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NT

Client: NT
LumCAT: 3-2878-L
Luminaire: 92.70.412.00
Report No: 20241112-B010
Ballast type: AC

Test No: 20241122-C010	Voltage(V): 34.300
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.450
Lamp flux(lm): 2610.0	Power (W): 15.435
Number of Lamps: 1	PF: 0.000
Length(mm): 92	Width(mm): 92
Phm Type: C	Height(mm): 50

Photometric Results

Lumens(lm): 2552.78, Efficiency(%): 97.81% , Luminous Efficacy(lm/W): 165.39
Central intensity(cd): 19342.270, Maximum intensity(cd): 19342.270
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=14.6
[C90/270]Total=14.6
Field angle(10%Imax): [C0/180]Total=29.4
[C90/270]Total=29.4
Maximum s/h(1/2): C0_180=0.25 C90_270=0.25
Maximum s/h(1/4): C0_180=0.26 C90_270=0.26
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 97.81%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.544%

Equipment: GMS1980	Date: 2024/11/22	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	19342.271	0.000	0	0.00%	0.00%
1.0	19097.209	18.393	18.393	0.70%	0.72%
2.0	18308.617	53.688	72.081	2.06%	2.82%
3.0	16734.955	83.813	155.894	3.21%	6.11%
4.0	15298.959	107.228	263.121	4.11%	10.31%
5.0	13245.858	122.798	385.92	4.70%	15.12%
6.0	11861.223	131.944	517.864	5.06%	20.29%
7.0	10158.950	136.679	654.543	5.24%	25.64%
8.0	8446.947	133.159	787.702	5.10%	30.86%
9.0	6814.462	123.685	911.387	4.74%	35.70%
10.0	5340.427	109.997	1021.385	4.21%	40.01%
11.0	4164.271	94.971	1116.356	3.64%	43.73%
12.0	3194.334	80.440	1196.796	3.08%	46.88%
13.0	2750.879	70.555	1267.351	2.70%	49.65%
14.0	2245.699	63.956	1331.307	2.45%	52.15%
15.0	1825.002	55.884	1387.191	2.14%	54.34%
16.0	1516.113	48.957	1436.148	1.88%	56.26%
17.0	1379.975	45.100	1481.248	1.73%	58.02%
18.0	1252.850	43.410	1524.657	1.66%	59.73%
19.0	1187.122	42.451	1567.108	1.63%	61.39%
20.0	1132.242	42.451	1609.558	1.63%	63.05%
21.0	1087.480	42.623	1652.182	1.63%	64.72%
22.0	1045.205	42.857	1695.039	1.64%	66.40%
23.0	1010.501	43.134	1738.173	1.65%	68.09%
24.0	980.281	43.526	1781.699	1.67%	69.79%
25.0	952.900	43.956	1825.655	1.68%	71.52%
26.0	928.445	44.409	1870.064	1.70%	73.26%
27.0	905.321	44.863	1914.928	1.72%	75.01%
28.0	883.873	45.299	1960.226	1.74%	76.79%
29.0	863.134	45.707	2005.933	1.75%	78.58%
30.0	844.004	46.092	2052.025	1.77%	80.38%
31.0	824.048	46.419	2098.445	1.78%	82.20%
32.0	802.651	46.603	2145.048	1.79%	84.03%
33.0	781.034	46.656	2191.704	1.79%	85.86%
34.0	754.823	46.480	2238.183	1.78%	87.68%
35.0	708.605	45.449	2283.632	1.74%	89.46%
36.0	641.538	42.989	2326.621	1.65%	91.14%
37.0	553.440	38.973	2365.594	1.49%	92.67%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	460.579	33.847	2399.441	1.30%	93.99%
39.0	356.424	27.887	2427.328	1.07%	95.09%
40.0	275.634	22.044	2449.372	0.84%	95.95%
41.0	220.703	17.674	2467.046	0.68%	96.64%
42.0	105.640	11.857	2478.902	0.45%	97.11%
43.0	69.773	6.498	2485.4	0.25%	97.36%
44.0	29.291	3.739	2489.139	0.14%	97.51%
45.0	23.841	2.042	2491.181	0.08%	97.59%
46.0	22.114	1.797	2492.978	0.07%	97.66%
47.0	21.375	1.730	2494.708	0.07%	97.73%
48.0	20.768	1.704	2496.412	0.07%	97.79%
49.0	20.241	1.684	2498.096	0.06%	97.86%
50.0	19.876	1.673	2499.768	0.06%	97.92%
51.0	19.525	1.667	2501.435	0.06%	97.99%
52.0	19.056	1.656	2503.091	0.06%	98.05%
53.0	18.647	1.640	2504.731	0.06%	98.12%
54.0	18.274	1.627	2506.358	0.06%	98.18%
55.0	17.820	1.611	2507.969	0.06%	98.24%
56.0	17.367	1.590	2509.559	0.06%	98.31%
57.0	16.876	1.566	2511.125	0.06%	98.37%
58.0	16.277	1.533	2512.658	0.06%	98.43%
59.0	15.779	1.499	2514.157	0.06%	98.49%
60.0	15.216	1.464	2515.621	0.06%	98.54%
61.0	14.675	1.426	2517.048	0.05%	98.60%
62.0	14.236	1.393	2518.441	0.05%	98.65%
63.0	13.811	1.364	2519.805	0.05%	98.71%
64.0	13.467	1.339	2521.143	0.05%	98.76%
65.0	13.190	1.319	2522.463	0.05%	98.81%
66.0	12.912	1.302	2523.765	0.05%	98.86%
67.0	12.685	1.287	2525.052	0.05%	98.91%
68.0	12.495	1.276	2526.327	0.05%	98.96%
69.0	12.282	1.264	2527.591	0.05%	99.01%
70.0	12.114	1.253	2528.844	0.05%	99.06%
71.0	11.953	1.244	2530.088	0.05%	99.11%
72.0	11.807	1.235	2531.324	0.05%	99.16%
73.0	11.617	1.225	2532.549	0.05%	99.21%
74.0	11.507	1.216	2533.764	0.05%	99.26%
75.0	11.383	1.209	2534.974	0.05%	99.30%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.331	1.206	2536.179	0.05%	99.35%
77.0	11.258	1.204	2537.384	0.05%	99.40%
78.0	11.192	1.202	2538.586	0.05%	99.44%
79.0	11.141	1.200	2539.786	0.05%	99.49%
80.0	11.097	1.199	2540.984	0.05%	99.54%
81.0	11.046	1.197	2542.182	0.05%	99.58%
82.0	10.988	1.195	2543.377	0.05%	99.63%
83.0	10.929	1.191	2544.568	0.05%	99.68%
84.0	10.863	1.187	2545.755	0.05%	99.72%
85.0	10.797	1.182	2546.938	0.05%	99.77%
86.0	10.768	1.179	2548.116	0.05%	99.82%
87.0	10.717	1.176	2549.292	0.05%	99.86%
88.0	10.644	1.170	2550.462	0.04%	99.91%
89.0	10.563	1.162	2551.625	0.04%	99.95%
90.0	10.476	1.154	2552.778	0.04%	100.00%

Zonal flux distribution table

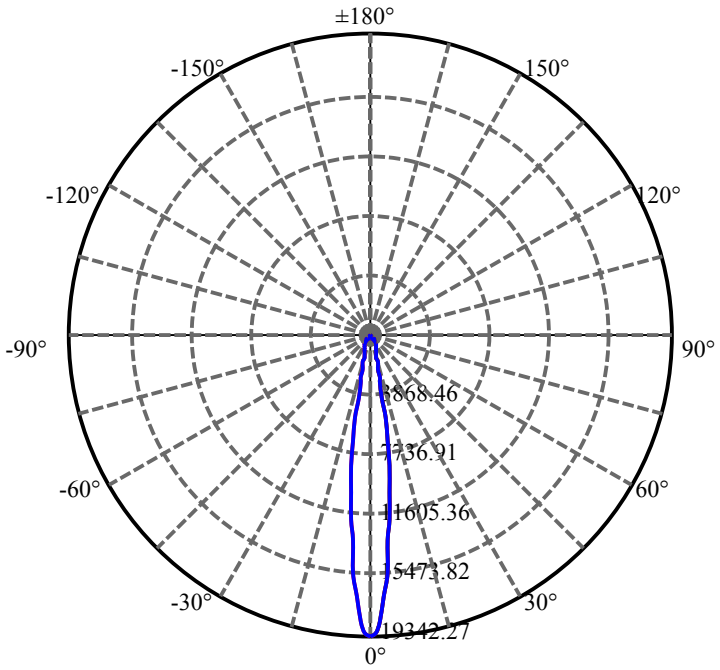
ZONAL LUMEN SUMMARY

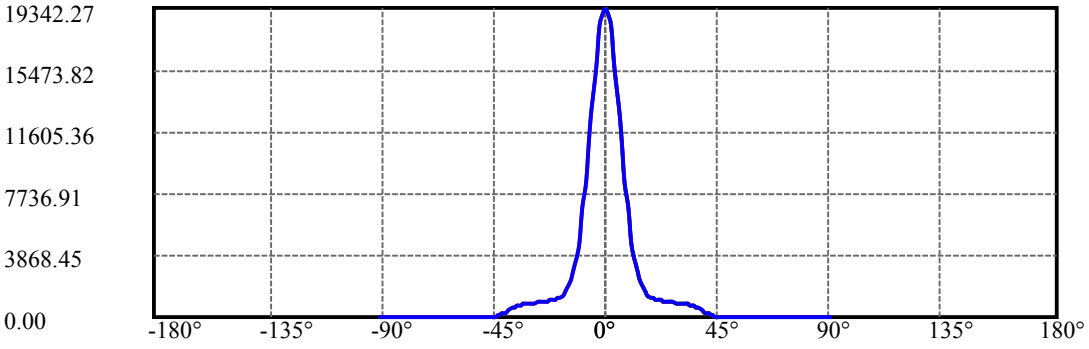
Zone	Lumens	%Lamp	%Fixt
0-30	2052.03	78.62%	80.38%
0-40	2449.37	93.85%	95.95%
0-60	2515.62	96.38%	98.54%
0-90	2551.62	97.76%	99.95%
0-120	2551.62	97.76%	99.95%
0-180	2552.78	97.81%	100.00%
60-90	36.00	1.38%	1.41%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.79	2042.22	78.25%	80.00%

ZONAL LUMEN SUMMARY

0-10	1021.38
10-20	588.17
20-30	442.47
30-40	397.35
40-50	50.40
50-60	15.85
60-70	13.22
70-80	12.14
80-90	10.64
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):

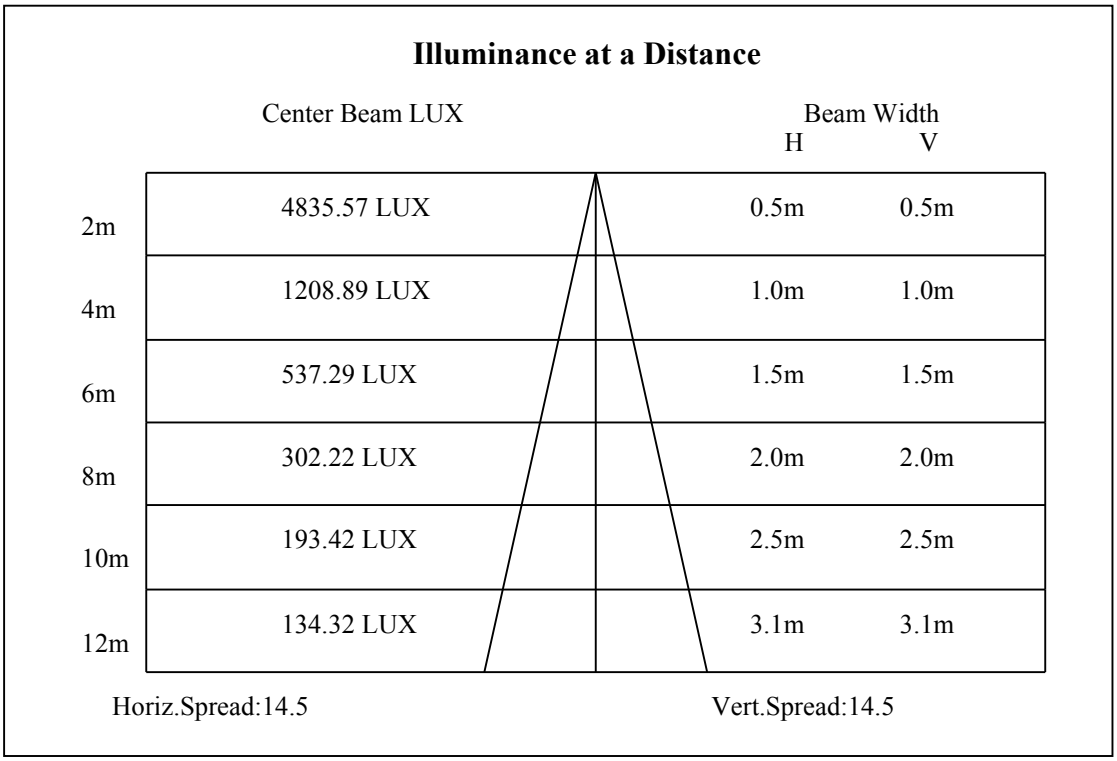
C0/C180:

C90/C270:

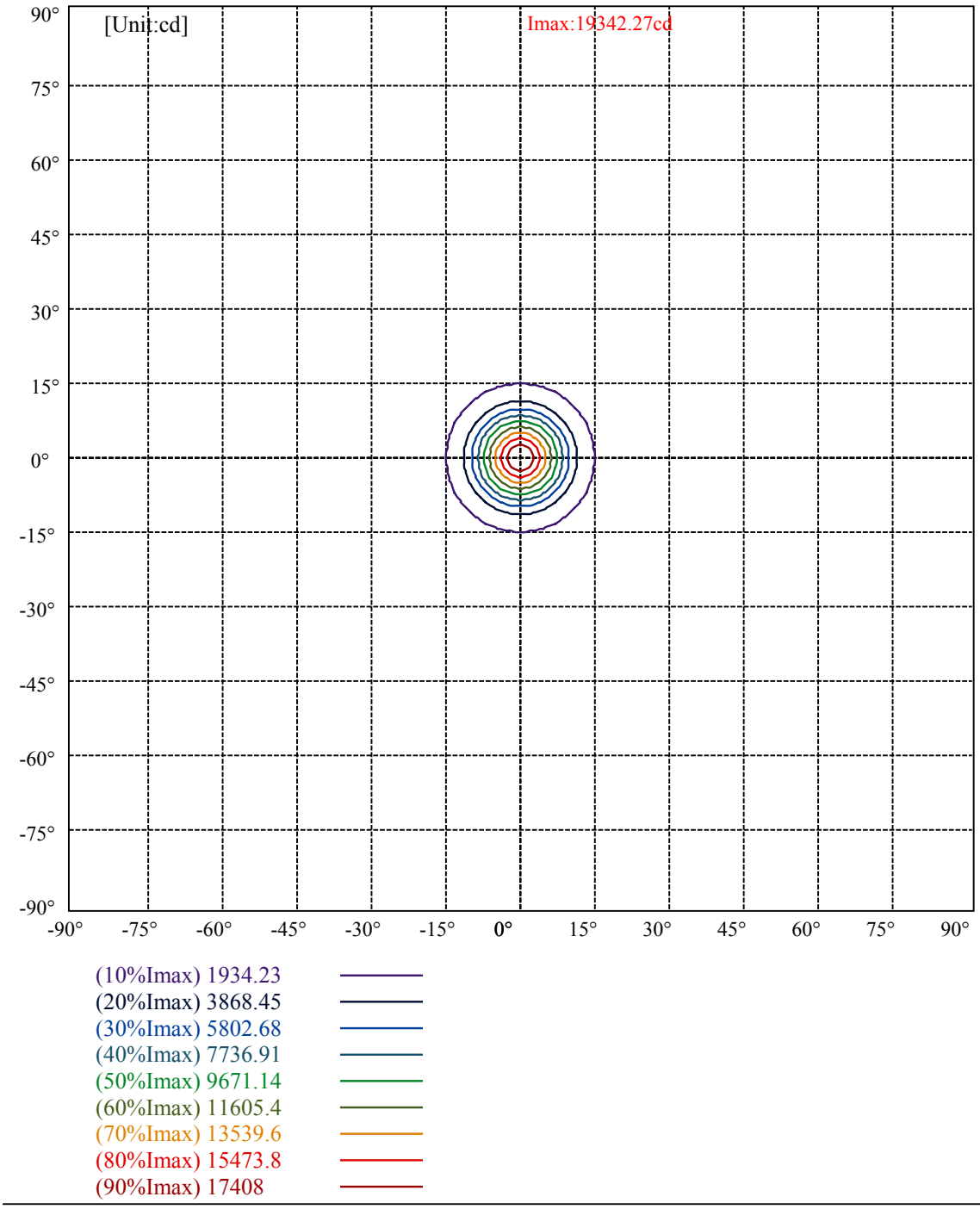
Field angle(10%Imax):C0/180Left:14.7 Right:14.7
:C90/270Left:14.7 Right:14.7

Beam Angle(50%Imax):C0/180Left:7.3 Right:7.3
:C90/270Left:7.3 Right:7.3

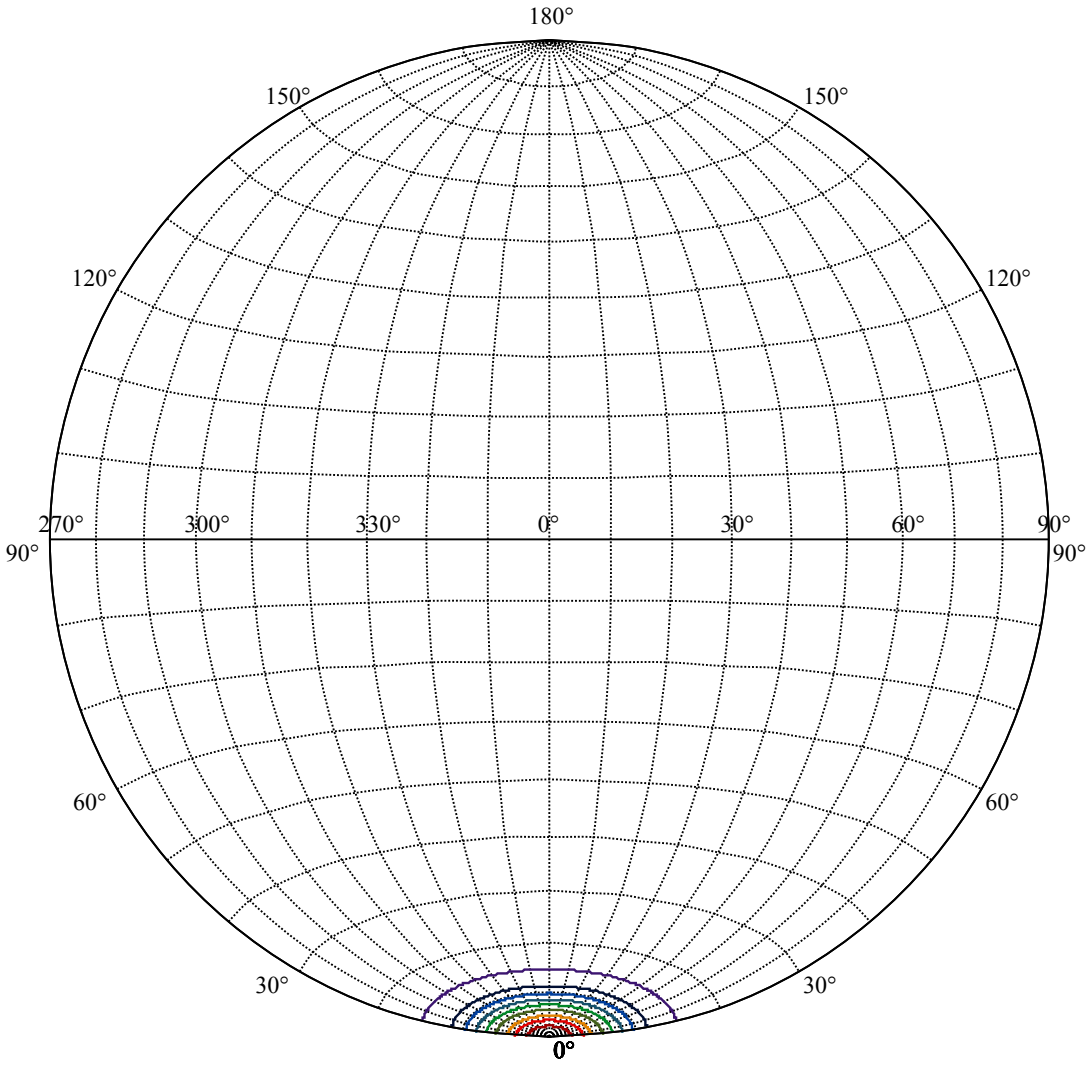
Lux distance Curve



Equipment: GMS1980 Date: 2024/11/22 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65


[Unit:cd]
Imax:19342.27cd
90°
75°
60°
45°
30°
15°
0°
-15°
-30°
-45°
-60°
-75°
-90°
-90° -75° -60° -45° -30° -15° 0° 15° 30° 45° 60° 75° 90°
(10%Imax) 1934.23
(20%Imax) 3868.45
(30%Imax) 5802.68
(40%Imax) 7736.91
(50%Imax) 9671.14
(60%Imax) 11605.4
(70%Imax) 13539.6
(80%Imax) 15473.8
(90%Imax) 17408

ISO candela diagram on circular web

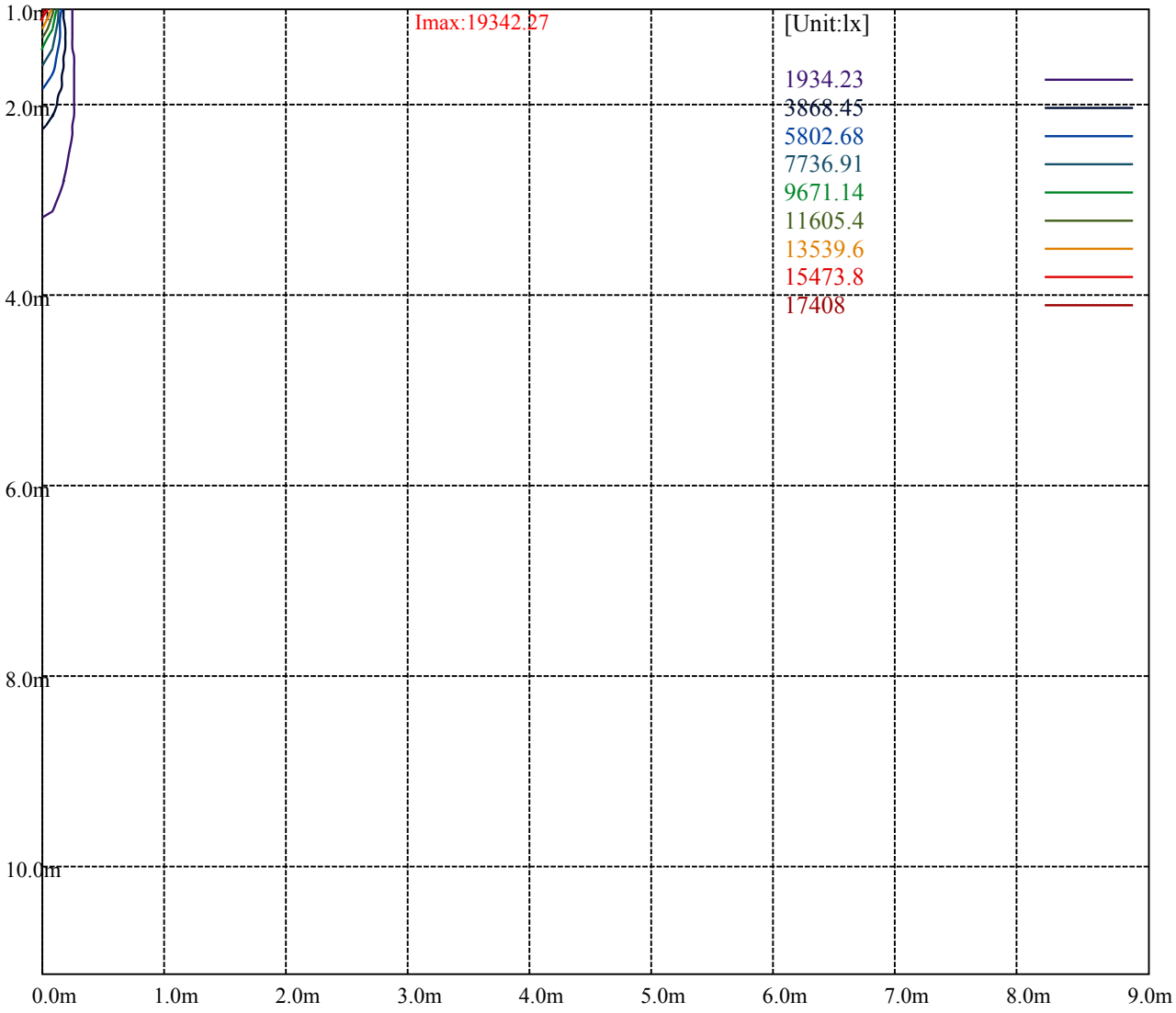


House [Unit:cd] Road

Imax:19342.27

(10%Imax) 1934.23
(20%Imax) 3868.45
(30%Imax) 5802.68
(40%Imax) 7736.91
(50%Imax) 9671.14
(60%Imax) 11605.4
(70%Imax) 13539.6
(80%Imax) 15473.8
(90%Imax) 17408

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/11/22
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT NT 3-2878-L

Luminance Limitting Curve(no luminous side)

Luminance Table

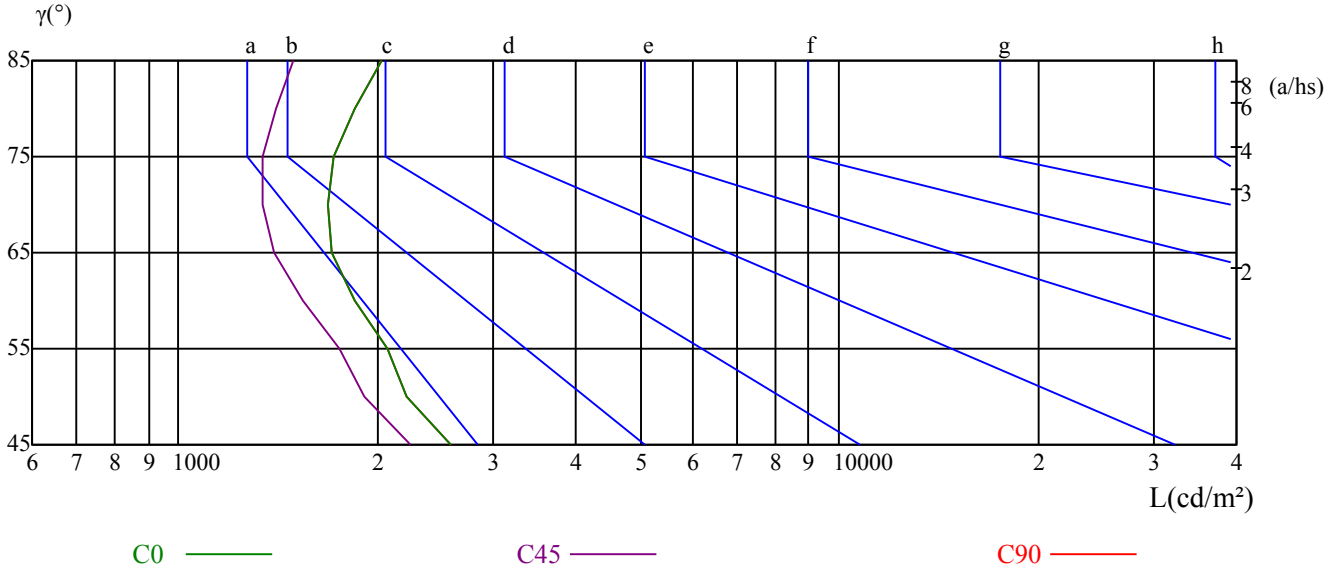
γ	45	50	55	60	65	70	75	80	85
C0	2581	2217	2067	1852	1703	1678	1716	1850	2030
C45	2252	1907	1750	1542	1392	1345	1343	1409	1496
C90	2581	2217	2067	1852	1703	1678	1716	1850	2030

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3687	3687	3687	5196	5196	5196	14637	14637	14637

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

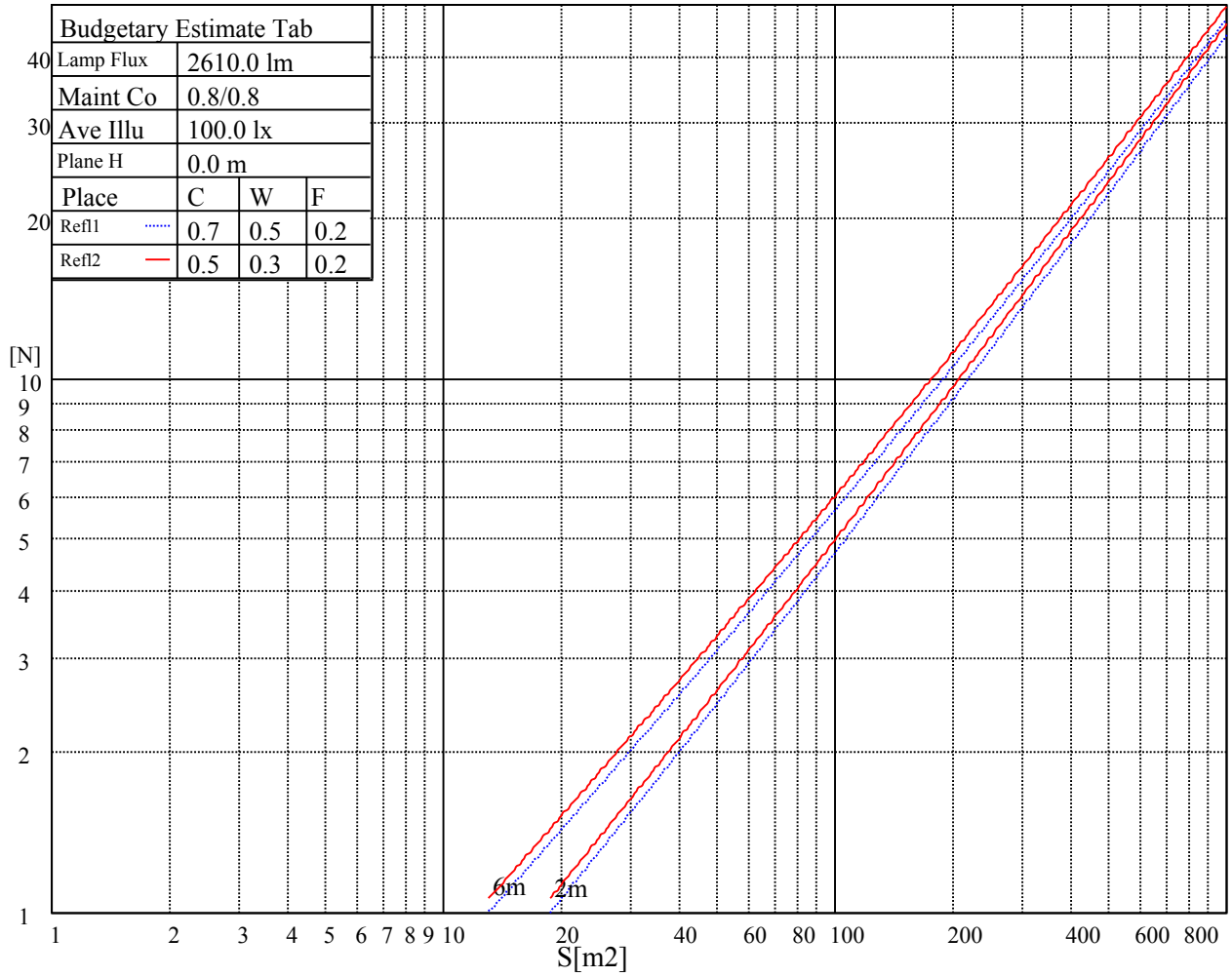


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	15.83	16.77	16.19	17.08	17.39	15.20	16.14	15.56	16.45	16.76
	3H	15.71	16.55	16.10	16.89	17.23	15.09	15.92	15.48	16.26	16.61
	4H	15.68	16.45	16.08	16.81	17.17	15.07	15.84	15.47	16.20	16.56
	6H	15.70	16.41	16.12	16.79	17.19	15.12	15.82	15.54	16.20	16.60
	8H	15.71	16.38	16.13	16.77	17.18	15.14	15.81	15.56	16.20	16.61
	12H	15.74	16.38	16.17	16.77	17.19	15.18	15.82	15.61	16.21	16.63
4H	2H	15.54	16.31	15.94	16.66	17.03	14.91	15.69	15.31	16.04	16.41
	3H	15.43	16.07	15.85	16.47	16.89	14.81	15.46	15.24	15.86	16.28
	4H	15.46	16.03	15.90	16.45	16.90	14.88	15.44	15.32	15.86	16.31
	6H	15.51	16.01	15.99	16.46	16.92	14.97	15.46	15.44	15.91	16.37
	8H	15.60	16.05	16.08	16.51	16.99	15.07	15.53	15.56	15.99	16.46
	12H	15.72	16.14	16.21	16.60	17.12	15.21	15.64	15.71	16.09	16.61
8H	4H	15.33	15.78	15.81	16.24	16.72	14.75	15.21	15.24	15.67	16.15
	6H	15.44	15.82	15.95	16.30	16.81	14.92	15.29	15.43	15.77	16.29
	8H	15.64	15.95	16.17	16.47	16.97	15.15	15.46	15.68	15.98	16.48
	12H	15.86	16.10	16.40	16.62	17.14	15.40	15.64	15.94	16.15	16.68
12H	4H	15.29	15.71	15.78	16.17	16.69	14.72	15.14	15.21	15.60	16.12
	6H	15.47	15.78	16.01	16.31	16.81	14.96	15.27	15.49	15.79	16.29
	8H	15.66	15.90	16.21	16.42	16.94	15.18	15.42	15.72	15.94	16.46

Variation with the observer position at spacings:		
S = 1.0H	4.8/-8.3	4.8/-8.3
S = 1.5H	7.3/-6.7	7.3/-6.7
S = 2.0H	9.0/-5.6	9.0/-5.6
Standard tables:	BK1	BK1
Uncorrected UGR	-2.5	-2.5

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

Budgetary Estimate Table

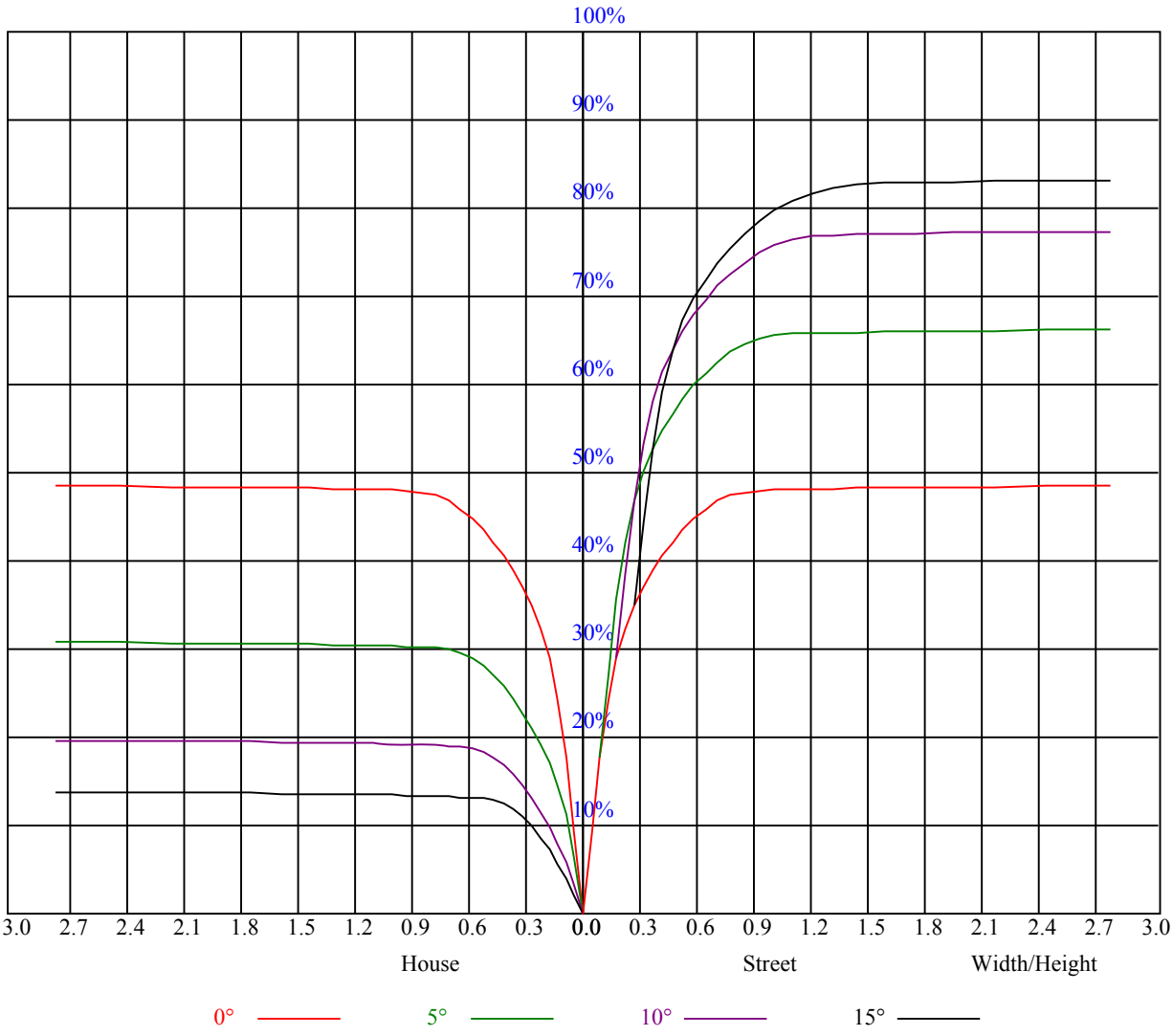


Equipment: GMS1980 Date: 2024/11/22 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

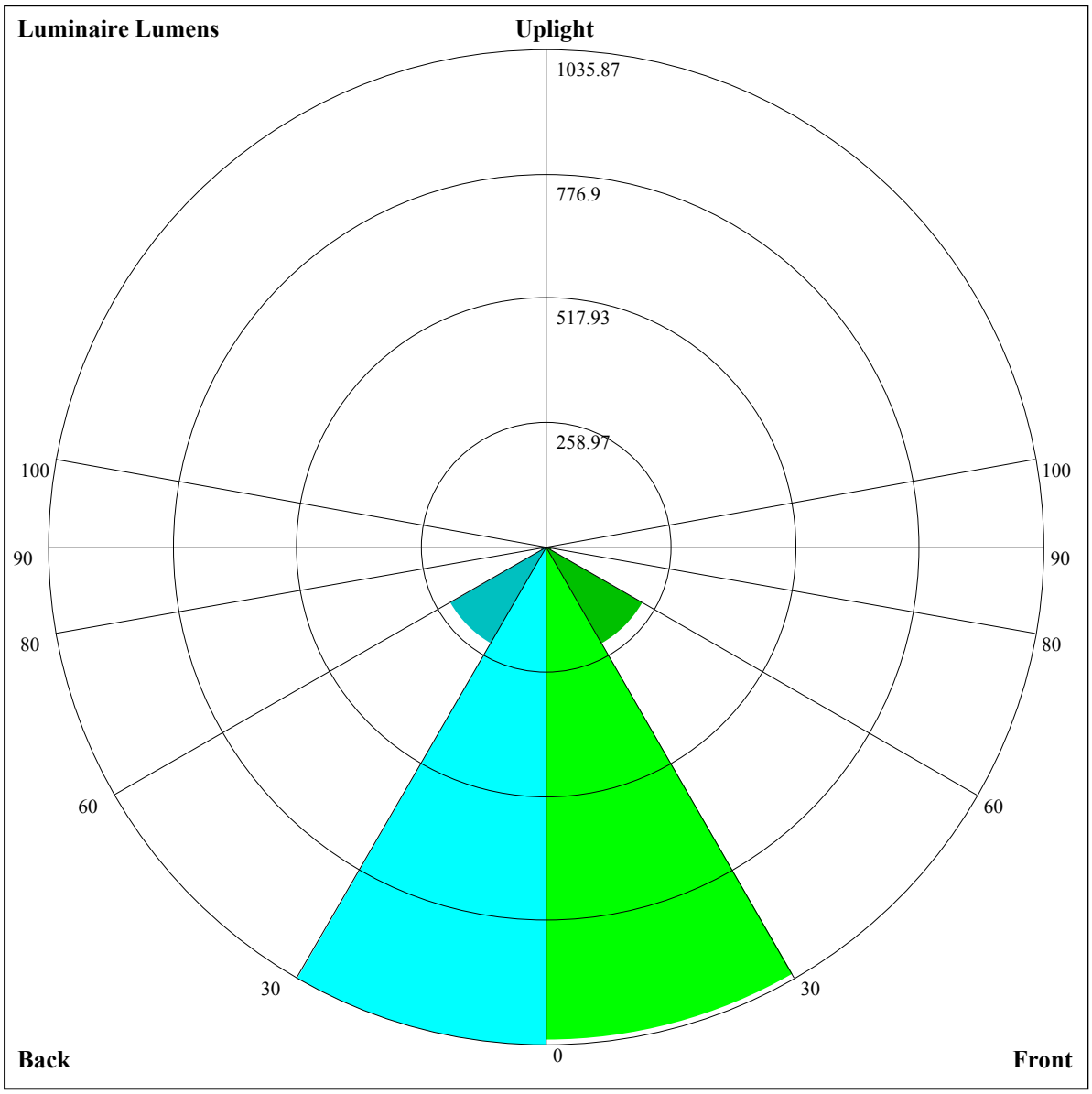
Utilization factor table for indoor luminaire

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	1.16	1.16	1.16	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.98
1	1.10	1.07	1.06	1.07	1.06	1.04	1.04	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.93
2	1.04	1.00	0.98	1.02	0.99	0.96	0.99	0.96	0.94	0.96	0.94	0.92	0.93	0.92	0.90	0.89
3	0.98	0.95	0.91	0.97	0.94	0.91	0.95	0.92	0.89	0.92	0.90	0.88	0.90	0.88	0.87	0.85
4	0.94	0.90	0.86	0.93	0.89	0.86	0.91	0.88	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.82
5	0.90	0.85	0.82	0.89	0.85	0.82	0.87	0.84	0.81	0.86	0.83	0.80	0.85	0.82	0.80	0.79
6	0.86	0.82	0.79	0.86	0.81	0.78	0.84	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.76
7	0.83	0.79	0.75	0.83	0.78	0.75	0.81	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.73
8	0.80	0.76	0.73	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.72	0.71
9	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.68
10	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.73	0.70	0.67	0.66

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/11/22	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1025.02,FM=231.57,FH=12.8,FVH=5.91
BL=1035.87,BM=232.18,BH=12.6,BVH=5.9
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	19269.12	18888.72	17817.76	16565.38	13814.82	11661.84	11242.82	9541.57	7904.69
45.0	19468.09	19122.81	18326.91	16799.47	15254.47	13563.17	11836.76	9683.13	8038.65
90.0	19046.73	18016.74	16296.18	11543.04	11543.04	10657.59	8955.76	6973.01	5580.18
135.0	19585.14	19210.60	18391.28	16863.84	15324.70	13621.70	11866.02	9706.54	8050.36
180.0	19269.12	19093.55	18455.66	17437.36	15734.36	14154.25	12468.80	10742.39	8641.43
225.0	19468.09	19251.56	18584.41	17531.00	15787.03	11483.34	11483.34	10161.91	8441.93
270.0	19046.73	19655.37	19766.56	19321.79	18455.66	17226.68	15716.80	13586.58	11801.65
315.0	19585.14	19538.32	18830.20	17817.76	16477.60	13598.29	11319.48	10876.47	9116.69
360.0	19269.12	18888.72	17817.76	16565.38	13814.82	11661.84	11242.82	9541.57	7904.69

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6407.10	4803.00	3761.30	2959.54	2257.27	1893.85	1649.81	1474.24	1329.69
45.0	6528.77	5235.42	3895.26	3081.79	3081.79	2405.92	1692.53	1500.58	1338.47
90.0	4412.66	3477.47	2600.21	2115.06	1778.56	1553.25	1279.95	1163.72	1163.72
135.0	6189.34	4948.66	3906.96	3087.65	3087.65	1976.95	1710.67	1488.87	1364.22
180.0	7067.18	5650.93	4439.52	3269.07	3081.79	3081.79	1776.22	1574.31	1430.35
225.0	6835.49	5110.83	3994.22	3136.28	2516.53	2012.06	1744.03	1555.59	1422.16
270.0	10028.42	7874.79	6306.38	4661.90	3626.05	3029.12	3029.12	1864.59	1622.30
315.0	7046.75	5622.32	4410.31	3243.38	2577.39	2012.65	1717.69	1507.01	1368.90
360.0	6407.10	4803.00	3761.30	2959.54	2257.27	1893.85	1649.81	1474.24	1329.69

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1165.30	1165.30	1114.50	1071.43	1026.19	998.22	971.53	948.36	921.14
45.0	1253.61	1188.65	1127.20	1089.16	1053.46	1020.69	986.16	961.58	935.25
90.0	1103.56	1043.75	1005.88	972.53	935.66	908.21	885.80	860.22	839.74
135.0	1272.92	1202.70	1131.88	1090.92	1053.46	1013.67	984.41	953.39	931.74
180.0	1310.96	1234.88	1155.88	1100.28	1055.80	1023.03	994.94	962.75	940.52
225.0	1301.01	1160.97	1160.97	1111.34	1068.09	1021.92	990.96	964.63	940.40
270.0	1456.68	1341.98	1241.91	1188.07	1136.57	1093.84	1047.61	1013.67	985.58
315.0	1158.75	1158.75	1119.71	1076.11	1032.40	1004.42	980.84	958.60	933.20
360.0	1165.30	1165.30	1114.50	1071.43	1026.19	998.22	971.53	948.36	921.14

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	900.13	880.65	862.45	841.09	824.58	803.63	782.09	757.52	709.06
45.0	918.86	892.53	872.04	853.32	832.83	811.18	789.53	769.04	725.15
90.0	814.46	795.20	778.23	758.80	736.39	719.83	689.51	632.69	539.52
135.0	911.25	889.60	868.53	851.56	835.17	813.52	791.87	770.80	723.40
180.0	920.62	900.72	876.73	857.41	835.76	812.35	793.62	770.21	734.52
225.0	912.54	891.36	870.93	851.62	828.74	805.27	786.37	761.49	724.16
270.0	951.63	929.40	902.48	881.99	862.68	841.61	819.37	800.06	783.09
315.0	913.07	891.53	873.68	856.24	836.23	813.81	795.91	776.77	729.95
360.0	900.13	880.65	862.45	841.09	824.58	803.63	782.09	757.52	709.06

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	618.70	530.74	433.07	305.49	213.08	133.37	72.63	32.66	24.81
45.0	656.10	548.41	453.02	352.36	302.62	302.62	78.71	39.74	25.69
90.0	455.48	370.51	285.59	183.64	115.82	53.72	33.59	29.79	26.86
135.0	653.75	546.07	452.44	353.53	306.13	306.13	79.12	33.83	25.05
180.0	673.07	572.41	478.77	378.11	302.62	302.62	85.56	39.91	22.06
225.0	662.01	582.77	466.95	366.29	242.40	154.91	84.21	37.81	20.19
270.0	750.32	694.14	619.81	535.54	441.90	320.76	297.35	297.35	61.98
315.0	662.88	582.47	494.98	376.42	280.50	191.49	113.94	47.11	27.68
360.0	618.70	530.74	433.07	305.49	213.08	133.37	72.63	32.66	24.81

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	23.58	22.59	21.83	21.36	20.89	20.54	20.19	19.96	19.61
45.0	23.35	22.06	21.48	20.60	20.13	19.90	19.55	19.20	18.73
90.0	25.93	25.16	23.99	23.12	22.59	21.83	21.01	19.66	18.79
135.0	22.77	22.18	21.89	21.54	21.42	21.36	21.24	20.78	20.19
180.0	19.66	17.91	17.62	17.32	16.85	16.44	16.15	16.04	15.92
225.0	18.08	16.62	16.15	15.74	15.39	15.10	14.98	14.86	14.69
270.0	32.71	27.45	25.57	24.93	23.94	23.35	22.88	22.18	21.89
315.0	24.64	22.94	22.47	21.54	20.72	20.48	20.19	19.78	19.37
360.0	23.58	22.59	21.83	21.36	20.89	20.54	20.19	19.96	19.61

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	19.31	18.90	18.67	18.43	18.08	17.67	17.15	16.74	16.33
45.0	18.26	17.91	17.50	17.15	16.50	16.09	15.74	15.04	14.69
90.0	18.08	17.15	16.56	15.92	14.98	14.46	13.93	13.64	13.28
135.0	19.66	19.08	18.61	17.85	17.09	16.39	15.57	14.86	14.16
180.0	15.80	15.68	15.63	15.57	15.39	15.22	14.98	14.81	14.57
225.0	14.57	14.46	14.34	14.10	13.87	13.69	13.34	13.17	12.99
270.0	21.36	20.89	20.07	19.08	18.26	17.50	16.39	15.22	14.46
315.0	19.14	18.49	17.56	16.91	16.04	15.22	14.63	13.93	13.40
360.0	19.31	18.90	18.67	18.43	18.08	17.67	17.15	16.74	16.33

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.92	15.45	14.98	14.57	14.05	13.58	13.05	12.70	12.35
45.0	14.34	13.93	13.64	13.28	13.05	12.82	12.52	12.23	12.06
90.0	13.05	12.93	12.82	12.70	12.52	12.41	12.23	12.11	11.88
135.0	13.69	13.34	13.11	12.87	12.70	12.58	12.47	12.23	12.17
180.0	14.28	13.99	13.64	13.28	12.99	12.64	12.29	12.11	11.88
225.0	12.70	12.47	12.23	12.06	11.88	11.76	11.65	11.59	11.47
270.0	13.64	13.17	12.87	12.47	12.35	12.29	12.29	12.23	12.17
315.0	12.87	12.47	12.23	12.06	11.94	11.88	11.76	11.70	11.65
360.0	15.92	15.45	14.98	14.57	14.05	13.58	13.05	12.70	12.35

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.94	11.65	11.47	11.29	11.24	11.18	11.18	11.12	11.06
45.0	11.82	11.53	11.29	11.12	11.12	11.06	11.00	11.00	11.00
90.0	11.76	11.59	11.53	11.47	11.41	11.29	11.24	11.18	11.12
135.0	12.06	11.76	11.65	11.53	11.47	11.41	11.29	11.18	11.12
180.0	11.70	11.53	11.35	11.18	11.12	11.06	11.00	10.94	10.89
225.0	11.47	11.35	11.29	11.18	11.12	11.06	10.94	10.94	10.94
270.0	12.17	12.11	12.11	12.06	11.94	11.88	11.82	11.70	11.59
315.0	11.53	11.41	11.35	11.24	11.24	11.12	11.06	11.06	11.06
360.0	11.94	11.65	11.47	11.29	11.24	11.18	11.18	11.12	11.06

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.06	11.06	11.00	10.94	10.89	10.89	10.83	10.77	10.77
45.0	10.94	10.94	10.89	10.83	10.77	10.77	10.71	10.71	10.65
90.0	11.00	10.94	10.89	10.71	10.65	10.59	10.65	10.48	10.42
135.0	11.06	10.94	10.89	10.83	10.77	10.71	10.65	10.59	10.42
180.0	10.89	10.89	10.83	10.83	10.77	10.77	10.71	10.65	10.53
225.0	10.94	10.89	10.83	10.83	10.77	10.77	10.71	10.65	10.59
270.0	11.47	11.35	11.24	11.12	11.00	10.94	10.83	10.77	10.65
315.0	11.00	10.89	10.89	10.83	10.77	10.71	10.65	10.53	10.48
360.0	11.06	11.06	11.00	10.94	10.89	10.89	10.83	10.77	10.77

Intensity data(cd)

C/γ(°)	90.0
0.0	10.53
45.0	10.48
90.0	10.42
135.0	10.42
180.0	10.48
225.0	10.48
270.0	10.59
315.0	10.42
360.0	10.53