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: 1-1484-L
Luminaire: 92.70.427.00
Report No: 2024923-B003
Ballast type: AC

Test No: 2024923-C003	Voltage(V): 36.870
LampCAT: CITIZEN CLU701 LES6.0	Current(A): 0.320
Lamp flux(lm): 1397.0	Power (W): 12.093
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1127.17, Efficiency(%): 80.69% , Luminous Efficacy(lm/W): 93.21
Central intensity(cd): 5171.400, Maximum intensity(cd): 5171.400
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=19.0
[C90/270]Total=19.0
Field angle(10%Imax): [C0/180]Total=51.8
[C90/270]Total=51.8
Maximum s/h(1/2): C0_180=0.32 C90_270=0.32
Maximum s/h(1/4): C0_180=0.36 C90_270=0.36
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 80.69%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.929%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5171.399	0.000	0	0.00%	0.00%
1.0	5129.409	4.929	4.929	0.35%	0.44%
2.0	5013.023	14.557	19.486	1.04%	1.73%
3.0	4820.630	23.519	43.005	1.68%	3.82%
4.0	4559.693	31.399	74.404	2.25%	6.60%
5.0	4243.013	37.869	112.273	2.71%	9.96%
6.0	3887.269	42.727	155	3.06%	13.75%
7.0	3498.972	45.846	200.846	3.28%	17.82%
8.0	3109.213	47.294	248.139	3.39%	22.01%
9.0	2750.616	47.491	295.63	3.40%	26.23%
10.0	2409.942	46.701	342.331	3.34%	30.37%
11.0	2111.916	45.183	387.514	3.23%	34.38%
12.0	1865.171	43.475	430.989	3.11%	38.24%
13.0	1652.441	41.745	472.734	2.99%	41.94%
14.0	1453.743	39.759	512.493	2.85%	45.47%
15.0	1327.517	38.182	550.676	2.73%	48.85%
16.0	1232.272	37.508	588.184	2.68%	52.18%
17.0	1152.367	37.135	625.319	2.66%	55.48%
18.0	1075.358	36.730	662.049	2.63%	58.74%
19.0	997.472	36.063	698.112	2.58%	61.93%
20.0	923.068	35.151	733.263	2.52%	65.05%
21.0	850.054	34.048	767.311	2.44%	68.07%
22.0	780.076	32.758	800.069	2.34%	70.98%
23.0	711.517	31.298	831.367	2.24%	73.76%
24.0	637.105	29.486	860.852	2.11%	76.37%
25.0	573.433	27.525	888.377	1.97%	78.81%
26.0	509.497	25.563	913.94	1.83%	81.08%
27.0	446.980	23.400	937.341	1.68%	83.16%
28.0	386.665	21.106	958.447	1.51%	85.03%
29.0	331.998	18.802	977.249	1.35%	86.70%
30.0	285.261	16.666	993.915	1.19%	88.18%
31.0	242.239	14.680	1008.594	1.05%	89.48%
32.0	212.320	13.023	1021.617	0.93%	90.64%
33.0	157.930	10.908	1032.525	0.78%	91.60%
34.0	125.816	8.587	1041.112	0.61%	92.36%
35.0	104.748	7.160	1048.272	0.51%	93.00%
36.0	87.359	6.117	1054.389	0.44%	93.54%
37.0	74.814	5.289	1059.678	0.38%	94.01%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	63.811	4.627	1064.305	0.33%	94.42%
39.0	55.260	4.064	1068.369	0.29%	94.78%
40.0	47.813	3.595	1071.964	0.26%	95.10%
41.0	41.529	3.181	1075.146	0.23%	95.38%
42.0	36.701	2.842	1077.988	0.20%	95.64%
43.0	32.100	2.549	1080.536	0.18%	95.86%
44.0	28.376	2.283	1082.819	0.16%	96.06%
45.0	25.048	2.053	1084.872	0.15%	96.25%
46.0	22.348	1.854	1086.726	0.13%	96.41%
47.0	20.029	1.685	1088.411	0.12%	96.56%
48.0	18.200	1.545	1089.957	0.11%	96.70%
49.0	16.767	1.436	1091.393	0.10%	96.83%
50.0	15.487	1.345	1092.737	0.10%	96.94%
51.0	14.550	1.271	1094.008	0.09%	97.06%
52.0	13.782	1.216	1095.224	0.09%	97.17%
53.0	13.146	1.171	1096.395	0.08%	97.27%
54.0	12.582	1.134	1097.529	0.08%	97.37%
55.0	12.114	1.102	1098.632	0.08%	97.47%
56.0	11.726	1.077	1099.709	0.08%	97.56%
57.0	11.346	1.055	1100.764	0.08%	97.66%
58.0	11.075	1.037	1101.801	0.07%	97.75%
59.0	10.805	1.023	1102.824	0.07%	97.84%
60.0	10.571	1.010	1103.833	0.07%	97.93%
61.0	10.366	0.999	1104.833	0.07%	98.02%
62.0	10.190	0.991	1105.823	0.07%	98.11%
63.0	9.985	0.981	1106.804	0.07%	98.19%
64.0	9.788	0.970	1107.775	0.07%	98.28%
65.0	9.627	0.961	1108.735	0.07%	98.36%
66.0	9.407	0.950	1109.685	0.07%	98.45%
67.0	9.195	0.935	1110.62	0.07%	98.53%
68.0	8.932	0.918	1111.539	0.07%	98.61%
69.0	8.661	0.898	1112.436	0.06%	98.69%
70.0	8.361	0.874	1113.311	0.06%	98.77%
71.0	8.113	0.851	1114.162	0.06%	98.85%
72.0	7.857	0.830	1114.992	0.06%	98.92%
73.0	7.637	0.810	1115.803	0.06%	98.99%
74.0	7.440	0.793	1116.595	0.06%	99.06%
75.0	7.257	0.777	1117.372	0.06%	99.13%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.067	0.760	1118.132	0.05%	99.20%
77.0	6.891	0.744	1118.876	0.05%	99.26%
78.0	6.708	0.728	1119.604	0.05%	99.33%
79.0	6.533	0.711	1120.316	0.05%	99.39%
80.0	6.372	0.696	1121.011	0.05%	99.45%
81.0	6.211	0.680	1121.692	0.05%	99.51%
82.0	6.050	0.665	1122.357	0.05%	99.57%
83.0	5.889	0.649	1123.006	0.05%	99.63%
84.0	5.764	0.635	1123.64	0.05%	99.69%
85.0	5.633	0.622	1124.262	0.04%	99.74%
86.0	5.501	0.609	1124.871	0.04%	99.80%
87.0	5.369	0.595	1125.466	0.04%	99.85%
88.0	5.260	0.582	1126.048	0.04%	99.90%
89.0	5.121	0.569	1126.617	0.04%	99.95%
90.0	5.033	0.557	1127.174	0.04%	100.00%

Zonal flux distribution table

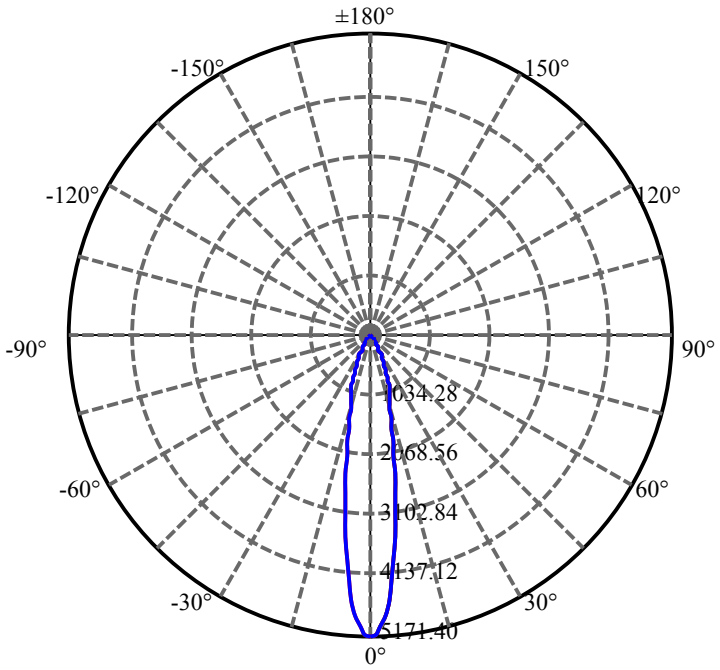
ZONAL LUMEN SUMMARY

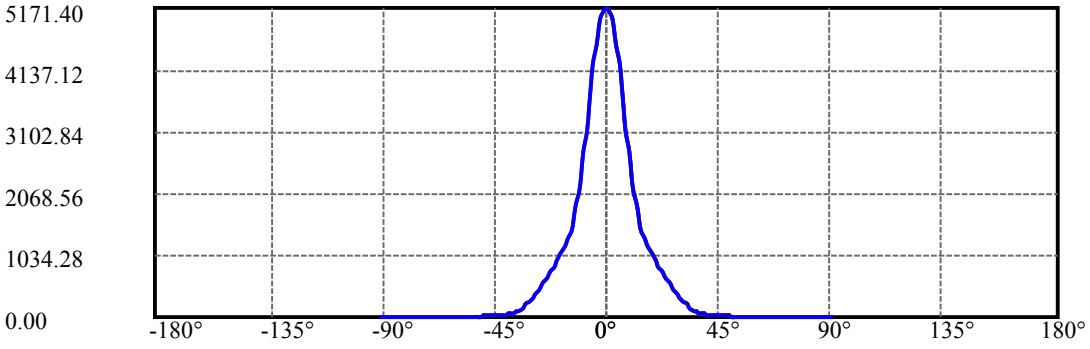
Zone	Lumens	%Lamp	%Fixt
0-30	993.91	71.15%	88.18%
0-40	1071.96	76.73%	95.10%
0-60	1103.83	79.01%	97.93%
0-90	1126.62	80.65%	99.95%
0-120	1126.62	80.65%	99.95%
0-180	1127.17	80.69%	100.00%
60-90	22.78	1.63%	2.02%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.52	901.74	64.55%	80.00%

ZONAL LUMEN SUMMARY

0-10	342.33
10-20	390.93
20-30	260.65
30-40	78.05
40-50	20.77
50-60	11.10
60-70	9.48
70-80	7.70
80-90	5.61
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):

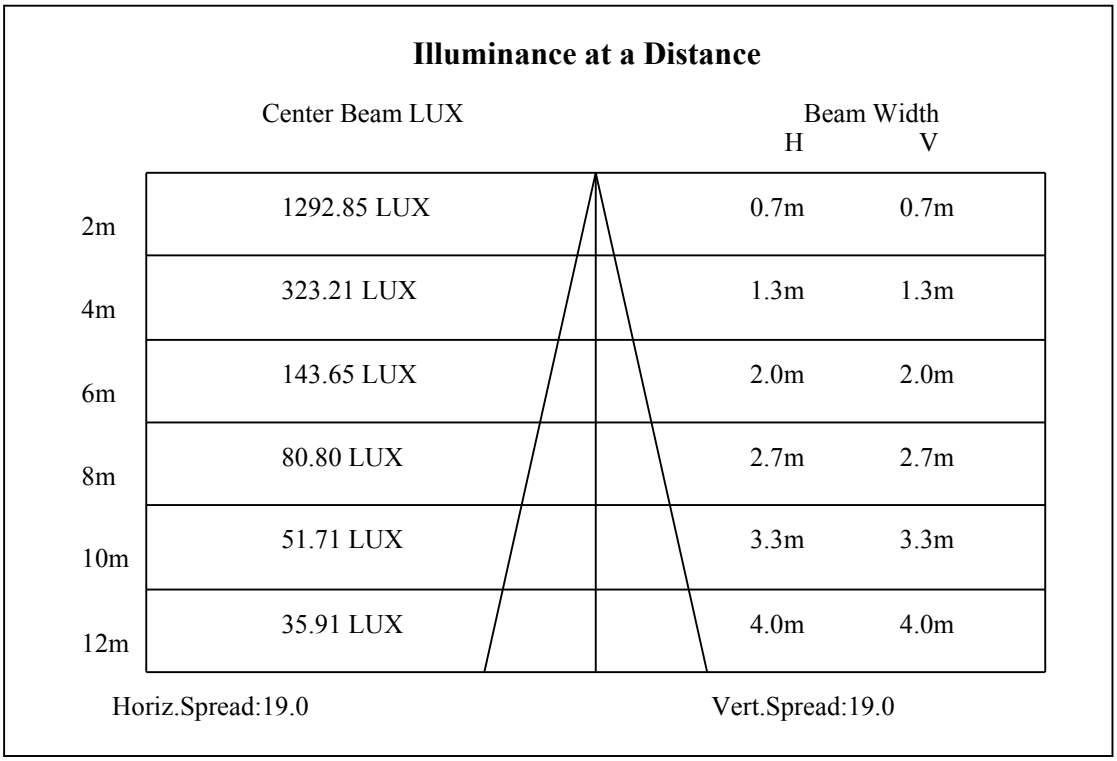
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:25.9 Right:25.9
:C90/270Left:25.9 Right:25.9

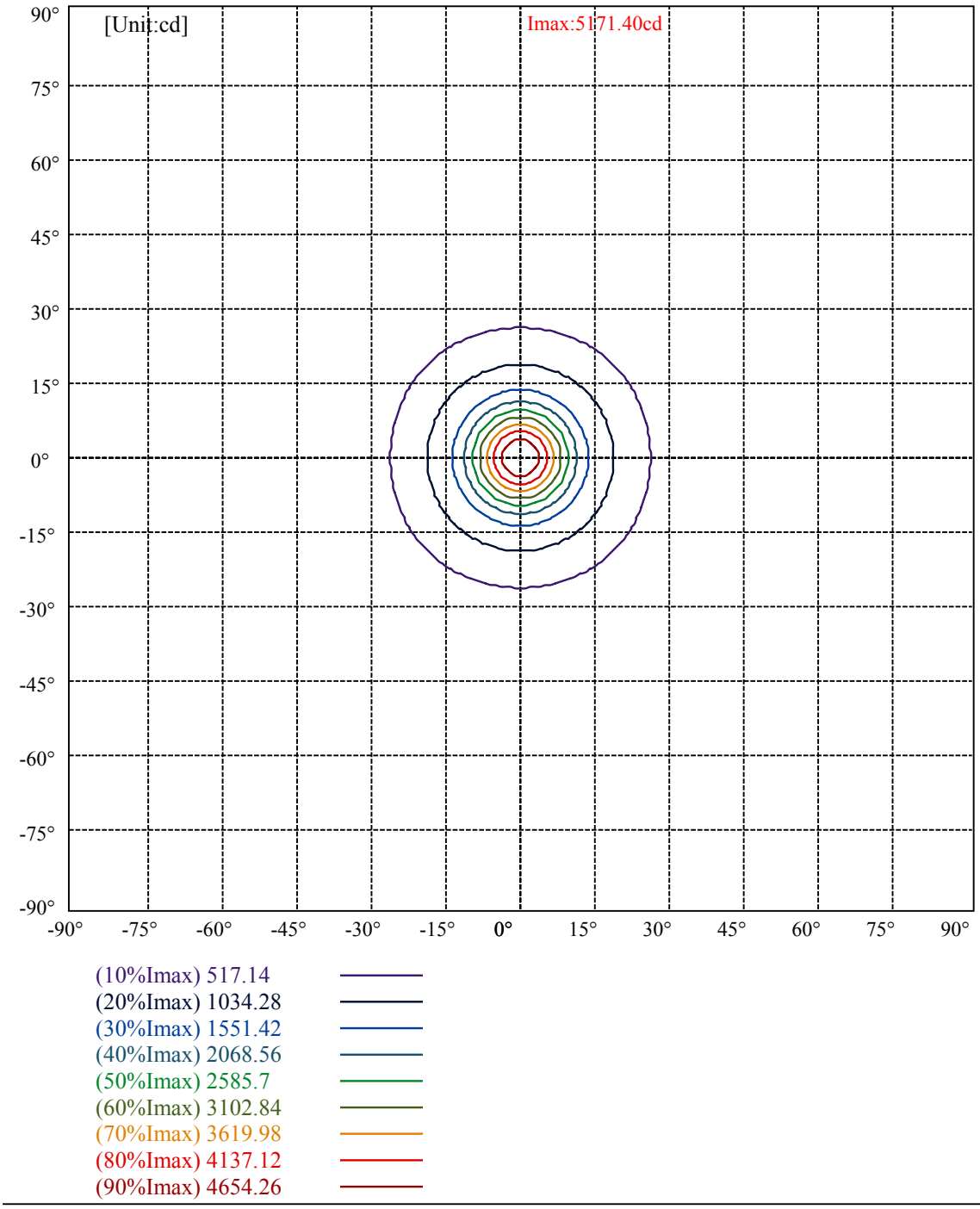
Beam Angle(50%Imax):C0/180Left:9.5 Right:9.5
:C90/270Left:9.5 Right:9.5

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)



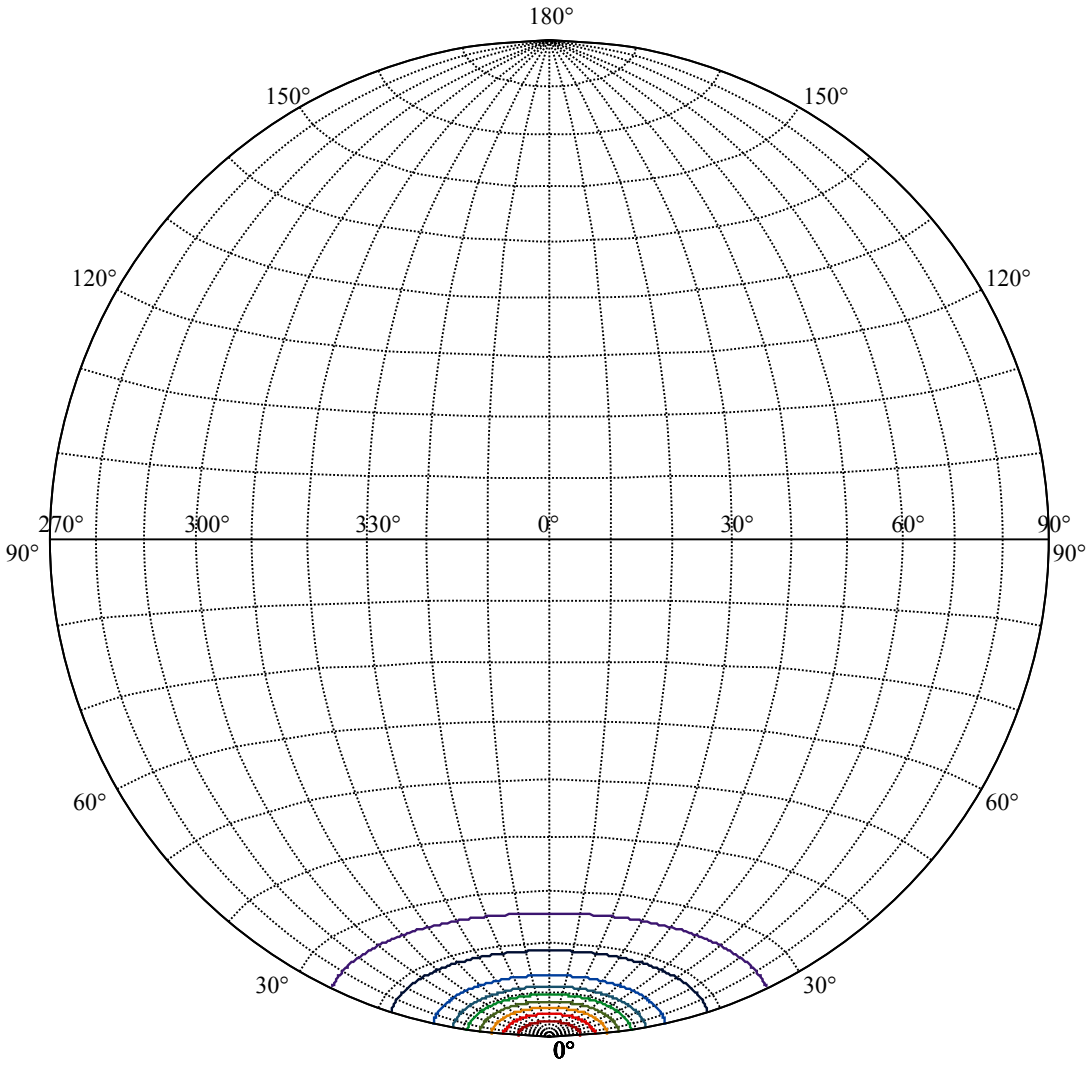
(10%Imax) 517.14
(20%Imax) 1034.28
(30%Imax) 1551.42
(40%Imax) 2068.56
(50%Imax) 2585.7
(60%Imax) 3102.84
(70%Imax) 3619.98
(80%Imax) 4137.12
(90%Imax) 4654.26

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



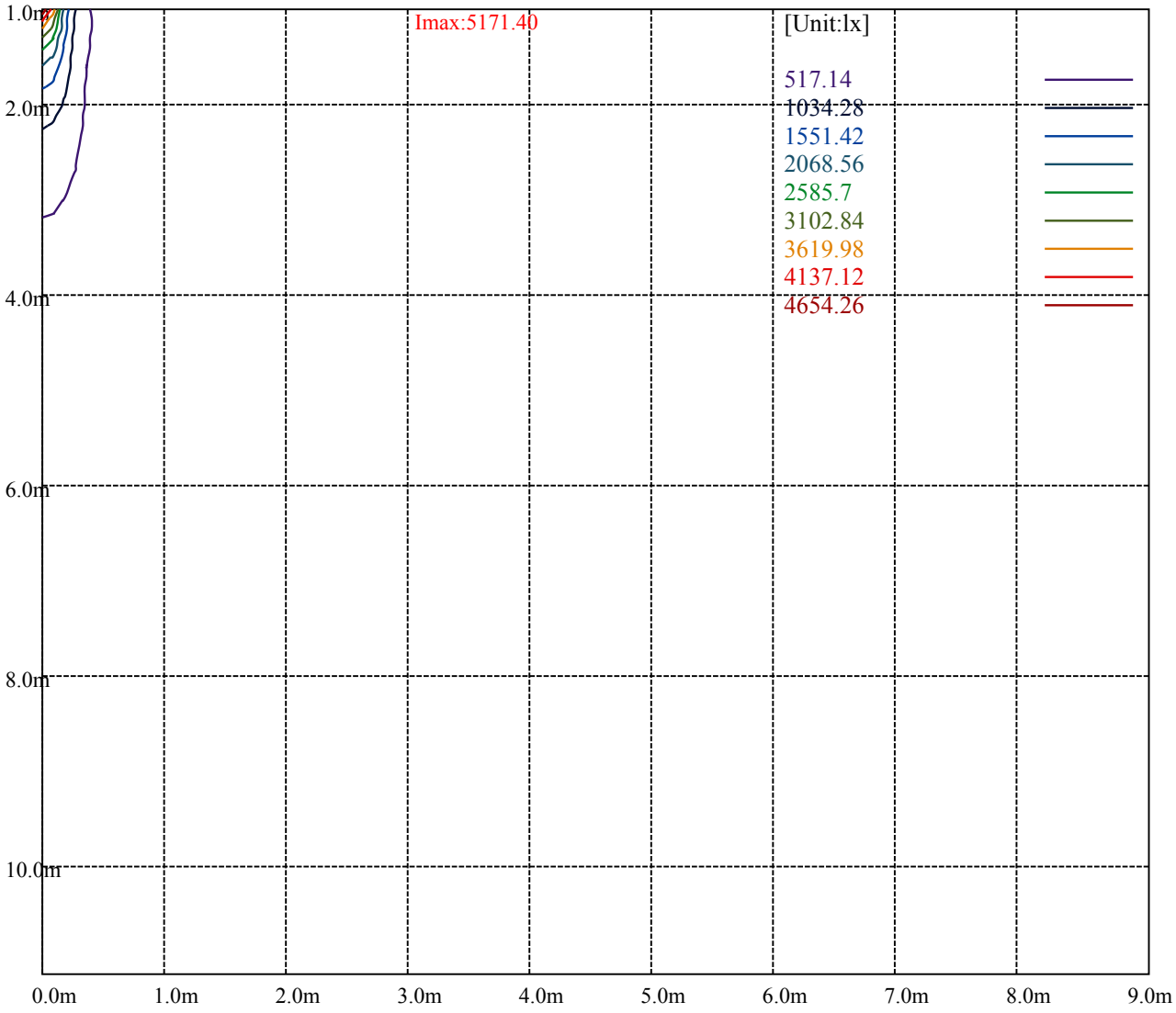
House [Unit:cd] Road

Imax:5171.40

(10%Imax) 517.14
(20%Imax) 1034.28
(30%Imax) 1551.42
(40%Imax) 2068.56
(50%Imax) 2585.7
(60%Imax) 3102.84
(70%Imax) 3619.98
(80%Imax) 4137.12
(90%Imax) 4654.26

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

Luminance Limitting Curve(no luminous side)

Luminance Table

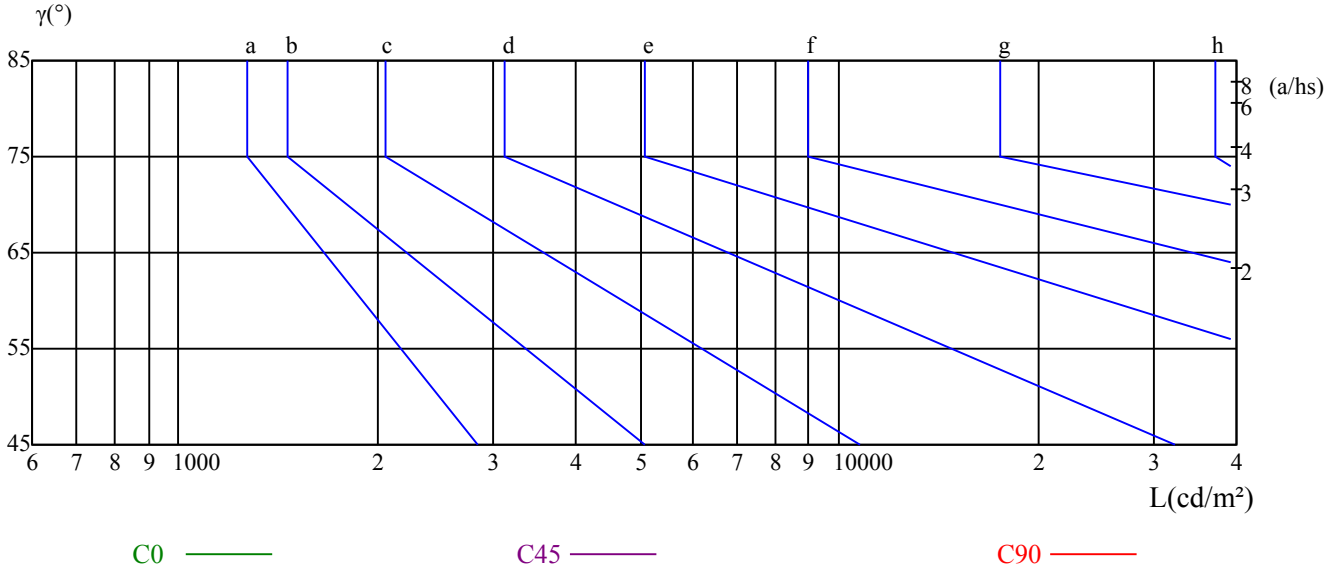
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

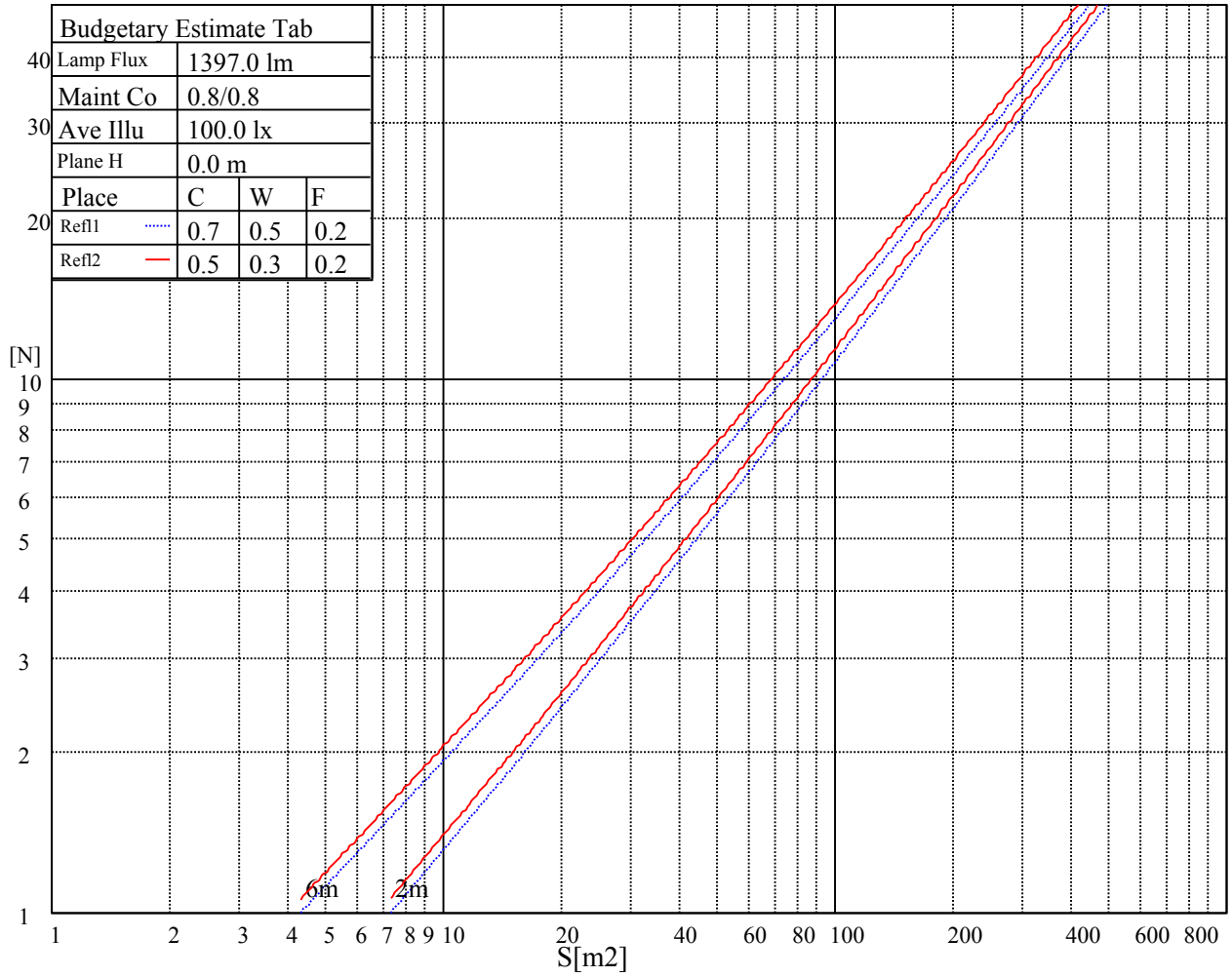
Luminance Limitting Curve



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

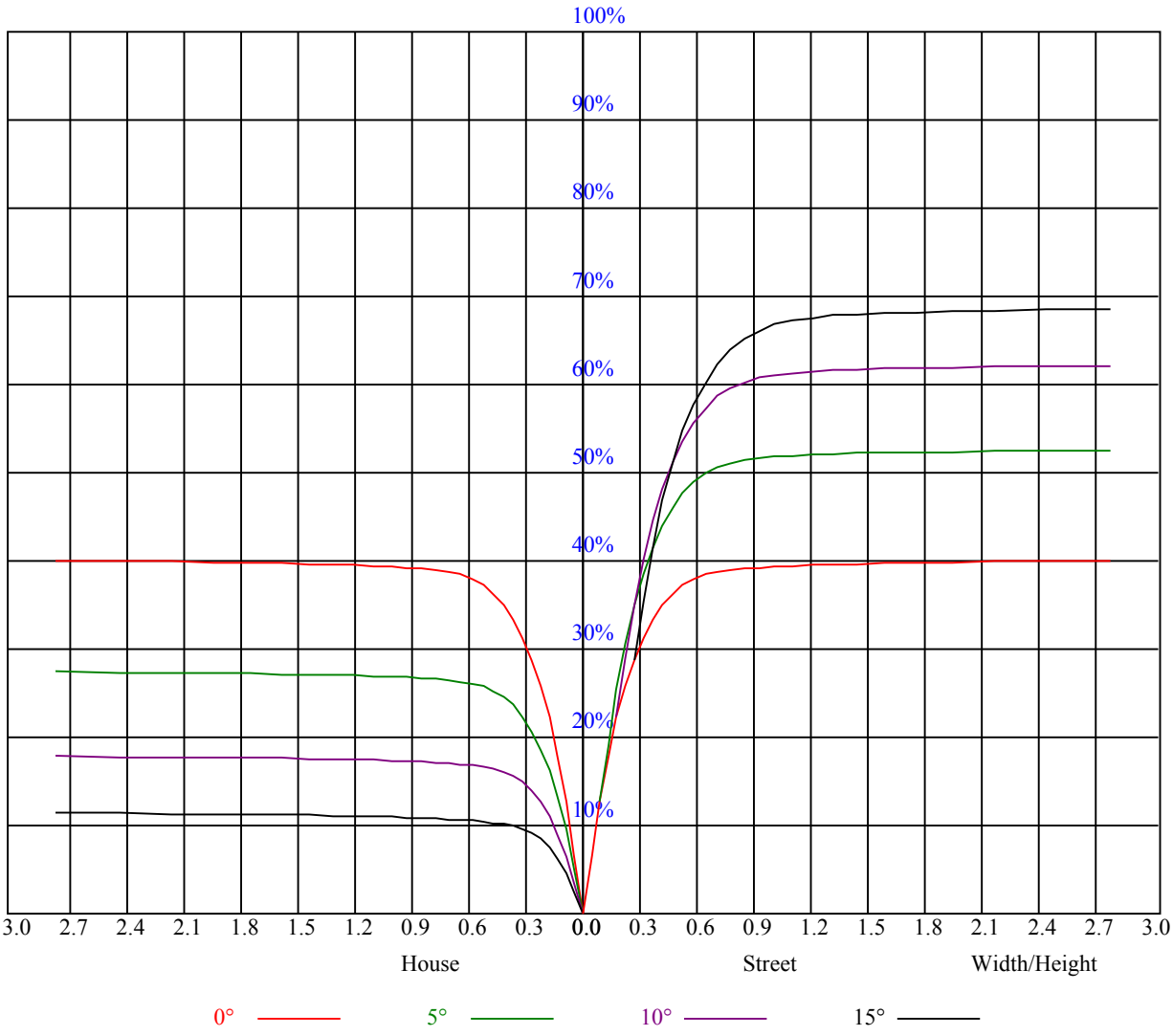


Equipment: GMS1980 Date: 2024/9/23 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Utilization factor table for indoor luminaire

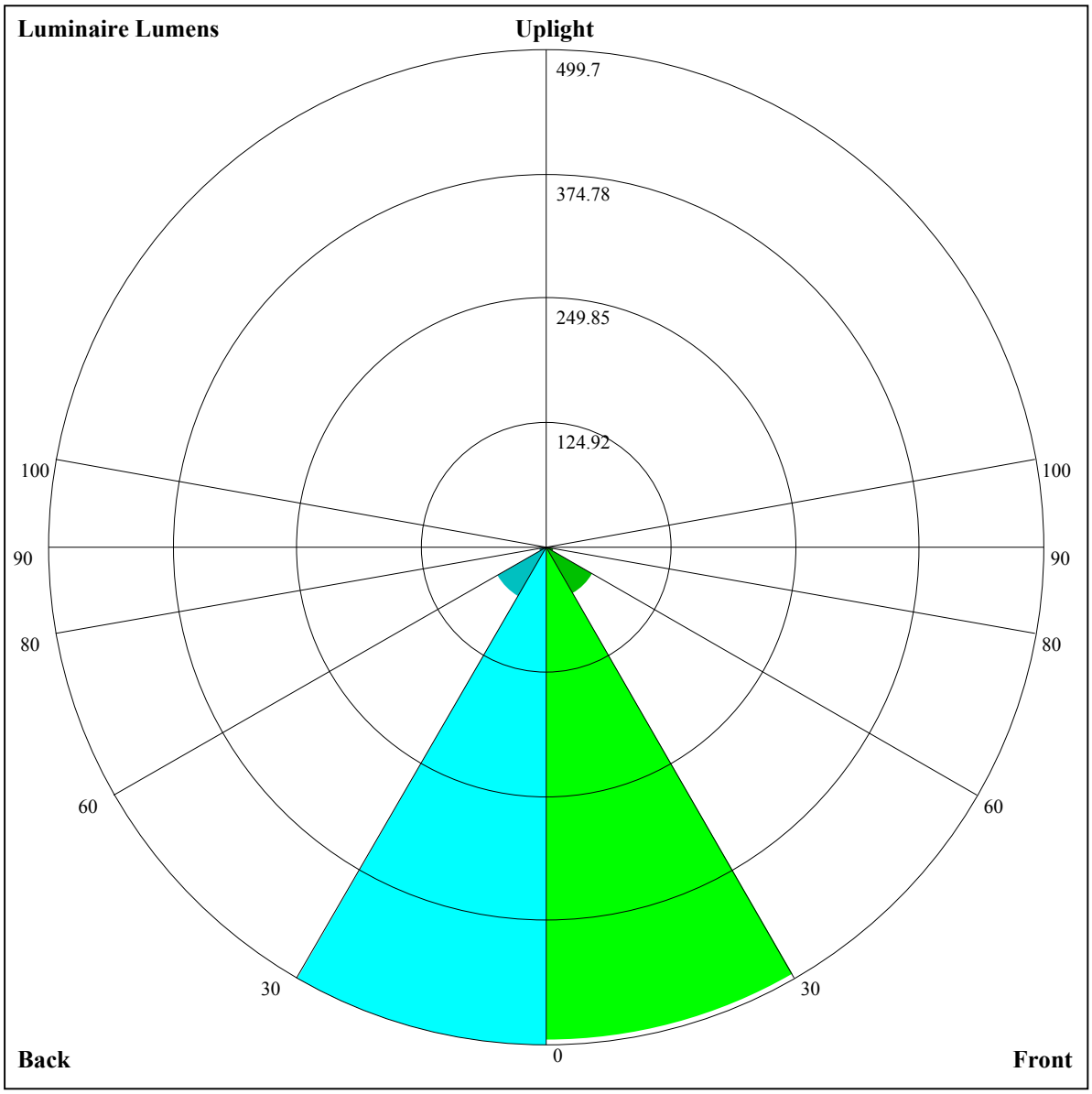
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	0.96	0.96	0.96	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.82	0.82	0.82	0.81
1	0.90	0.88	0.87	0.88	0.87	0.85	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77
2	0.85	0.82	0.80	0.84	0.81	0.79	0.81	0.79	0.77	0.79	0.77	0.76	0.77	0.75	0.74	0.73
3	0.81	0.78	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.74	0.72	0.71	0.70
4	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.69	0.72	0.70	0.68	0.67
5	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.70	0.68	0.66	0.69	0.67	0.65	0.64
6	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.65	0.63	0.62
7	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	0.62	0.60	0.59
8	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.64	0.61	0.58	0.63	0.60	0.58	0.57
9	0.63	0.59	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.56	0.61	0.58	0.56	0.55
10	0.61	0.57	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.60	0.57	0.55	0.59	0.56	0.54	0.54

Coefficient Utilization Curve



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

LCS Graph



Luminaire Lumens:

FL=494.44,FM=54.1,FH=8.59,FVH=3.08

BL=499.7,BM=56.84,BH=8.55,BVH=3.07

UL=0,UH=0

BUG Rating:B1-U0-G0

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

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	5162.91	5106.73	4966.86	4781.35	4458.30	4132.92	3773.00	3399.05	2944.33
45.0	5131.31	5186.32	5194.52	5081.57	4930.58	4636.80	4349.45	4016.46	3557.06
90.0	5206.81	5178.71	5075.13	4860.35	4634.46	4338.33	3943.89	3595.68	3231.09
135.0	5184.57	5212.07	5179.30	5071.03	4836.36	4581.20	4286.25	3877.76	3530.72
180.0	5162.91	5151.79	5053.48	4896.64	4615.73	4331.31	4000.66	3542.43	3187.78
225.0	5131.31	4993.20	4736.87	4474.69	4163.35	3801.68	3331.74	2973.00	2631.23
270.0	5206.81	5154.72	5023.04	4766.72	4498.10	4197.29	3858.45	3399.05	3042.64
315.0	5184.57	5051.72	4874.98	4632.70	4340.67	3924.58	3554.72	3188.36	2748.86
360.0	5162.91	5106.73	4966.86	4781.35	4458.30	4132.92	3773.00	3399.05	2944.33

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2607.82	2304.67	1974.61	1758.66	1547.98	1414.55	1150.90	1150.90	1114.03
45.0	3173.73	2822.01	2494.87	2140.23	1904.97	1712.43	1518.72	1389.38	1285.80
90.0	2861.81	2522.38	2158.95	1914.33	1707.16	1512.87	1387.63	1153.71	1153.71
135.0	3167.88	2737.16	2422.30	2136.71	1844.69	1659.17	1505.26	1378.85	1250.10
180.0	2755.30	2436.94	2157.20	1919.60	1687.26	1538.03	1416.89	1315.06	1206.21
225.0	2319.89	1988.65	1780.31	1565.54	1435.03	1162.32	1162.32	1123.34	1054.69
270.0	2699.70	2390.70	2055.37	1827.72	1636.93	1483.02	1330.86	1223.18	1111.99
315.0	2418.79	2077.02	1851.71	1658.59	1455.51	1147.57	1147.57	1123.75	1042.40
360.0	2607.82	2304.67	1974.61	1758.66	1547.98	1414.55	1150.90	1150.90	1114.03

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1047.26	983.82	922.14	843.66	776.59	703.21	614.66	545.20	484.80
45.0	1206.21	1109.06	1040.59	977.97	895.45	831.66	752.07	684.77	621.57
90.0	1094.55	1025.08	940.52	873.27	811.18	737.44	674.94	611.03	549.70
135.0	1161.14	1082.72	1007.82	925.30	866.19	809.42	733.93	677.75	599.33
180.0	1125.45	1039.42	966.85	878.48	812.35	746.22	665.46	601.67	526.76
225.0	989.32	903.88	828.91	762.02	694.78	610.57	549.53	491.41	423.29
270.0	1027.71	946.95	854.49	780.75	709.35	646.15	565.39	507.45	453.61
315.0	951.22	888.84	823.24	758.98	674.71	607.46	540.86	468.18	416.91
360.0	1047.26	983.82	922.14	843.66	776.59	703.21	614.66	545.20	484.80

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	410.07	351.54	298.41	241.29	200.44	165.09	136.53	108.09	91.35
45.0	554.27	469.41	407.38	347.68	307.30	307.30	193.77	158.13	131.32
90.0	470.81	411.30	356.69	301.62	243.10	201.02	163.98	125.24	102.41
135.0	536.71	474.09	398.60	344.17	305.55	305.55	196.40	151.46	123.07
180.0	478.77	423.18	363.48	301.45	301.45	245.27	177.44	142.62	119.85
225.0	369.98	321.00	265.46	231.87	199.68	158.54	130.27	106.51	85.91
270.0	403.28	339.49	304.38	304.38	207.75	171.65	144.49	116.40	99.31
315.0	351.95	303.32	261.60	209.63	172.64	144.14	120.56	98.08	84.74
360.0	410.07	351.54	298.41	241.29	200.44	165.09	136.53	108.09	91.35

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	78.01	65.14	56.65	49.33	43.54	37.57	33.42	28.91	25.81
45.0	105.57	90.07	74.27	64.08	55.36	46.41	40.67	35.82	31.89
90.0	83.45	72.39	63.61	54.25	47.40	41.38	36.34	32.25	27.86
135.0	101.89	85.91	71.69	63.03	53.31	46.29	40.56	34.59	30.49
180.0	101.24	86.61	72.51	63.03	53.55	47.52	42.60	37.51	33.88
225.0	73.80	63.67	55.42	46.82	41.26	36.46	32.30	27.56	24.46
270.0	81.64	70.75	62.03	53.96	45.82	40.38	35.58	31.66	27.97
315.0	73.27	63.97	54.31	47.58	42.25	36.23	32.13	28.50	24.64
360.0	78.01	65.14	56.65	49.33	43.54	37.57	33.42	28.91	25.81

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	23.12	20.25	18.43	16.97	15.80	14.57	13.87	13.28	12.76
45.0	27.80	24.99	22.36	20.13	17.97	16.50	15.33	14.22	13.52
90.0	24.87	22.12	19.90	17.73	16.44	15.04	14.22	13.52	12.82
135.0	26.98	23.23	20.72	18.67	17.03	15.45	14.51	13.75	13.17
180.0	30.49	27.56	24.35	22.00	20.01	18.32	16.62	15.51	14.57
225.0	21.19	19.08	17.44	15.80	14.81	13.99	13.40	12.70	12.29
270.0	23.88	21.54	18.96	17.44	16.21	14.98	14.22	13.64	12.93
315.0	22.06	20.01	18.08	16.85	15.86	15.04	14.22	13.64	13.11
360.0	23.12	20.25	18.43	16.97	15.80	14.57	13.87	13.28	12.76

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.23	11.88	11.59	11.24	11.06	10.83	10.65	10.48	10.30
45.0	12.93	12.23	11.76	11.29	10.94	10.65	10.42	10.18	10.01
90.0	12.35	11.94	11.41	11.12	10.89	10.59	10.36	10.18	10.07
135.0	12.52	12.11	11.76	11.41	11.12	10.83	10.59	10.36	10.24
180.0	13.64	12.99	12.52	12.00	11.65	11.24	10.94	10.71	10.48
225.0	11.88	11.59	11.24	10.94	10.71	10.48	10.30	10.07	9.83
270.0	12.52	12.11	11.76	11.41	11.12	10.89	10.65	10.48	10.30
315.0	12.58	12.06	11.76	11.35	11.12	10.94	10.65	10.48	10.30
360.0	12.23	11.88	11.59	11.24	11.06	10.83	10.65	10.48	10.30

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.12	10.01	9.83	9.60	9.36	9.19	8.90	8.60	8.31
45.0	9.83	9.66	9.54	9.36	9.25	9.07	8.84	8.60	8.37
90.0	9.89	9.71	9.60	9.42	9.19	8.95	8.66	8.31	8.08
135.0	10.01	9.83	9.71	9.54	9.36	9.13	8.95	8.66	8.43
180.0	10.24	10.01	9.77	9.60	9.36	9.13	8.90	8.54	8.31
225.0	9.66	9.42	9.25	8.95	8.78	8.49	8.08	7.84	7.61
270.0	10.07	9.83	9.60	9.36	9.07	8.72	8.49	8.08	7.84
315.0	10.07	9.83	9.71	9.42	9.19	8.78	8.49	8.25	7.96
360.0	10.12	10.01	9.83	9.60	9.36	9.19	8.90	8.60	8.31

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.08	7.90	7.67	7.43	7.26	7.08	6.91	6.61	6.44
45.0	8.02	7.78	7.55	7.37	7.20	7.02	6.85	6.67	6.55
90.0	7.78	7.55	7.37	7.20	7.08	6.85	6.67	6.50	6.32
135.0	8.13	7.84	7.67	7.49	7.32	7.14	6.96	6.79	6.61
180.0	8.02	7.84	7.61	7.43	7.14	6.96	6.85	6.67	6.50
225.0	7.43	7.20	7.08	6.91	6.67	6.55	6.32	6.20	6.09
270.0	7.67	7.43	7.26	7.08	6.91	6.73	6.50	6.38	6.20
315.0	7.72	7.55	7.32	7.14	6.96	6.79	6.61	6.44	6.26
360.0	8.08	7.90	7.67	7.43	7.26	7.08	6.91	6.61	6.44

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.32	6.14	6.03	5.85	5.79	5.62	5.50	5.38	5.21
45.0	6.32	6.20	5.97	5.85	5.74	5.62	5.44	5.38	5.27
90.0	6.14	5.97	5.79	5.68	5.56	5.38	5.33	5.21	5.09
135.0	6.44	6.20	6.03	5.91	5.74	5.62	5.50	5.38	5.27
180.0	6.32	6.14	5.97	5.85	5.74	5.62	5.44	5.33	5.21
225.0	5.91	5.85	5.68	5.62	5.44	5.38	5.21	5.09	4.92
270.0	6.09	5.91	5.79	5.68	5.50	5.33	5.21	5.09	4.97
315.0	6.14	5.97	5.85	5.68	5.56	5.44	5.33	5.21	5.03
360.0	6.32	6.14	6.03	5.85	5.79	5.62	5.50	5.38	5.21

Intensity data(cd)

C/γ(°)	90.0
0.0	4.97
45.0	5.21
90.0	5.03
135.0	5.15
180.0	4.97
225.0	4.92
270.0	4.97
315.0	5.03
360.0	4.97