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NT

Client:
LumCAT: 2-2685-L
Luminaire: 92.70.411.00
Report No: 2024416-B017
Ballast type: AC

Test No: 2024416-C017	Voltage(V): 33.790
LampCAT: NICHIA NFCWJ108B-V3	Current(A): 0.577
Lamp flux(lm): 2647.0	Power (W): 19.496
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2255.57, Efficiency(%): 85.21% , Luminous Efficacy(lm/W): 115.69
Central intensity(cd): 3826.991, Maximum intensity(cd): 3826.991
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=45.6
[C90/270]Total=45.6
Field angle(10%Imax): [C0/180]Total=69.4
[C90/270]Total=69.4
Maximum s/h(1/2): C0_180=0.73 C90_270=0.73
Maximum s/h(1/4): C0_180=0.71 C90_270=0.71
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.21%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.912%

Equipment: GMS1980	Date: 2024/4/16	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	3826.991	0.000	0	0.00%	0.00%
1.0	3824.065	3.661	3.661	0.14%	0.16%
2.0	3811.556	10.959	14.62	0.41%	0.65%
3.0	3794.877	18.192	32.812	0.69%	1.45%
4.0	3767.591	25.314	58.126	0.96%	2.58%
5.0	3739.207	32.294	90.42	1.22%	4.01%
6.0	3702.411	39.108	129.528	1.48%	5.74%
7.0	3655.886	45.673	175.201	1.73%	7.77%
8.0	3598.241	51.916	227.117	1.96%	10.07%
9.0	3527.649	57.751	284.869	2.18%	12.63%
10.0	3450.472	63.149	348.018	2.39%	15.43%
11.0	3362.030	68.071	416.089	2.57%	18.45%
12.0	3273.149	72.532	488.621	2.74%	21.66%
13.0	3176.660	76.543	565.164	2.89%	25.06%
14.0	3069.783	79.954	645.118	3.02%	28.60%
15.0	2962.833	82.818	727.936	3.13%	32.27%
16.0	2828.451	84.859	812.795	3.21%	36.03%
17.0	2703.432	86.146	898.941	3.25%	39.85%
18.0	2561.515	86.808	985.749	3.28%	43.70%
19.0	2435.765	86.942	1072.691	3.28%	47.56%
20.0	2302.992	86.732	1159.423	3.28%	51.40%
21.0	2170.000	85.891	1245.314	3.24%	55.21%
22.0	2035.471	84.511	1329.825	3.19%	58.96%
23.0	1891.433	82.397	1412.222	3.11%	62.61%
24.0	1753.027	79.681	1491.903	3.01%	66.14%
25.0	1613.451	76.546	1568.449	2.89%	69.54%
26.0	1416.018	71.511	1639.96	2.70%	72.71%
27.0	1266.471	65.628	1705.588	2.48%	75.62%
28.0	1175.915	61.836	1767.424	2.34%	78.36%
29.0	1037.597	57.912	1825.335	2.19%	80.93%
30.0	903.061	52.397	1877.733	1.98%	83.25%
31.0	764.977	46.419	1924.152	1.75%	85.31%
32.0	642.621	40.326	1964.478	1.52%	87.09%
33.0	524.676	34.389	1998.867	1.30%	88.62%
34.0	431.647	28.941	2027.808	1.09%	89.90%
35.0	356.695	24.483	2052.291	0.92%	90.99%
36.0	295.824	20.776	2073.067	0.78%	91.91%
37.0	261.588	18.180	2091.247	0.69%	92.71%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	221.420	16.122	2107.369	0.61%	93.43%
39.0	162.619	13.108	2120.477	0.50%	94.01%
40.0	133.863	10.340	2130.818	0.39%	94.47%
41.0	111.090	8.723	2139.54	0.33%	94.86%
42.0	92.597	7.400	2146.941	0.28%	95.18%
43.0	78.720	6.346	2153.287	0.24%	95.47%
44.0	67.140	5.505	2158.792	0.21%	95.71%
45.0	58.530	4.830	2163.622	0.18%	95.92%
46.0	51.917	4.319	2167.941	0.16%	96.11%
47.0	47.059	3.937	2171.877	0.15%	96.29%
48.0	43.387	3.656	2175.534	0.14%	96.45%
49.0	40.256	3.435	2178.969	0.13%	96.60%
50.0	37.528	3.243	2182.212	0.12%	96.75%
51.0	35.252	3.079	2185.291	0.12%	96.88%
52.0	33.292	2.941	2188.232	0.11%	97.01%
53.0	31.639	2.824	2191.057	0.11%	97.14%
54.0	30.190	2.725	2193.782	0.10%	97.26%
55.0	28.888	2.637	2196.419	0.10%	97.38%
56.0	27.791	2.561	2198.98	0.10%	97.49%
57.0	26.716	2.492	2201.472	0.09%	97.60%
58.0	25.545	2.417	2203.889	0.09%	97.71%
59.0	24.426	2.336	2206.225	0.09%	97.81%
60.0	23.321	2.256	2208.481	0.09%	97.91%
61.0	22.151	2.170	2210.651	0.08%	98.01%
62.0	21.090	2.084	2212.735	0.08%	98.10%
63.0	20.117	2.004	2214.739	0.08%	98.19%
64.0	19.232	1.931	2216.67	0.07%	98.28%
65.0	18.266	1.856	2218.525	0.07%	98.36%
66.0	17.476	1.783	2220.309	0.07%	98.44%
67.0	16.993	1.733	2222.042	0.07%	98.51%
68.0	16.613	1.702	2223.744	0.06%	98.59%
69.0	16.342	1.681	2225.425	0.06%	98.66%
70.0	16.123	1.667	2227.093	0.06%	98.74%
71.0	15.962	1.658	2228.751	0.06%	98.81%
72.0	15.823	1.653	2230.404	0.06%	98.88%
73.0	15.677	1.647	2232.051	0.06%	98.96%
74.0	15.560	1.642	2233.693	0.06%	99.03%
75.0	15.435	1.638	2235.331	0.06%	99.10%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.304	1.632	2236.963	0.06%	99.17%
77.0	15.165	1.624	2238.587	0.06%	99.25%
78.0	14.974	1.613	2240.2	0.06%	99.32%
79.0	14.726	1.596	2241.796	0.06%	99.39%
80.0	14.228	1.561	2243.357	0.06%	99.46%
81.0	13.731	1.512	2244.869	0.06%	99.53%
82.0	13.131	1.457	2246.326	0.06%	99.59%
83.0	12.195	1.377	2247.703	0.05%	99.65%
84.0	11.383	1.284	2248.987	0.05%	99.71%
85.0	10.651	1.203	2250.19	0.05%	99.76%
86.0	10.154	1.137	2251.327	0.04%	99.81%
87.0	9.846	1.095	2252.421	0.04%	99.86%
88.0	9.642	1.068	2253.489	0.04%	99.91%
89.0	9.451	1.047	2254.535	0.04%	99.95%
90.0	9.451	1.036	2255.572	0.04%	100.00%

Zonal flux distribution table

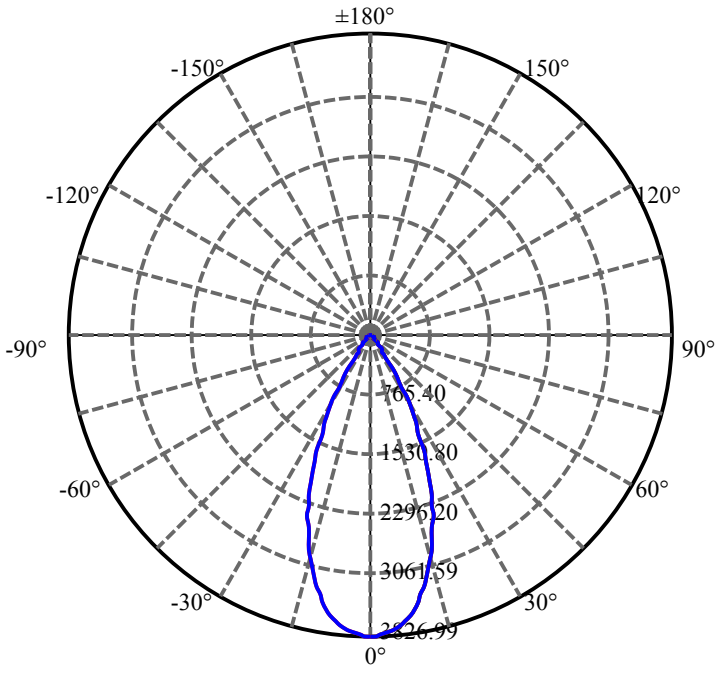
ZONAL LUMEN SUMMARY

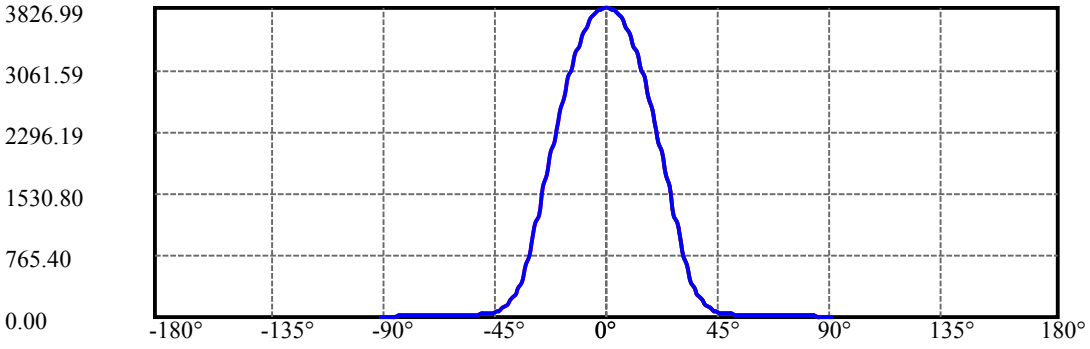
Zone	Lumens	%Lamp	%Fixt
0-30	1877.73	70.94%	83.25%
0-40	2130.82	80.50%	94.47%
0-60	2208.48	83.43%	97.91%
0-90	2254.54	85.17%	99.95%
0-120	2254.54	85.17%	99.95%
0-180	2255.57	85.21%	100.00%
60-90	46.05	1.74%	2.04%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.64	1804.46	68.17%	80.00%

ZONAL LUMEN SUMMARY

0-10	348.02
10-20	811.41
20-30	718.31
30-40	253.08
40-50	51.39
50-60	26.27
60-70	18.61
70-80	16.26
80-90	11.18
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):

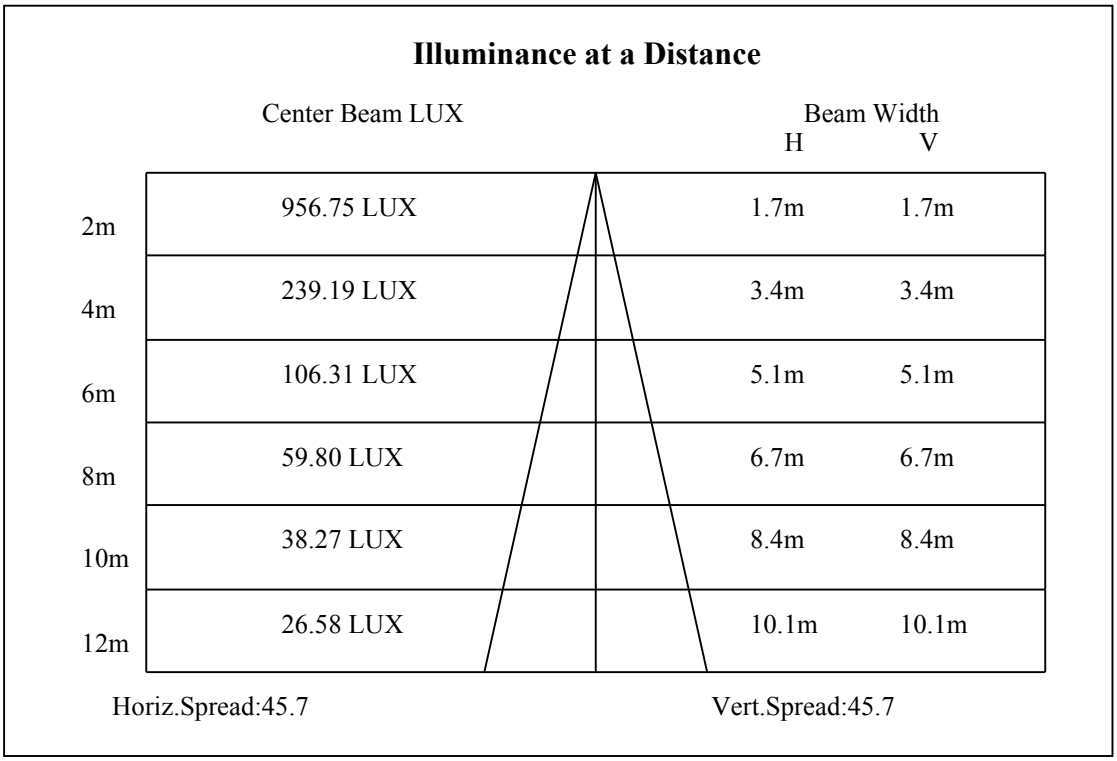
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:34.7 Right:34.7
:C90/270Left:34.7 Right:34.7

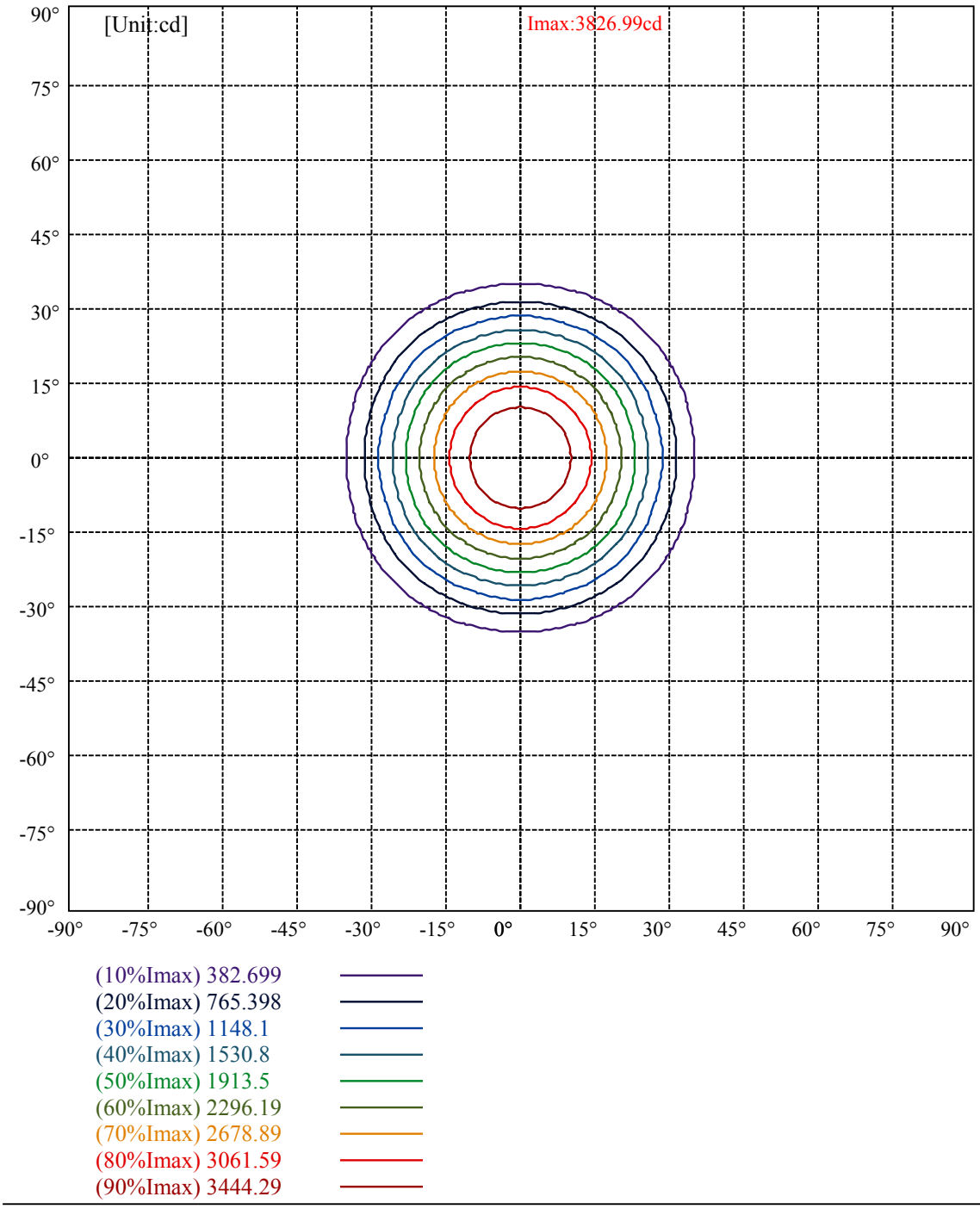
Beam Angle(50%Imax):C0/180Left:22.8 Right:22.8
:C90/270Left:22.8 Right:22.8

Lux distance Curve



Equipment: GMS1980 Date: 2024/4/16 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)



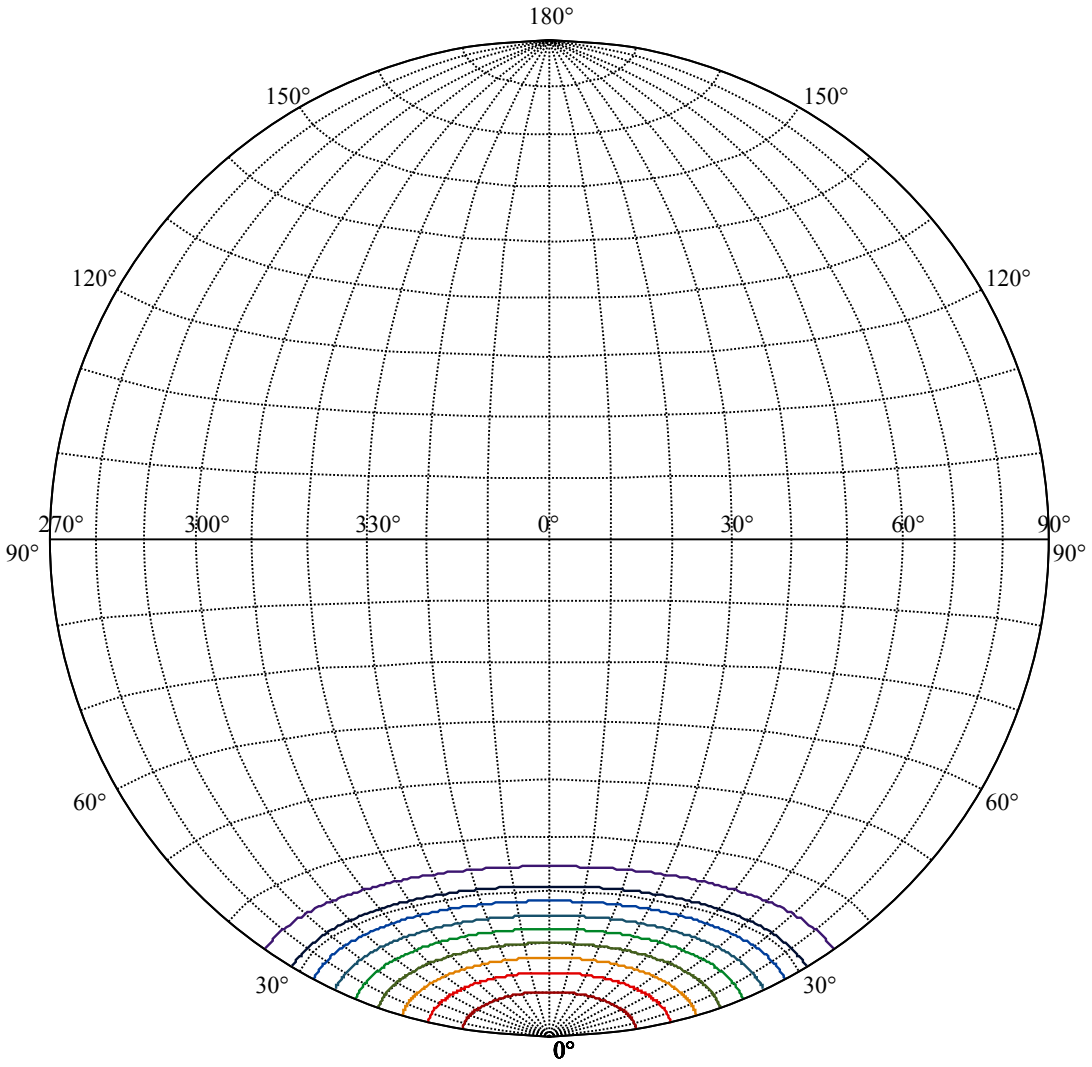
(10%Imax) 382.699
(20%Imax) 765.398
(30%Imax) 1148.1
(40%Imax) 1530.8
(50%Imax) 1913.5
(60%Imax) 2296.19
(70%Imax) 2678.89
(80%Imax) 3061.59
(90%Imax) 3444.29

Equipment: GMS1980
Temperature(°C): 25.0

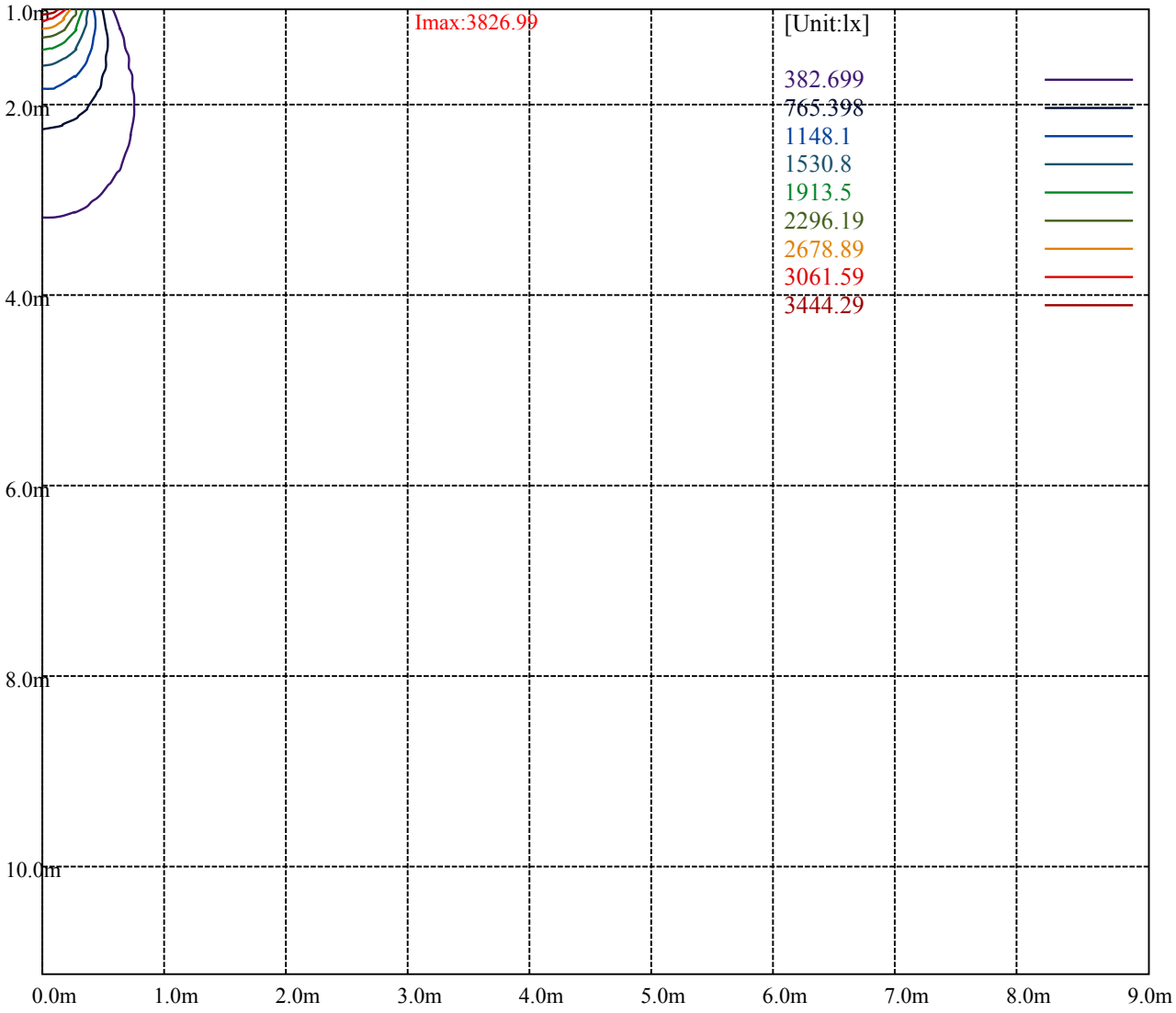
Date: 2024/4/16
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/16
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

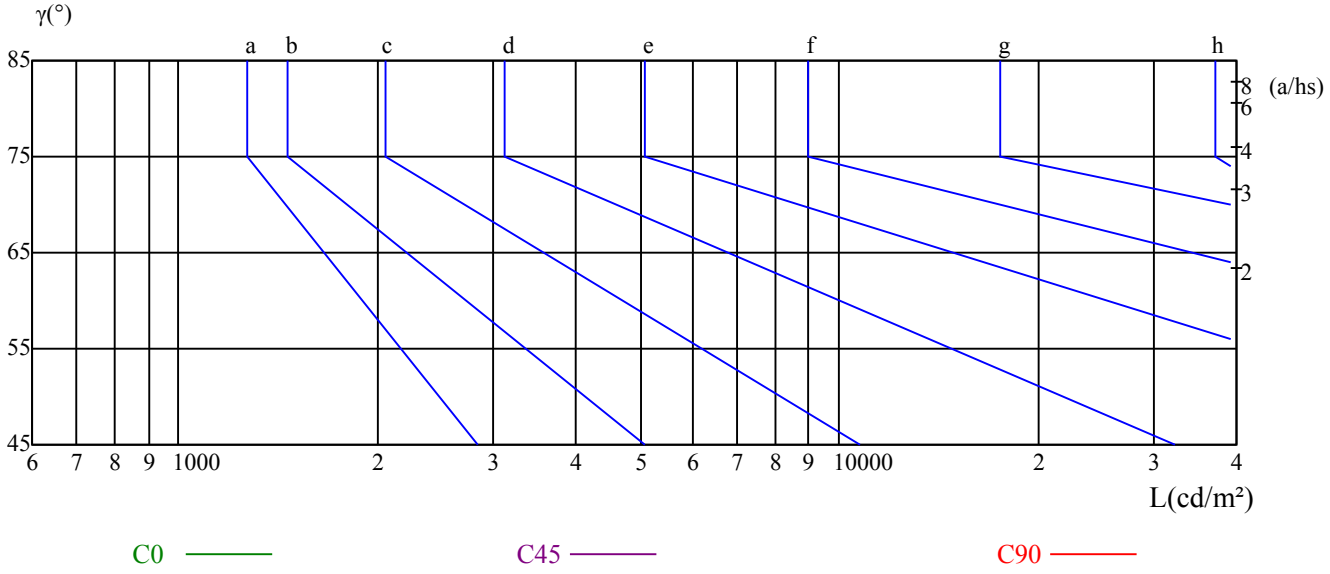
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

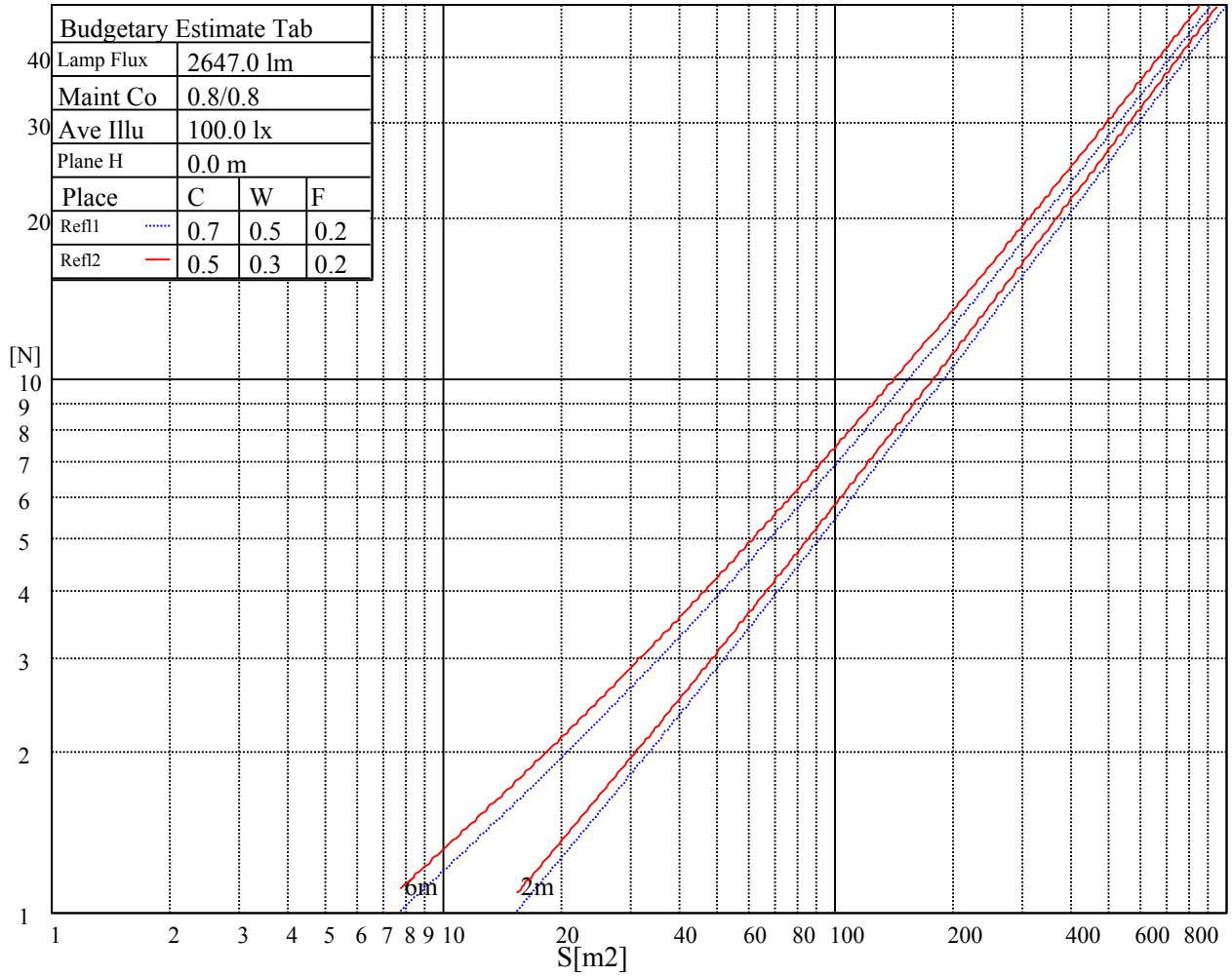
Luminance Limitting Curve



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

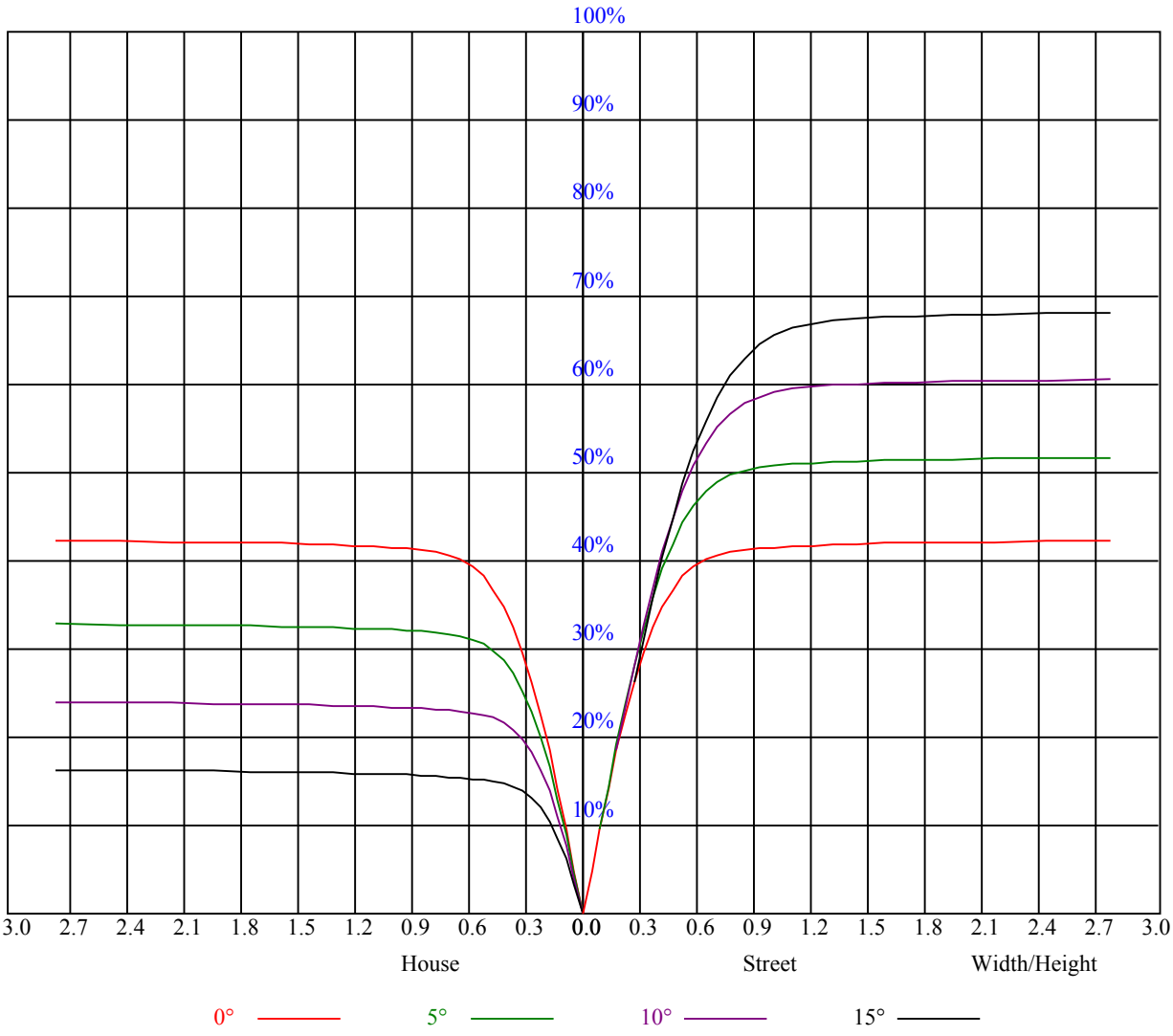


Equipment: GMS1980 Date: 2024/4/16 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

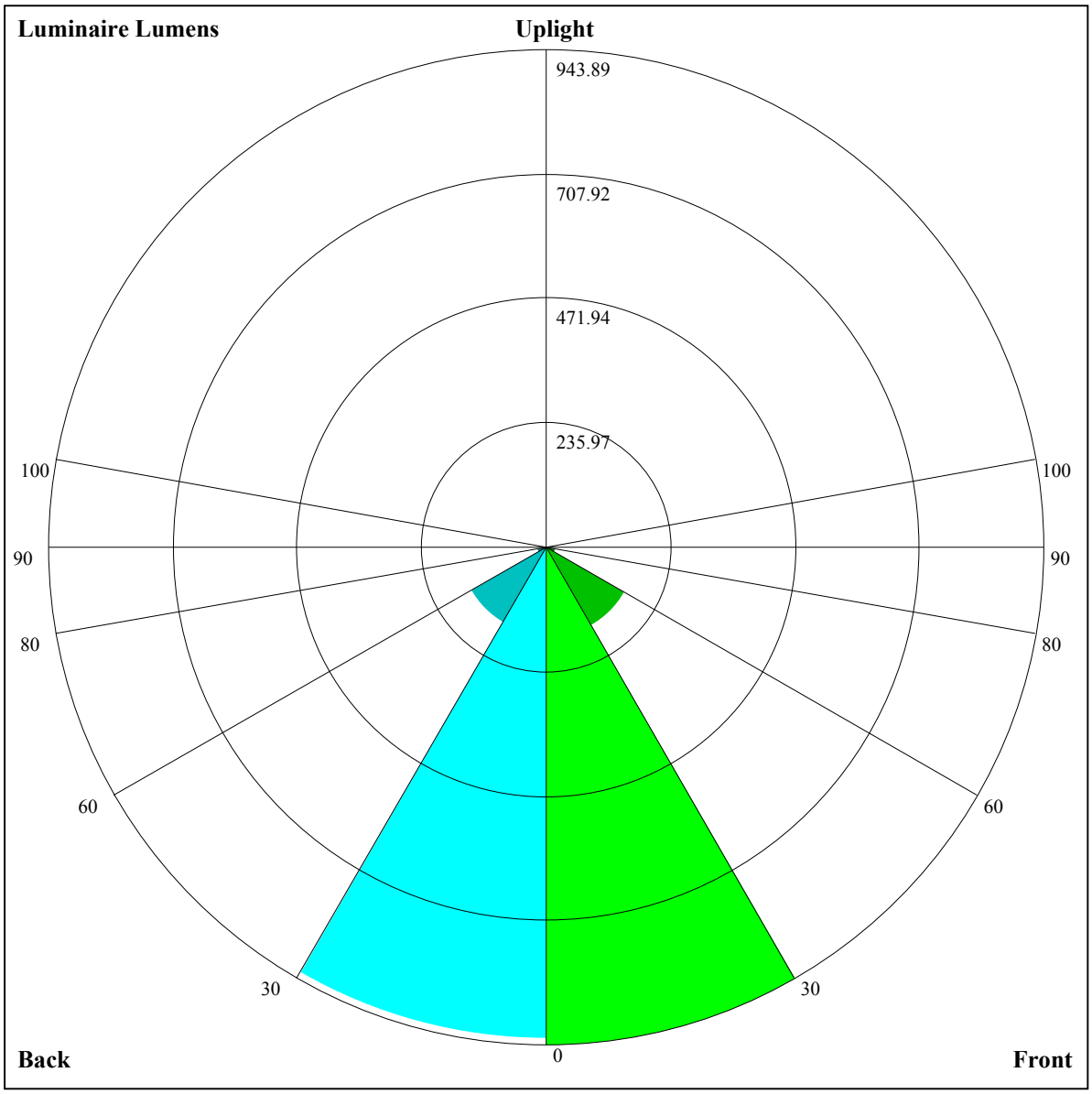
Utilization factor table for indoor luminaire

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	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.85
1	0.95	0.92	0.91	0.93	0.91	0.89	0.89	0.88	0.86	0.86	0.85	0.84	0.83	0.82	0.81	0.80
2	0.89	0.85	0.83	0.87	0.84	0.82	0.84	0.82	0.80	0.82	0.80	0.78	0.79	0.78	0.77	0.75
3	0.83	0.79	0.76	0.82	0.78	0.76	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.71
4	0.79	0.74	0.71	0.78	0.74	0.70	0.76	0.72	0.70	0.74	0.71	0.69	0.73	0.70	0.68	0.67
5	0.74	0.70	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.67	0.65	0.69	0.67	0.64	0.63
6	0.70	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.60
7	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.63	0.60	0.58	0.57
8	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.54
9	0.61	0.56	0.53	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.51
10	0.58	0.54	0.51	0.58	0.53	0.51	0.57	0.53	0.50	0.56	0.53	0.50	0.56	0.52	0.50	0.49

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/4/16	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=943.89,FM=170.86,FH=17.47,FVH=6.15
BL=933.83,BM=164.23,BH=17.4,BVH=6.09
UL=0,UH=0

BUG Rating:B2-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	3829.19	3825.09	3799.92	3782.37	3756.62	3726.77	3694.58	3648.94	3595.68
45.0	3832.11	3832.11	3825.09	3808.12	3779.44	3760.13	3731.45	3698.68	3637.82
90.0	3825.09	3817.48	3805.78	3779.44	3759.54	3727.36	3685.81	3631.96	3576.95
135.0	3821.58	3823.92	3818.07	3806.36	3778.27	3754.28	3715.65	3665.32	3612.07
180.0	3829.19	3829.77	3820.41	3805.19	3781.78	3739.65	3708.04	3661.23	3611.48
225.0	3832.11	3822.16	3807.53	3787.63	3751.35	3713.90	3662.98	3611.48	3545.94
270.0	3825.09	3828.02	3826.84	3812.21	3783.54	3765.98	3729.11	3693.41	3634.89
315.0	3821.58	3813.97	3788.81	3777.69	3750.18	3725.60	3691.66	3636.06	3571.10
360.0	3829.19	3825.09	3799.92	3782.37	3756.62	3726.77	3694.58	3648.94	3595.68

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3520.77	3437.08	3362.18	3282.00	3166.71	3071.90	2961.88	2817.92	2695.60
45.0	3588.66	3521.94	3430.06	3354.57	3252.15	3156.76	3063.13	2920.92	2793.92
90.0	3486.24	3407.82	3323.55	3213.53	3116.97	2986.46	2879.95	2752.96	2630.06
135.0	3554.72	3480.98	3386.17	3297.80	3214.70	3118.14	2993.48	2879.37	2754.71
180.0	3531.89	3456.98	3370.37	3280.83	3169.05	3074.25	2970.08	2831.38	2702.63
225.0	3470.44	3358.66	3279.07	3190.71	3095.90	2970.66	2857.13	2735.40	2600.80
270.0	3576.95	3506.73	3415.43	3317.70	3232.84	3140.96	3044.40	2908.63	2789.83
315.0	3491.51	3433.57	3329.40	3248.06	3164.96	3039.13	2932.62	2781.05	2659.91
360.0	3520.77	3437.08	3362.18	3282.00	3166.71	3071.90	2961.88	2817.92	2695.60

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2544.03	2426.40	2312.28	2157.78	2024.35	1890.92	1765.10	1601.23	1466.05
45.0	2671.61	2549.88	2400.07	2280.10	2160.71	2032.54	1870.44	1743.44	1608.26
90.0	2475.56	2352.08	2229.77	2098.09	1938.32	1803.72	1672.05	1544.47	1141.07
135.0	2603.14	2484.92	2329.84	2202.85	2075.27	1945.35	1777.39	1645.13	1509.94
180.0	2548.13	2423.48	2304.09	2178.27	2018.50	1878.05	1754.56	1616.45	1444.39
225.0	2453.91	2331.01	2206.94	2043.66	1913.16	1752.22	1620.55	1484.19	1151.43
270.0	2668.68	2540.52	2384.85	2264.88	2143.74	1981.05	1842.35	1681.41	1548.56
315.0	2527.06	2377.83	2256.10	2134.37	2009.72	1847.61	1721.79	1591.29	1458.44
360.0	2544.03	2426.40	2312.28	2157.78	2024.35	1890.92	1765.10	1601.23	1466.05

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1154.71	1154.71	1026.31	900.13	773.61	654.52	523.54	434.71	347.86
45.0	1437.96	1298.67	1163.49	1000.21	870.29	743.88	599.91	501.60	418.49
90.0	1141.07	1076.05	950.82	820.95	664.93	557.60	465.78	388.41	308.53
135.0	1373.58	1204.45	1071.61	944.61	818.20	671.31	561.87	448.34	376.94
180.0	1312.13	1185.72	1030.64	900.72	766.70	635.61	529.69	430.20	350.02
225.0	1151.43	1050.89	921.09	792.39	646.15	540.81	448.63	358.33	302.15
270.0	1407.52	1283.46	1113.74	973.87	848.05	722.23	577.09	481.11	404.45
315.0	1153.36	1153.36	1023.09	891.59	731.88	615.01	490.89	410.48	345.11
360.0	1154.71	1154.71	1026.31	900.13	773.61	654.52	523.54	434.71	347.86

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	290.21	242.58	193.24	161.93	136.71	115.52	94.75	81.64	71.34
45.0	350.02	306.13	306.13	188.44	157.19	125.82	106.39	90.42	75.49
90.0	255.68	210.97	173.93	137.29	115.23	96.97	78.71	67.48	58.93
135.0	317.25	303.79	243.40	171.06	135.71	113.71	95.92	81.40	67.42
180.0	296.18	296.18	192.89	160.35	133.90	112.83	91.06	77.78	66.95
225.0	254.22	203.48	170.48	142.39	114.29	96.56	81.93	67.77	59.05
270.0	326.61	299.11	299.11	178.55	148.82	118.68	99.72	84.33	71.81
315.0	276.40	230.46	192.19	160.94	129.04	108.62	92.29	78.95	66.13
360.0	290.21	242.58	193.24	161.93	136.71	115.52	94.75	81.64	71.34

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	62.85	54.95	49.80	45.65	41.20	38.39	36.11	33.77	32.13
45.0	66.13	57.24	52.03	47.46	43.72	39.74	37.10	35.00	33.18
90.0	50.97	46.47	42.25	39.74	37.45	35.41	33.71	31.78	30.49
135.0	58.99	52.61	47.75	43.19	40.44	37.98	35.41	33.71	31.84
180.0	58.46	50.80	46.41	43.01	39.68	37.40	34.88	33.18	31.60
225.0	52.32	47.40	42.84	40.09	37.63	35.58	33.30	31.66	30.31
270.0	59.99	53.08	47.99	44.07	41.08	37.98	35.93	34.00	31.95
315.0	58.52	52.79	47.40	43.89	40.85	37.75	35.58	33.24	31.60
360.0	62.85	54.95	49.80	45.65	41.20	38.39	36.11	33.77	32.13

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	30.67	29.20	28.15	27.04	25.93	24.52	23.41	22.30	21.30
45.0	31.25	29.96	28.85	27.80	26.45	25.40	24.05	22.94	21.89
90.0	29.32	27.97	26.98	25.98	24.81	23.76	22.82	21.54	20.60
135.0	30.49	29.32	28.27	27.27	25.98	24.93	23.94	22.65	21.59
180.0	30.26	28.85	27.80	26.80	25.75	24.46	23.41	22.36	21.13
225.0	28.85	27.80	26.57	25.52	24.52	23.53	22.18	21.19	20.25
270.0	30.49	28.97	27.86	26.80	25.52	24.52	23.53	22.41	21.19
315.0	30.20	29.03	27.86	26.51	25.40	24.29	23.23	21.83	20.78
360.0	30.67	29.20	28.15	27.04	25.93	24.52	23.41	22.30	21.30

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.19	19.37	18.26	17.62	17.15	16.74	16.44	16.27	16.09
45.0	20.60	19.78	18.90	17.85	17.26	16.85	16.56	16.21	16.04
90.0	19.78	18.73	17.85	17.26	16.91	16.56	16.33	16.21	16.04
135.0	20.66	19.90	18.79	17.91	17.26	16.91	16.62	16.33	16.21
180.0	20.25	19.43	18.32	17.50	17.09	16.62	16.39	16.21	15.98
225.0	19.49	18.38	17.50	16.97	16.56	16.27	16.09	15.86	15.74
270.0	20.25	19.43	18.55	17.50	16.91	16.50	16.15	15.92	15.74
315.0	19.72	18.84	17.97	17.21	16.80	16.44	16.15	15.98	15.86
360.0	20.19	19.37	18.26	17.62	17.15	16.74	16.44	16.27	16.09

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.98	15.86	15.80	15.63	15.51	15.33	15.16	14.92	14.34
45.0	15.92	15.74	15.63	15.51	15.39	15.22	15.10	14.92	14.63
90.0	15.92	15.80	15.68	15.57	15.45	15.33	15.10	14.81	14.05
135.0	16.04	15.86	15.74	15.63	15.51	15.39	15.16	14.98	14.63
180.0	15.80	15.68	15.57	15.45	15.27	15.16	14.98	14.69	14.16
225.0	15.63	15.45	15.27	15.16	14.98	14.81	14.57	14.28	13.64
270.0	15.57	15.45	15.33	15.27	15.16	15.04	14.92	14.63	14.46
315.0	15.74	15.57	15.45	15.27	15.16	15.04	14.81	14.57	13.93
360.0	15.98	15.86	15.80	15.63	15.51	15.33	15.16	14.92	14.34

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.99	13.34	12.35	11.53	10.77	10.18	9.83	9.71	9.48
45.0	14.10	13.69	12.87	12.00	11.12	10.48	10.01	9.77	9.54
90.0	13.58	12.70	11.94	11.00	10.42	9.95	9.71	9.54	9.42
135.0	13.87	13.46	12.29	11.53	10.71	10.18	9.89	9.66	9.48
180.0	13.69	13.05	11.94	11.29	10.53	10.12	9.89	9.66	9.42
225.0	13.23	12.47	11.53	10.89	10.30	9.95	9.71	9.54	9.42
270.0	13.81	13.46	12.70	11.65	10.89	10.36	10.01	9.71	9.48
315.0	13.58	12.87	11.94	11.18	10.48	10.01	9.71	9.54	9.36
360.0	13.99	13.34	12.35	11.53	10.77	10.18	9.83	9.71	9.48

Intensity data(cd)

C/γ(°)	90.0
0.0	9.48
45.0	9.42
90.0	9.42
135.0	9.42
180.0	9.54
225.0	9.48
270.0	9.48
315.0	9.36
360.0	9.48