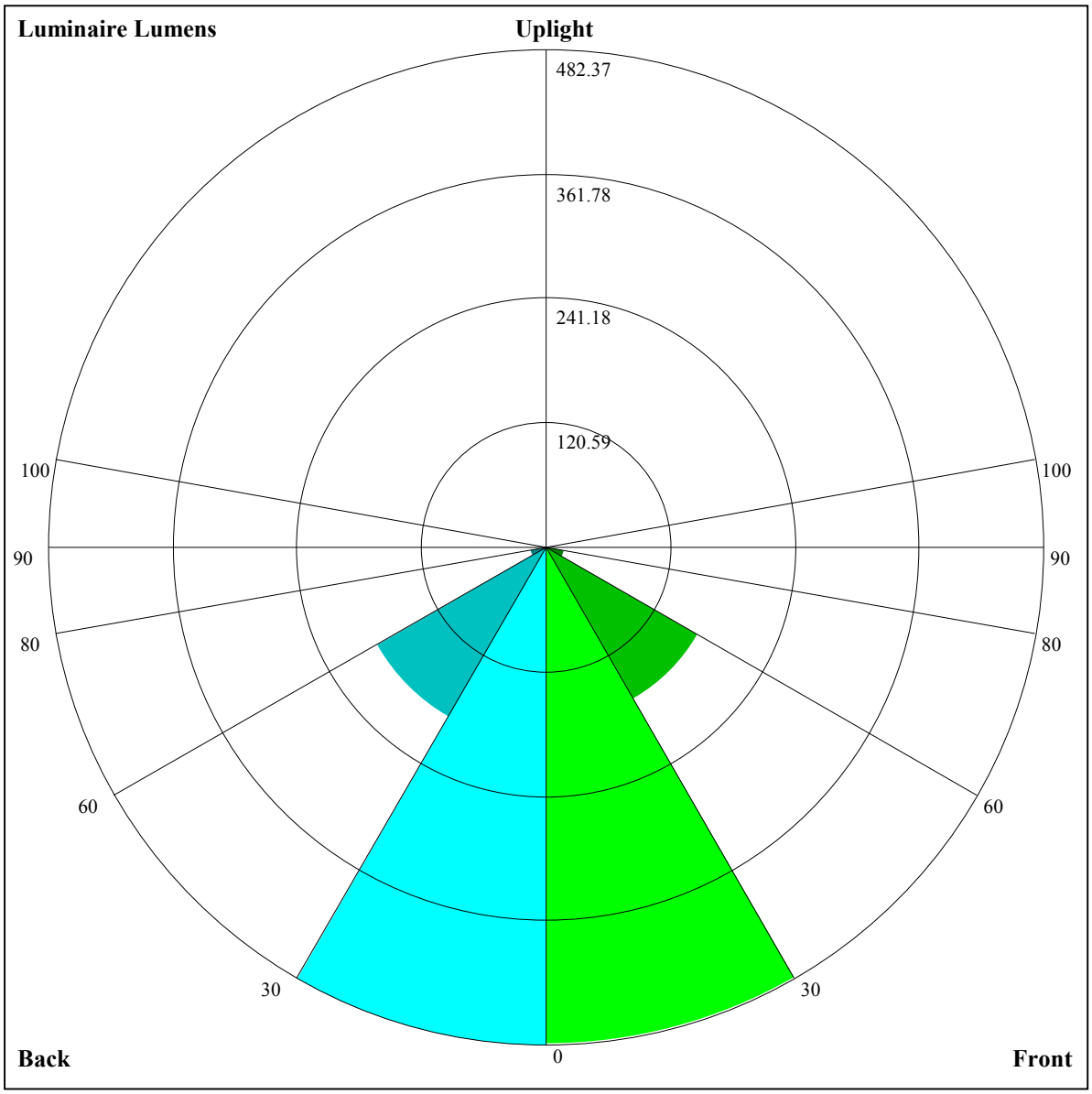
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.09	1.09	1.09	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.01	0.98	0.96	0.99	0.96	0.94	0.95	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.93	0.89	0.86	0.92	0.88	0.85	0.89	0.86	0.83	0.86	0.83	0.81	0.83	0.81	0.80	0.78
3	0.87	0.82	0.78	0.85	0.81	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.72
4	0.81	0.76	0.71	0.80	0.75	0.71	0.78	0.74	0.70	0.76	0.72	0.69	0.74	0.71	0.69	0.67
5	0.75	0.70	0.66	0.75	0.69	0.66	0.73	0.68	0.65	0.71	0.68	0.64	0.70	0.67	0.64	0.62
6	0.71	0.65	0.61	0.70	0.65	0.61	0.69	0.64	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.58
7	0.66	0.61	0.57	0.66	0.60	0.57	0.65	0.60	0.56	0.64	0.59	0.56	0.62	0.59	0.56	0.54
8	0.63	0.57	0.53	0.62	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.52	0.51
9	0.59	0.53	0.50	0.59	0.53	0.50	0.58	0.53	0.49	0.57	0.52	0.49	0.56	0.52	0.49	0.48
10	0.56	0.50	0.47	0.55	0.50	0.47	0.55	0.50	0.46	0.54	0.49	0.46	0.53	0.49	0.46	0.45

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2025/2/27	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.30

LCS Graph



Luminaire Lumens:

FL=480.91,FM=169.38,FH=17.85,FVH=3.73

BL=482.37,BM=189.84,BH=15.59,BVH=2.54

UL=0,UH=0

BUG Rating:B1-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	1300.97	1304.17	1308.96	1316.42	1325.48	1332.94	1337.21	1337.74	1337.74
45.0	1295.64	1297.77	1299.90	1300.97	1304.70	1312.16	1317.49	1318.02	1316.96
90.0	1296.17	1297.77	1300.97	1306.30	1312.69	1315.89	1319.09	1316.96	1315.89
135.0	1292.98	1292.98	1294.04	1297.24	1302.03	1310.56	1319.62	1324.95	1328.15
180.0	1300.97	1297.77	1297.77	1299.90	1299.90	1302.03	1305.76	1308.96	1313.76
225.0	1295.64	1295.11	1294.57	1294.57	1293.51	1293.51	1294.57	1295.64	1297.24
270.0	1296.17	1294.04	1296.17	1296.71	1298.84	1302.03	1306.30	1312.16	1320.69
315.0	1292.98	1295.64	1298.84	1304.17	1310.03	1318.02	1328.68	1337.21	1344.67
360.0	1300.97	1304.17	1308.96	1316.42	1325.48	1332.94	1337.21	1337.74	1337.74

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1336.14	1331.34	1324.42	1314.82	1305.23	1297.77	1286.05	1271.13	1254.61
45.0	1314.29	1309.50	1299.90	1290.84	1283.38	1264.73	1255.14	1238.62	1212.51
90.0	1313.76	1307.90	1299.90	1290.84	1279.65	1265.26	1249.81	1234.89	1218.37
135.0	1328.15	1326.55	1323.35	1318.02	1310.56	1301.50	1290.84	1278.59	1266.86
180.0	1315.89	1312.16	1308.43	1305.23	1296.71	1289.24	1277.52	1266.33	1254.07
225.0	1294.57	1287.11	1277.52	1266.86	1253.01	1243.42	1230.63	1216.77	1203.98
270.0	1328.15	1334.01	1335.61	1336.14	1335.07	1332.94	1327.61	1319.62	1310.56
315.0	1344.67	1346.80	1345.20	1342.53	1337.74	1330.81	1322.28	1313.76	1303.63
360.0	1336.14	1331.34	1324.42	1314.82	1305.23	1297.77	1286.05	1271.13	1254.61

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1236.49	1217.30	1195.99	1172.54	1148.03	1137.37	1052.64	1042.78	988.90
45.0	1201.32	1181.07	1156.55	1130.44	1103.26	1073.42	1038.25	996.68	942.86
90.0	1199.72	1179.47	1154.42	1127.78	1045.44	1045.44	1035.42	978.94	916.85
135.0	1253.01	1237.02	1221.03	1194.92	1176.27	1150.69	1119.78	1081.95	1033.45
180.0	1240.22	1227.96	1214.11	1198.65	1180.00	1160.28	1138.43	1112.86	1083.01
225.0	1187.99	1170.94	1151.22	1130.44	1109.12	1053.28	1053.28	1041.34	1009.74
270.0	1304.17	1293.51	1280.19	1264.73	1249.28	1232.76	1214.11	1193.32	1168.28
315.0	1290.84	1276.99	1261.53	1249.28	1218.37	1194.39	1178.40	1147.49	1054.34
360.0	1236.49	1217.30	1195.99	1172.54	1148.03	1137.37	1052.64	1042.78	988.90

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	927.78	873.48	801.16	708.86	644.60	562.37	479.13	400.15	324.64
45.0	884.77	821.89	755.28	684.94	608.20	533.06	455.26	398.77	315.10
90.0	849.07	779.63	703.16	622.85	541.43	461.28	386.78	315.80	254.46
135.0	976.97	911.95	839.48	762.74	682.27	600.74	518.14	438.74	362.53
180.0	1047.84	1001.48	946.59	911.42	822.96	781.39	708.92	600.21	550.65
225.0	974.41	931.94	880.94	825.09	764.87	700.07	629.04	556.56	483.39
270.0	1139.50	1106.46	1067.03	1012.67	950.85	879.44	804.31	723.84	639.11
315.0	1054.34	1008.41	945.26	875.55	799.72	719.57	635.54	550.81	468.26
360.0	927.78	873.48	801.16	708.86	644.60	562.37	479.13	400.15	324.64

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	259.47	203.25	158.54	123.90	97.95	79.94	67.57	59.10	53.29
45.0	267.68	267.68	169.94	133.49	106.90	86.54	71.94	61.82	54.68
90.0	202.34	160.35	126.62	101.41	82.55	68.69	59.05	53.29	47.06
135.0	293.79	281.53	281.53	159.98	126.51	101.09	82.76	68.69	59.10
180.0	470.18	392.91	319.90	279.93	279.93	158.38	126.46	101.89	84.09
225.0	409.80	342.02	278.81	223.92	177.94	140.85	112.87	99.92	76.31
270.0	588.48	469.64	391.84	348.14	280.47	280.47	166.53	131.15	104.45
315.0	386.03	313.72	274.02	216.30	170.21	132.21	104.24	84.14	70.02
360.0	259.47	203.25	158.54	123.90	97.95	79.94	67.57	59.10	53.29

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	48.87	44.98	41.46	38.37	35.86	34.59	32.40	31.23	30.64
45.0	49.67	45.40	41.94	38.95	36.45	34.27	33.20	31.71	30.06
90.0	43.75	40.18	37.09	34.37	32.13	30.48	29.10	27.98	26.86
135.0	52.12	46.90	42.63	38.85	35.81	33.31	31.28	29.79	28.67
180.0	70.82	61.23	55.53	48.97	44.28	40.87	37.14	34.21	31.81
225.0	69.33	59.84	53.24	48.01	43.64	39.91	36.45	33.52	31.12
270.0	84.73	70.45	60.75	53.82	48.97	44.82	41.30	38.32	35.76
315.0	60.22	53.40	48.44	44.44	40.66	37.52	34.80	32.56	30.75
360.0	48.87	44.98	41.46	38.37	35.86	34.59	32.40	31.23	30.64

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	29.42	28.94	28.03	27.12	26.27	25.53	24.83	24.19	23.50
45.0	29.47	28.56	27.71	26.91	26.06	25.31	24.73	24.09	23.50
90.0	25.90	24.94	23.93	23.13	22.44	21.80	21.26	20.68	20.14
135.0	27.82	27.02	26.22	25.15	24.25	23.39	22.38	21.80	21.10
180.0	29.95	28.51	27.39	26.38	25.37	24.35	23.39	22.44	21.42
225.0	29.36	27.92	26.70	25.53	24.62	23.66	22.65	21.74	20.94
270.0	33.63	31.97	31.23	30.11	28.83	28.30	27.34	26.33	25.37
315.0	29.42	28.35	27.34	26.80	25.58	24.73	24.19	23.13	22.81
360.0	29.42	28.94	28.03	27.12	26.27	25.53	24.83	24.19	23.50

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.81	22.01	21.32	20.62	19.88	19.18	18.44	17.80	17.37
45.0	22.70	22.06	21.37	20.68	19.93	19.29	18.65	17.96	17.32
90.0	19.56	19.13	18.28	17.75	17.32	16.79	16.15	15.51	14.97
135.0	20.30	19.45	18.60	17.85	17.05	16.15	15.35	14.60	13.86
180.0	20.57	19.66	18.70	17.64	16.63	15.99	14.60	13.59	13.00
225.0	20.09	19.40	18.33	17.64	16.73	15.72	14.71	13.86	12.90
270.0	24.51	23.77	22.91	22.06	21.26	20.41	19.45	18.49	17.53
315.0	22.28	21.69	21.10	20.46	19.93	19.34	18.65	18.01	17.37
360.0	22.81	22.01	21.32	20.62	19.88	19.18	18.44	17.80	17.37

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.41	15.77	15.40	14.49	14.07	13.38	12.68	11.99	11.30
45.0	16.73	16.15	15.35	14.81	14.23	13.59	12.90	12.26	11.62
90.0	14.39	13.80	13.22	12.63	12.04	11.40	10.82	10.23	9.65
135.0	13.11	12.36	11.67	10.98	10.28	9.70	9.01	8.37	8.05
180.0	12.04	11.14	10.28	9.43	8.63	7.99	7.35	6.71	6.13
225.0	11.94	11.03	10.18	9.43	8.63	7.89	7.14	6.45	5.81
270.0	16.63	15.67	14.71	14.12	12.79	11.88	11.35	10.07	9.54
315.0	16.73	16.04	15.35	14.71	13.91	13.16	12.52	11.62	10.82
360.0	16.41	15.77	15.40	14.49	14.07	13.38	12.68	11.99	11.30

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.55	9.59	8.95	8.05	7.35	6.55	5.70	4.80	4.16
45.0	10.92	10.23	9.54	8.74	7.94	7.19	6.39	5.65	4.90
90.0	9.01	8.47	7.62	6.98	6.23	5.54	4.90	4.42	4.16
135.0	7.19	6.61	6.13	5.54	4.85	4.37	3.68	3.20	2.77
180.0	5.60	4.90	4.48	3.94	3.41	2.82	2.24	1.65	1.12
225.0	5.22	4.69	4.16	3.57	2.98	2.56	1.92	1.39	0.91
270.0	8.74	7.62	6.98	6.08	5.22	4.58	3.89	3.25	2.50
315.0	10.07	9.38	8.47	7.83	7.03	6.18	5.49	4.69	3.89
360.0	10.55	9.59	8.95	8.05	7.35	6.55	5.70	4.80	4.16

Intensity data(cd)

C/γ(°)	90.0
0.0	3.89
45.0	4.53
90.0	4.00
135.0	2.40
180.0	0.75
225.0	0.64
270.0	1.87
315.0	3.36
360.0	3.89