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NT

Client:
LumCAT: 2-2752-L
Luminaire: 92.70.412.00
Report No: 2024806-B022
Ballast type: AC

Test No: 2024806-C022	Voltage(V): 34.980
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.450
Lamp flux(lm): 2571.0	Power (W): 15.741
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2441.65, Efficiency(%): 94.97% , Luminous Efficacy(lm/W): 155.11
Central intensity(cd): 9253.052, Maximum intensity(cd): 9253.052
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=23.8
[C90/270]Total=23.8
Field angle(10%Imax): [C0/180]Total=54.4
[C90/270]Total=54.4
Maximum s/h(1/2): C0_180=0.40 C90_270=0.40
Maximum s/h(1/4): C0_180=0.42 C90_270=0.42
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.97%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.948%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9253.051	0.000	0	0.00%	0.00%
1.0	9201.551	8.830	8.83	0.34%	0.36%
2.0	9060.658	26.212	35.042	1.02%	1.44%
3.0	8824.739	42.776	77.818	1.66%	3.19%
4.0	8475.068	57.908	135.726	2.25%	5.56%
5.0	8090.063	71.262	206.988	2.77%	8.48%
6.0	7632.197	82.625	289.613	3.21%	11.86%
7.0	7152.825	91.770	381.383	3.57%	15.62%
8.0	6651.506	98.795	480.178	3.84%	19.67%
9.0	6145.360	103.712	583.89	4.03%	23.91%
10.0	5608.709	106.370	690.26	4.14%	28.27%
11.0	5077.471	106.777	797.037	4.15%	32.64%
12.0	4576.591	105.533	902.569	4.10%	36.97%
13.0	4096.195	102.924	1005.493	4.00%	41.18%
14.0	3623.479	98.811	1104.305	3.84%	45.23%
15.0	3216.382	93.901	1198.205	3.65%	49.07%
16.0	2823.842	88.506	1286.711	3.44%	52.70%
17.0	2489.971	82.750	1369.462	3.22%	56.09%
18.0	2199.919	77.326	1446.788	3.01%	59.25%
19.0	1987.117	72.846	1519.634	2.83%	62.24%
20.0	1779.362	68.937	1588.571	2.68%	65.06%
21.0	1615.865	65.195	1653.766	2.54%	67.73%
22.0	1451.658	61.643	1715.409	2.40%	70.26%
23.0	1294.576	57.623	1773.033	2.24%	72.62%
24.0	1232.147	55.243	1828.276	2.15%	74.88%
25.0	1143.764	54.023	1882.299	2.10%	77.09%
26.0	1046.697	51.706	1934.005	2.01%	79.21%
27.0	949.118	48.828	1982.833	1.90%	81.21%
28.0	851.319	45.583	2028.416	1.77%	83.08%
29.0	761.283	42.190	2070.607	1.64%	84.80%
30.0	665.225	38.515	2109.122	1.50%	86.38%
31.0	572.072	34.432	2143.554	1.34%	87.79%
32.0	489.921	30.425	2173.979	1.18%	89.04%
33.0	411.750	26.564	2200.543	1.03%	90.13%
34.0	348.838	23.018	2223.56	0.90%	91.07%
35.0	294.968	19.994	2243.554	0.78%	91.89%
36.0	260.184	17.676	2261.231	0.69%	92.61%
37.0	236.065	16.185	2277.415	0.63%	93.27%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	177.162	13.793	2291.208	0.54%	93.84%
39.0	148.501	11.116	2302.324	0.43%	94.29%
40.0	124.221	9.512	2311.836	0.37%	94.68%
41.0	104.872	8.158	2319.994	0.32%	95.02%
42.0	88.954	7.042	2327.036	0.27%	95.31%
43.0	75.918	6.107	2333.143	0.24%	95.56%
44.0	65.618	5.342	2338.485	0.21%	95.77%
45.0	57.542	4.733	2343.218	0.18%	95.97%
46.0	51.763	4.275	2347.493	0.17%	96.14%
47.0	46.957	3.926	2351.419	0.15%	96.30%
48.0	43.680	3.664	2355.083	0.14%	96.45%
49.0	41.229	3.487	2358.57	0.14%	96.60%
50.0	39.283	3.357	2361.927	0.13%	96.73%
51.0	37.593	3.253	2365.18	0.13%	96.87%
52.0	36.138	3.164	2368.343	0.12%	97.00%
53.0	34.909	3.091	2371.434	0.12%	97.12%
54.0	33.928	3.034	2374.468	0.12%	97.25%
55.0	33.065	2.990	2377.458	0.12%	97.37%
56.0	31.997	2.940	2380.398	0.11%	97.49%
57.0	30.966	2.879	2383.277	0.11%	97.61%
58.0	29.942	2.817	2386.094	0.11%	97.72%
59.0	29.042	2.758	2388.851	0.11%	97.84%
60.0	27.944	2.692	2391.544	0.10%	97.95%
61.0	26.525	2.599	2394.143	0.10%	98.05%
62.0	25.289	2.497	2396.64	0.10%	98.16%
63.0	24.148	2.404	2399.044	0.09%	98.25%
64.0	23.211	2.324	2401.368	0.09%	98.35%
65.0	22.195	2.247	2403.615	0.09%	98.44%
66.0	21.068	2.159	2405.774	0.08%	98.53%
67.0	20.110	2.071	2407.844	0.08%	98.62%
68.0	19.305	1.997	2409.841	0.08%	98.70%
69.0	18.552	1.931	2411.772	0.08%	98.78%
70.0	17.623	1.858	2413.63	0.07%	98.85%
71.0	16.825	1.780	2415.41	0.07%	98.93%
72.0	16.152	1.715	2417.125	0.07%	99.00%
73.0	15.647	1.663	2418.788	0.06%	99.06%
74.0	15.150	1.619	2420.407	0.06%	99.13%
75.0	14.660	1.575	2421.982	0.06%	99.19%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.258	1.535	2423.517	0.06%	99.26%
77.0	13.833	1.498	2425.015	0.06%	99.32%
78.0	13.467	1.461	2426.476	0.06%	99.38%
79.0	13.124	1.429	2427.905	0.06%	99.44%
80.0	12.743	1.395	2429.3	0.05%	99.49%
81.0	12.414	1.360	2430.66	0.05%	99.55%
82.0	12.078	1.328	2431.988	0.05%	99.60%
83.0	11.785	1.297	2433.285	0.05%	99.66%
84.0	11.470	1.267	2434.552	0.05%	99.71%
85.0	11.214	1.238	2435.79	0.05%	99.76%
86.0	10.988	1.214	2437.004	0.05%	99.81%
87.0	10.768	1.191	2438.195	0.05%	99.86%
88.0	10.571	1.169	2439.364	0.05%	99.91%
89.0	10.410	1.150	2440.513	0.04%	99.95%
90.0	10.351	1.138	2441.652	0.04%	100.00%

Zonal flux distribution table

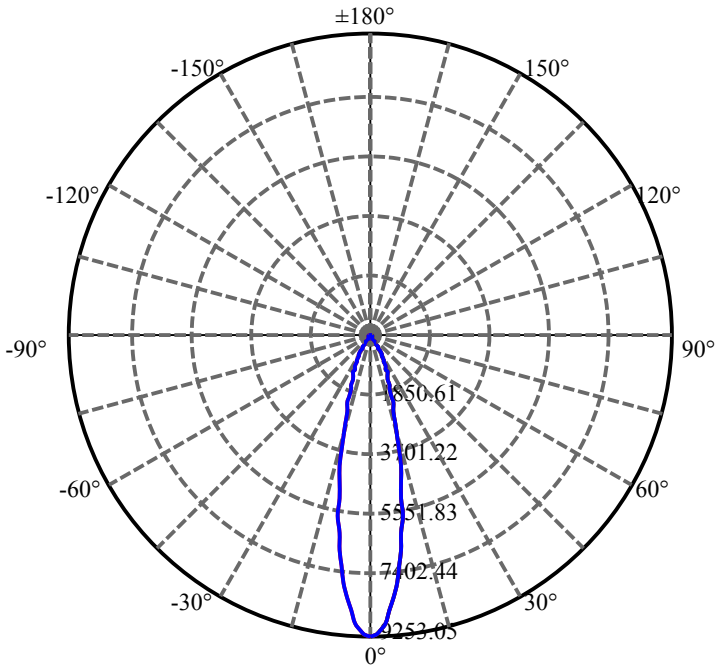
ZONAL LUMEN SUMMARY

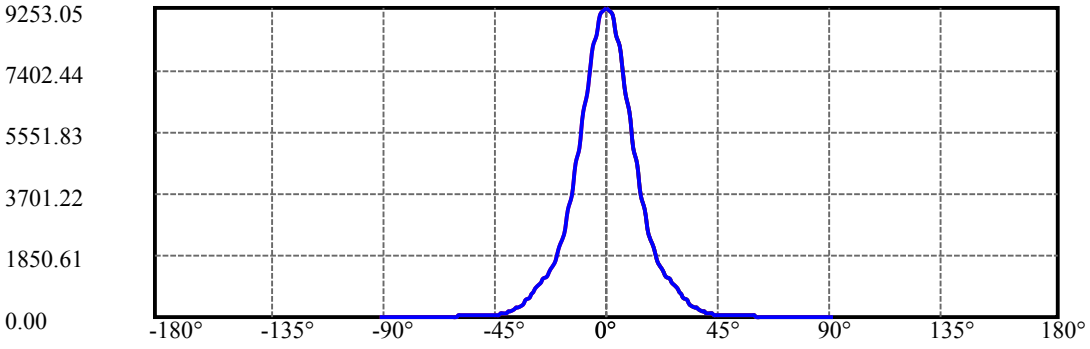
Zone	Lumens	%Lamp	%Fixt
0-30	2109.12	82.04%	86.38%
0-40	2311.84	89.92%	94.68%
0-60	2391.54	93.02%	97.95%
0-90	2440.51	94.92%	99.95%
0-120	2440.51	94.92%	99.95%
0-180	2441.65	94.97%	100.00%
60-90	48.97	1.90%	2.01%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.40	1953.32	75.98%	80.00%

ZONAL LUMEN SUMMARY

0-10	690.26
10-20	898.31
20-30	520.55
30-40	202.71
40-50	50.09
50-60	29.62
60-70	22.09
70-80	15.67
80-90	11.21
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):

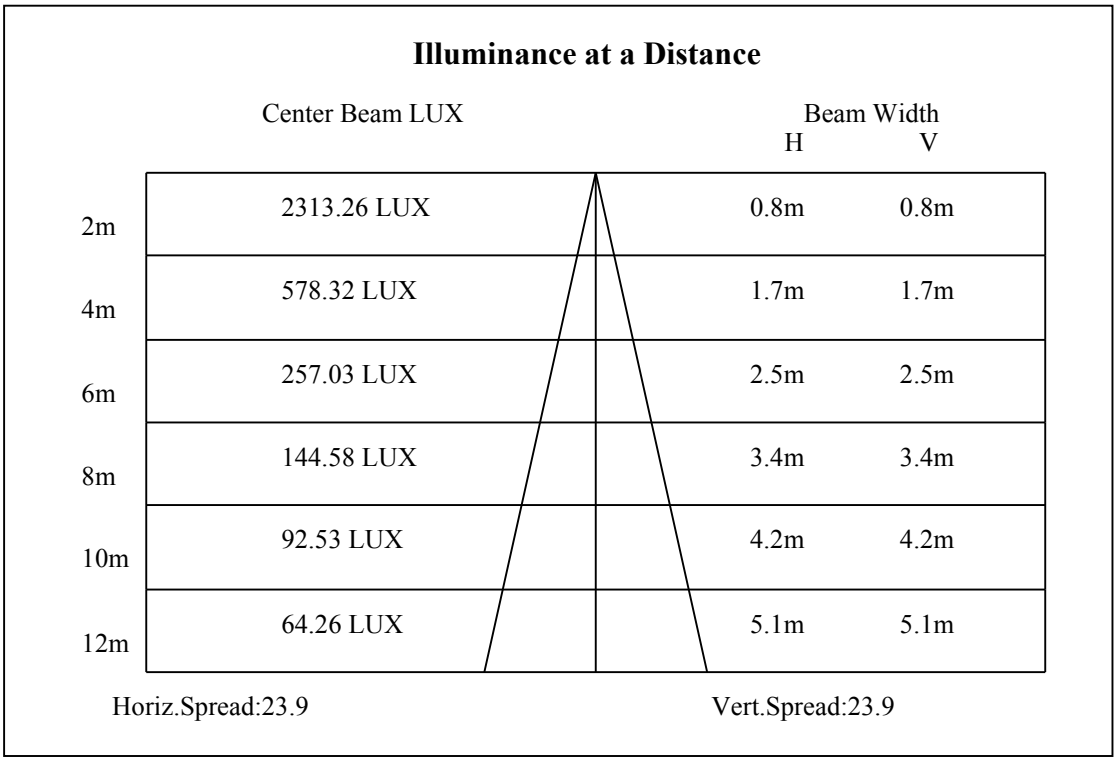
C0/C180:

C90/C270:

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

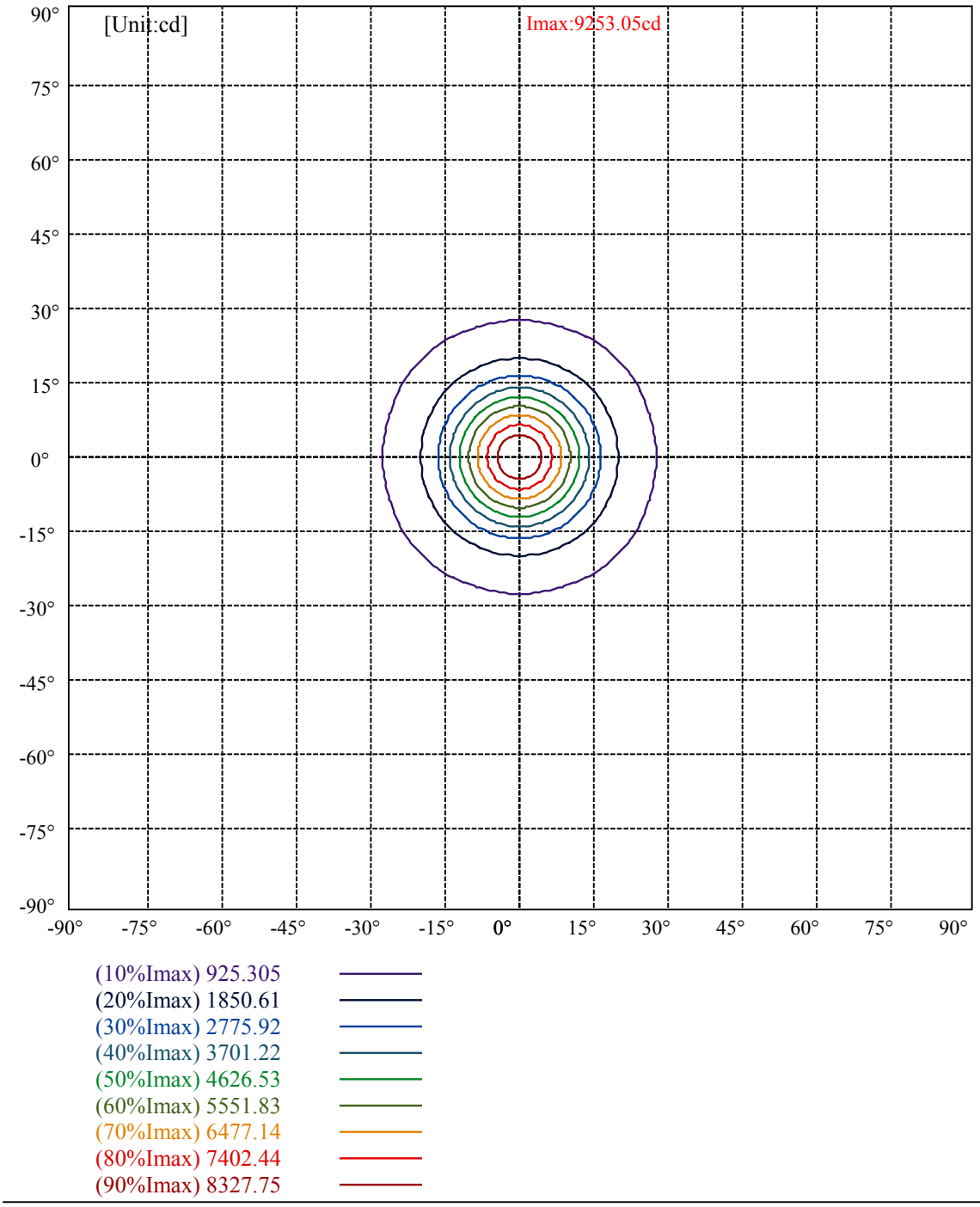
Beam Angle(50%Imax):C0/180Left:11.9 Right:11.9
:C90/270Left:11.9 Right:11.9

Lux distance Curve



Equipment: GMS1980 Date: 2024/8/6 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

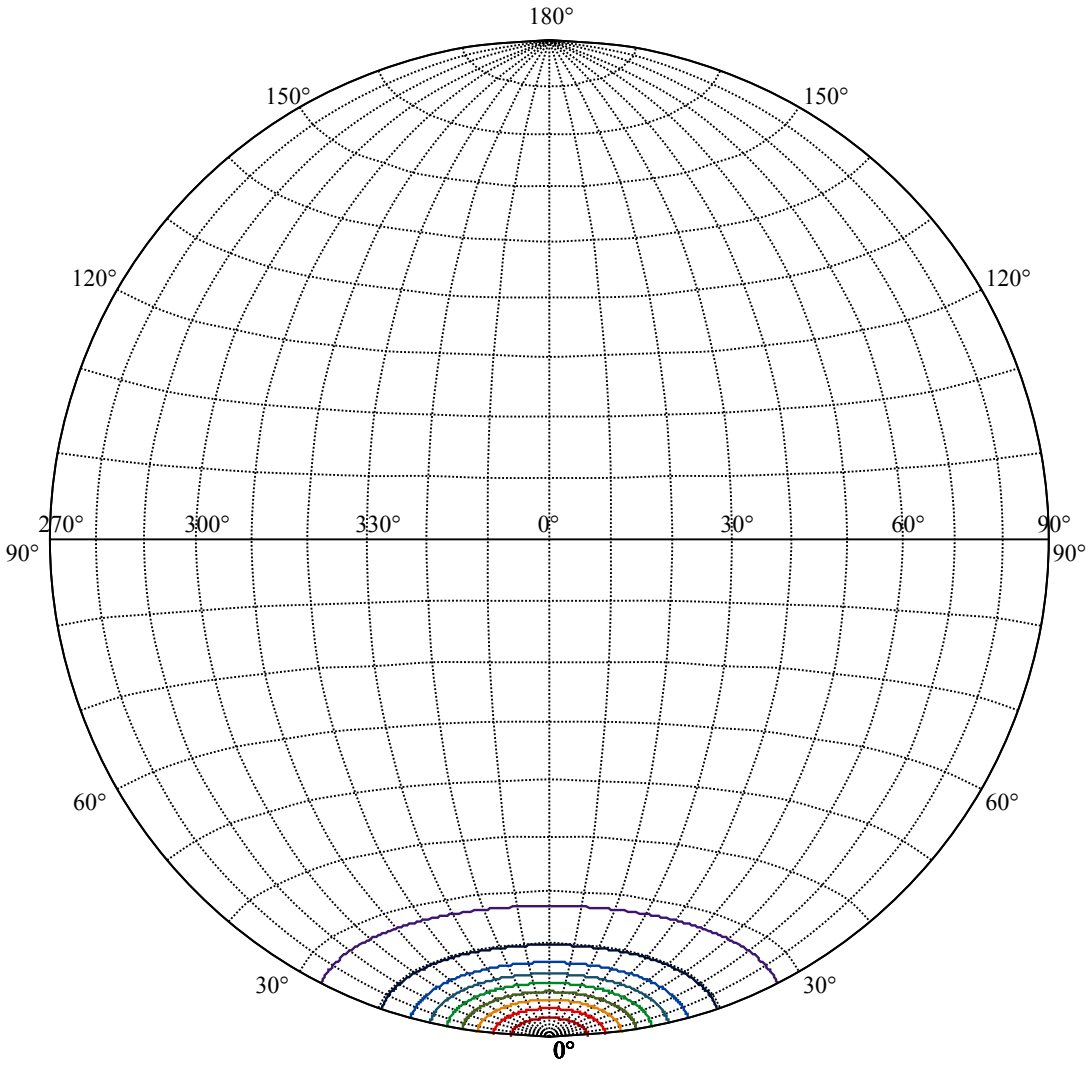


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/6
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



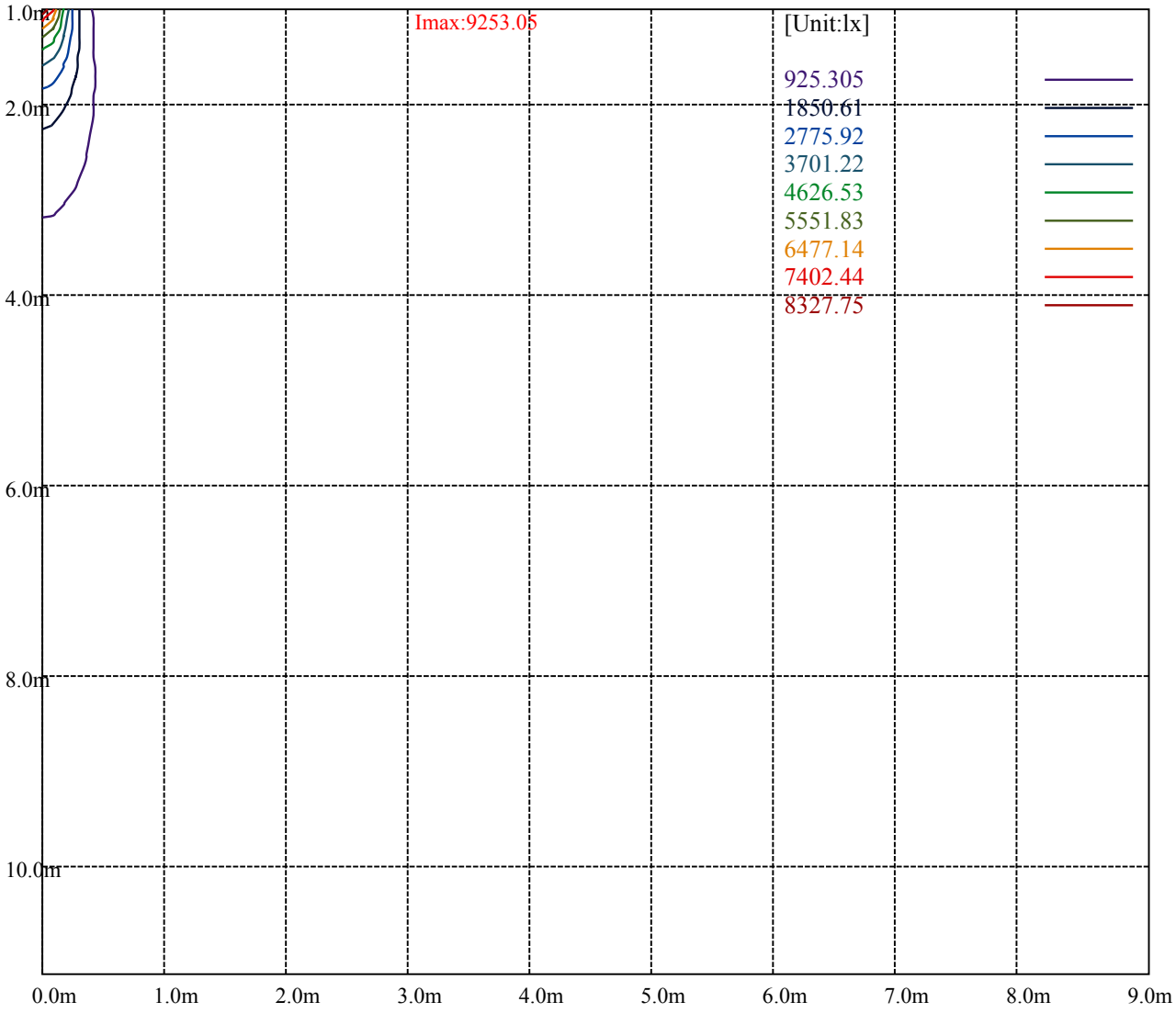
House [Unit:cd] Road

Imax:9253.05

(10%Imax) 925.305
(20%Imax) 1850.61
(30%Imax) 2775.92
(40%Imax) 3701.22
(50%Imax) 4626.53
(60%Imax) 5551.83
(70%Imax) 6477.14
(80%Imax) 7402.44
(90%Imax) 8327.75

Equipment: GMS1980	Date: 2024/8/6	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/6
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 2-2752-L

Luminance Limitting Curve(no luminous side)

Luminance Table

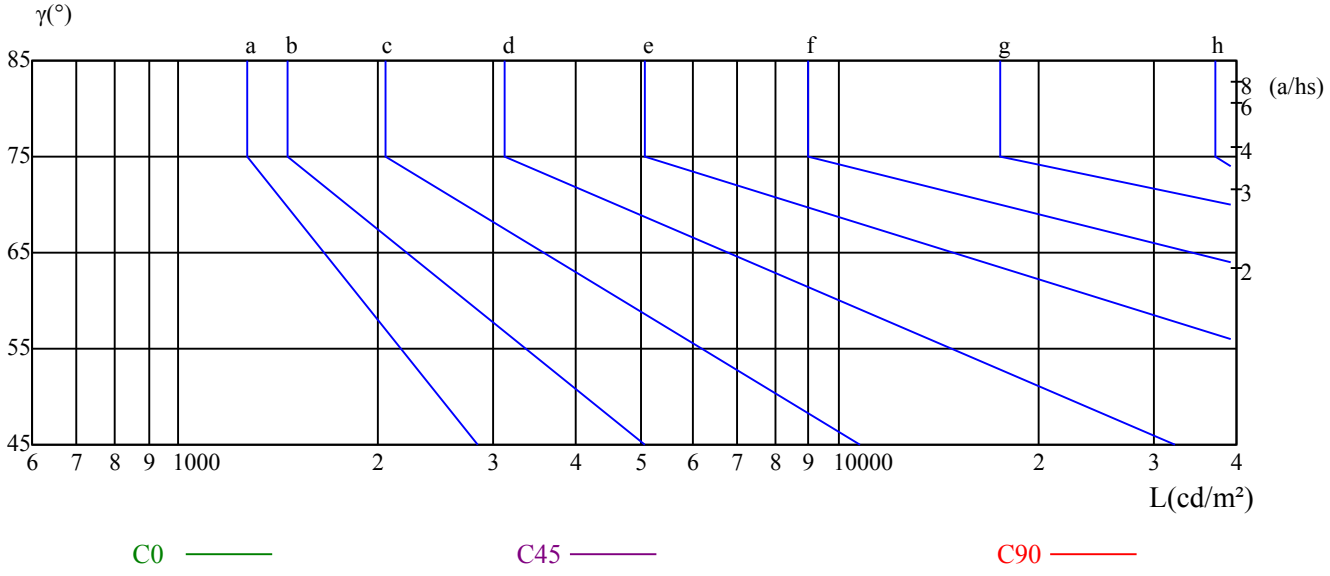
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

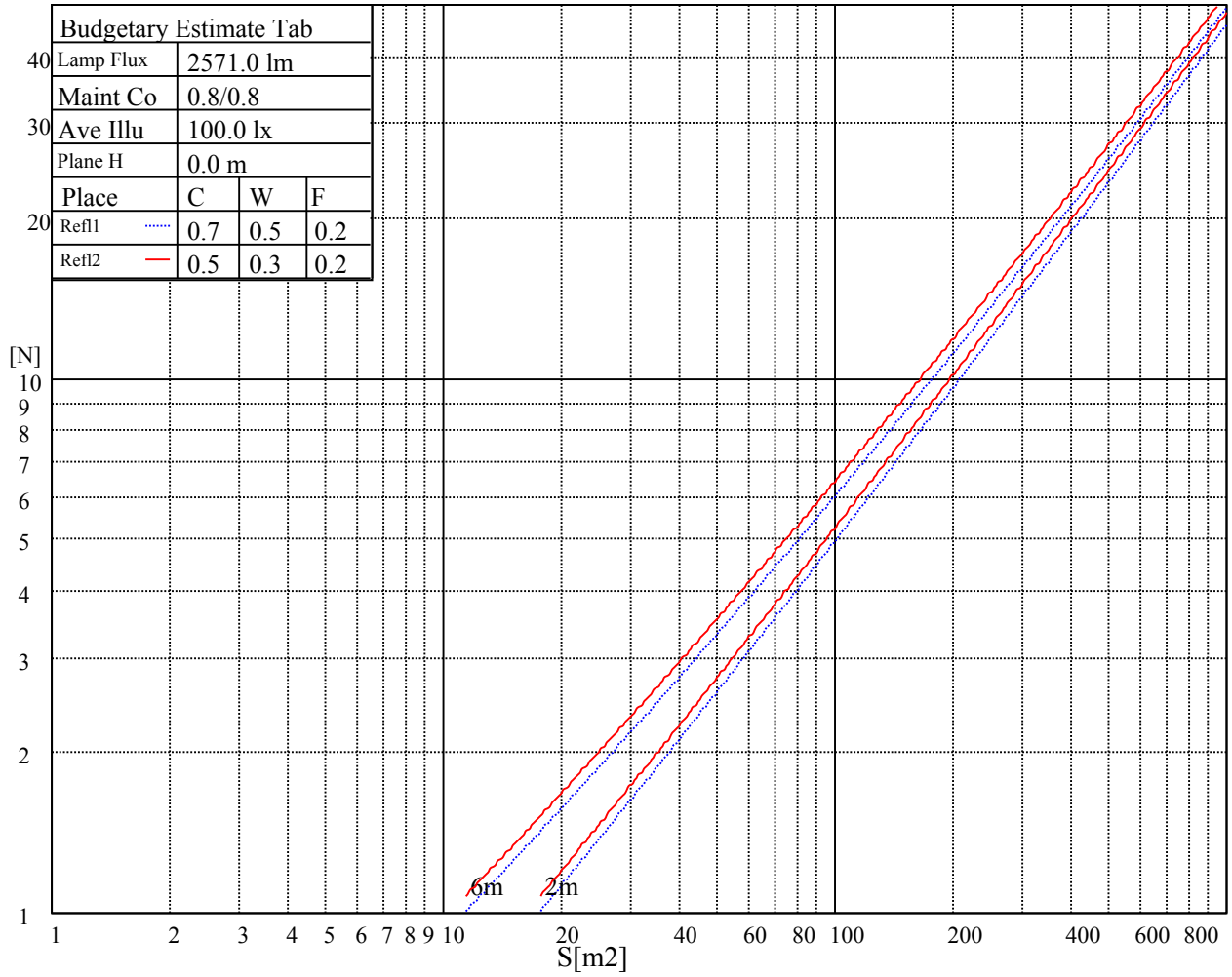
Date: 2024/8/6
Humidity(%): 60.0%

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

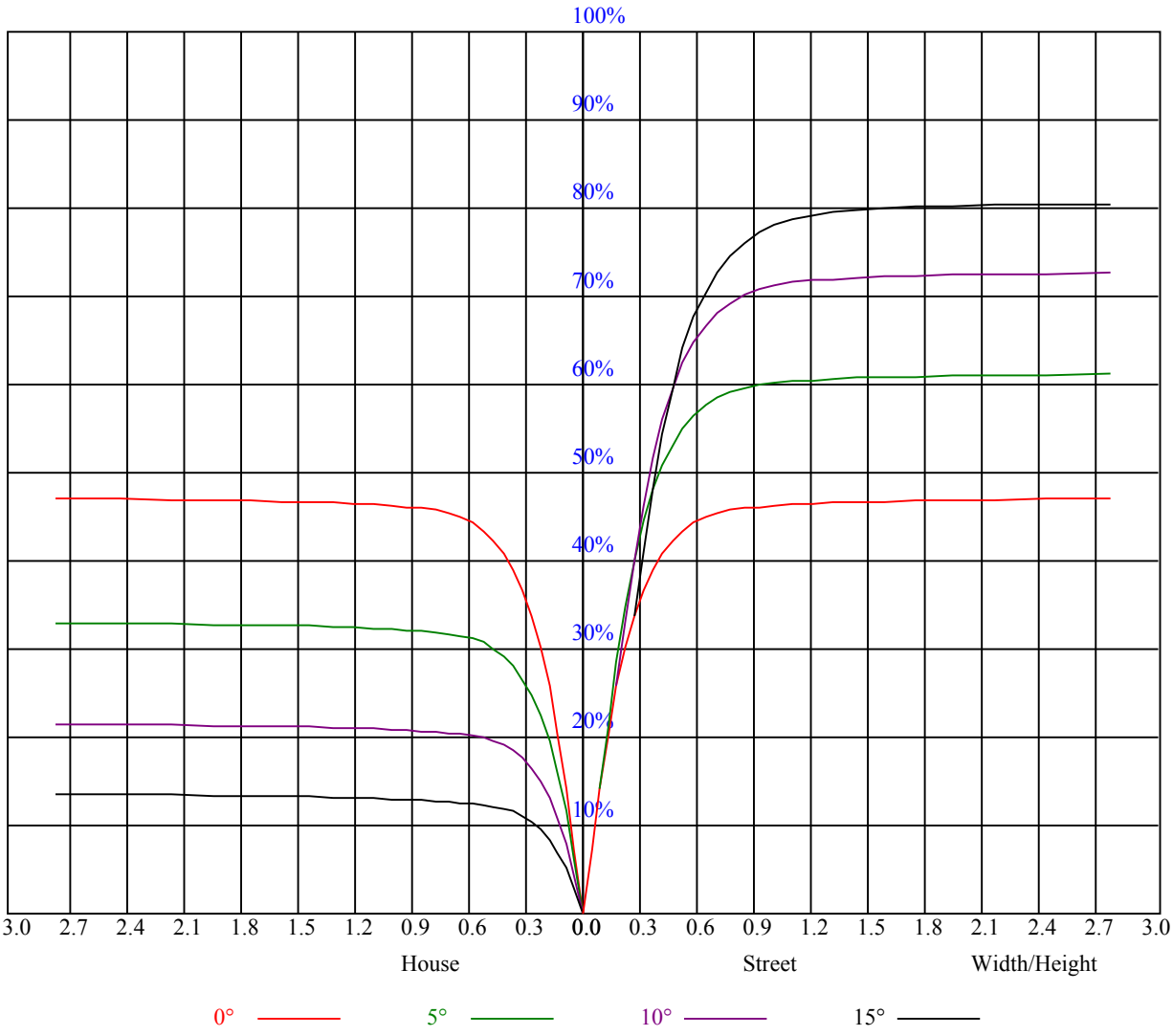


Equipment: GMS1980 Date: 2024/8/6 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

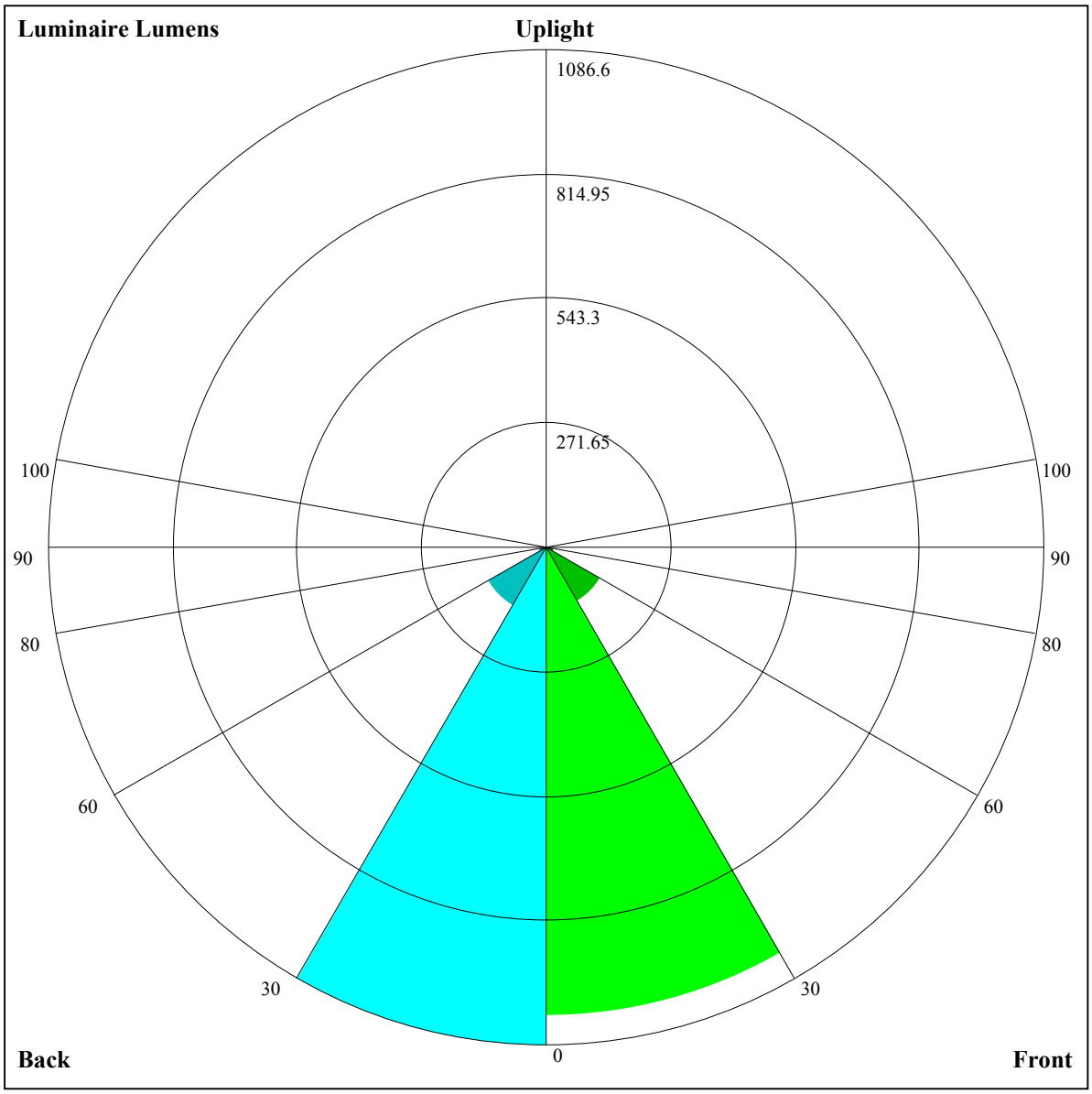
Utilization factor table for indoor luminaire

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	1.13	1.13	1.13	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.06	1.04	1.02	1.04	1.02	1.00	1.00	0.99	0.97	0.97	0.96	0.94	0.93	0.93	0.92	0.90
2	1.00	0.97	0.94	0.98	0.95	0.93	0.95	0.93	0.91	0.93	0.91	0.89	0.90	0.89	0.87	0.86
3	0.95	0.91	0.88	0.94	0.90	0.87	0.91	0.88	0.86	0.89	0.86	0.84	0.87	0.85	0.83	0.82
4	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.78
5	0.86	0.82	0.78	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.75
6	0.83	0.78	0.75	0.82	0.78	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
7	0.79	0.75	0.71	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.69
8	0.76	0.72	0.69	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.67
9	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.64
10	0.71	0.67	0.64	0.71	0.66	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.62

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/8/6	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1021.52,FM=135.24,FH=18.61,FVH=6.15
BL=1086.6,BM=148.74,BH=19.16,BVH=6.21
UL=0,UH=0

BUG Rating:B3-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	9236.08	9083.92	8875.00	8577.70	8123.57	7693.43	7241.05	6768.19	6147.85
45.0	9270.02	9279.97	9169.36	8966.88	8615.16	8265.78	7856.70	7411.35	6812.08
90.0	9262.41	9181.65	9003.75	8745.66	8312.01	7918.15	7492.69	6909.81	6448.65
135.0	9243.69	9278.22	9247.78	9120.79	8853.93	8532.05	8057.44	7646.61	7205.35
180.0	9236.08	9280.56	9253.05	9097.38	8817.64	8512.74	8020.57	7597.45	7153.26
225.0	9270.02	9180.48	8967.46	8680.12	8324.30	7934.54	7401.40	6942.00	6475.57
270.0	9262.41	9258.90	9145.37	8888.46	8602.87	8247.05	7844.41	7286.11	6814.42
315.0	9243.69	9068.71	8823.50	8520.93	8151.07	7616.76	7143.31	6661.09	6154.87
360.0	9236.08	9083.92	8875.00	8577.70	8123.57	7693.43	7241.05	6768.19	6147.85

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5646.89	5151.21	4555.45	4106.58	3668.83	3179.59	2822.60	2504.24	2171.24
45.0	6344.48	5860.50	5363.65	4763.79	4304.97	3869.57	3355.15	2983.54	2645.28
90.0	5974.04	5360.13	4876.15	4407.39	3963.20	3447.62	3070.73	2721.35	2425.23
135.0	6640.02	6164.82	5674.40	5069.86	4597.00	4148.72	3711.56	3201.82	2833.13
180.0	6703.23	6103.37	5601.25	5106.15	4506.29	4056.84	3627.87	3222.31	2768.76
225.0	5985.15	5347.84	4877.32	4399.78	3848.50	3434.74	3052.59	2634.16	2351.49
270.0	6343.90	5845.29	5223.19	4746.82	4290.93	3743.16	3337.01	2873.51	2542.28
315.0	5525.17	5036.50	4448.35	4012.36	3589.83	3107.60	2753.54	2449.81	2182.36
360.0	5646.89	5151.21	4555.45	4106.58	3668.83	3179.59	2822.60	2504.24	2171.24

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1961.73	1786.17	1635.18	1473.66	1282.87	1154.41	1154.41	1041.06	953.51
45.0	2294.73	2061.81	1864.00	1660.34	1522.81	1404.01	1272.34	1178.12	1086.24
90.0	2122.67	1921.94	1714.18	1570.80	1447.32	1158.45	1158.45	1111.52	1019.23
135.0	2525.30	2262.54	1988.65	1801.97	1648.64	1485.36	1371.83	1267.07	1145.93
180.0	2462.10	2211.62	1934.81	1752.81	1603.58	1440.88	1333.79	1235.47	1119.01
225.0	2054.78	1862.83	1696.63	1554.42	1436.20	1154.59	1154.59	1108.42	1021.22
270.0	2266.05	2047.76	1808.40	1643.37	1508.18	1395.23	1272.34	1179.87	1087.99
315.0	1911.99	1742.27	1593.04	1469.56	1163.66	1163.66	1139.43	1028.59	940.46
360.0	1961.73	1786.17	1635.18	1473.66	1282.87	1154.41	1154.41	1041.06	953.51

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	864.73	755.23	671.78	584.64	483.16	411.00	351.78	291.27	250.24
45.0	995.53	885.50	799.48	715.20	630.35	528.52	451.85	386.31	319.59
90.0	905.81	815.63	727.90	641.06	533.20	455.66	387.95	332.17	274.65
135.0	1053.46	960.41	848.05	759.68	672.48	586.45	483.45	412.64	351.78
180.0	1029.47	937.59	852.73	743.29	655.51	568.90	485.21	395.67	338.32
225.0	915.00	827.74	740.78	650.77	542.85	462.68	377.88	323.75	277.86
270.0	976.21	887.84	799.48	684.77	596.40	512.13	419.08	358.22	306.72
315.0	852.73	740.60	650.07	542.39	462.62	394.03	336.80	290.68	240.59
360.0	864.73	755.23	671.78	584.64	483.16	411.00	351.78	291.27	250.24

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	214.25	176.68	150.17	127.52	108.97	89.83	77.31	66.83	58.76
45.0	296.18	296.18	186.75	157.60	132.85	108.15	92.35	79.36	68.71
90.0	235.14	193.71	164.62	139.34	114.06	97.15	82.98	71.51	60.57
135.0	302.03	302.03	210.33	179.14	146.07	124.07	101.60	87.43	75.20
180.0	302.62	302.62	203.31	167.61	142.50	121.67	104.29	86.44	74.85
225.0	229.29	196.75	168.08	137.35	116.81	99.66	85.56	71.16	62.50
270.0	295.60	244.45	183.53	156.43	127.64	108.56	92.93	79.71	66.66
315.0	206.35	176.09	150.52	123.01	104.87	89.89	74.62	64.90	57.70
360.0	214.25	176.68	150.17	127.52	108.97	89.83	77.31	66.83	58.76

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	51.44	47.11	43.01	40.85	39.15	37.04	35.70	34.53	33.59
45.0	58.41	52.38	47.81	44.01	40.73	39.09	37.69	36.05	34.76
90.0	54.13	49.10	45.41	41.90	40.03	38.39	36.75	35.52	34.47
135.0	65.43	56.83	51.62	47.52	44.13	41.43	39.62	38.10	36.64
180.0	65.37	58.23	51.56	47.58	44.42	42.19	39.91	38.22	36.46
225.0	55.77	50.68	45.82	42.90	40.56	38.92	37.34	35.64	34.70
270.0	58.93	53.08	47.52	44.07	41.67	39.62	37.98	36.52	34.94
315.0	50.86	46.70	42.90	40.61	39.15	37.57	35.76	34.53	33.71
360.0	51.44	47.11	43.01	40.85	39.15	37.04	35.70	34.53	33.59

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	32.71	31.95	30.90	29.90	29.03	28.09	26.80	25.11	24.29
45.0	33.59	32.83	32.01	31.08	29.79	29.03	28.27	26.80	25.52
90.0	33.59	32.83	31.60	30.49	29.61	28.85	27.56	26.10	24.93
135.0	35.23	34.29	33.36	32.54	31.19	30.20	29.32	28.32	26.51
180.0	35.29	34.35	33.36	32.42	31.25	30.20	29.32	28.21	26.74
225.0	33.88	33.07	31.66	30.61	29.90	29.14	27.68	26.16	25.05
270.0	34.18	33.30	32.30	30.96	30.02	29.14	28.32	26.80	25.40
315.0	32.95	31.89	30.78	29.73	28.73	27.68	26.28	24.70	23.88
360.0	32.71	31.95	30.90	29.90	29.03	28.09	26.80	25.11	24.29

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	23.23	22.24	21.13	20.25	19.37	18.67	17.85	16.91	16.27
45.0	24.52	23.64	22.77	21.36	20.42	19.49	18.79	18.02	16.97
90.0	24.05	23.00	21.89	20.78	19.96	19.08	18.26	17.15	16.44
135.0	25.22	24.29	23.47	22.53	21.07	20.25	19.55	18.67	17.73
180.0	25.16	24.23	23.35	22.30	20.89	20.07	19.43	18.49	17.62
225.0	23.99	23.12	21.95	20.54	19.90	19.20	18.26	17.32	16.62
270.0	24.23	23.41	22.41	20.95	20.07	19.37	18.73	17.67	16.80
315.0	22.77	21.77	20.60	19.84	19.20	18.32	17.56	16.74	16.15
360.0	23.23	22.24	21.13	20.25	19.37	18.67	17.85	16.91	16.27

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.74	15.33	14.86	14.34	13.99	13.58	13.23	12.87	12.52
45.0	16.33	15.80	15.22	14.81	14.40	13.99	13.58	13.28	12.93
90.0	15.92	15.33	14.86	14.46	14.10	13.64	13.28	12.99	12.64
135.0	16.74	16.21	15.68	15.16	14.69	14.28	13.93	13.52	13.17
180.0	16.62	16.09	15.68	15.16	14.57	14.22	13.87	13.52	13.11
225.0	16.09	15.51	15.04	14.51	14.16	13.75	13.34	12.93	12.52
270.0	16.21	15.74	15.16	14.69	14.28	13.81	13.46	13.11	12.70
315.0	15.57	15.16	14.69	14.16	13.87	13.40	13.05	12.76	12.35
360.0	15.74	15.33	14.86	14.34	13.99	13.58	13.23	12.87	12.52

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.17	11.88	11.65	11.29	11.12	10.89	10.65	10.48	10.36
45.0	12.58	12.23	11.88	11.59	11.29	11.06	10.83	10.59	10.42
90.0	12.23	11.94	11.65	11.35	11.18	10.94	10.71	10.53	10.36
135.0	12.82	12.47	12.11	11.76	11.47	11.24	11.00	10.77	10.53
180.0	12.76	12.35	12.06	11.70	11.41	11.18	10.94	10.77	10.53
225.0	12.29	11.94	11.65	11.35	11.06	10.89	10.71	10.53	10.36
270.0	12.41	12.06	11.76	11.47	11.18	10.94	10.77	10.53	10.36
315.0	12.06	11.76	11.53	11.24	11.00	10.77	10.53	10.36	10.36
360.0	12.17	11.88	11.65	11.29	11.12	10.89	10.65	10.48	10.36

Intensity data(cd)

C/γ(°)	90.0
0.0	10.36
45.0	10.36
90.0	10.30
135.0	10.36
180.0	10.36
225.0	10.36
270.0	10.36
315.0	10.36
360.0	10.36