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NT

Client:
LumCAT: 2-2686-L
Luminaire: 92.70.411.00
Report No: 2024418-B019
Ballast type: AC

Test No: 2024418-C019	Voltage(V): 33.670
LampCAT: NICHIA NFCWJ120B-V3	Current(A): 0.576
Lamp flux(lm): 2726.0	Power (W): 19.393
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2315.80, Efficiency(%): 84.95% , Luminous Efficacy(lm/W): 119.41
Central intensity(cd): 11941.690, Maximum intensity(cd): 11941.690
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=18.6
[C90/270]Total=18.6
Field angle(10%Imax): [C0/180]Total=47.0
[C90/270]Total=47.0
Maximum s/h(1/2): C0_180=0.32 C90_270=0.32
Maximum s/h(1/4): C0_180=0.34 C90_270=0.34
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.95%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.952%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11941.692	0.000	0	0.00%	0.00%
1.0	11911.114	11.413	11.413	0.42%	0.49%
2.0	11761.808	33.978	45.391	1.25%	1.96%
3.0	11343.007	55.259	100.65	2.03%	4.35%
4.0	10723.985	73.865	174.515	2.71%	7.54%
5.0	9925.079	88.831	263.346	3.26%	11.37%
6.0	9062.238	99.783	363.13	3.66%	15.68%
7.0	8165.966	106.935	470.065	3.92%	20.30%
8.0	7201.296	109.981	580.046	4.03%	25.05%
9.0	6263.546	109.125	689.171	4.00%	29.76%
10.0	5408.020	105.623	794.794	3.87%	34.32%
11.0	4664.785	100.648	895.442	3.69%	38.67%
12.0	4028.718	95.032	990.475	3.49%	42.77%
13.0	3407.282	88.247	1078.721	3.24%	46.58%
14.0	2994.552	81.943	1160.664	3.01%	50.12%
15.0	2750.294	78.868	1239.532	2.89%	53.53%
16.0	2490.908	76.798	1316.33	2.82%	56.84%
17.0	2167.366	72.542	1388.872	2.66%	59.97%
18.0	1947.102	67.839	1456.711	2.49%	62.90%
19.0	1778.777	64.823	1521.533	2.38%	65.70%
20.0	1632.178	62.430	1583.963	2.29%	68.40%
21.0	1468.249	59.534	1643.498	2.18%	70.97%
22.0	1325.023	56.132	1699.63	2.06%	73.39%
23.0	1232.645	53.667	1753.297	1.97%	75.71%
24.0	1158.497	52.279	1805.575	1.92%	77.97%
25.0	1054.532	50.319	1855.895	1.85%	80.14%
26.0	954.560	47.425	1903.32	1.74%	82.19%
27.0	855.423	44.282	1947.601	1.62%	84.10%
28.0	763.097	40.978	1988.579	1.50%	85.87%
29.0	664.435	37.348	2025.927	1.37%	87.48%
30.0	566.542	33.236	2059.163	1.22%	88.92%
31.0	491.150	29.434	2088.597	1.08%	90.19%
32.0	415.064	25.962	2114.559	0.95%	91.31%
33.0	347.375	22.462	2137.021	0.82%	92.28%
34.0	283.812	19.102	2156.123	0.70%	93.11%
35.0	250.805	16.603	2172.726	0.61%	93.82%
36.0	209.152	14.645	2187.371	0.54%	94.45%
37.0	150.535	11.731	2199.102	0.43%	94.96%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	117.996	8.963	2208.065	0.33%	95.35%
39.0	93.943	7.234	2215.299	0.27%	95.66%
40.0	75.289	5.902	2221.201	0.22%	95.92%
41.0	60.644	4.841	2226.042	0.18%	96.12%
42.0	49.671	4.008	2230.05	0.15%	96.30%
43.0	42.026	3.397	2233.447	0.12%	96.44%
44.0	37.140	2.988	2236.435	0.11%	96.57%
45.0	33.563	2.717	2239.152	0.10%	96.69%
46.0	30.468	2.504	2241.656	0.09%	96.80%
47.0	28.142	2.331	2243.987	0.09%	96.90%
48.0	26.299	2.201	2246.188	0.08%	96.99%
49.0	24.667	2.093	2248.281	0.08%	97.08%
50.0	23.241	1.997	2250.278	0.07%	97.17%
51.0	22.092	1.918	2252.196	0.07%	97.25%
52.0	21.280	1.861	2254.057	0.07%	97.33%
53.0	20.549	1.820	2255.877	0.07%	97.41%
54.0	20.000	1.787	2257.664	0.07%	97.49%
55.0	19.598	1.768	2259.432	0.06%	97.57%
56.0	19.371	1.761	2261.192	0.06%	97.64%
57.0	19.239	1.765	2262.958	0.06%	97.72%
58.0	19.210	1.778	2264.736	0.07%	97.80%
59.0	19.298	1.800	2266.536	0.07%	97.87%
60.0	19.415	1.829	2268.365	0.07%	97.95%
61.0	19.517	1.858	2270.223	0.07%	98.03%
62.0	19.510	1.881	2272.104	0.07%	98.11%
63.0	19.305	1.888	2273.991	0.07%	98.19%
64.0	18.903	1.875	2275.866	0.07%	98.28%
65.0	18.347	1.843	2277.71	0.07%	98.36%
66.0	17.666	1.797	2279.506	0.07%	98.43%
67.0	16.876	1.737	2281.243	0.06%	98.51%
68.0	16.255	1.678	2282.922	0.06%	98.58%
69.0	15.860	1.638	2284.56	0.06%	98.65%
70.0	15.728	1.622	2286.182	0.06%	98.72%
71.0	15.940	1.637	2287.819	0.06%	98.79%
72.0	16.291	1.676	2289.495	0.06%	98.86%
73.0	16.745	1.728	2291.222	0.06%	98.94%
74.0	17.132	1.781	2293.003	0.07%	99.02%
75.0	17.388	1.824	2294.827	0.07%	99.09%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.286	1.841	2296.668	0.07%	99.17%
77.0	16.979	1.827	2298.495	0.07%	99.25%
78.0	16.533	1.794	2300.289	0.07%	99.33%
79.0	15.721	1.733	2302.022	0.06%	99.41%
80.0	14.616	1.636	2303.657	0.06%	99.48%
81.0	13.182	1.503	2305.161	0.06%	99.54%
82.0	11.814	1.356	2306.516	0.05%	99.60%
83.0	11.339	1.259	2307.775	0.05%	99.65%
84.0	11.141	1.225	2308.999	0.04%	99.71%
85.0	10.841	1.200	2310.199	0.04%	99.76%
86.0	10.527	1.168	2311.367	0.04%	99.81%
87.0	10.256	1.137	2312.505	0.04%	99.86%
88.0	10.059	1.113	2313.617	0.04%	99.91%
89.0	9.920	1.095	2314.712	0.04%	99.95%
90.0	9.846	1.084	2315.796	0.04%	100.00%

Zonal flux distribution table

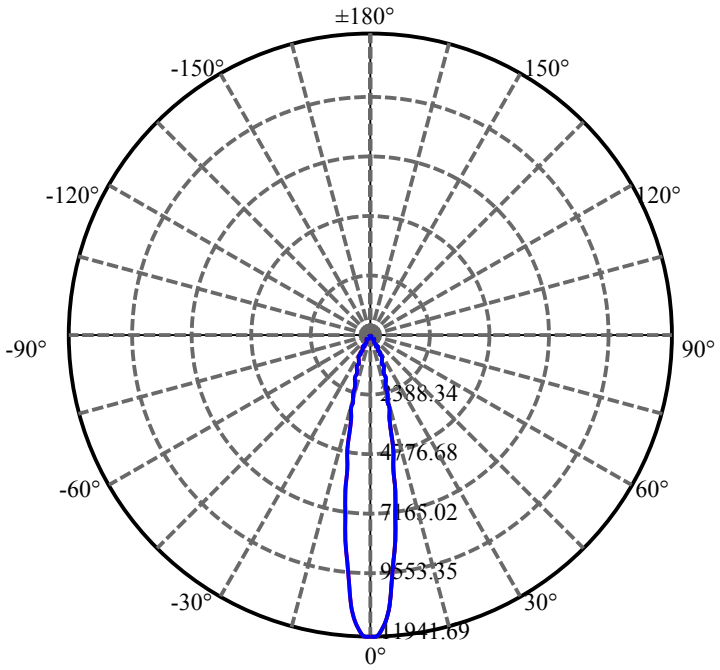
ZONAL LUMEN SUMMARY

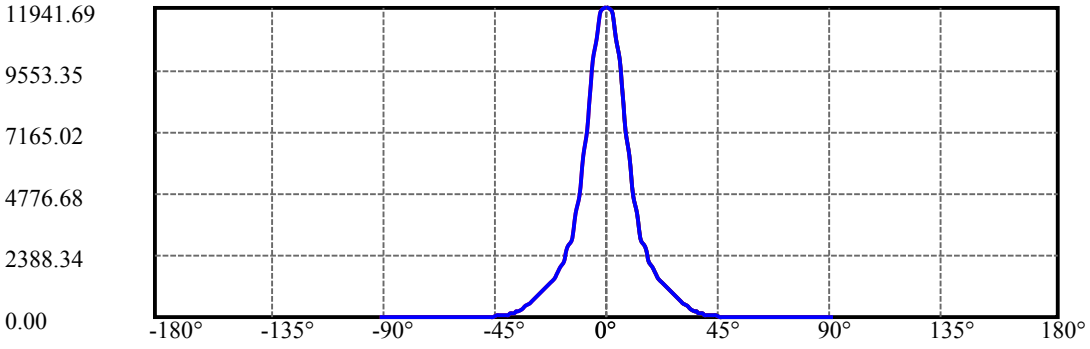
Zone	Lumens	%Lamp	%Fixt
0-30	2059.16	75.54%	88.92%
0-40	2221.20	81.48%	95.92%
0-60	2268.37	83.21%	97.95%
0-90	2314.71	84.91%	99.95%
0-120	2314.71	84.91%	99.95%
0-180	2315.80	84.95%	100.00%
60-90	46.35	1.70%	2.00%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.94	1852.64	67.96%	80.00%

ZONAL LUMEN SUMMARY

0-10	794.79
10-20	789.17
20-30	475.20
30-40	162.04
40-50	29.08
50-60	18.09
60-70	17.82
70-80	17.48
80-90	11.06
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:23.5 Right:23.5
:C90/270Left:23.5 Right:23.5

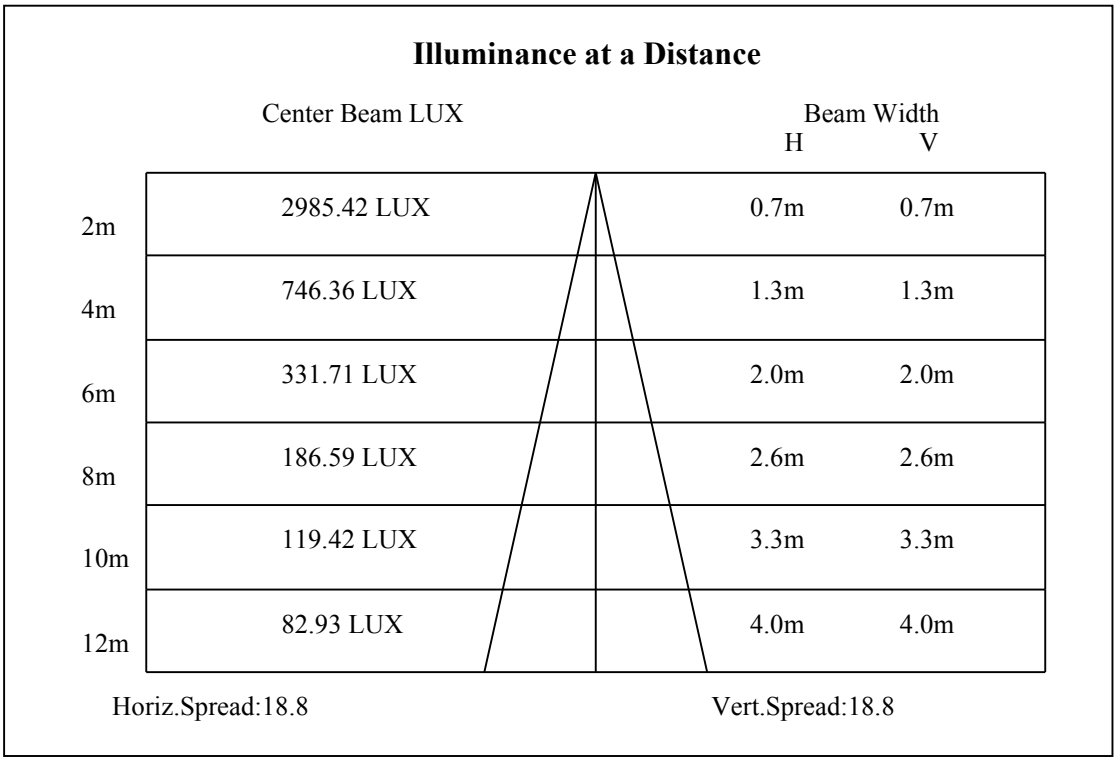
Beam Angle(50%Imax):C0/180Left:9.3 Right:9.3
:C90/270Left:9.3 Right:9.3

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/18
Humidity(%): 60.0%

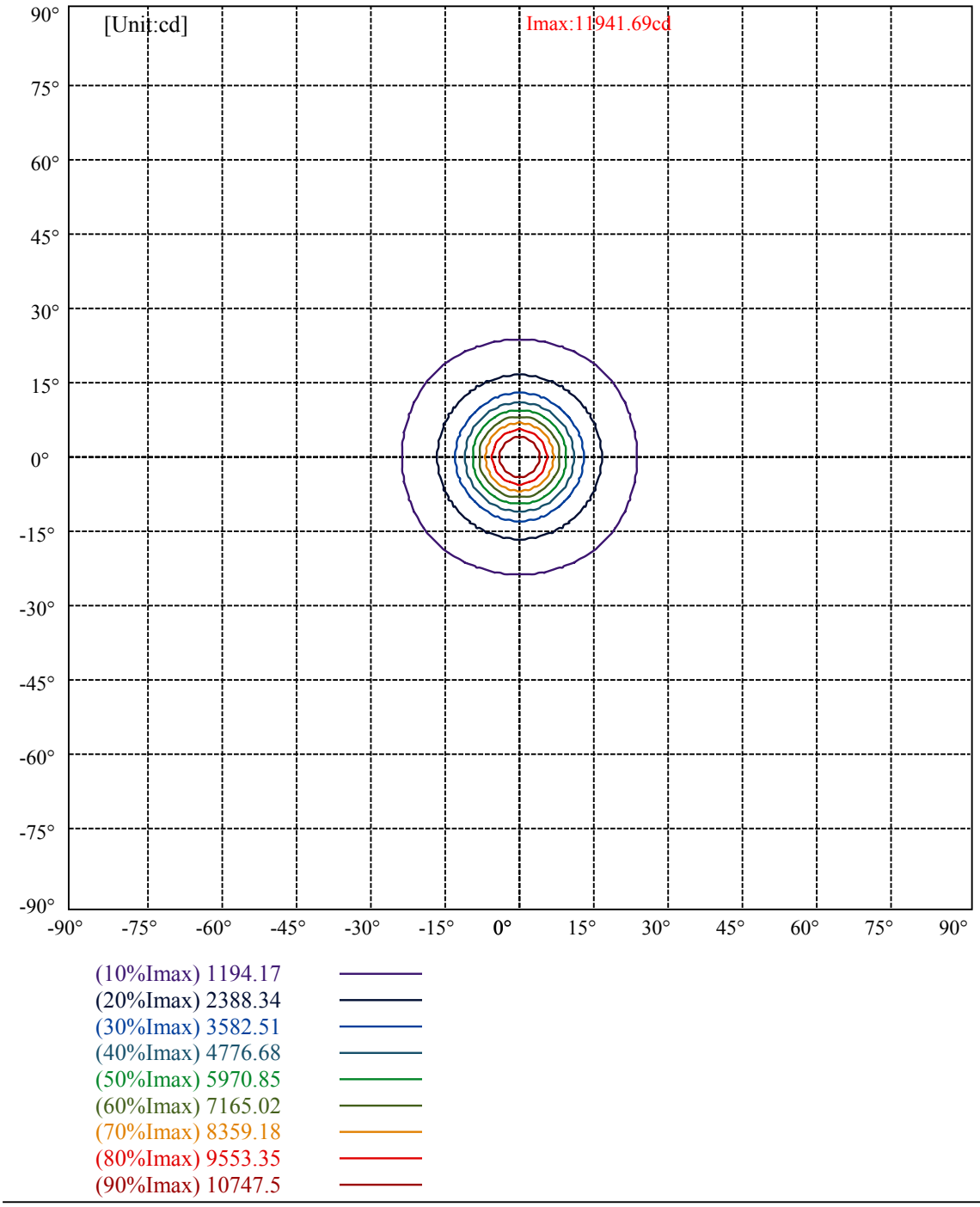
Operator: NT07
Distance(m): 7.65

Lux distance Curve



Equipment: GMS1980 Date: 2024/4/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

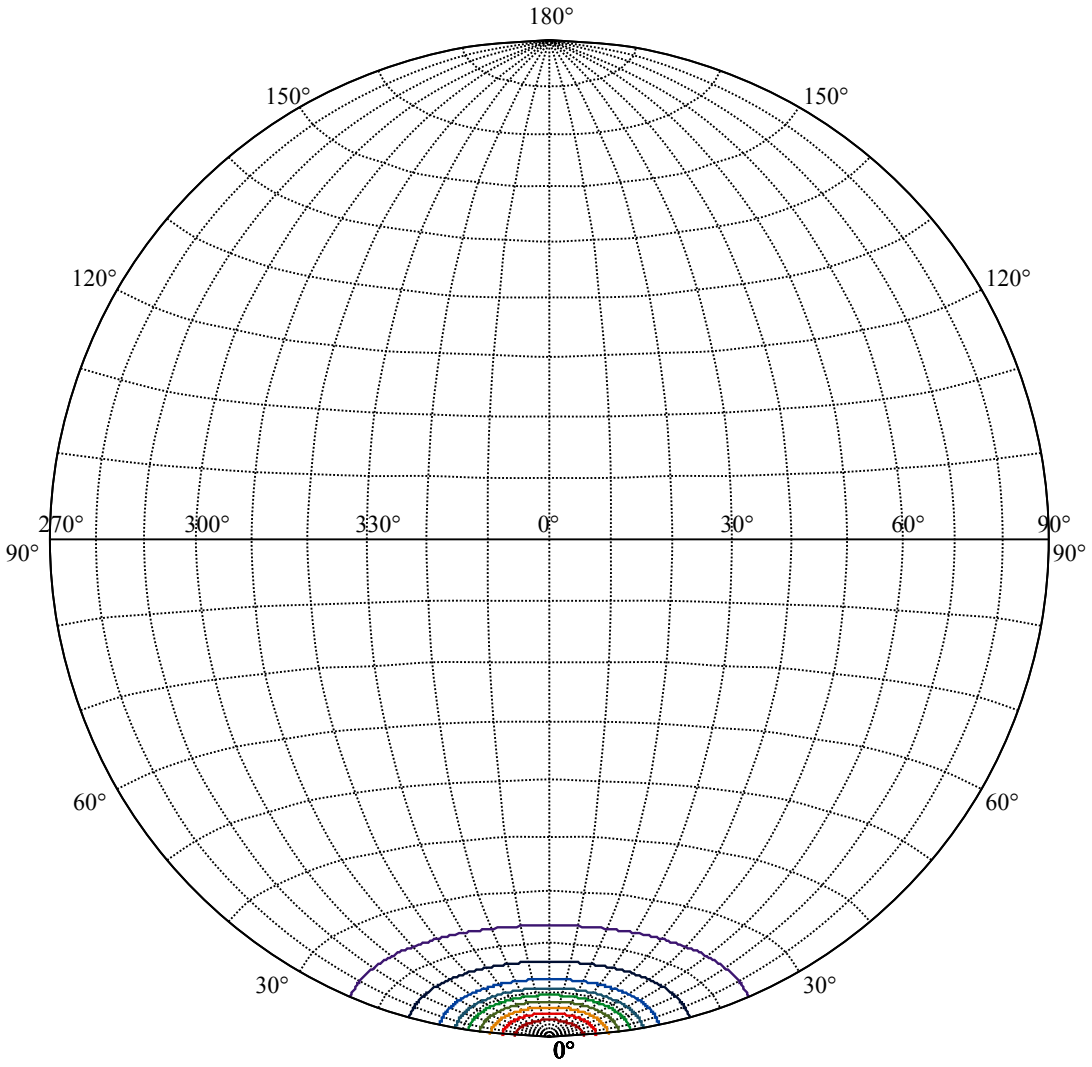


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



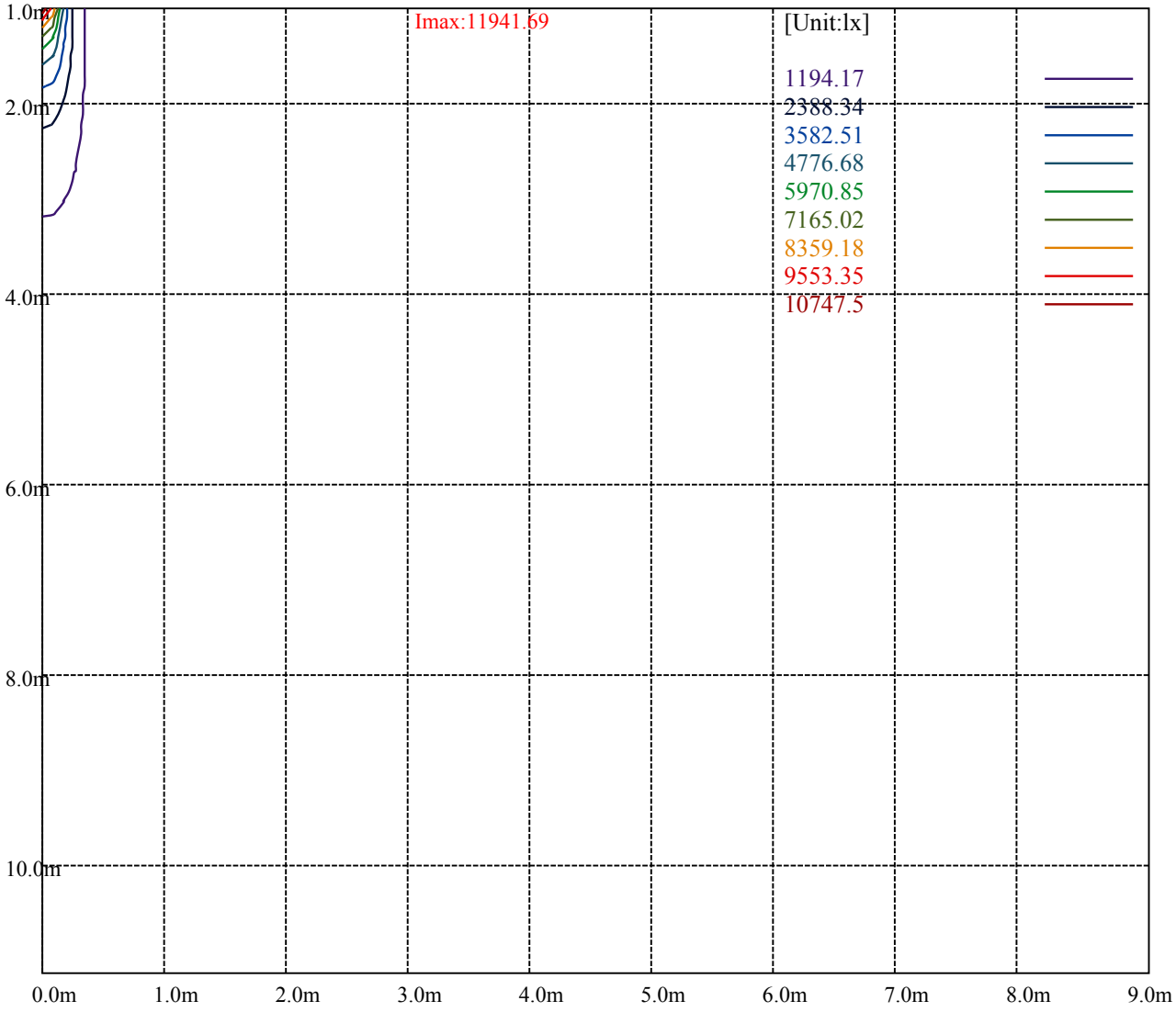
[Unit:cd]

Imax:11941.69

(10%Imax) 1194.17
(20%Imax) 2388.34
(30%Imax) 3582.51
(40%Imax) 4776.68
(50%Imax) 5970.85
(60%Imax) 7165.02
(70%Imax) 8359.18
(80%Imax) 9553.35
(90%Imax) 10747.5

Equipment: GMS1980	Date: 2024/4/18	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

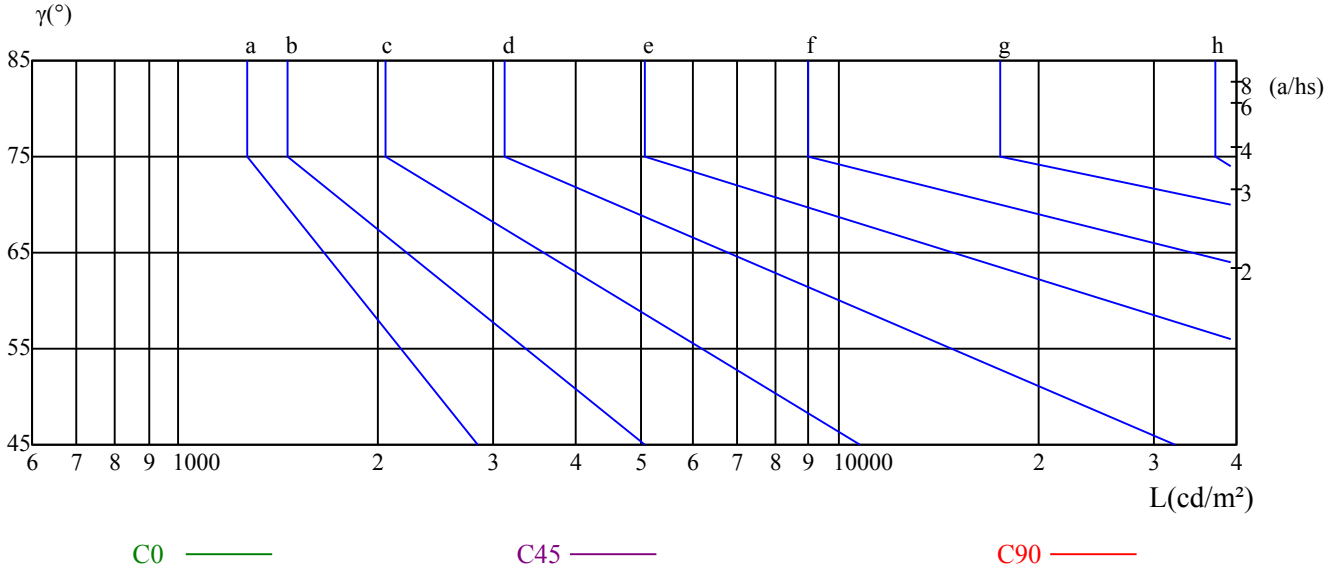
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

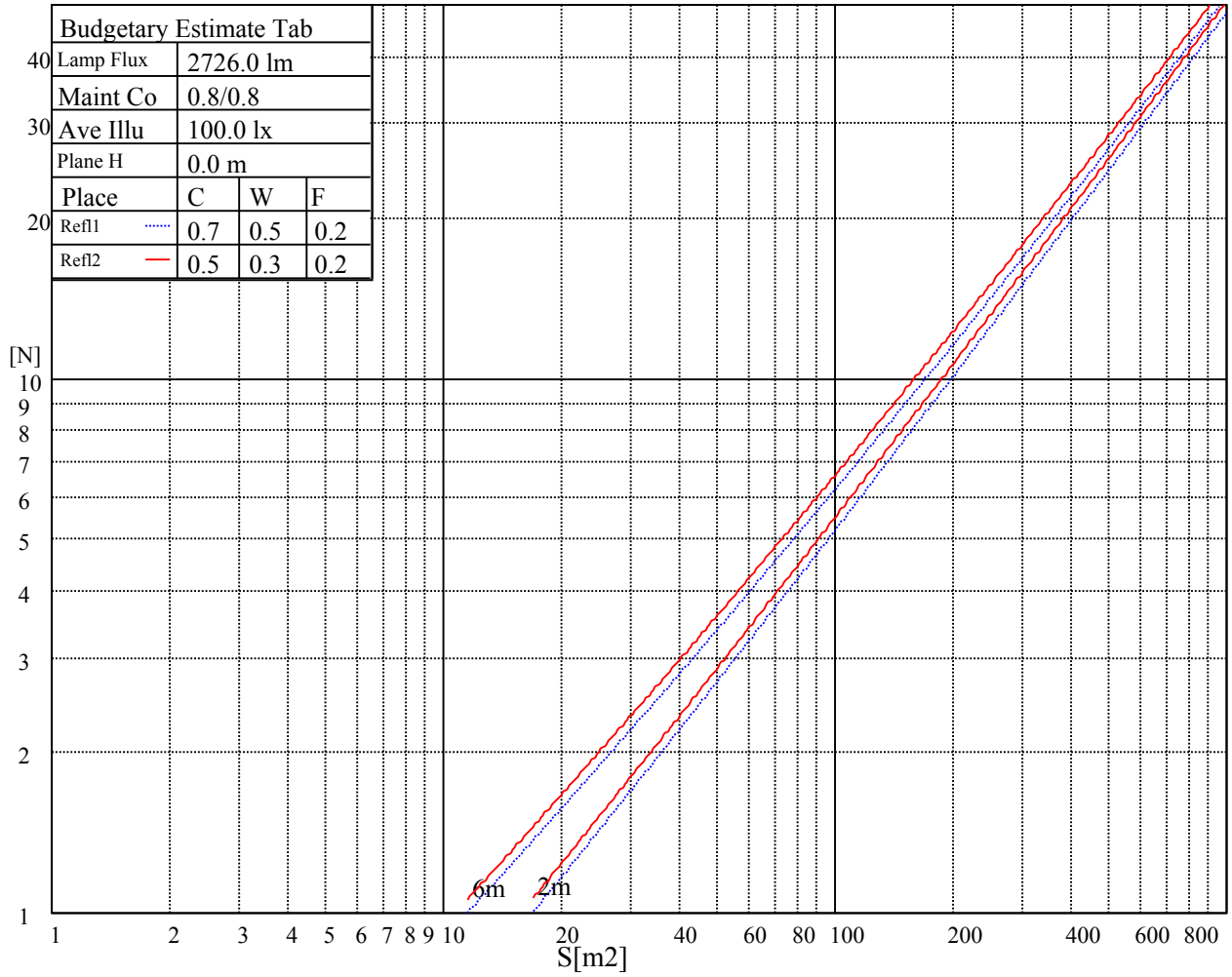
Luminance Limitting Curve



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

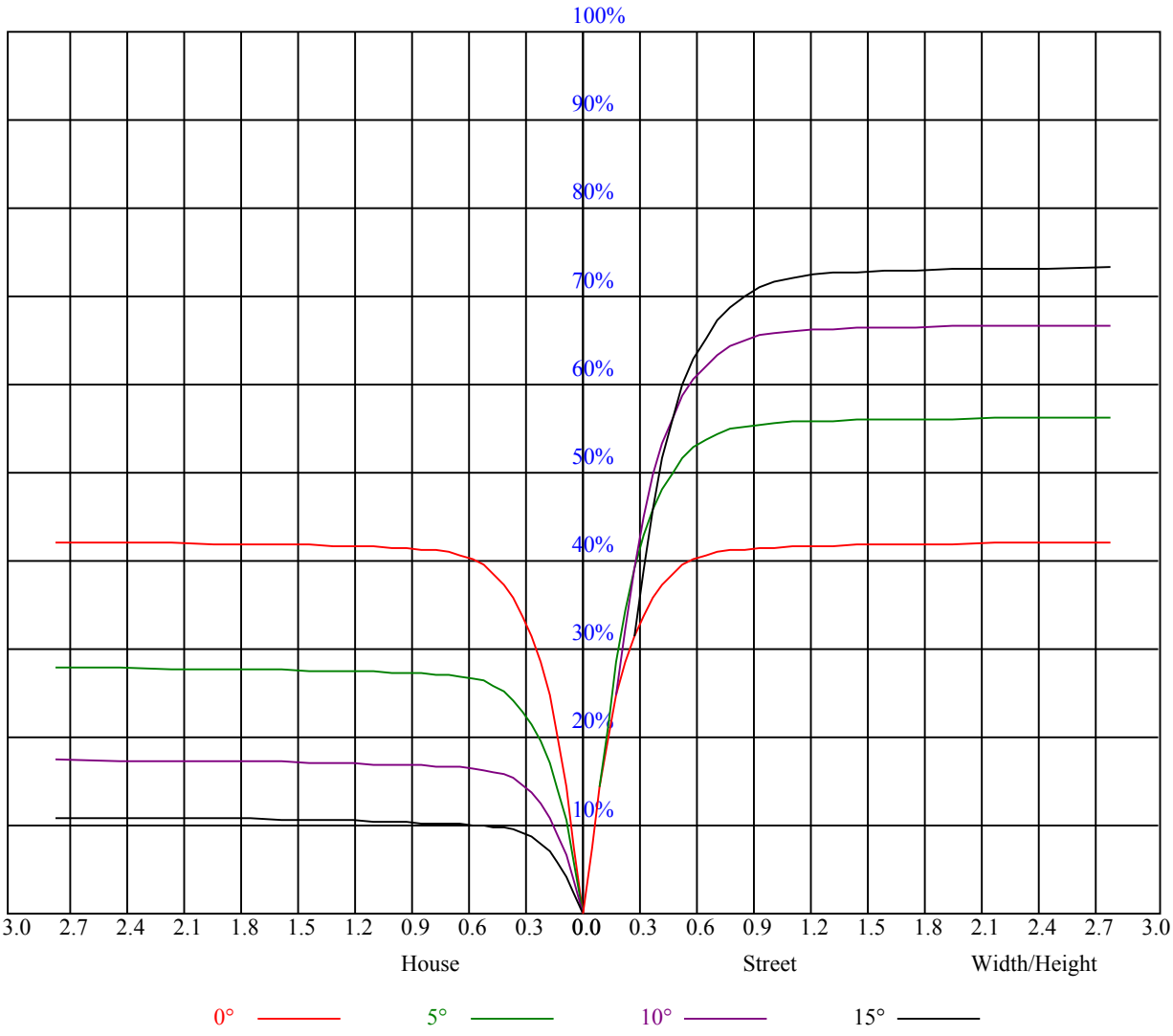


Equipment: GMS1980 Date: 2024/4/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

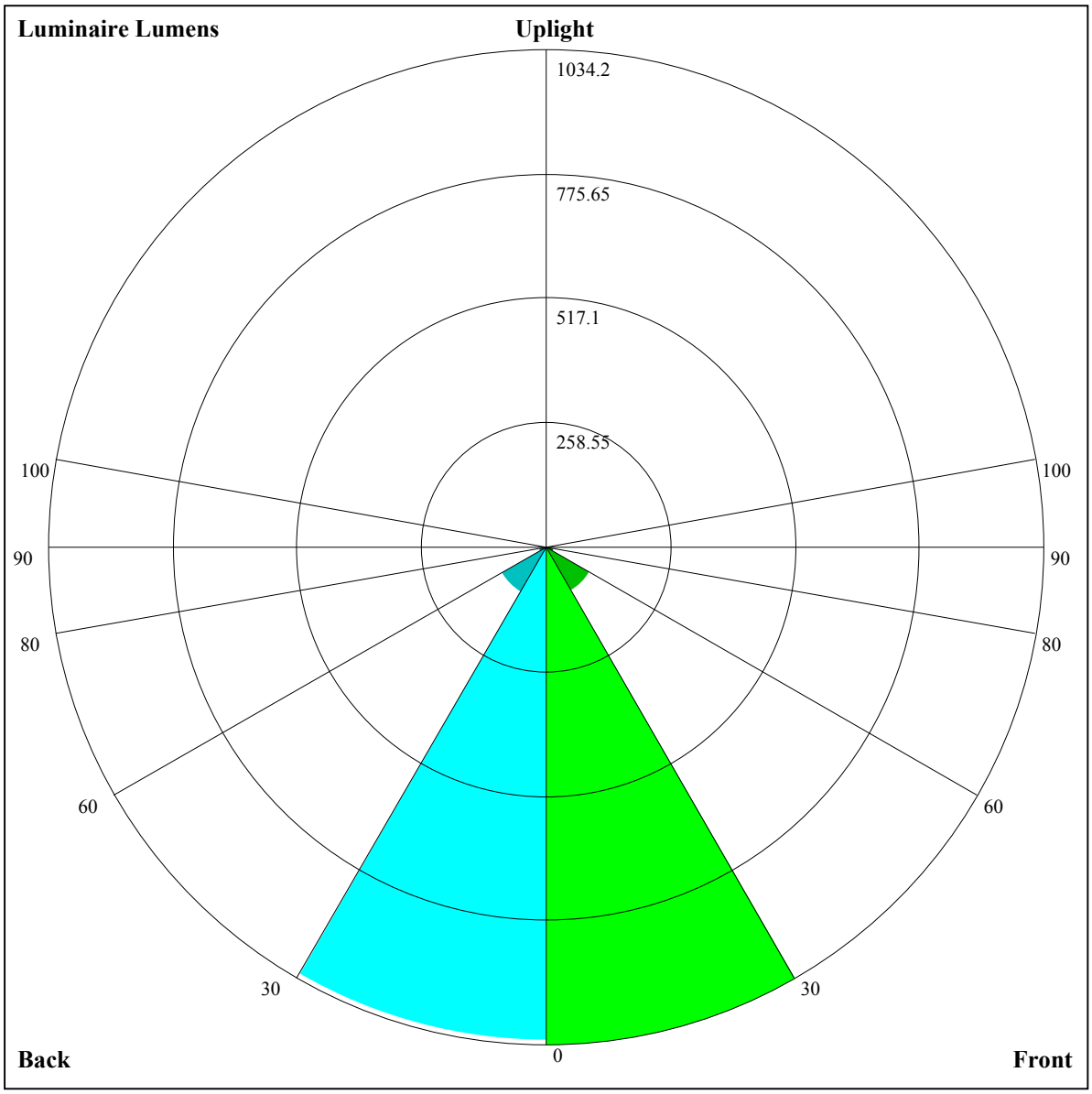
Utilization factor table for indoor luminaire

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	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.95	0.93	0.92	0.93	0.92	0.90	0.90	0.89	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81
2	0.90	0.87	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.83	0.82	0.80	0.81	0.80	0.79	0.77
3	0.86	0.82	0.80	0.85	0.81	0.79	0.82	0.80	0.78	0.80	0.78	0.77	0.79	0.77	0.75	0.74
4	0.82	0.78	0.75	0.81	0.78	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.71
5	0.79	0.75	0.72	0.78	0.74	0.72	0.76	0.73	0.71	0.75	0.72	0.70	0.74	0.72	0.70	0.69
6	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.66
7	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.68	0.65	0.70	0.67	0.65	0.64
8	0.70	0.66	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.62
9	0.68	0.64	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.66	0.63	0.61	0.60
10	0.66	0.62	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.64	0.61	0.59	0.64	0.61	0.59	0.58

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/4/18	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1034.2,FM=105.47,FH=17.83,FVH=6.14
BL=1026.02,BM=106.43,BH=17.55,BVH=6.1
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	12258.12	11639.01	11639.01	11385.03	10621.89	9866.95	9061.68	8176.82	7067.82
45.0	11600.97	12240.57	12223.01	11942.10	11520.74	10941.37	10034.27	9220.81	8366.38
90.0	12246.42	11647.79	11647.79	11431.84	10857.15	9942.45	9112.60	8231.25	7338.78
135.0	11661.25	12211.30	12053.29	11748.98	11105.23	10449.78	9700.69	8893.08	7810.41
180.0	12258.12	12141.08	11889.43	11468.07	10912.11	10086.94	9285.18	8190.81	7283.71
225.0	11600.97	11600.97	11224.67	10583.85	9882.75	8879.09	7990.72	7080.70	6212.22
270.0	12246.42	12146.93	11877.73	11315.91	10730.69	9852.85	9033.53	8161.55	7043.77
315.0	11661.25	11661.25	11539.53	10868.27	10161.32	9381.22	8279.24	7372.72	6487.28
360.0	12258.12	11639.01	11639.01	11385.03	10621.89	9866.95	9061.68	8176.82	7067.82

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6206.37	5400.51	4499.85	3883.03	3276.15	2901.02	2587.34	2338.03	2085.22
45.0	7266.15	6405.87	5586.56	4837.47	4035.71	3497.30	3075.94	2982.31	2624.79
90.0	6466.21	5432.70	4680.69	4041.04	3394.36	2994.07	2669.85	2350.32	2142.57
135.0	6932.58	6078.15	5299.80	4579.97	3842.59	3362.70	2976.45	2976.45	2350.91
180.0	6417.58	5381.73	4650.20	4041.56	3403.67	3011.57	3011.57	2655.81	2160.12
225.0	5186.32	4484.64	3897.07	3299.56	2916.82	2526.47	2292.38	2088.14	1878.63
270.0	6189.34	5370.02	4632.64	4006.45	3368.56	2970.60	2970.60	2338.62	2130.28
315.0	5443.82	4710.53	4071.47	3540.67	3020.40	2692.68	2418.21	2197.58	1966.41
360.0	6206.37	5400.51	4499.85	3883.03	3276.15	2901.02	2587.34	2338.03	2085.22

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1915.50	1764.51	1622.30	1492.97	1277.02	1150.14	1150.14	1034.50	943.38
45.0	2185.29	1999.19	1806.06	1663.27	1530.42	1387.04	1282.87	1161.14	1066.92
90.0	1923.69	1772.71	1632.25	1501.16	1284.04	1157.22	1157.22	1062.71	945.78
135.0	2098.68	1927.79	1773.88	1600.65	1473.07	1361.88	1261.22	1145.93	1052.29
180.0	1977.53	1814.26	1672.63	1509.94	1389.97	1283.46	1164.66	1071.61	980.90
225.0	1722.96	1581.34	1454.34	1151.84	1151.84	1128.84	1041.00	953.68	842.55
270.0	1950.61	1747.54	1605.92	1452.00	1340.22	1238.98	1145.93	1033.57	944.03
315.0	1802.55	1622.89	1490.04	1374.17	1153.60	1153.60	1064.93	973.11	860.63
360.0	1915.50	1764.51	1622.30	1492.97	1277.02	1150.14	1150.14	1034.50	943.38

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	824.82	732.12	644.63	540.75	467.13	398.30	319.24	263.88	216.01
45.0	970.36	875.56	781.33	666.04	581.19	502.77	429.61	346.51	302.03
90.0	851.39	760.73	669.03	562.81	487.02	399.88	337.03	280.67	220.69
135.0	955.15	859.75	741.54	649.07	566.56	474.09	405.03	326.61	297.35
180.0	863.27	770.80	678.33	571.24	497.50	429.61	365.82	295.01	295.01
225.0	751.25	661.66	556.84	484.98	418.14	340.25	285.00	226.01	185.52
270.0	856.83	763.19	650.24	563.63	489.31	420.84	342.42	300.28	300.28
315.0	770.33	680.97	593.54	493.81	422.36	354.76	294.84	231.52	189.55
360.0	824.82	732.12	644.63	540.75	467.13	398.30	319.24	263.88	216.01

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	176.15	143.56	111.08	90.12	73.27	59.93	47.93	41.43	36.23
45.0	302.03	180.19	146.07	118.22	91.24	74.62	58.87	49.16	42.19
90.0	181.01	147.71	113.24	90.59	73.33	59.81	49.92	41.67	37.28
135.0	297.35	180.13	139.17	111.66	88.84	71.16	55.71	46.99	40.91
180.0	233.45	159.88	121.49	96.97	77.43	59.05	48.92	40.44	35.87
225.0	150.75	120.97	91.59	73.62	59.81	49.69	42.43	36.28	32.83
270.0	185.17	151.69	122.60	93.46	75.32	58.41	48.81	41.96	37.10
315.0	147.30	120.15	98.73	76.90	63.09	52.49	44.77	38.27	34.70
360.0	176.15	143.56	111.08	90.12	73.27	59.93	47.93	41.43	36.23

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	33.01	30.43	27.92	26.16	24.76	23.17	22.18	21.36	20.66
45.0	37.22	32.89	30.37	28.21	26.34	24.29	23.00	21.95	21.01
90.0	33.94	30.67	28.38	26.51	24.58	23.29	22.00	21.19	20.42
135.0	36.58	32.54	30.08	27.97	25.75	24.35	22.88	22.00	21.24
180.0	32.60	29.90	27.27	25.57	24.11	22.88	21.65	20.89	20.25
225.0	29.55	27.39	25.69	23.88	22.65	21.71	20.78	20.19	19.72
270.0	33.65	30.26	28.09	26.34	24.76	23.23	22.12	21.30	20.48
315.0	31.95	29.67	27.33	25.75	24.40	23.00	22.12	21.36	20.60
360.0	33.01	30.43	27.92	26.16	24.76	23.17	22.18	21.36	20.66

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	20.07	19.61	19.37	19.25	19.25	19.31	19.43	19.61	19.61
45.0	20.13	19.61	19.14	18.90	18.79	18.79	18.96	19.14	19.31
90.0	19.90	19.43	19.20	19.02	19.02	19.02	19.20	19.37	19.43
135.0	20.60	20.25	19.96	19.78	19.61	19.66	19.78	19.90	20.01
180.0	19.78	19.37	19.20	19.08	19.08	19.25	19.43	19.55	19.55
225.0	19.37	19.14	19.08	19.08	19.08	19.20	19.20	19.14	18.90
270.0	19.96	19.55	19.31	19.20	19.20	19.31	19.43	19.43	19.43
315.0	20.19	19.84	19.72	19.61	19.66	19.84	19.90	20.01	19.84
360.0	20.07	19.61	19.37	19.25	19.25	19.31	19.43	19.61	19.61

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.43	18.96	18.49	17.73	16.85	16.56	16.85	17.62	18.49
45.0	19.37	19.25	18.90	18.43	17.62	16.85	16.15	15.45	14.92
90.0	19.25	18.96	18.32	17.62	16.97	16.39	16.33	16.50	17.03
135.0	20.01	19.78	19.25	18.67	17.97	17.03	16.50	16.21	16.27
180.0	19.25	18.79	18.26	17.56	16.68	15.98	15.51	15.57	16.62
225.0	18.43	17.73	16.97	16.33	15.51	14.98	14.57	14.16	13.93
270.0	19.20	18.79	18.26	17.38	16.68	16.04	15.33	14.92	14.81
315.0	19.49	18.96	18.32	17.62	16.74	16.21	15.63	15.39	15.45
360.0	19.43	18.96	18.49	17.73	16.85	16.56	16.85	17.62	18.49

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	19.37	19.61	19.55	19.31	18.84	18.14	17.50	16.68	15.74
45.0	14.40	14.10	13.81	13.52	13.34	13.05	12.87	12.70	12.41
90.0	17.85	18.61	19.43	19.96	19.90	19.43	18.61	16.80	14.69
135.0	16.80	17.79	19.02	20.31	20.83	20.78	20.37	19.02	17.73
180.0	17.09	17.21	17.03	16.74	16.27	15.80	15.33	14.81	13.64
225.0	13.58	13.40	13.11	12.87	12.58	12.41	12.17	12.00	11.70
270.0	15.04	15.80	16.62	17.32	17.62	17.62	17.44	16.80	15.80
315.0	16.21	17.44	18.49	19.08	18.90	18.61	17.97	16.97	15.22
360.0	19.37	19.61	19.55	19.31	18.84	18.14	17.50	16.68	15.74

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.99	11.76	11.29	11.00	10.83	10.65	10.24	10.07	9.89
45.0	12.17	11.88	11.65	11.47	11.29	11.24	10.53	10.18	10.01
90.0	12.82	11.76	11.53	11.41	10.71	10.42	10.24	10.12	9.95
135.0	15.45	12.64	11.53	11.18	10.89	10.53	10.36	10.18	10.07
180.0	12.11	11.41	11.12	10.94	10.65	10.30	10.18	10.01	9.83
225.0	11.53	11.29	11.12	10.94	10.42	10.18	10.07	9.83	9.89
270.0	14.16	12.11	11.29	11.18	11.12	10.48	10.24	10.07	9.89
315.0	13.23	11.65	11.18	11.00	10.83	10.42	10.18	10.01	9.83
360.0	13.99	11.76	11.29	11.00	10.83	10.65	10.24	10.07	9.89

Intensity data(cd)

C/γ(°)	90.0
0.0	9.83
45.0	9.89
90.0	9.83
135.0	9.89
180.0	9.83
225.0	9.83
270.0	9.83
315.0	9.83
360.0	9.83