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: 1-1490-L
Luminaire: 92.70.427.00
Report No: 2024923-B017
Ballast type: AC

Test No: 2024923-C017	Voltage(V): 36.250
LampCAT: CITIZEN CLU028 LES9.8	Current(A): 0.360
Lamp flux(lm): 1715.0	Power (W): 13.050
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1375.64, Efficiency(%): 80.21% , Luminous Efficacy(lm/W): 105.41
Central intensity(cd): 3487.561, Maximum intensity(cd): 3487.561
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=34.6
[C90/270]Total=34.6
Field angle(10%Imax): [C0/180]Total=59.6
[C90/270]Total=59.6
Maximum s/h(1/2): C0_180=0.57 C90_270=0.57
Maximum s/h(1/4): C0_180=0.57 C90_270=0.57
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 80.21%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.918%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3487.561	0.000	0	0.00%	0.00%
1.0	3480.099	3.334	3.334	0.19%	0.24%
2.0	3465.468	9.969	13.303	0.58%	0.97%
3.0	3439.133	16.514	29.816	0.96%	2.17%
4.0	3399.777	22.892	52.708	1.33%	3.83%
5.0	3340.596	28.997	81.705	1.69%	5.94%
6.0	3272.710	34.755	116.46	2.03%	8.47%
7.0	3188.145	40.102	156.562	2.34%	11.38%
8.0	3086.901	44.909	201.472	2.62%	14.65%
9.0	2979.732	49.167	250.638	2.87%	18.22%
10.0	2845.788	52.719	303.357	3.07%	22.05%
11.0	2722.013	55.634	358.991	3.24%	26.10%
12.0	2576.804	57.924	416.915	3.38%	30.31%
13.0	2427.206	59.385	476.3	3.46%	34.62%
14.0	2270.512	60.130	536.43	3.51%	38.99%
15.0	2115.135	60.208	596.638	3.51%	43.37%
16.0	1953.540	59.617	656.256	3.48%	47.71%
17.0	1787.043	58.251	714.506	3.40%	51.94%
18.0	1624.863	56.255	770.761	3.28%	56.03%
19.0	1418.520	52.949	823.71	3.09%	59.88%
20.0	1287.810	49.533	873.243	2.89%	63.48%
21.0	1194.057	47.657	920.9	2.78%	66.94%
22.0	1076.660	45.631	966.531	2.66%	70.26%
23.0	968.057	42.904	1009.435	2.50%	73.38%
24.0	864.048	40.056	1049.491	2.34%	76.29%
25.0	762.885	36.993	1086.484	2.16%	78.98%
26.0	666.879	33.750	1120.234	1.97%	81.43%
27.0	573.477	30.346	1150.58	1.77%	83.64%
28.0	489.343	26.908	1177.488	1.57%	85.60%
29.0	408.260	23.484	1200.972	1.37%	87.30%
30.0	333.615	20.030	1221.002	1.17%	88.76%
31.0	274.368	16.919	1237.921	0.99%	89.99%
32.0	238.589	14.696	1252.617	0.86%	91.06%
33.0	189.840	12.622	1265.239	0.74%	91.97%
34.0	123.987	9.497	1274.736	0.55%	92.66%
35.0	98.830	6.920	1281.656	0.40%	93.17%
36.0	82.685	5.779	1287.435	0.34%	93.59%
37.0	71.383	5.025	1292.46	0.29%	93.95%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	63.007	4.486	1296.946	0.26%	94.28%
39.0	56.460	4.078	1301.024	0.24%	94.58%
40.0	51.083	3.751	1304.774	0.22%	94.85%
41.0	45.962	3.456	1308.23	0.20%	95.10%
42.0	42.100	3.199	1311.43	0.19%	95.33%
43.0	38.391	2.982	1314.411	0.17%	95.55%
44.0	35.362	2.784	1317.195	0.16%	95.75%
45.0	32.721	2.617	1319.811	0.15%	95.94%
46.0	30.176	2.460	1322.271	0.14%	96.12%
47.0	27.944	2.312	1324.583	0.13%	96.29%
48.0	26.152	2.187	1326.77	0.13%	96.45%
49.0	24.623	2.085	1328.855	0.12%	96.60%
50.0	22.977	1.985	1330.839	0.12%	96.74%
51.0	21.661	1.889	1332.728	0.11%	96.88%
52.0	20.578	1.812	1334.54	0.11%	97.01%
53.0	19.583	1.747	1336.287	0.10%	97.14%
54.0	18.639	1.685	1337.972	0.10%	97.26%
55.0	17.732	1.624	1339.596	0.09%	97.38%
56.0	17.015	1.570	1341.166	0.09%	97.49%
57.0	16.313	1.524	1342.69	0.09%	97.60%
58.0	15.655	1.478	1344.168	0.09%	97.71%
59.0	15.018	1.434	1345.602	0.08%	97.82%
60.0	14.418	1.391	1346.993	0.08%	97.92%
61.0	13.863	1.350	1348.342	0.08%	98.02%
62.0	13.263	1.307	1349.649	0.08%	98.11%
63.0	12.758	1.266	1350.915	0.07%	98.20%
64.0	12.275	1.228	1352.143	0.07%	98.29%
65.0	11.851	1.194	1353.337	0.07%	98.38%
66.0	11.463	1.163	1354.5	0.07%	98.46%
67.0	11.061	1.133	1355.633	0.07%	98.55%
68.0	10.724	1.104	1356.737	0.06%	98.63%
69.0	10.417	1.079	1357.815	0.06%	98.70%
70.0	10.124	1.055	1358.87	0.06%	98.78%
71.0	9.817	1.031	1359.901	0.06%	98.86%
72.0	9.546	1.007	1360.908	0.06%	98.93%
73.0	9.298	0.985	1361.893	0.06%	99.00%
74.0	9.042	0.964	1362.857	0.06%	99.07%
75.0	8.808	0.943	1363.8	0.05%	99.14%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.566	0.922	1364.722	0.05%	99.21%
77.0	8.347	0.902	1365.624	0.05%	99.27%
78.0	8.120	0.881	1366.506	0.05%	99.34%
79.0	7.893	0.860	1367.366	0.05%	99.40%
80.0	7.666	0.839	1368.205	0.05%	99.46%
81.0	7.484	0.819	1369.024	0.05%	99.52%
82.0	7.301	0.802	1369.826	0.05%	99.58%
83.0	7.118	0.784	1370.61	0.05%	99.63%
84.0	6.950	0.766	1371.376	0.04%	99.69%
85.0	6.774	0.749	1372.125	0.04%	99.74%
86.0	6.642	0.733	1372.858	0.04%	99.80%
87.0	6.481	0.718	1373.577	0.04%	99.85%
88.0	6.342	0.702	1374.279	0.04%	99.90%
89.0	6.196	0.687	1374.966	0.04%	99.95%
90.0	6.116	0.675	1375.641	0.04%	100.00%

Zonal flux distribution table

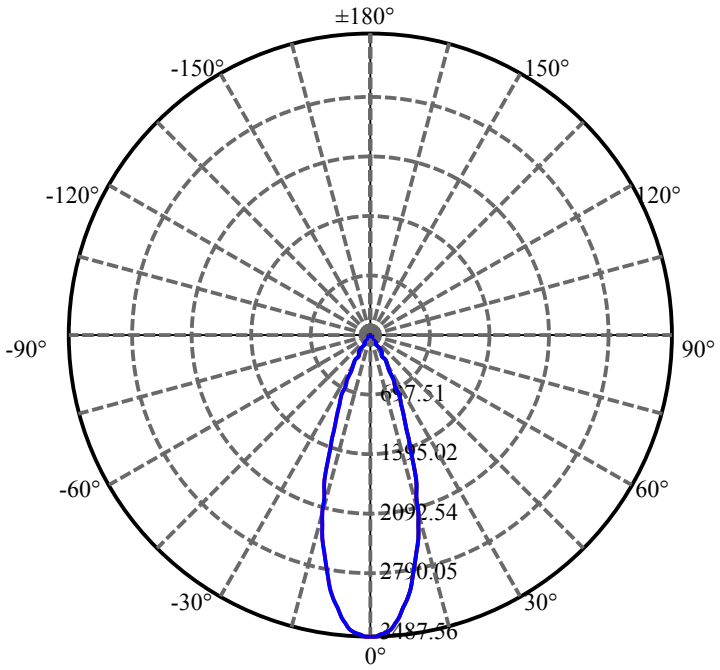
ZONAL LUMEN SUMMARY

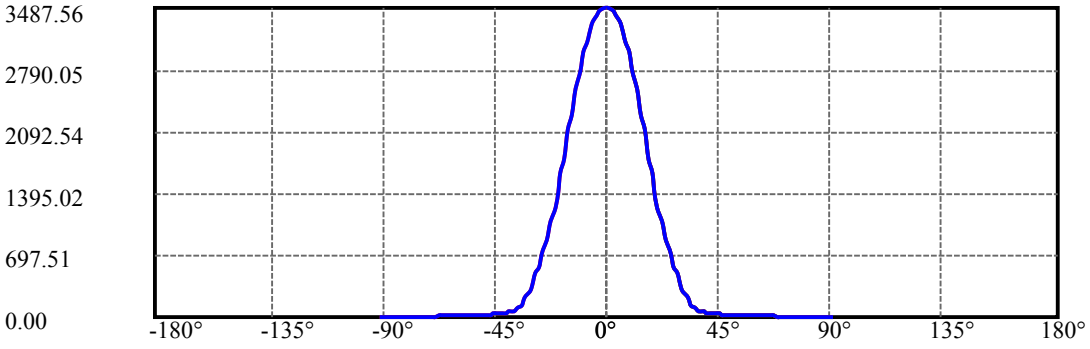
Zone	Lumens	%Lamp	%Fixt
0-30	1221.00	71.20%	88.76%
0-40	1304.77	76.08%	94.85%
0-60	1346.99	78.54%	97.92%
0-90	1374.97	80.17%	99.95%
0-120	1374.97	80.17%	99.95%
0-180	1375.64	80.21%	100.00%
60-90	27.97	1.63%	2.03%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.42	1100.51	64.17%	80.00%

ZONAL LUMEN SUMMARY

0-10	303.36
10-20	569.89
20-30	347.76
30-40	83.77
40-50	26.06
50-60	16.15
60-70	11.88
70-80	9.33
80-90	6.76
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):

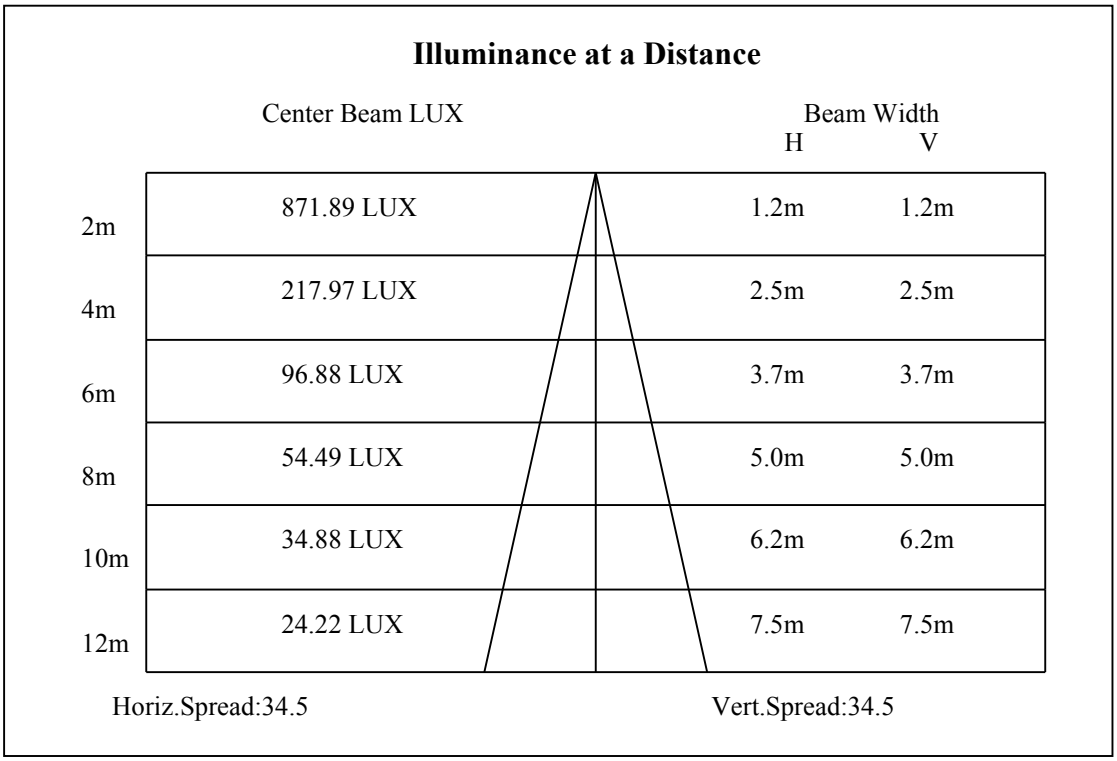
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:29.8 Right:29.8
:C90/270Left:29.8 Right:29.8

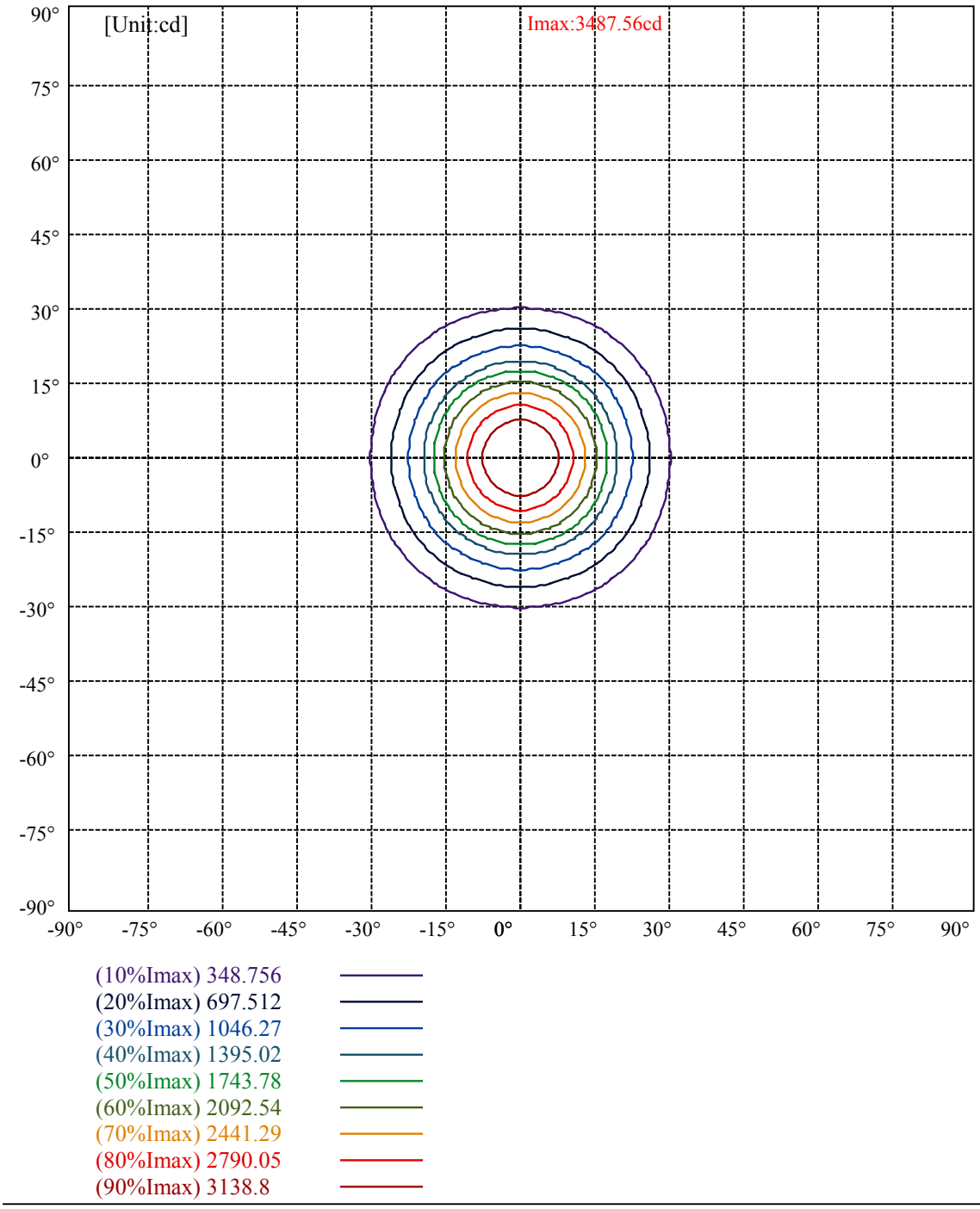
Beam Angle(50%Imax):C0/180Left:17.3 Right:17.3
:C90/270Left:17.3 Right:17.3

Lux distance Curve



Equipment: GMS1980 Date: 2024/9/23 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

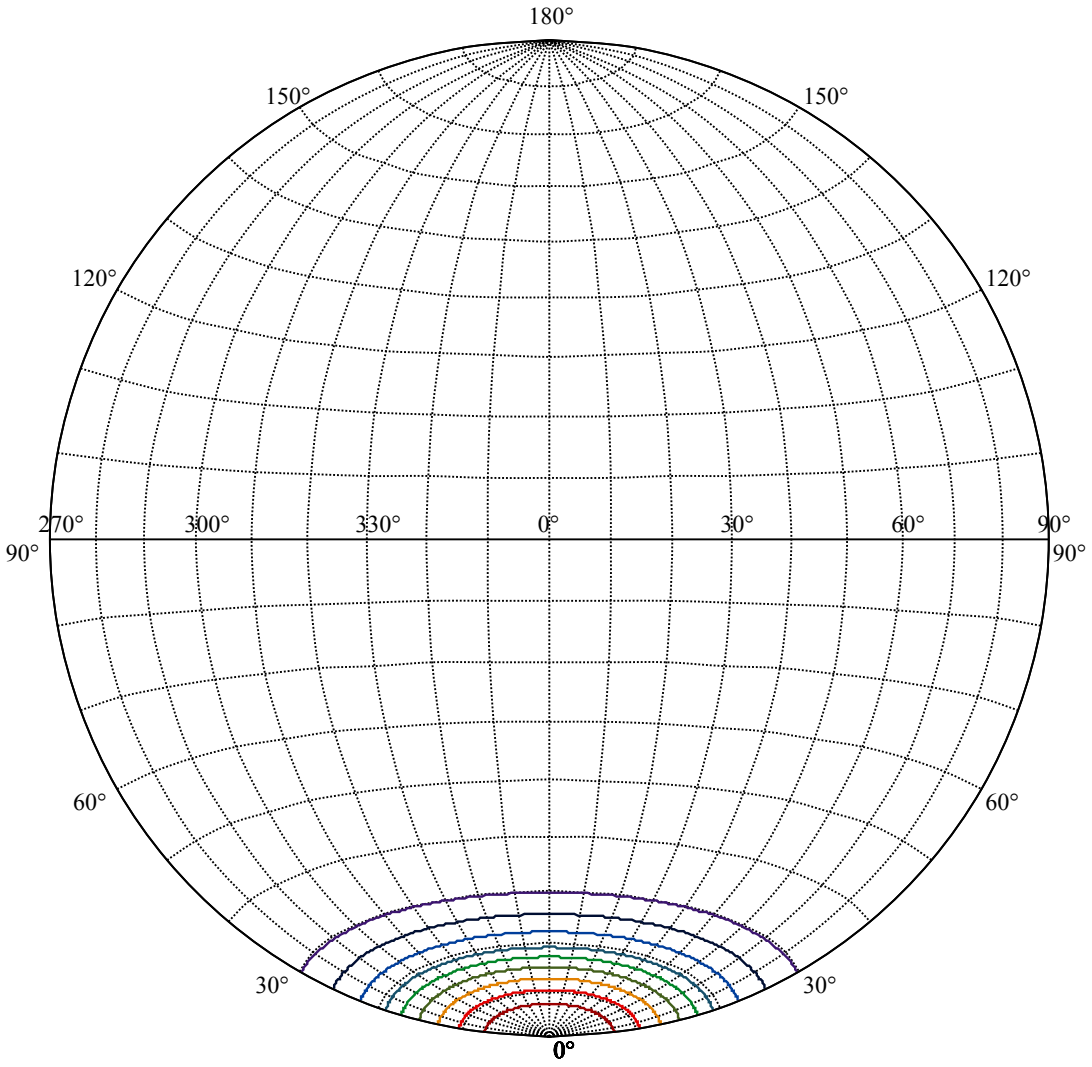


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/9/23
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:3487.56

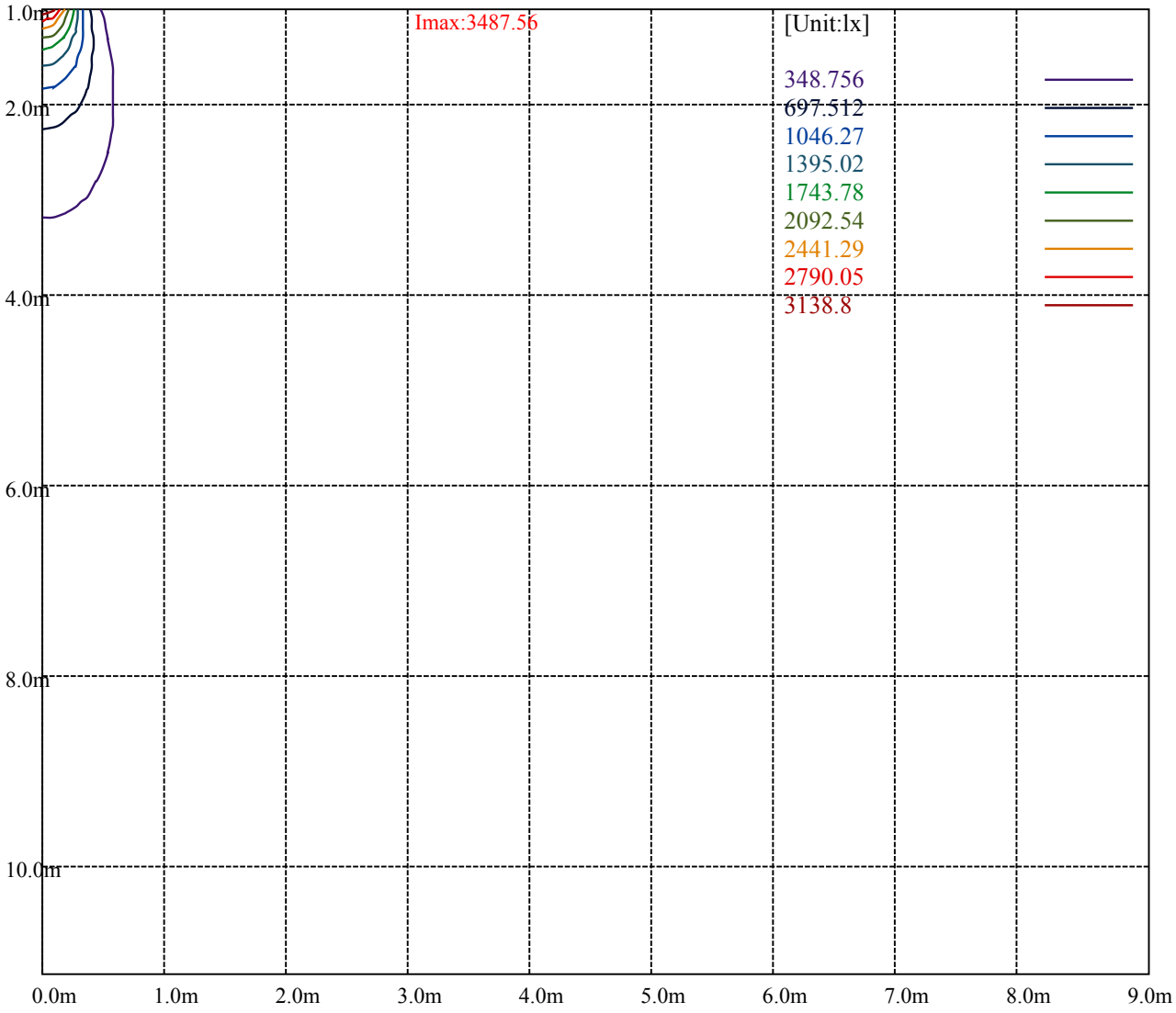
(10%Imax) 348.756
(20%Imax) 697.512
(30%Imax) 1046.27
(40%Imax) 1395.02
(50%Imax) 1743.78
(60%Imax) 2092.54
(70%Imax) 2441.29
(80%Imax) 2790.05
(90%Imax) 3138.8

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/9/23
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/9/23
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 1-1490-L

Luminance Limitting Curve(no luminous side)

Luminance Table

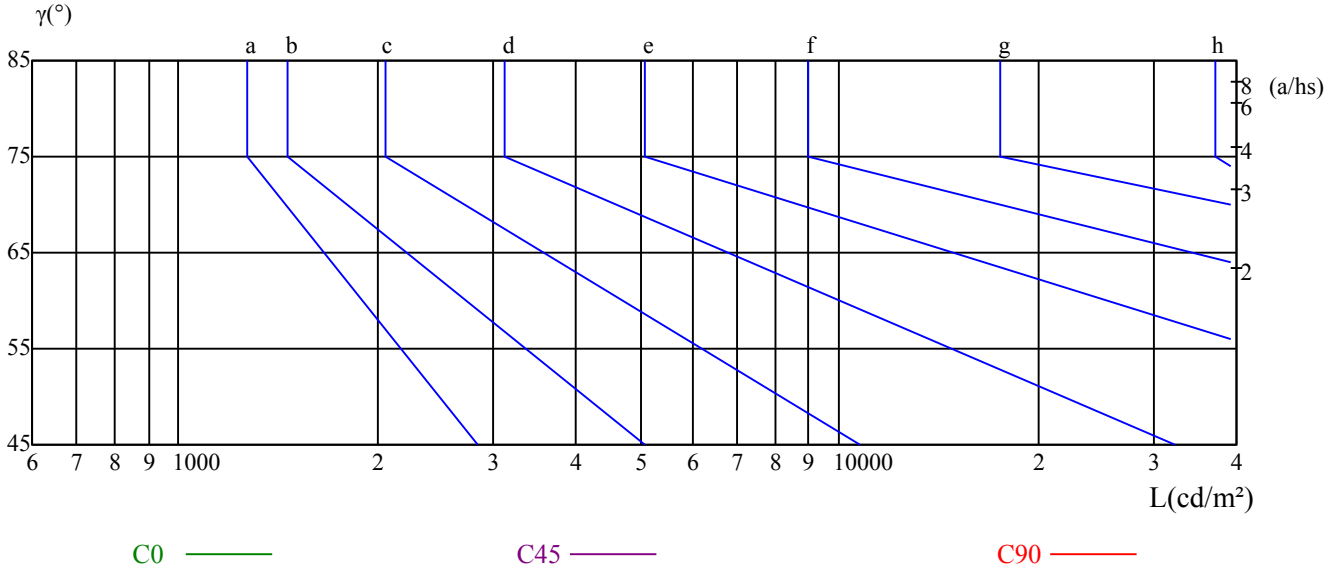
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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



Equipment: GMS1980
Temperature(°C): 25.0

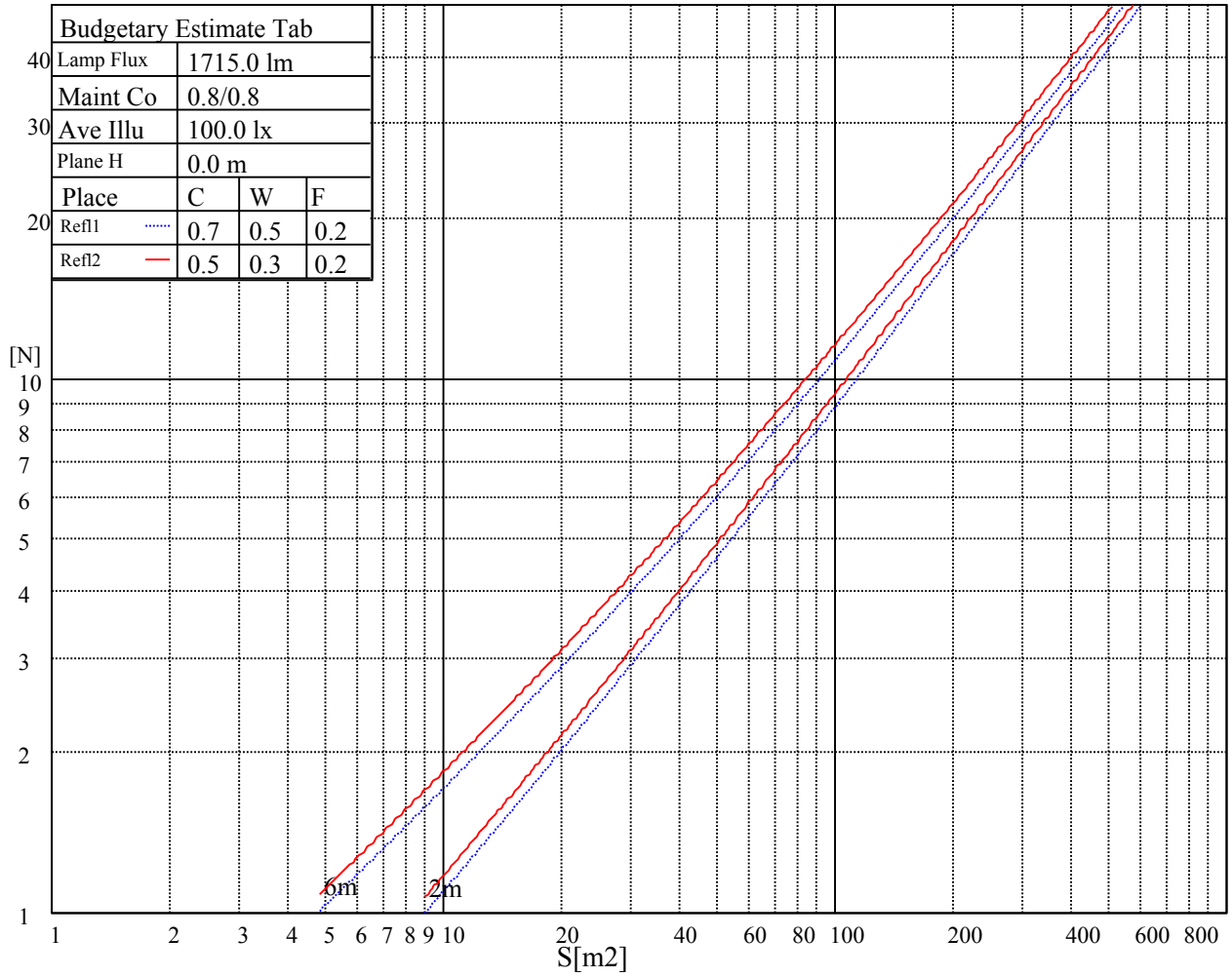
Date: 2024/9/23
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

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

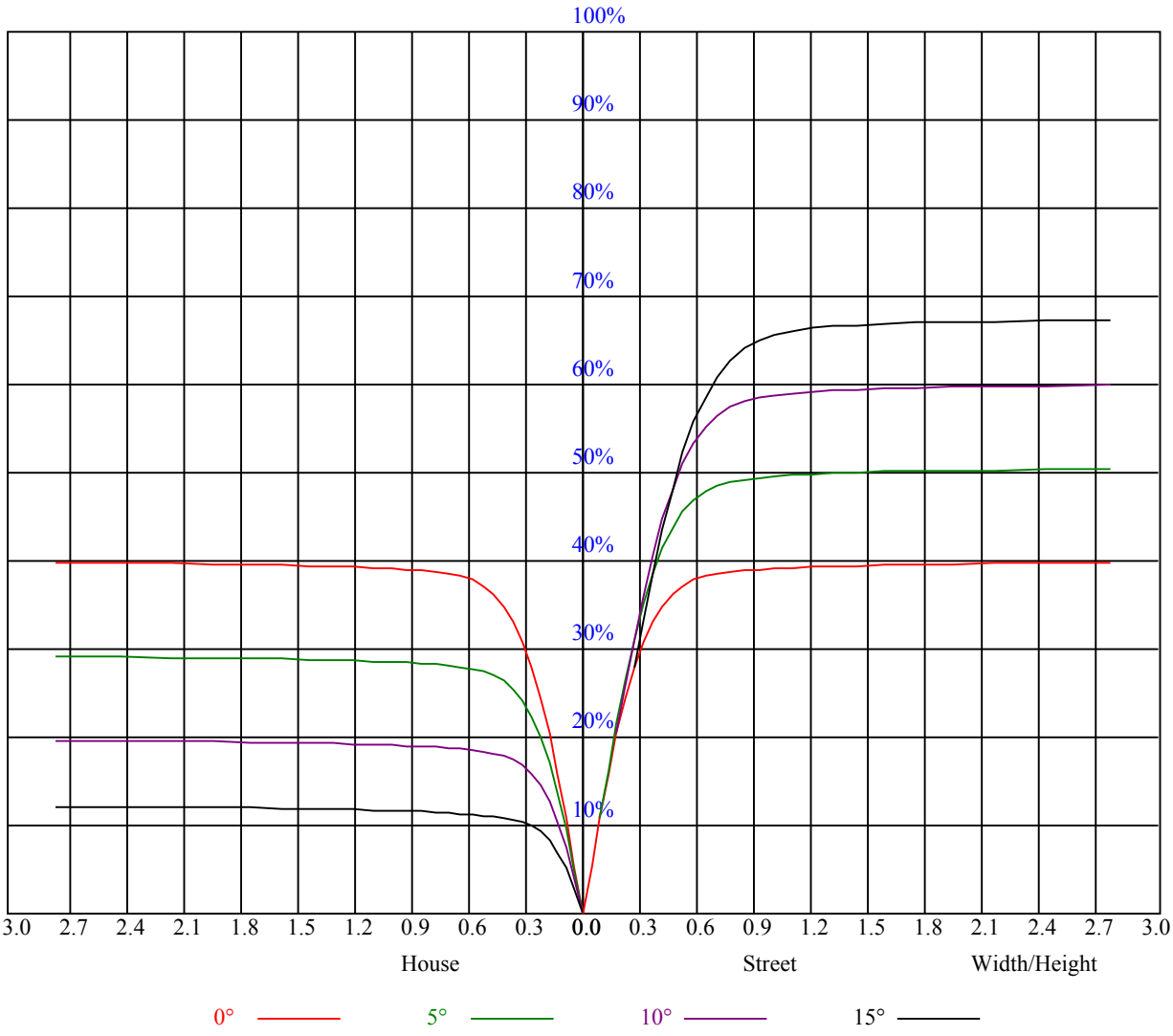


Equipment: GMS1980 Date: 2024/9/23 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

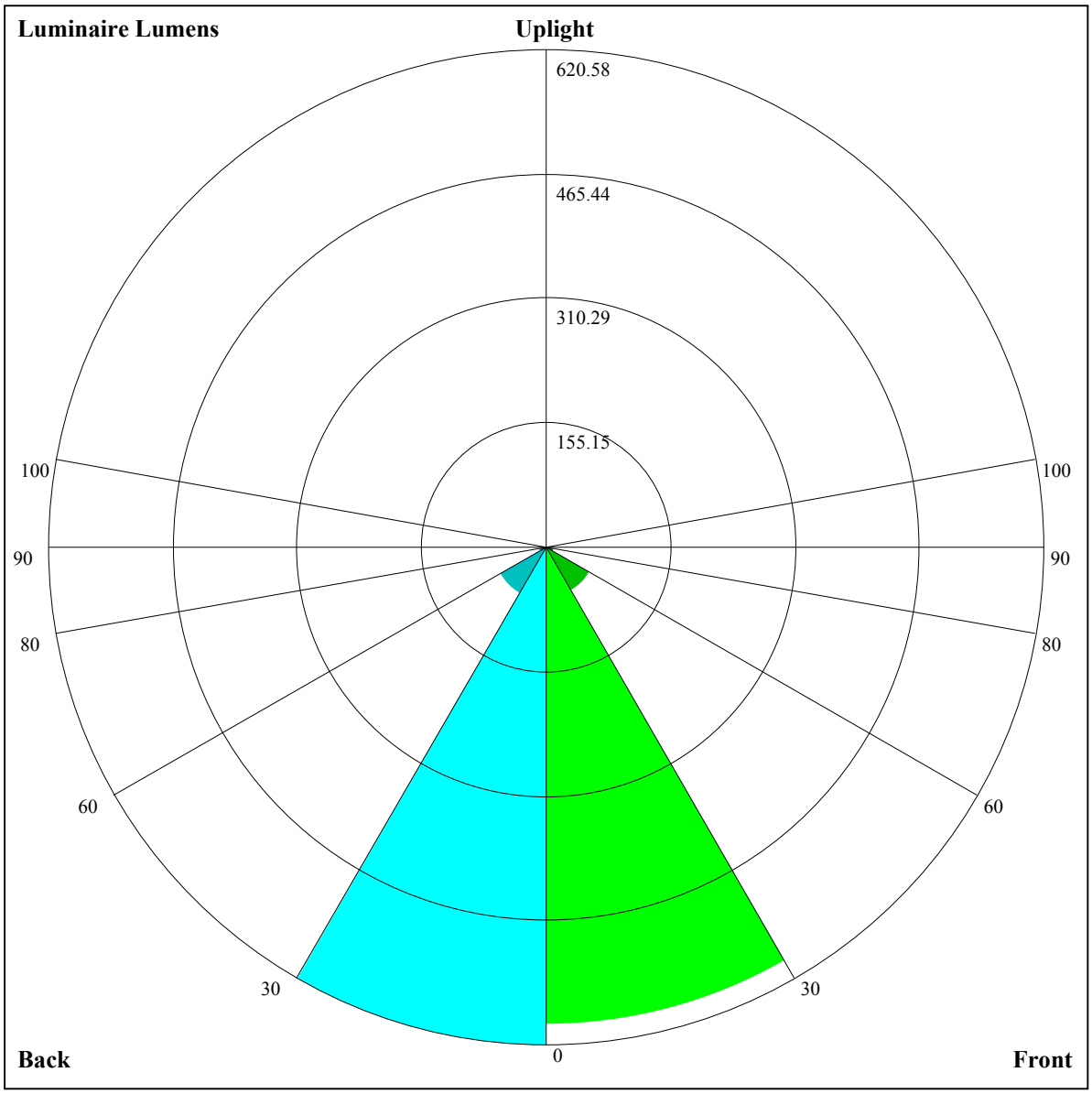
Utilization factor table for indoor luminaire

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	0.95	0.95	0.95	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.82	0.82	0.82	0.80
1	0.89	0.88	0.86	0.88	0.86	0.85	0.84	0.83	0.82	0.82	0.80	0.80	0.79	0.78	0.77	0.76
2	0.84	0.81	0.79	0.83	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.75	0.76	0.74	0.73	0.72
3	0.80	0.76	0.74	0.79	0.76	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.73	0.71	0.70	0.68
4	0.76	0.72	0.69	0.75	0.71	0.69	0.73	0.70	0.68	0.72	0.69	0.67	0.70	0.68	0.66	0.65
5	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.68	0.65	0.63	0.62
6	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.65	0.63	0.61	0.60
7	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.63	0.60	0.58	0.57
8	0.63	0.59	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.55
9	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.53
10	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.57	0.54	0.52	0.51

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/9/23	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=595.41,FM=61.49,FH=10.56,FVH=3.7
BL=620.58,BM=66.05,BH=10.62,BVH=3.71
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	3483.32	3473.37	3442.94	3418.94	3365.69	3283.17	3203.58	3086.54	2986.46
45.0	3487.41	3490.34	3484.49	3462.83	3425.97	3386.17	3308.34	3243.96	3134.52
90.0	3487.41	3478.64	3468.69	3433.57	3394.95	3320.04	3258.01	3174.90	3085.95
135.0	3492.10	3484.49	3485.07	3474.54	3448.79	3406.07	3363.35	3293.12	3222.89
180.0	3483.32	3478.05	3470.44	3452.30	3435.91	3397.29	3345.79	3279.66	3199.48
225.0	3487.41	3472.20	3444.69	3405.48	3365.10	3294.29	3213.53	3121.65	3011.04
270.0	3487.41	3490.93	3482.73	3457.57	3409.58	3362.18	3298.97	3207.68	3100.00
315.0	3492.10	3472.78	3444.69	3407.82	3352.23	3275.56	3190.12	3097.65	2954.86
360.0	3483.32	3473.37	3442.94	3418.94	3365.69	3283.17	3203.58	3086.54	2986.46

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2883.46	2733.64	2604.89	2469.12	2290.04	2154.86	2002.11	1851.13	1670.88
45.0	3035.04	2930.87	2819.09	2672.78	2548.71	2408.26	2261.95	2072.34	1918.43
90.0	2986.46	2847.18	2720.77	2589.68	2445.13	2271.90	2119.74	1961.73	1773.88
135.0	3143.89	3003.43	2895.75	2752.37	2619.53	2474.39	2323.99	2136.71	1980.46
180.0	3101.75	2967.73	2848.93	2726.04	2555.74	2415.87	2269.56	2115.65	1958.81
225.0	2867.08	2743.01	2616.60	2444.54	2300.58	2116.23	1969.34	1813.67	1664.44
270.0	2993.48	2875.85	2751.20	2580.32	2428.74	2282.44	2088.73	1934.23	1734.67
315.0	2826.70	2664.59	2518.87	2379.58	2229.18	2040.15	1885.65	1742.86	1594.80
360.0	2883.46	2733.64	2604.89	2469.12	2290.04	2154.86	2002.11	1851.13	1670.88

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1526.33	1290.48	1146.34	1118.77	1015.72	914.94	790.17	694.31	606.88
45.0	1769.78	1587.19	1446.15	1315.06	1160.56	1054.05	955.15	834.00	740.37
90.0	1621.72	1440.30	1144.47	1144.47	1064.64	934.37	837.57	744.52	631.28
135.0	1828.89	1682.00	1504.67	1366.56	1234.30	1095.60	994.36	896.62	777.24
180.0	1765.10	1611.77	1464.29	1297.50	1178.12	1071.02	944.61	852.73	756.75
225.0	1477.17	1154.18	1154.18	1100.40	980.72	887.84	792.80	703.38	617.35
270.0	1587.19	1442.64	1302.77	1150.03	1039.42	939.34	841.61	733.93	642.05
315.0	1422.74	1139.61	1139.61	1059.67	939.81	847.29	756.11	643.57	563.10
360.0	1526.33	1290.48	1146.34	1118.77	1015.72	914.94	790.17	694.31	606.88

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	503.23	426.34	358.92	279.80	223.56	174.69	127.34	101.65	85.50
45.0	647.32	560.70	462.39	388.65	321.93	305.55	234.50	149.29	116.17
90.0	548.00	469.23	399.36	316.20	256.68	204.48	160.47	117.57	94.63
135.0	680.68	592.31	489.31	415.57	346.51	298.52	298.52	164.21	126.70
180.0	646.15	563.63	484.04	385.72	317.84	302.62	302.62	145.31	112.77
225.0	517.34	439.97	348.21	285.18	228.00	167.37	129.16	102.47	81.99
270.0	560.12	467.07	395.67	328.95	297.94	297.94	144.02	113.07	91.76
315.0	484.98	395.50	328.19	268.85	202.49	157.54	122.08	98.32	81.11
360.0	503.23	426.34	358.92	279.80	223.56	174.69	127.34	101.65	85.50

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	76.20	68.41	59.99	54.48	49.74	44.65	41.08	37.10	34.24
45.0	91.24	80.06	69.76	62.74	56.83	50.80	46.53	42.72	39.39
90.0	80.88	70.05	62.74	55.30	50.39	46.06	42.37	38.27	35.35
135.0	99.84	79.12	69.47	61.80	54.37	49.28	44.18	40.67	37.57
180.0	90.42	76.90	67.01	59.69	53.72	47.70	43.83	39.62	36.40
225.0	71.98	64.14	56.06	50.91	46.41	42.31	38.98	35.17	32.60
270.0	78.36	67.42	60.40	54.60	49.57	44.30	40.61	37.40	34.59
315.0	72.57	64.96	58.64	52.14	47.64	42.60	39.21	36.17	32.77
360.0	76.20	68.41	59.99	54.48	49.74	44.65	41.08	37.10	34.24

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	31.78	29.03	27.10	25.46	23.99	22.30	21.19	20.19	19.31
45.0	36.46	33.07	30.72	28.62	26.86	24.76	23.35	21.83	20.72
90.0	32.83	30.55	28.09	26.34	24.81	23.00	21.89	20.83	19.66
135.0	34.82	31.84	29.73	27.86	26.10	24.17	22.82	21.77	20.72
180.0	33.59	31.37	28.62	26.86	25.28	23.82	22.24	21.07	20.01
225.0	30.31	27.80	26.04	24.17	22.82	21.54	20.13	19.20	18.32
270.0	31.49	29.32	27.04	25.34	23.88	22.30	21.13	20.13	19.20
315.0	30.49	28.44	26.22	24.58	23.23	21.95	20.54	19.61	18.73
360.0	31.78	29.03	27.10	25.46	23.99	22.30	21.19	20.19	19.31

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	18.26	17.50	16.85	16.04	15.45	14.92	14.22	13.69	13.17
45.0	19.78	18.67	17.91	17.21	16.39	15.68	15.10	14.51	13.81
90.0	18.84	17.85	17.15	16.50	15.86	15.10	14.57	14.05	13.46
135.0	19.49	18.73	17.73	17.03	16.44	15.68	15.10	14.57	13.81
180.0	19.14	18.14	17.50	16.62	16.09	15.51	14.81	14.28	13.75
225.0	17.56	16.62	15.98	15.39	14.81	14.16	13.64	13.11	12.47
270.0	18.14	17.38	16.68	16.04	15.27	14.69	14.16	13.46	12.93
315.0	17.91	16.97	16.33	15.68	14.92	14.40	13.75	13.23	12.70
360.0	18.26	17.50	16.85	16.04	15.45	14.92	14.22	13.69	13.17

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	12.64	12.23	11.82	11.47	11.00	10.71	10.48	10.18	9.89
45.0	13.28	12.82	12.35	11.88	11.41	11.06	10.65	10.42	10.01
90.0	12.82	12.41	11.94	11.59	11.12	10.77	10.42	10.12	9.83
135.0	13.34	12.87	12.41	11.88	11.47	11.18	10.83	10.48	10.18
180.0	13.23	12.64	12.23	11.88	11.47	11.06	10.77	10.48	10.12
225.0	12.06	11.53	11.18	10.83	10.53	10.18	9.95	9.66	9.42
270.0	12.47	11.94	11.53	11.18	10.77	10.48	10.18	9.89	9.60
315.0	12.23	11.76	11.35	11.00	10.71	10.36	10.07	9.77	9.48
360.0	12.64	12.23	11.82	11.47	11.00	10.71	10.48	10.18	9.89

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.60	9.31	9.07	8.90	8.60	8.37	8.13	7.90	7.72
45.0	9.77	9.54	9.25	9.01	8.78	8.54	8.37	8.08	7.90
90.0	9.54	9.31	9.07	8.84	8.60	8.37	8.13	7.90	7.61
135.0	9.89	9.60	9.36	9.07	8.90	8.66	8.49	8.19	7.96
180.0	9.89	9.66	9.31	9.07	8.78	8.60	8.37	8.13	7.90
225.0	9.13	8.90	8.66	8.43	8.19	8.02	7.72	7.61	7.37
270.0	9.31	9.07	8.90	8.60	8.37	8.13	7.90	7.72	7.43
315.0	9.25	9.01	8.72	8.54	8.31	8.08	7.84	7.61	7.43
360.0	9.60	9.31	9.07	8.90	8.60	8.37	8.13	7.90	7.72

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.61	7.43	7.26	7.08	6.96	6.79	6.67	6.55	6.26
45.0	7.67	7.49	7.26	7.08	6.91	6.79	6.61	6.44	6.32
90.0	7.43	7.26	7.08	6.85	6.67	6.55	6.38	6.26	6.14
135.0	7.72	7.43	7.26	7.08	6.91	6.79	6.61	6.44	6.32
180.0	7.72	7.55	7.32	7.20	6.96	6.79	6.67	6.50	6.38
225.0	7.20	7.08	6.91	6.73	6.61	6.50	6.32	6.20	6.03
270.0	7.26	7.08	6.91	6.79	6.55	6.44	6.26	6.14	6.03
315.0	7.26	7.08	6.96	6.79	6.61	6.50	6.32	6.20	6.09
360.0	7.61	7.43	7.26	7.08	6.96	6.79	6.67	6.55	6.26

Intensity data(cd)

C/γ(°)	90.0
0.0	6.14
45.0	6.20
90.0	6.09
135.0	6.20
180.0	6.14
225.0	6.03
270.0	6.03
315.0	6.09
360.0	6.14