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NT

Client: NT
LumCAT: 3-2880-L
Luminaire: 92.70.412.00
Report No: 20241122-B012
Ballast type: AC

Test No: 20241122-C012	Voltage(V): 34.280
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.450
Lamp flux(lm): 2610.0	Power (W): 15.426
Number of Lamps: 1	PF: 0.000
Length(mm): 92	Width(mm): 92
Phm Type: C	Height(mm): 50

Photometric Results

Lumens(lm): 2572.70, Efficiency(%): 98.57% , Luminous Efficacy(lm/W): 166.78
Central intensity(cd): 9740.983, Maximum intensity(cd): 9740.983
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.2
[C90/270]Total=24.2
Field angle(10%Imax): [C0/180]Total=48.8
[C90/270]Total=48.8
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
Maximum s/h(1/4): C0_180=0.39 C90_270=0.39
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 98.57%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.537%

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	9740.982	0.000	0	0.00%	0.00%
1.0	9712.379	9.308	9.308	0.36%	0.36%
2.0	9637.836	27.773	37.081	1.06%	1.44%
3.0	9514.135	45.805	82.887	1.75%	3.22%
4.0	9314.207	63.024	145.911	2.41%	5.67%
5.0	9037.322	78.947	224.858	3.02%	8.74%
6.0	8655.975	92.983	317.841	3.56%	12.35%
7.0	8208.132	104.675	422.517	4.01%	16.42%
8.0	7652.680	113.513	536.029	4.35%	20.84%
9.0	7091.888	119.497	655.526	4.58%	25.48%
10.0	6381.059	121.925	777.451	4.67%	30.22%
11.0	5702.710	120.742	898.193	4.63%	34.91%
12.0	4934.456	116.279	1014.472	4.46%	39.43%
13.0	4214.703	108.577	1123.05	4.16%	43.65%
14.0	3527.868	99.104	1222.154	3.80%	47.50%
15.0	2940.083	88.795	1310.949	3.40%	50.96%
16.0	2418.720	78.521	1389.471	3.01%	54.01%
17.0	1984.922	68.577	1458.047	2.63%	56.67%
18.0	1588.644	58.920	1516.967	2.26%	58.96%
19.0	1358.658	51.277	1568.245	1.96%	60.96%
20.0	1230.275	47.385	1615.629	1.82%	62.80%
21.0	1134.225	45.403	1661.032	1.74%	64.56%
22.0	1068.087	44.256	1705.289	1.70%	66.28%
23.0	1022.929	43.875	1749.164	1.68%	67.99%
24.0	984.641	43.893	1793.057	1.68%	69.70%
25.0	956.843	44.145	1837.202	1.69%	71.41%
26.0	931.408	44.572	1881.774	1.71%	73.14%
27.0	906.521	44.965	1926.739	1.72%	74.89%
28.0	885.321	45.366	1972.105	1.74%	76.66%
29.0	864.304	45.775	2017.88	1.75%	78.43%
30.0	845.087	46.153	2064.033	1.77%	80.23%
31.0	825.365	46.486	2110.52	1.78%	82.04%
32.0	806.067	46.739	2157.258	1.79%	83.85%
33.0	785.716	46.895	2204.153	1.80%	85.67%
34.0	764.121	46.903	2251.055	1.80%	87.50%
35.0	724.728	46.238	2297.294	1.77%	89.30%
36.0	661.012	44.122	2341.416	1.69%	91.01%
37.0	577.361	40.389	2381.805	1.55%	92.58%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	479.160	35.265	2417.07	1.35%	93.95%
39.0	373.374	29.099	2446.169	1.11%	95.08%
40.0	281.106	22.826	2468.995	0.87%	95.97%
41.0	219.832	17.838	2486.833	0.68%	96.66%
42.0	135.209	12.899	2499.732	0.49%	97.16%
43.0	50.417	6.876	2506.609	0.26%	97.43%
44.0	29.532	3.017	2509.626	0.12%	97.55%
45.0	24.023	2.058	2511.684	0.08%	97.63%
46.0	22.487	1.819	2513.503	0.07%	97.70%
47.0	21.602	1.754	2515.257	0.07%	97.77%
48.0	20.761	1.713	2516.969	0.07%	97.83%
49.0	19.942	1.671	2518.641	0.06%	97.90%
50.0	19.254	1.634	2520.275	0.06%	97.96%
51.0	18.376	1.592	2521.867	0.06%	98.02%
52.0	17.674	1.547	2523.414	0.06%	98.08%
53.0	17.147	1.515	2524.929	0.06%	98.14%
54.0	16.694	1.492	2526.42	0.06%	98.20%
55.0	16.372	1.476	2527.896	0.06%	98.26%
56.0	16.042	1.465	2529.361	0.06%	98.32%
57.0	15.633	1.448	2530.809	0.06%	98.37%
58.0	15.289	1.430	2532.239	0.05%	98.43%
59.0	14.989	1.416	2533.655	0.05%	98.48%
60.0	14.601	1.398	2535.053	0.05%	98.54%
61.0	14.331	1.381	2536.433	0.05%	98.59%
62.0	14.038	1.367	2537.8	0.05%	98.64%
63.0	13.789	1.353	2539.154	0.05%	98.70%
64.0	13.592	1.344	2540.497	0.05%	98.75%
65.0	13.431	1.337	2541.835	0.05%	98.80%
66.0	13.241	1.331	2543.165	0.05%	98.85%
67.0	13.087	1.324	2544.489	0.05%	98.90%
68.0	12.904	1.317	2545.806	0.05%	98.95%
69.0	12.721	1.307	2547.113	0.05%	99.01%
70.0	12.516	1.296	2548.409	0.05%	99.06%
71.0	12.348	1.285	2549.694	0.05%	99.11%
72.0	12.173	1.275	2550.969	0.05%	99.16%
73.0	11.975	1.263	2552.232	0.05%	99.20%
74.0	11.778	1.249	2553.481	0.05%	99.25%
75.0	11.587	1.235	2554.715	0.05%	99.30%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.448	1.223	2555.938	0.05%	99.35%
77.0	11.361	1.216	2557.154	0.05%	99.40%
78.0	11.295	1.213	2558.367	0.05%	99.44%
79.0	11.236	1.211	2559.578	0.05%	99.49%
80.0	11.185	1.209	2560.786	0.05%	99.54%
81.0	11.119	1.206	2561.993	0.05%	99.58%
82.0	11.075	1.204	2563.196	0.05%	99.63%
83.0	11.031	1.202	2564.398	0.05%	99.68%
84.0	10.995	1.200	2565.598	0.05%	99.72%
85.0	10.936	1.197	2566.795	0.05%	99.77%
86.0	10.871	1.192	2567.987	0.05%	99.82%
87.0	10.805	1.186	2569.173	0.05%	99.86%
88.0	10.775	1.182	2570.355	0.05%	99.91%
89.0	10.666	1.175	2571.531	0.05%	99.95%
90.0	10.593	1.166	2572.696	0.04%	100.00%

Zonal flux distribution table

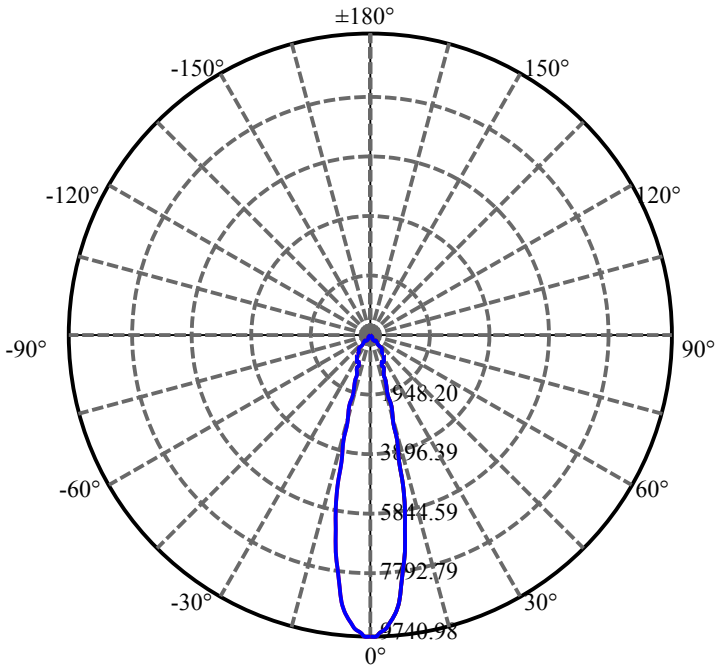
ZONAL LUMEN SUMMARY

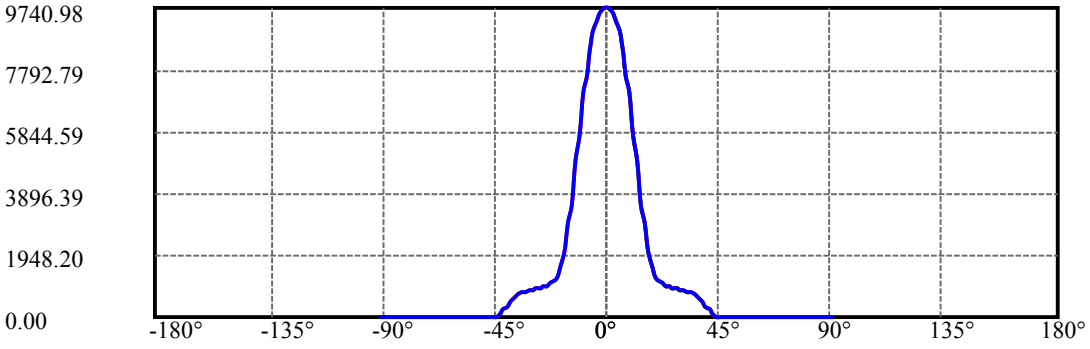
Zone	Lumens	%Lamp	%Fixt
0-30	2064.03	79.08%	80.23%
0-40	2469.00	94.60%	95.97%
0-60	2535.05	97.13%	98.54%
0-90	2571.53	98.53%	99.95%
0-120	2571.53	98.53%	99.95%
0-180	2572.70	98.57%	100.00%
60-90	36.48	1.40%	1.42%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.87	2058.16	78.86%	80.00%

ZONAL LUMEN SUMMARY

0-10	777.45
10-20	838.18
20-30	448.40
30-40	404.96
40-50	51.28
50-60	14.78
60-70	13.36
70-80	12.38
80-90	10.74
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):

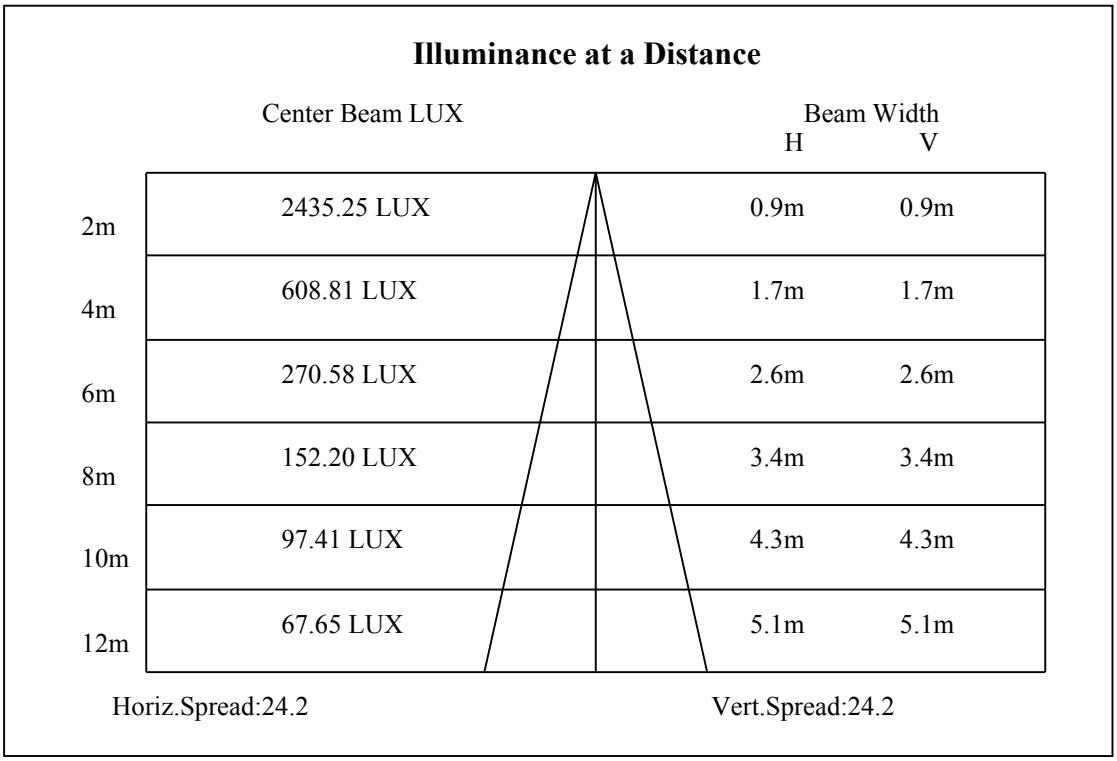
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:24.4 Right:24.4
:C90/270Left:24.4 Right:24.4

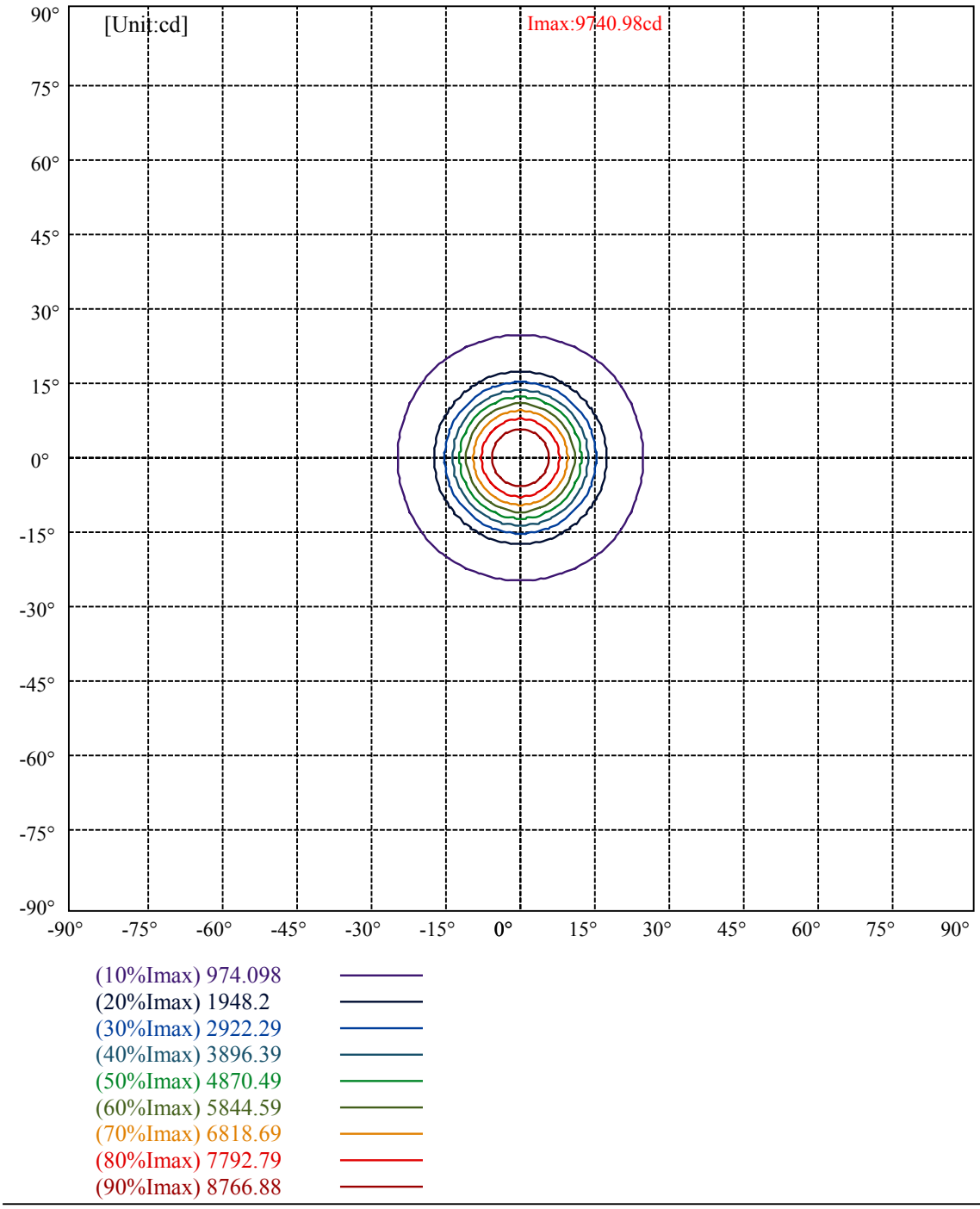
Beam Angle(50%Imax):C0/180Left:12.1 Right:12.1
:C90/270Left:12.1 Right:12.1

Lux distance Curve



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

ISO-Intensity(V-H)



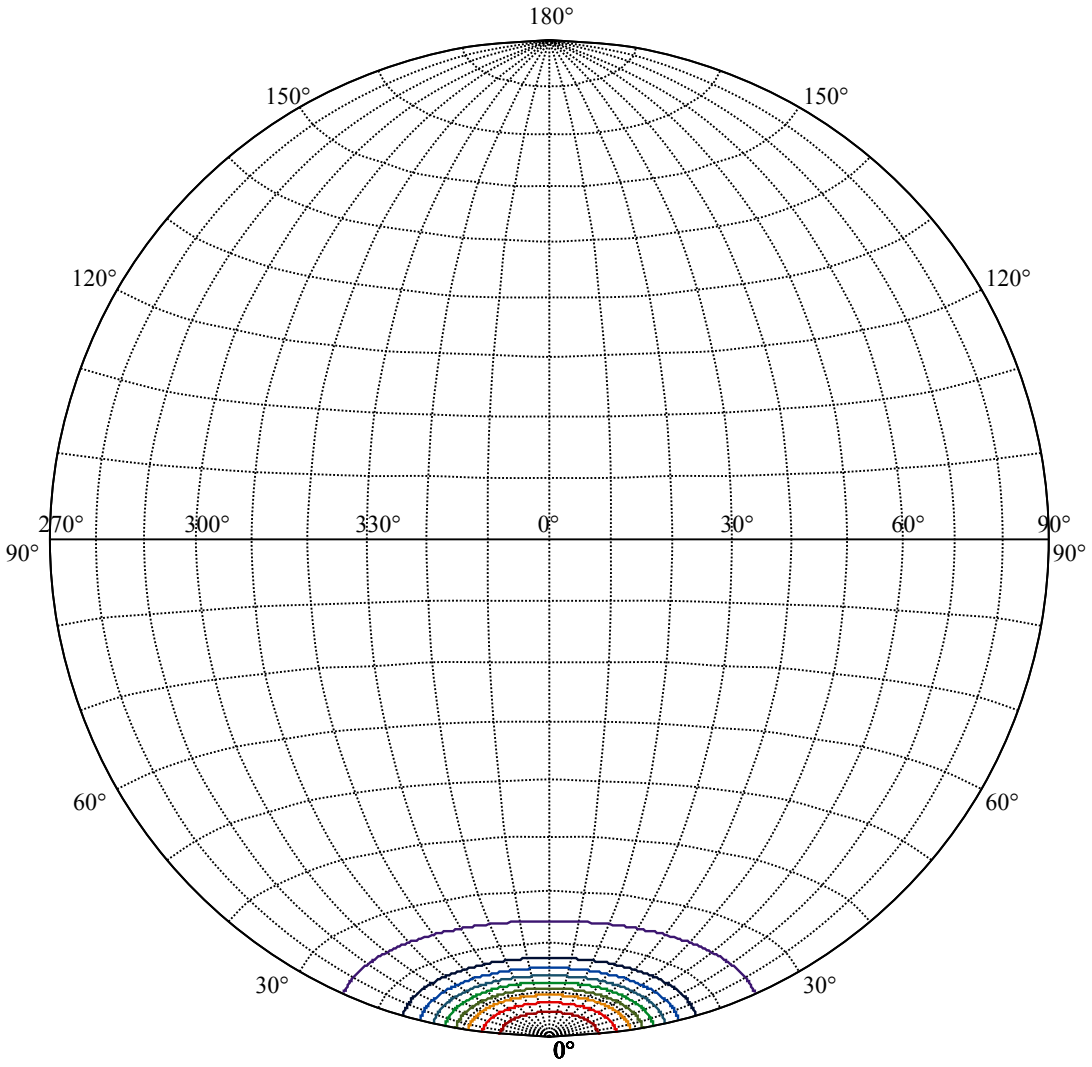
(10%Imax) 974.098
(20%Imax) 1948.2
(30%Imax) 2922.29
(40%Imax) 3896.39
(50%Imax) 4870.49
(60%Imax) 5844.59
(70%Imax) 6818.69
(80%Imax) 7792.79
(90%Imax) 8766.88

Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:9740.98

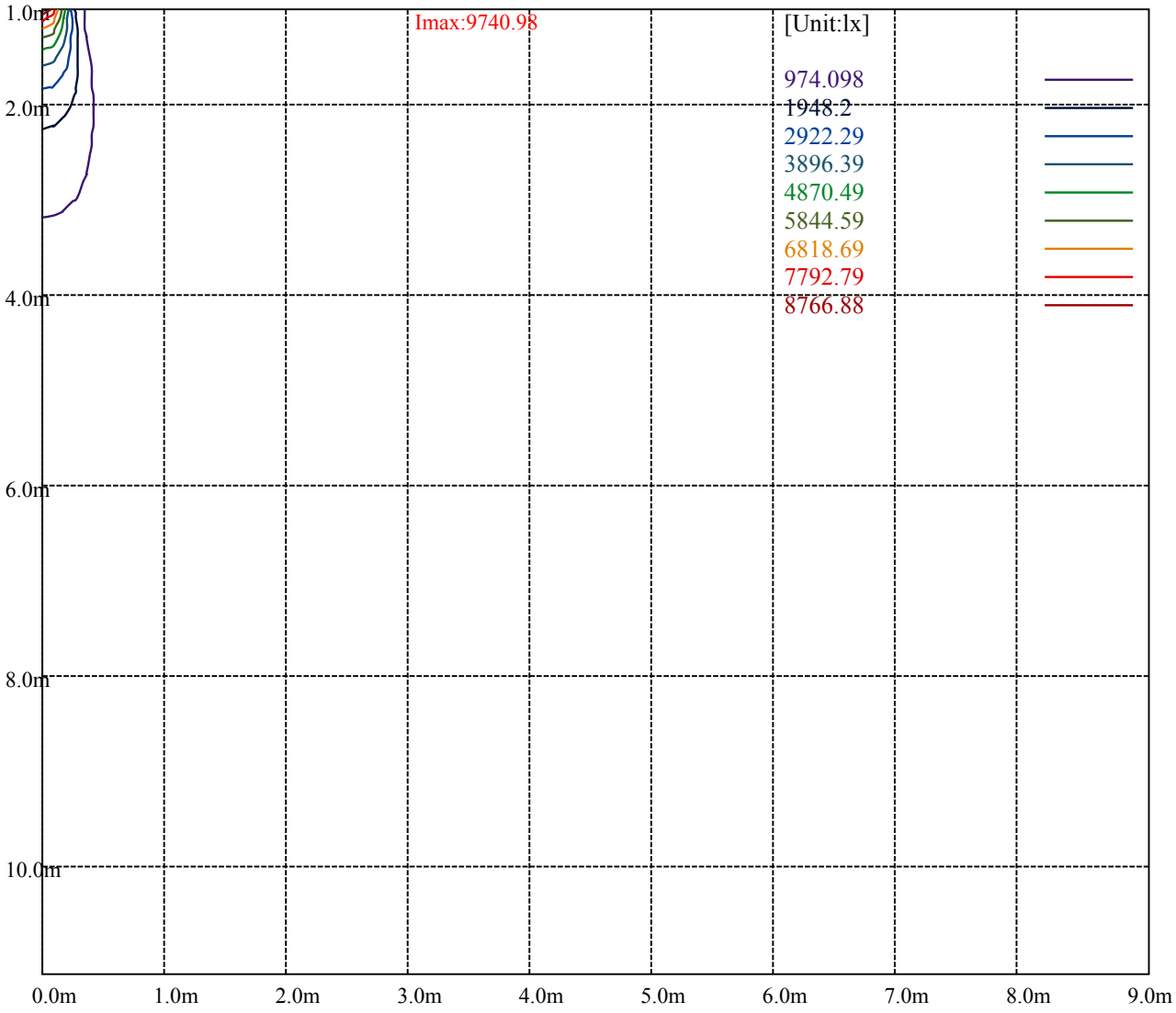
(10%Imax) 974.098
(20%Imax) 1948.2
(30%Imax) 2922.29
(40%Imax) 3896.39
(50%Imax) 4870.49
(60%Imax) 5844.59
(70%Imax) 6818.69
(80%Imax) 7792.79
(90%Imax) 8766.88

Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

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 3-2880-L

Luminance Limitting Curve(no luminous side)

Luminance Table

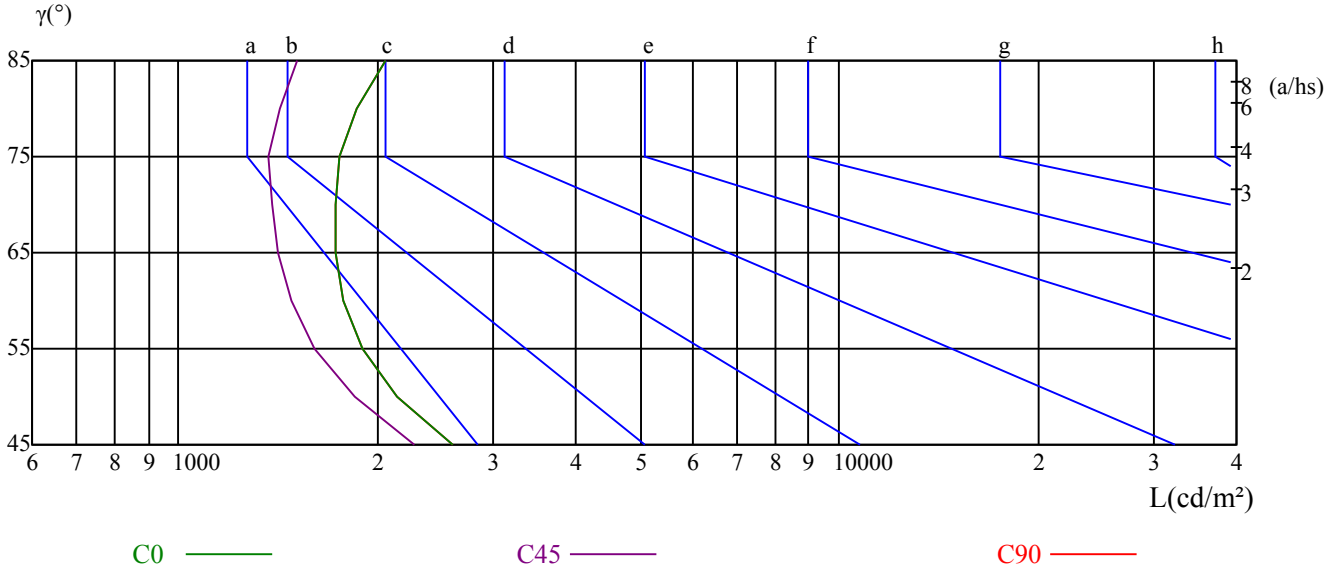
γ	45	50	55	60	65	70	75	80	85
C0	2601	2148	1899	1777	1734	1734	1747	1864	2056
C45	2270	1847	1608	1480	1418	1390	1367	1420	1515
C90	2601	2148	1899	1777	1734	1734	1747	1864	2056

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3755	3755	3755	5290	5290	5290	14825	14825	14825

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

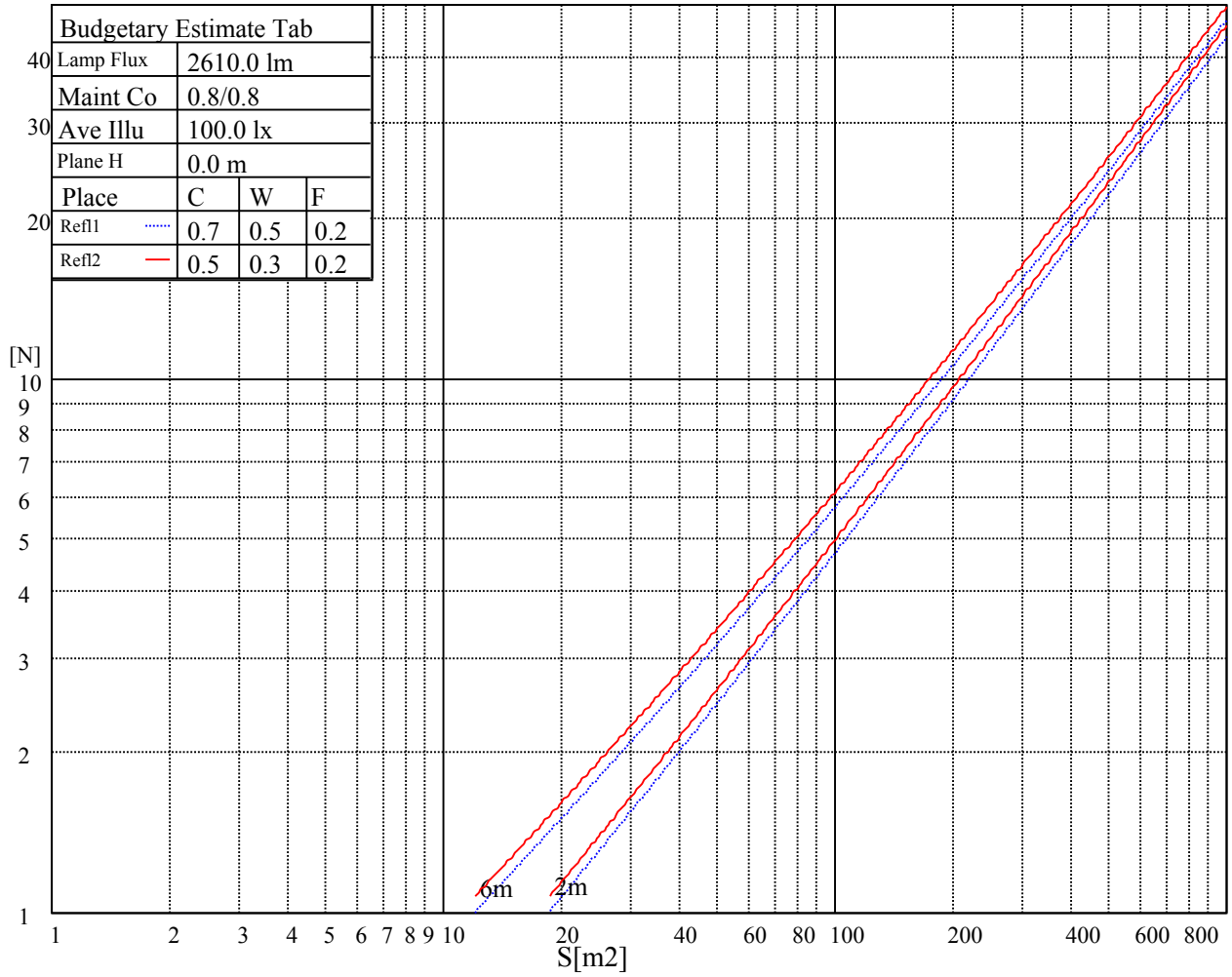


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	16.32	17.26	16.68	17.57	17.88	16.01	16.94	16.37	17.25	17.57
	3H	16.19	17.03	16.58	17.36	17.71	15.88	16.71	16.27	17.05	17.40
	4H	16.15	16.93	16.55	17.28	17.65	15.84	16.62	16.24	16.97	17.34
	6H	16.16	16.87	16.58	17.25	17.65	15.86	16.57	16.28	16.94	17.34
	8H	16.16	16.83	16.58	17.22	17.63	15.86	16.54	16.28	16.92	17.33
	12H	16.18	16.81	16.60	17.21	17.63	15.89	16.52	16.31	16.92	17.34
4H	2H	16.02	16.79	16.42	17.15	17.52	15.71	16.49	16.11	16.84	17.21
	3H	15.90	16.55	16.33	16.94	17.36	15.59	16.24	16.02	16.64	17.05
	4H	15.93	16.49	16.37	16.91	17.36	15.63	16.19	16.07	16.61	17.06
	6H	15.96	16.45	16.43	16.90	17.36	15.67	16.16	16.14	16.62	17.07
	8H	16.02	16.48	16.51	16.94	17.41	15.74	16.20	16.23	16.66	17.13
	12H	16.13	16.55	16.62	17.00	17.52	15.85	16.28	16.35	16.73	17.25
8H	4H	15.78	16.24	16.27	16.70	17.18	15.49	15.95	15.98	16.41	16.88
	6H	15.87	16.24	16.37	16.72	17.24	15.59	15.97	16.10	16.45	16.96
	8H	16.04	16.35	16.57	16.88	17.37	15.77	16.09	16.31	16.61	17.11
	12H	16.23	16.47	16.78	16.99	17.51	15.98	16.22	16.53	16.74	17.26
12H	4H	15.75	16.17	16.24	16.62	17.14	15.45	15.88	15.94	16.33	16.85
	6H	15.89	16.20	16.43	16.73	17.23	15.62	15.93	16.15	16.45	16.95
	8H	16.05	16.29	16.60	16.81	17.34	15.80	16.04	16.34	16.55	17.08

Variation with the observer position at spacings:		
S = 1.0H	4.7/-8.3	4.7/-8.3
S = 1.5H	7.2/-6.8	7.2/-6.8
S = 2.0H	8.9/-5.7	8.9/-5.7
Standard tables:	BK1	BK1
Uncorrected UGR	-2.4	-2.4

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

Budgetary Estimate Table

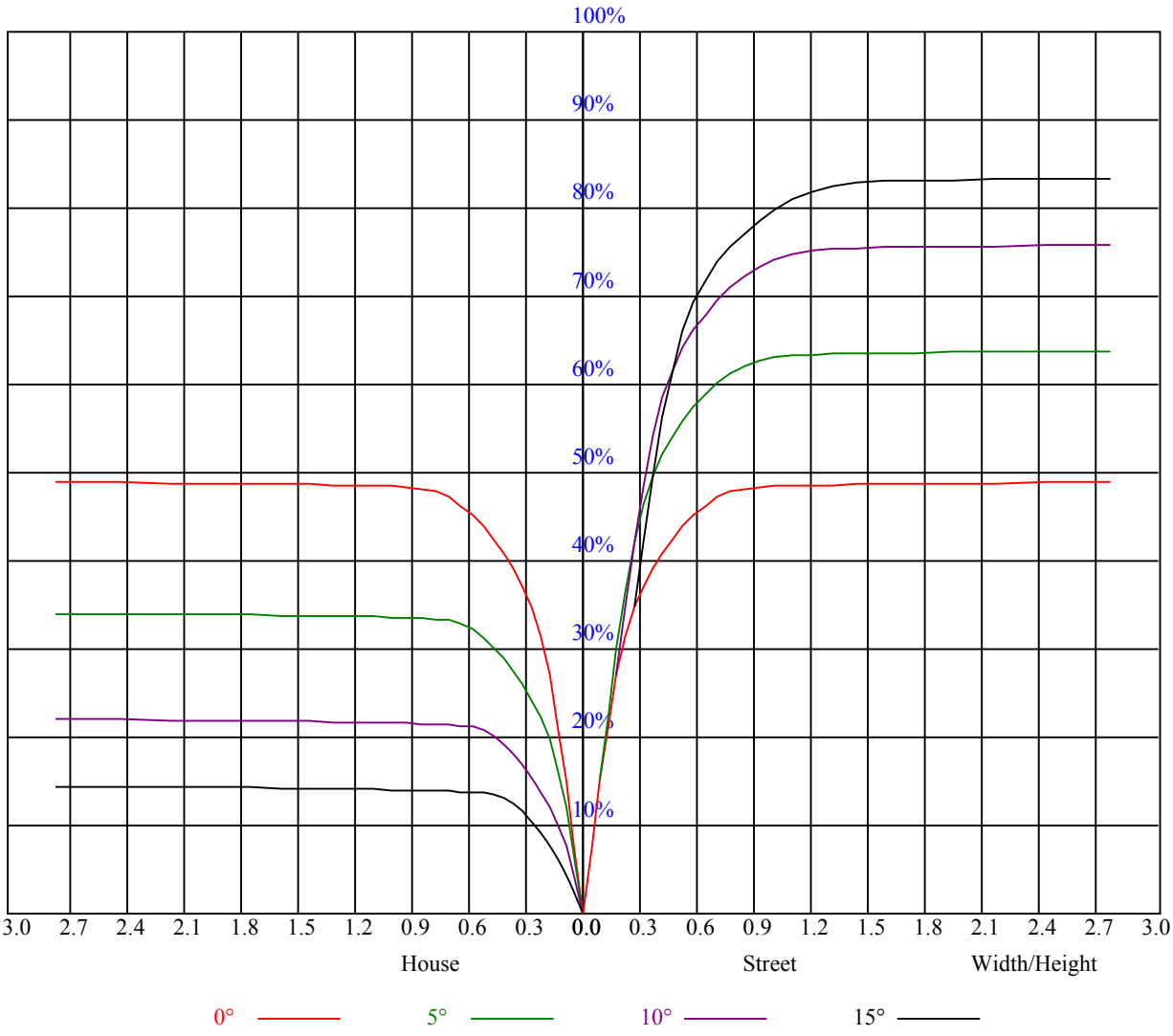


Equipment: GMS1980 Date: 2024/11/22 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

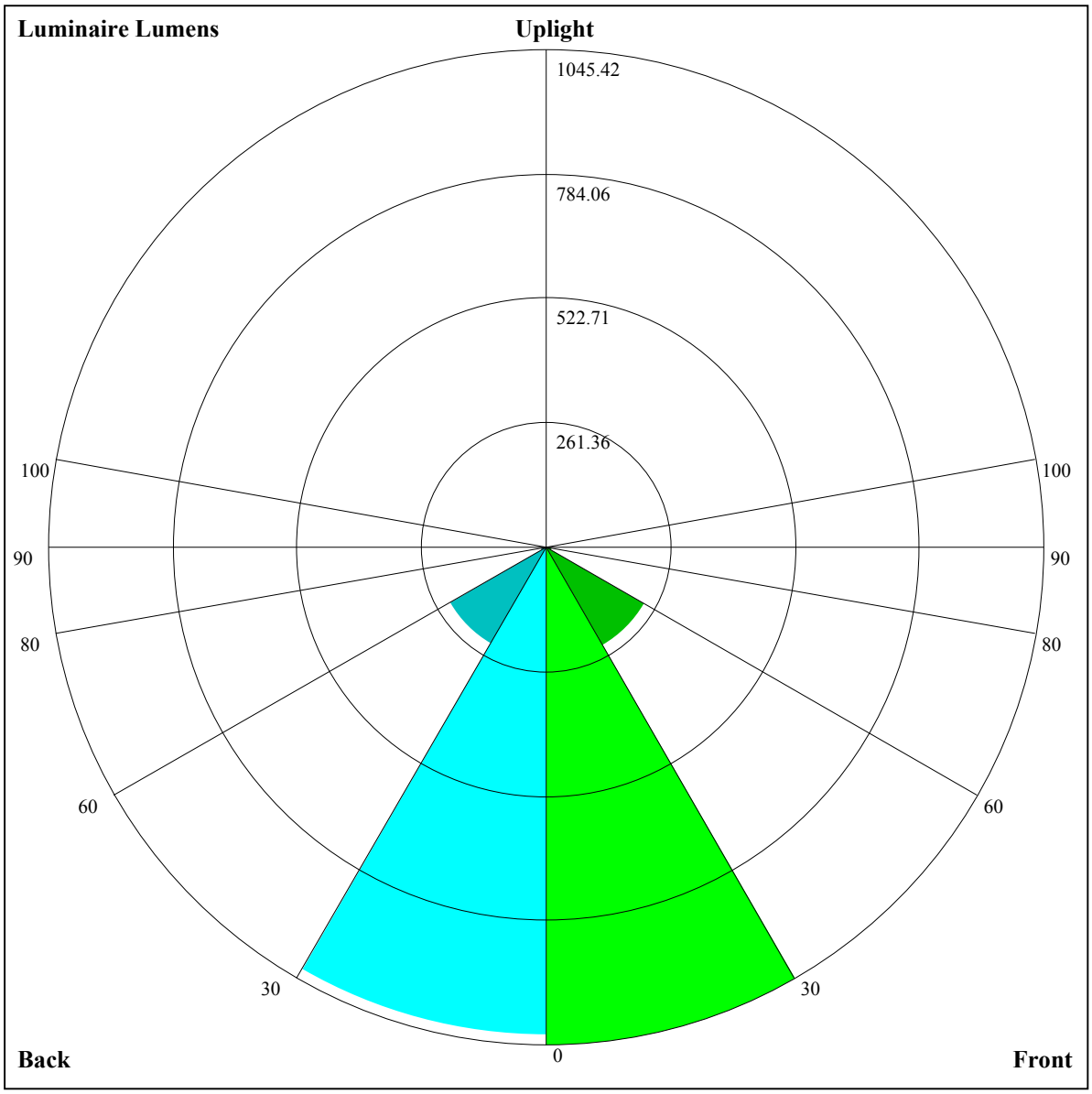
Utilization factor table for indoor luminaire

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	1.17	1.17	1.17	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.99
1	1.10	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94
2	1.04	1.00	0.98	1.02	0.99	0.96	0.99	0.97	0.94	0.96	0.94	0.92	0.94	0.92	0.90	0.89
3	0.98	0.94	0.91	0.97	0.93	0.90	0.95	0.91	0.89	0.92	0.90	0.87	0.90	0.88	0.86	0.85
4	0.94	0.89	0.86	0.93	0.88	0.85	0.90	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.81
5	0.89	0.84	0.81	0.88	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.79	0.84	0.81	0.79	0.77
6	0.85	0.81	0.77	0.85	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.74
7	0.82	0.77	0.74	0.81	0.77	0.73	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.71
8	0.79	0.74	0.71	0.78	0.74	0.70	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.69
9	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.66
10	0.73	0.68	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.64

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=1045.42,FM=238.25,FH=13.15,FVH=5.96
BL=1023.97,BM=233.22,BH=12.63,BVH=5.96
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	9751.08	9714.79	9635.79	9512.31	9318.01	8978.00	8630.37	8214.86	7603.30
45.0	9724.74	9740.54	9714.21	9623.50	9492.41	9277.63	8893.72	8512.74	7949.75
90.0	9732.94	9682.02	9553.86	9388.82	9142.44	8804.18	8300.89	7812.23	7270.89
135.0	9755.17	9748.15	9693.14	9563.81	9404.04	9156.49	8830.52	8316.11	7831.54
180.0	9751.08	9722.40	9663.88	9556.78	9319.18	9040.03	8688.89	8258.17	7616.76
225.0	9724.74	9667.39	9560.29	9387.07	9140.10	8805.94	8289.19	7782.38	7207.10
270.0	9732.94	9737.62	9689.63	9617.06	9474.27	9299.87	9010.77	8683.04	8155.75
315.0	9755.17	9686.12	9591.90	9463.73	9223.20	8936.44	8603.45	8085.53	7586.33
360.0	9751.08	9714.79	9635.79	9512.31	9318.01	8978.00	8630.37	8214.86	7603.30

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7054.95	6312.88	5660.94	4987.93	4150.47	3529.55	2957.79	2468.54	1974.61
45.0	7421.30	6841.92	6207.54	5358.96	4664.89	3990.71	3348.72	2663.42	2222.74
90.0	6662.26	5824.22	5109.66	4389.25	3702.19	2953.10	2449.81	2033.72	1627.57
135.0	7283.77	6690.94	5884.50	5196.86	4338.33	3681.12	3091.80	2446.88	2031.37
180.0	7043.24	6260.21	5584.86	4717.56	4046.30	3427.14	2874.68	2402.99	1915.50
225.0	6589.11	5768.04	5088.59	4238.26	3599.78	2909.21	2421.72	2013.23	1685.51
270.0	7650.70	7088.89	6474.99	5650.99	4961.01	4270.45	3476.88	2912.72	2424.65
315.0	7029.78	6261.38	5610.61	4935.85	4254.64	3461.66	2899.26	2408.26	1997.43
360.0	7054.95	6312.88	5660.94	4987.93	4150.47	3529.55	2957.79	2468.54	1974.61

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1666.78	1303.35	1157.17	1136.10	1069.09	1024.20	982.83	956.32	927.70
45.0	1864.59	1589.53	1354.85	1229.03	1125.45	1067.51	1026.54	989.09	963.92
90.0	1161.79	1161.79	1118.01	1053.99	1009.10	971.65	945.78	921.79	896.04
135.0	1702.48	1461.95	1263.56	1168.75	1104.96	1058.73	1014.25	987.33	963.34
180.0	1617.04	1393.48	1239.57	1121.35	1060.49	1023.62	988.50	962.17	941.10
225.0	1159.86	1159.86	1138.56	1074.24	1031.34	991.37	966.09	943.97	919.51
270.0	1939.49	1631.67	1402.84	1220.25	1134.81	1079.80	1028.30	997.28	967.44
315.0	1597.14	1167.64	1167.64	1070.08	1009.45	966.56	924.83	896.80	872.22
360.0	1666.78	1303.35	1157.17	1136.10	1069.09	1024.20	982.83	956.32	927.70

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	905.87	886.73	867.07	844.30	827.74	808.90	790.05	768.17	734.81
45.0	939.34	915.94	888.43	867.95	849.22	831.08	804.74	786.60	768.46
90.0	865.61	848.34	834.18	818.61	796.14	780.16	762.72	729.42	668.15
135.0	933.49	910.08	884.92	866.78	849.22	828.74	806.50	790.11	757.92
180.0	915.35	896.04	872.63	855.07	837.52	815.28	792.45	771.97	733.93
225.0	900.19	876.61	858.00	840.27	815.45	796.49	778.99	754.18	687.23
270.0	946.95	923.54	903.06	883.16	862.68	841.03	819.96	796.55	774.31
315.0	845.36	825.28	806.15	784.55	764.95	746.86	730.30	715.96	673.01
360.0	905.87	886.73	867.07	844.30	827.74	808.90	790.05	768.17	734.81

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	675.70	598.92	484.16	381.80	283.01	171.94	100.25	43.42	27.21
45.0	716.37	644.39	558.95	440.73	345.34	298.52	298.52	77.95	39.15
90.0	569.42	478.60	385.08	266.51	181.13	108.09	54.43	28.03	25.98
135.0	698.23	595.82	503.94	402.11	300.86	300.86	108.62	59.28	36.52
180.0	672.48	592.89	475.26	373.43	297.35	297.35	82.40	37.69	19.55
225.0	610.68	523.02	429.61	310.81	218.23	133.84	53.55	23.47	17.73
270.0	731.00	644.39	562.46	469.41	372.26	299.69	299.69	89.13	42.19
315.0	614.19	540.86	433.83	342.18	250.65	148.35	84.21	44.36	27.92
360.0	675.70	598.92	484.16	381.80	283.01	171.94	100.25	43.42	27.21

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	25.40	23.82	23.17	22.41	21.77	21.36	20.72	20.19	19.72
45.0	25.93	24.11	22.71	21.65	20.54	19.96	19.37	18.84	18.26
90.0	23.82	22.88	22.24	21.07	20.66	20.31	19.72	19.31	18.73
135.0	33.94	31.72	30.37	29.20	27.62	25.63	21.95	19.49	18.08
180.0	17.38	15.86	15.39	15.04	14.69	14.16	13.87	13.64	13.52
225.0	15.10	14.46	14.05	13.69	13.34	13.05	12.87	12.70	12.52
270.0	24.76	22.71	21.42	20.42	19.14	18.38	17.56	17.21	16.80
315.0	25.87	24.35	23.47	22.59	21.77	21.19	20.95	20.01	19.55
360.0	25.40	23.82	23.17	22.41	21.77	21.36	20.72	20.19	19.72

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	19.37	19.02	18.67	17.97	17.62	17.15	16.39	15.92	15.57
45.0	17.85	17.26	16.91	16.62	16.15	15.86	15.57	15.33	14.98
90.0	18.26	17.97	17.21	16.91	16.50	16.04	15.57	15.16	14.75
135.0	17.50	17.38	17.03	16.56	16.15	15.80	15.27	14.92	14.28
180.0	13.28	13.28	13.28	13.05	12.82	12.70	12.52	12.47	12.41
225.0	12.41	12.35	12.23	12.17	12.17	12.17	12.11	12.11	12.11
270.0	16.44	16.09	15.86	15.68	15.22	15.04	14.69	14.34	14.05
315.0	18.43	17.62	17.15	16.09	15.68	15.16	14.69	14.40	14.16
360.0	19.37	19.02	18.67	17.97	17.62	17.15	16.39	15.92	15.57

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.10	14.81	14.57	14.28	14.05	13.75	13.52	13.23	12.87
45.0	14.75	14.51	14.34	14.05	13.81	13.58	13.28	12.99	12.76
90.0	14.34	13.99	13.75	13.40	13.11	12.87	12.58	12.41	12.17
135.0	13.93	13.64	13.40	13.17	13.05	12.82	12.64	12.41	12.29
180.0	12.35	12.35	12.29	12.23	12.11	12.06	12.00	11.94	11.88
225.0	12.17	12.17	12.17	12.17	12.17	12.11	12.00	11.94	11.88
270.0	13.69	13.52	13.28	13.11	12.99	12.87	12.76	12.58	12.41
315.0	13.99	13.75	13.64	13.52	13.40	13.17	12.99	12.64	12.52
360.0	15.10	14.81	14.57	14.28	14.05	13.75	13.52	13.23	12.87

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.58	12.23	11.88	11.65	11.35	11.29	11.18	11.18	11.12
45.0	12.41	12.17	11.88	11.59	11.35	11.24	11.12	11.06	11.06
90.0	12.00	11.76	11.53	11.35	11.29	11.18	11.12	11.06	11.06
135.0	12.17	12.06	11.88	11.76	11.70	11.65	11.65	11.59	11.53
180.0	11.82	11.70	11.65	11.53	11.41	11.29	11.24	11.18	11.06
225.0	11.76	11.65	11.53	11.35	11.29	11.24	11.12	11.06	11.00
270.0	12.29	12.17	12.06	11.88	11.70	11.65	11.65	11.53	11.47
315.0	12.35	12.06	11.82	11.59	11.47	11.35	11.29	11.24	11.18
360.0	12.58	12.23	11.88	11.65	11.35	11.29	11.18	11.18	11.12

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	11.06	11.00	11.00	10.94	10.89	10.83	10.77
45.0	11.00	11.00	11.00	11.00	10.94	10.89	10.83	10.83	10.77
90.0	10.94	10.94	10.94	10.89	10.83	10.77	10.71	10.71	10.59
135.0	11.41	11.29	11.18	11.06	10.94	10.83	10.77	10.77	10.65
180.0	11.06	11.00	10.94	10.94	10.89	10.89	10.83	10.83	10.65
225.0	10.94	10.94	10.89	10.89	10.89	10.89	10.83	10.77	10.59
270.0	11.41	11.29	11.24	11.18	11.06	10.94	10.83	10.77	10.71
315.0	11.12	11.06	11.00	11.00	10.94	10.83	10.77	10.71	10.59
360.0	11.06	11.06	11.06	11.00	11.00	10.94	10.89	10.83	10.77

Intensity data(cd)

C/γ(°)	90.0
0.0	10.65
45.0	10.65
90.0	10.59
135.0	10.59
180.0	10.59
225.0	10.53
270.0	10.59
315.0	10.53
360.0	10.65