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NT

Client:
LumCAT: 2-2680-L
Luminaire: 92.70.411.00
Report No: 2024418-B007
Ballast type: AC

Test No: 2024418-C007	Voltage(V): 33.630
LampCAT: NICHIA NFCWJ120B-V3	Current(A): 0.576
Lamp flux(lm): 2726.0	Power (W): 19.370
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2262.38, Efficiency(%): 82.99% , Luminous Efficacy(lm/W): 116.80
Central intensity(cd): 5072.643, Maximum intensity(cd): 5072.643
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=37.2
[C90/270]Total=37.2
Field angle(10%Imax): [C0/180]Total=64.8
[C90/270]Total=64.8
Maximum s/h(1/2): C0_180=0.60 C90_270=0.60
Maximum s/h(1/4): C0_180=0.61 C90_270=0.61
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.99%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.074%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5072.643	0.000	0	0.00%	0.00%
1.0	5064.961	4.851	4.851	0.18%	0.21%
2.0	5037.383	14.500	19.35	0.53%	0.86%
3.0	5005.927	24.020	43.371	0.88%	1.92%
4.0	4950.038	33.326	76.697	1.22%	3.39%
5.0	4868.692	42.240	118.936	1.55%	5.26%
6.0	4765.399	50.630	169.566	1.86%	7.50%
7.0	4650.622	58.445	228.011	2.14%	10.08%
8.0	4525.238	65.670	293.681	2.41%	12.98%
9.0	4375.566	72.136	365.817	2.65%	16.17%
10.0	4197.731	77.585	443.402	2.85%	19.60%
11.0	4035.478	82.267	525.669	3.02%	23.24%
12.0	3847.108	86.168	611.837	3.16%	27.04%
13.0	3660.275	89.094	700.931	3.27%	30.98%
14.0	3461.518	91.158	792.089	3.34%	35.01%
15.0	3260.347	92.281	884.37	3.39%	39.09%
16.0	3046.594	92.414	976.784	3.39%	43.18%
17.0	2855.810	91.916	1068.7	3.37%	47.24%
18.0	2648.348	90.752	1159.452	3.33%	51.25%
19.0	2446.299	88.636	1248.089	3.25%	55.17%
20.0	2233.862	85.660	1333.748	3.14%	58.95%
21.0	2042.860	82.122	1415.87	3.01%	62.58%
22.0	1837.592	77.979	1493.85	2.86%	66.03%
23.0	1671.388	73.628	1567.477	2.70%	69.28%
24.0	1449.858	68.242	1635.719	2.50%	72.30%
25.0	1290.472	62.309	1698.028	2.29%	75.05%
26.0	1203.054	58.860	1756.888	2.16%	77.66%
27.0	1078.453	55.818	1812.706	2.05%	80.12%
28.0	959.169	51.588	1864.294	1.89%	82.40%
29.0	838.569	47.034	1911.328	1.73%	84.48%
30.0	732.109	42.408	1953.736	1.56%	86.36%
31.0	630.741	37.926	1991.662	1.39%	88.03%
32.0	538.685	33.503	2025.165	1.23%	89.51%
33.0	451.501	29.171	2054.336	1.07%	90.80%
34.0	377.031	25.074	2079.41	0.92%	91.91%
35.0	309.818	21.331	2100.741	0.78%	92.86%
36.0	259.986	18.143	2118.883	0.67%	93.66%
37.0	228.560	15.934	2134.817	0.58%	94.36%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	160.549	12.988	2147.805	0.48%	94.94%
39.0	119.503	9.559	2157.364	0.35%	95.36%
40.0	94.324	7.458	2164.821	0.27%	95.69%
41.0	74.550	6.014	2170.835	0.22%	95.95%
42.0	61.119	4.929	2175.764	0.18%	96.17%
43.0	51.763	4.181	2179.946	0.15%	96.36%
44.0	45.070	3.655	2183.6	0.13%	96.52%
45.0	39.847	3.263	2186.864	0.12%	96.66%
46.0	36.116	2.971	2189.835	0.11%	96.79%
47.0	33.153	2.755	2192.59	0.10%	96.92%
48.0	30.607	2.578	2195.167	0.09%	97.03%
49.0	28.464	2.426	2197.593	0.09%	97.14%
50.0	26.701	2.300	2199.893	0.08%	97.24%
51.0	25.106	2.192	2202.085	0.08%	97.33%
52.0	23.789	2.098	2204.183	0.08%	97.43%
53.0	22.582	2.017	2206.2	0.07%	97.52%
54.0	21.558	1.946	2208.146	0.07%	97.60%
55.0	20.673	1.885	2210.031	0.07%	97.69%
56.0	19.898	1.833	2211.864	0.07%	97.77%
57.0	19.217	1.788	2213.652	0.07%	97.85%
58.0	18.588	1.748	2215.401	0.06%	97.92%
59.0	18.062	1.713	2217.114	0.06%	98.00%
60.0	17.615	1.685	2218.8	0.06%	98.07%
61.0	17.206	1.662	2220.461	0.06%	98.15%
62.0	16.833	1.640	2222.101	0.06%	98.22%
63.0	16.540	1.623	2223.725	0.06%	98.29%
64.0	16.225	1.608	2225.332	0.06%	98.36%
65.0	15.940	1.592	2226.924	0.06%	98.43%
66.0	15.655	1.576	2228.5	0.06%	98.50%
67.0	15.435	1.563	2230.064	0.06%	98.57%
68.0	15.245	1.554	2231.618	0.06%	98.64%
69.0	15.106	1.548	2233.166	0.06%	98.71%
70.0	15.070	1.550	2234.716	0.06%	98.78%
71.0	15.128	1.561	2236.277	0.06%	98.85%
72.0	15.274	1.581	2237.858	0.06%	98.92%
73.0	15.377	1.603	2239.461	0.06%	98.99%
74.0	15.523	1.624	2241.085	0.06%	99.06%
75.0	15.589	1.644	2242.729	0.06%	99.13%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.443	1.647	2244.376	0.06%	99.20%
77.0	15.172	1.632	2246.008	0.06%	99.28%
78.0	14.704	1.599	2247.608	0.06%	99.35%
79.0	14.060	1.545	2249.153	0.06%	99.42%
80.0	13.138	1.466	2250.619	0.05%	99.48%
81.0	12.129	1.366	2251.986	0.05%	99.54%
82.0	11.558	1.285	2253.27	0.05%	99.60%
83.0	11.251	1.240	2254.51	0.05%	99.65%
84.0	11.053	1.215	2255.725	0.04%	99.71%
85.0	10.746	1.190	2256.915	0.04%	99.76%
86.0	10.388	1.155	2258.07	0.04%	99.81%
87.0	9.927	1.112	2259.182	0.04%	99.86%
88.0	9.795	1.080	2260.263	0.04%	99.91%
89.0	9.642	1.065	2261.328	0.04%	99.95%
90.0	9.590	1.054	2262.382	0.04%	100.00%

Zonal flux distribution table

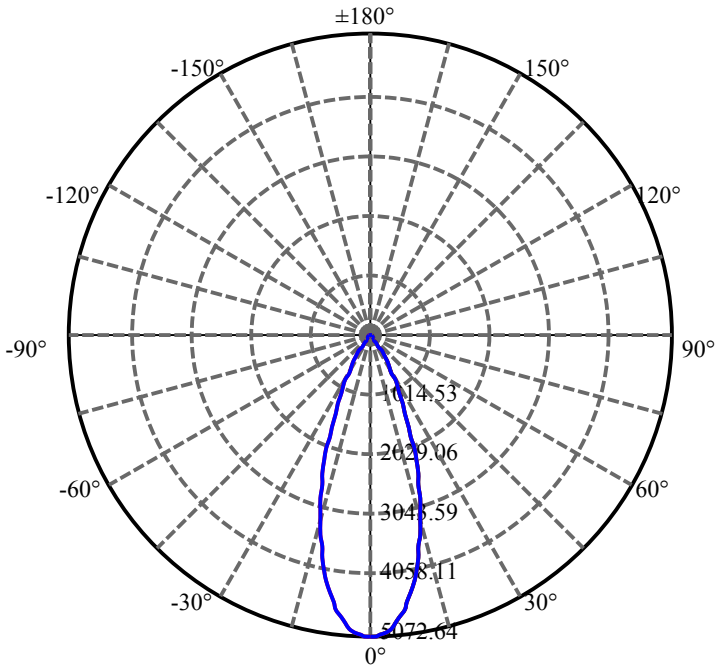
ZONAL LUMEN SUMMARY

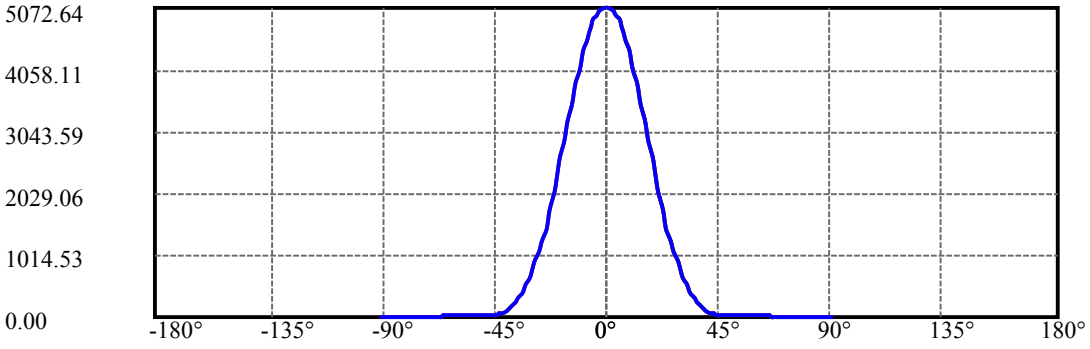
Zone	Lumens	%Lamp	%Fixt
0-30	1953.74	71.67%	86.36%
0-40	2164.82	79.41%	95.69%
0-60	2218.80	81.39%	98.07%
0-90	2261.33	82.95%	99.95%
0-120	2261.33	82.95%	99.95%
0-180	2262.38	82.99%	100.00%
60-90	42.53	1.56%	1.88%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.95	1809.91	66.39%	80.00%

ZONAL LUMEN SUMMARY

0-10	443.40
10-20	890.35
20-30	619.99
30-40	211.09
40-50	35.07
50-60	18.91
60-70	15.92
70-80	15.90
80-90	10.71
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):

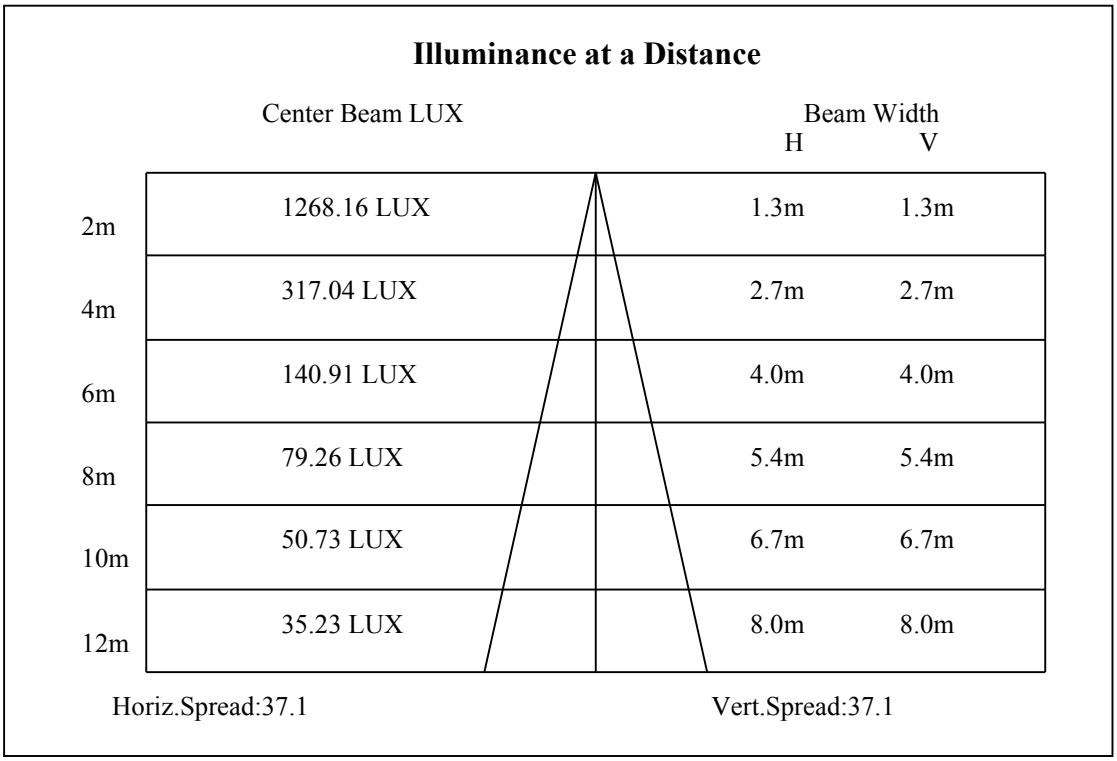
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:32.4 Right:32.4
:C90/270Left:32.4 Right:32.4

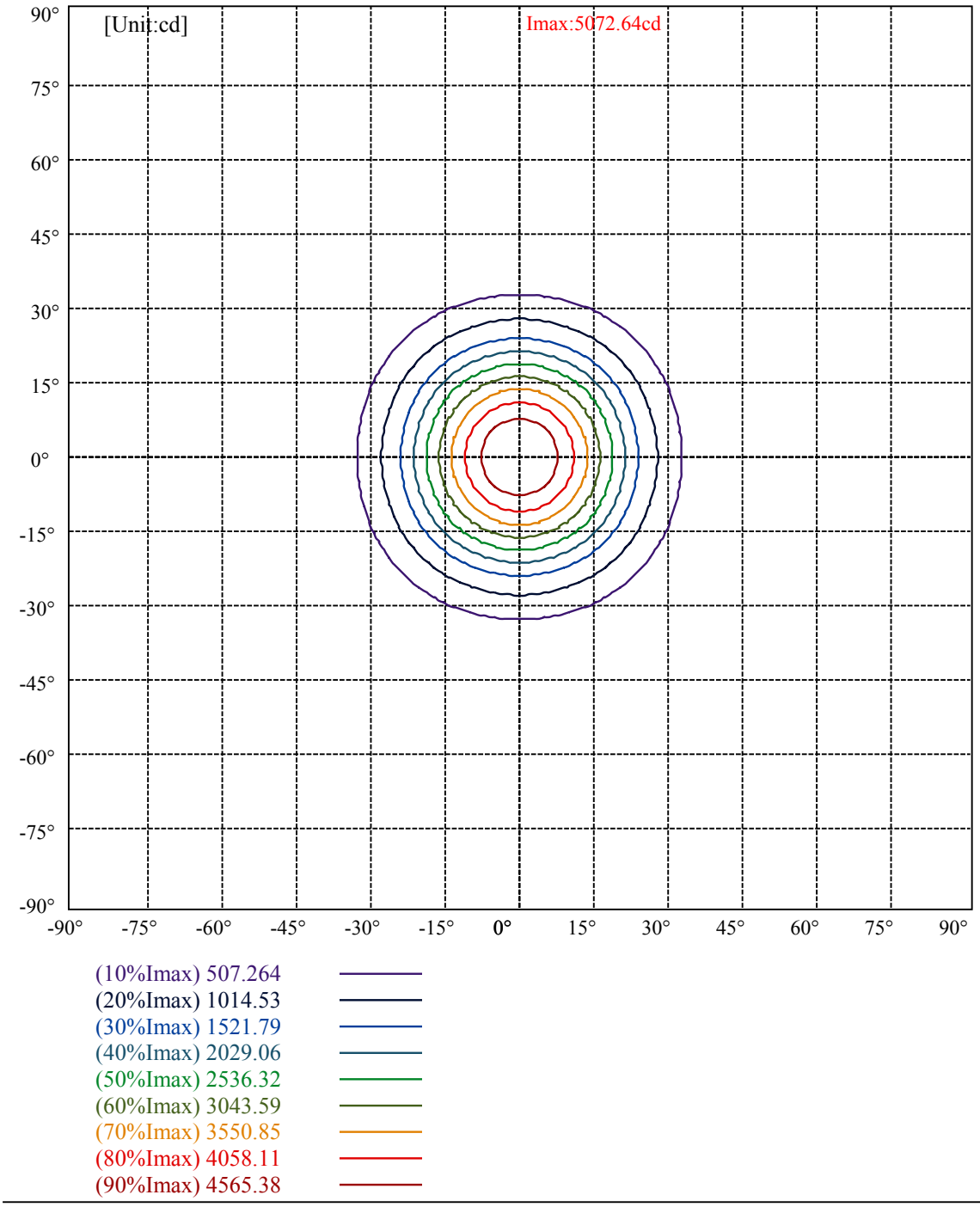
Beam Angle(50%Imax):C0/180Left:18.6 Right:18.6
:C90/270Left:18.6 Right:18.6

Lux distance Curve



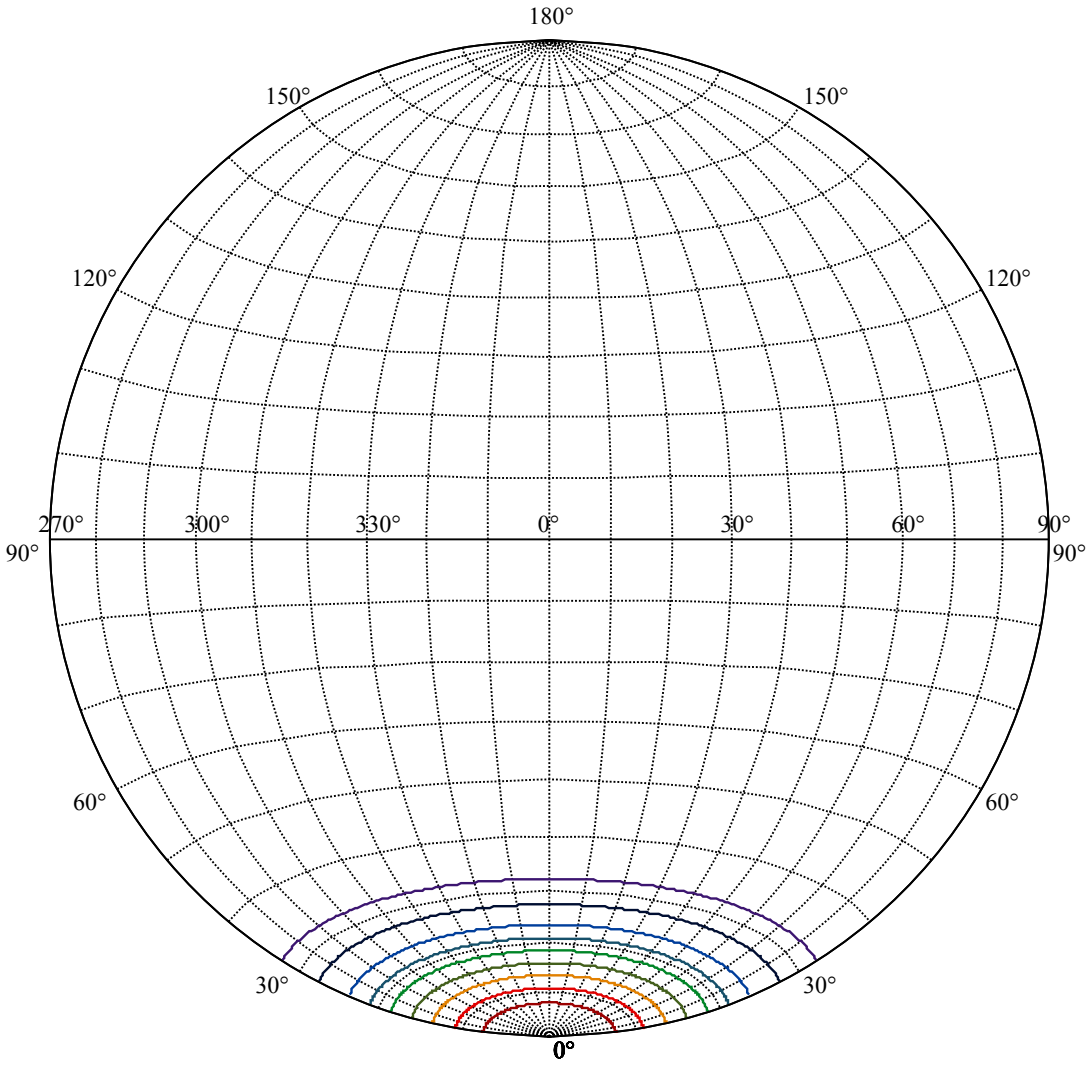
Equipment: GMS1980 Date: 2024/4/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)



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

ISO candela diagram on circular web



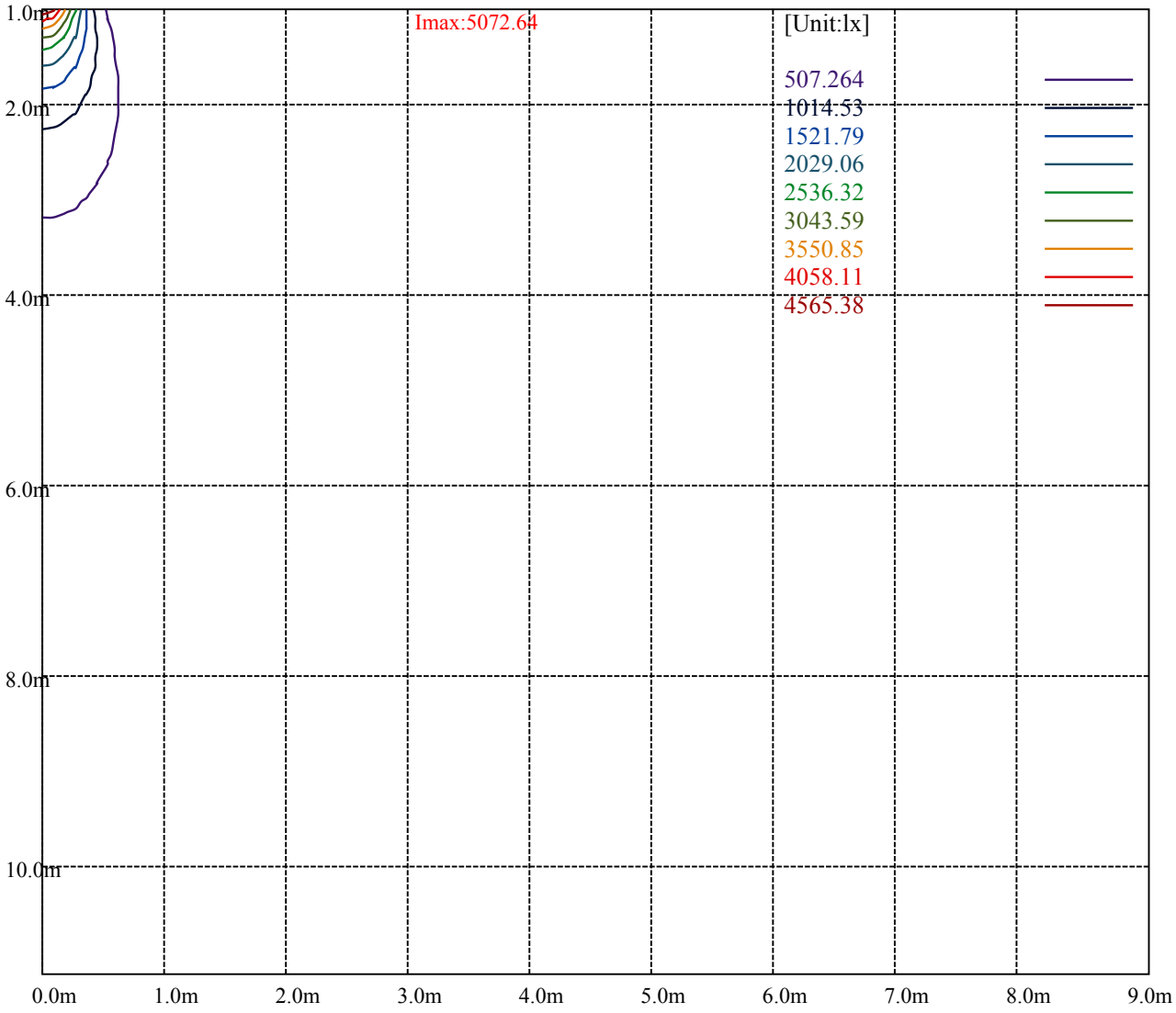
[Unit:cd]

Imax:5072.64

(10%Imax) 507.264
(20%Imax) 1014.53
(30%Imax) 1521.79
(40%Imax) 2029.06
(50%Imax) 2536.32
(60%Imax) 3043.59
(70%Imax) 3550.85
(80%Imax) 4058.11
(90%Imax) 4565.38

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

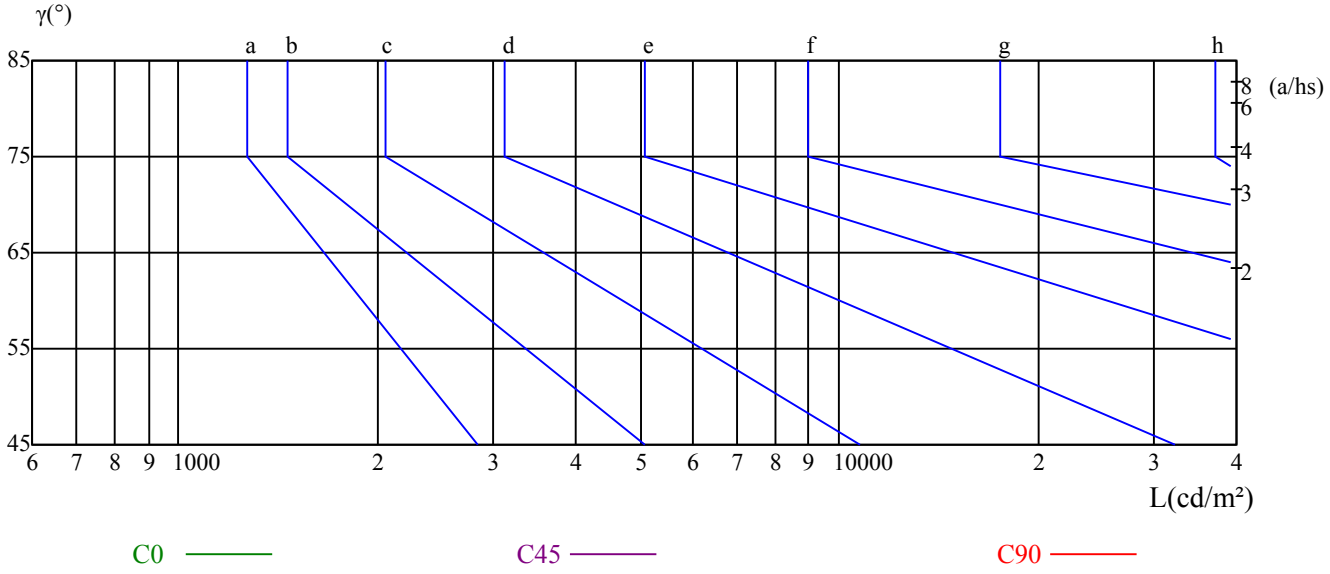
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

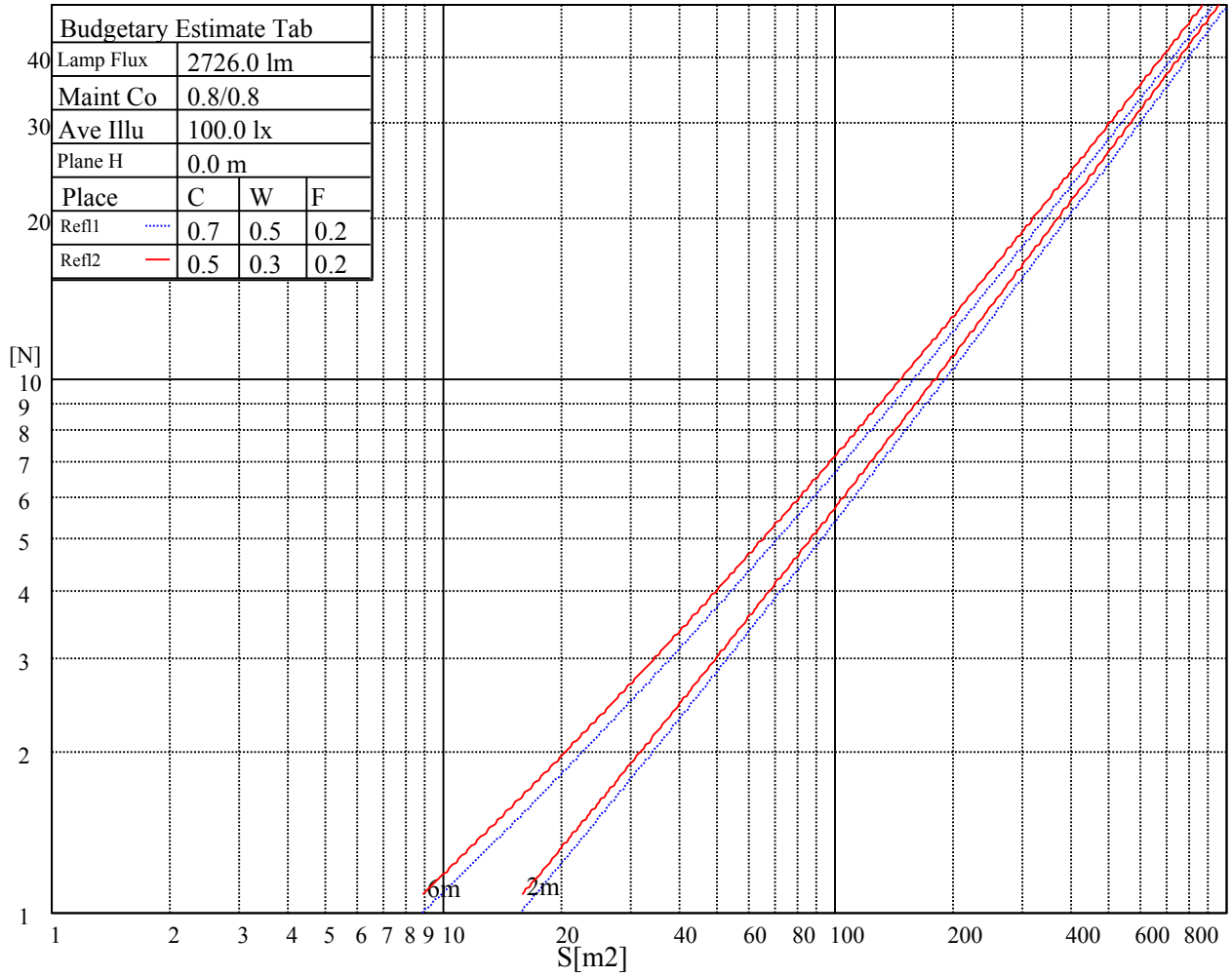
Luminance Limitting Curve



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

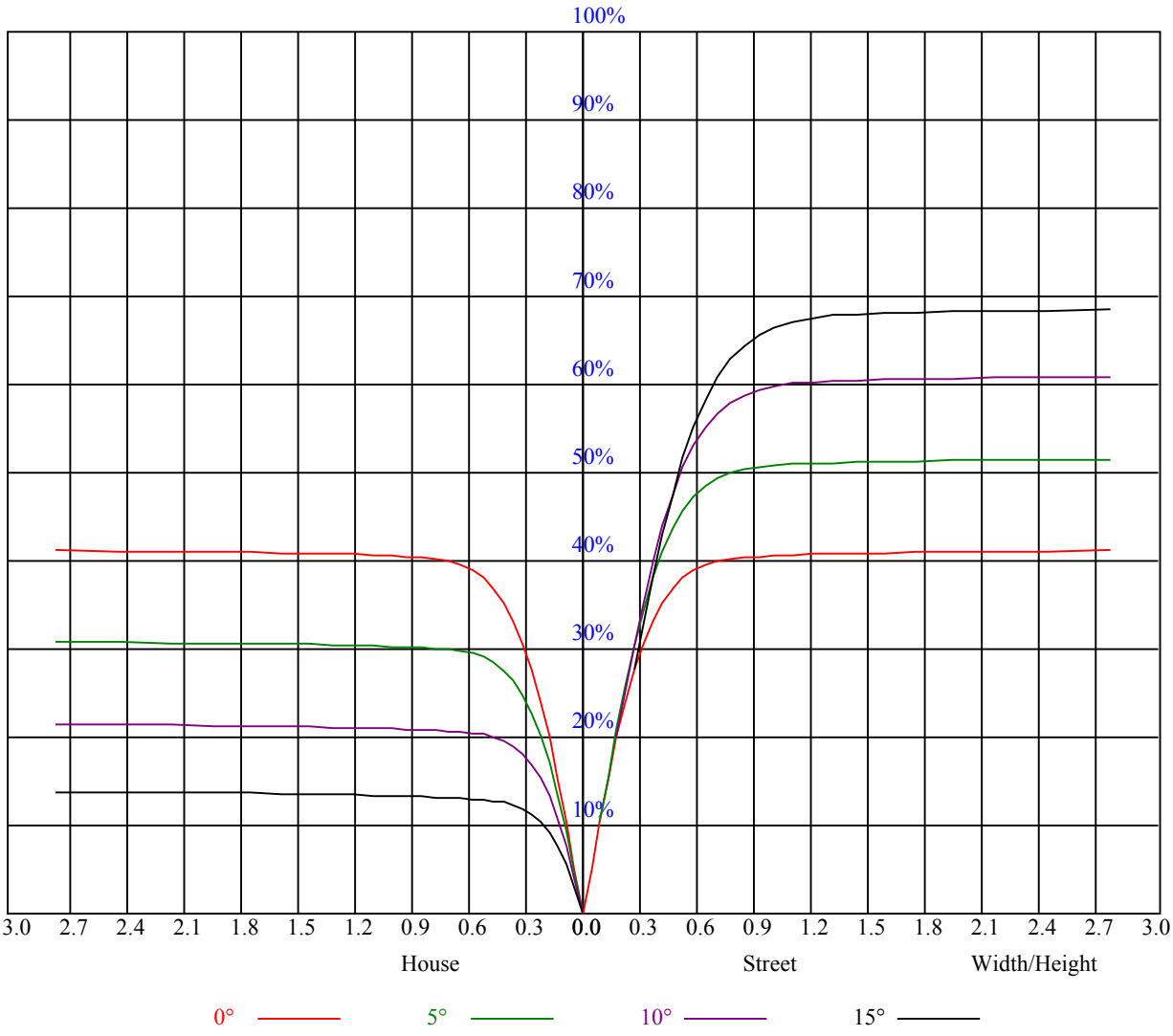


Equipment: GMS1980 Date: 2024/4/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

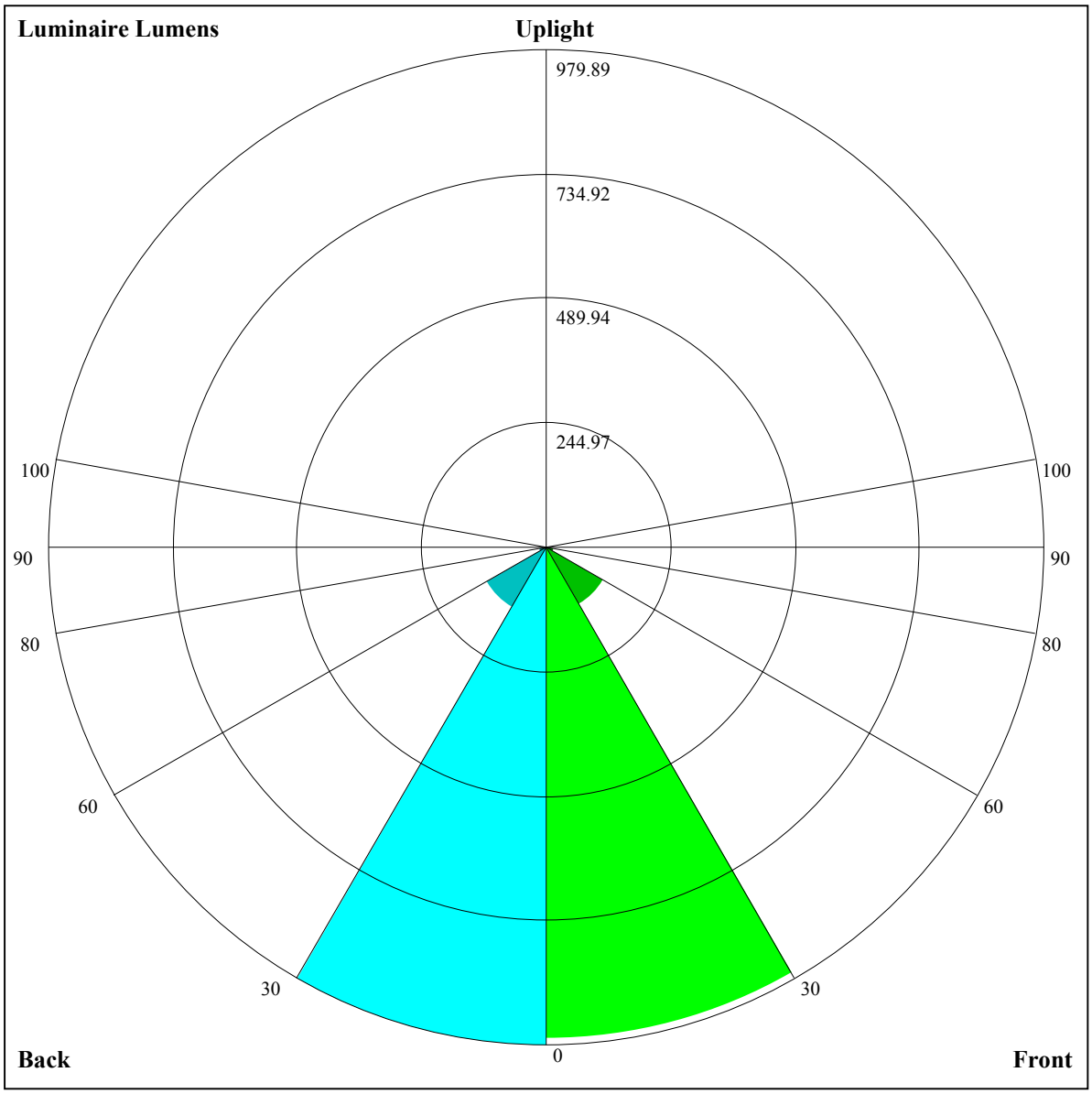
Utilization factor table for indoor luminaire

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	0.99	0.99	0.99	0.97	0.97	0.97	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.92	0.90	0.89	0.91	0.89	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.78
2	0.87	0.84	0.81	0.85	0.83	0.80	0.83	0.81	0.79	0.80	0.79	0.77	0.78	0.77	0.75	0.74
3	0.82	0.78	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.75	0.73	0.71	0.70
4	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.72	0.70	0.68	0.67
5	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.70	0.68	0.65	0.69	0.67	0.65	0.64
6	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.64	0.62	0.67	0.64	0.62	0.61
7	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.64	0.61	0.59	0.58
8	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.56	0.55
9	0.62	0.58	0.55	0.61	0.57	0.55	0.61	0.57	0.54	0.60	0.57	0.54	0.59	0.56	0.54	0.53
10	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.51

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=969.02,FM=130.72,FH=16.07,FVH=5.96
BL=979.89,BM=135.85,BH=15.65,BVH=5.87
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	5070.45	5059.91	5031.82	4997.88	4939.36	4825.82	4732.19	4620.41	4485.81
45.0	5071.03	5070.45	5059.33	5039.43	5023.04	4953.99	4870.89	4786.61	4657.28
90.0	5076.30	5069.28	5047.62	5021.29	4942.28	4865.03	4783.69	4650.26	4535.55
135.0	5072.79	5074.54	5064.01	5046.45	5010.75	4944.62	4850.40	4756.77	4653.77
180.0	5070.45	5077.47	5059.91	5028.90	4979.15	4908.34	4798.32	4695.32	4579.44
225.0	5071.03	5045.87	5001.98	4961.60	4883.18	4777.25	4640.31	4512.14	4374.62
270.0	5076.30	5078.06	5045.28	4995.54	4937.60	4885.52	4784.27	4658.45	4523.85
315.0	5072.79	5044.11	4989.10	4956.33	4884.93	4788.95	4663.13	4525.02	4391.59
360.0	5070.45	5059.91	5031.82	4997.88	4939.36	4825.82	4732.19	4620.41	4485.81

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4306.14	4152.82	3979.59	3764.23	3587.49	3358.08	3164.37	2981.78	2788.07
45.0	4537.31	4393.93	4240.01	4036.94	3869.57	3692.83	3458.15	3263.27	3071.32
90.0	4390.42	4192.03	4028.75	3863.13	3676.44	3489.17	3248.64	3054.35	2864.15
135.0	4510.39	4361.16	4210.75	4012.95	3841.48	3669.42	3478.05	3239.86	3045.57
180.0	4413.24	4254.64	4099.56	3932.19	3719.75	3535.40	3352.23	3113.46	2926.18
225.0	4219.53	4013.53	3844.40	3665.91	3489.17	3258.59	3071.32	2836.64	2645.86
270.0	4398.02	4190.85	4027.58	3863.13	3636.65	3461.08	3270.88	3034.45	2844.84
315.0	4229.48	4022.90	3853.18	3638.40	3461.66	3227.57	3039.13	2848.93	2660.49
360.0	4306.14	4152.82	3979.59	3764.23	3587.49	3358.08	3164.37	2981.78	2788.07

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2551.64	2360.86	2174.75	1990.41	1772.71	1610.01	1455.51	1155.76	1155.76
45.0	2833.72	2645.28	2411.77	2222.16	2037.23	1855.22	1645.71	1495.31	1345.49
90.0	2680.39	2438.69	2244.40	2012.06	1835.32	1669.71	1474.83	1164.89	1164.89
135.0	2859.47	2674.54	2441.03	2251.42	2019.08	1848.20	1676.14	1483.60	1338.47
180.0	2736.57	2538.18	2297.65	2111.55	1883.90	1711.26	1557.34	1376.51	1245.42
225.0	2455.66	2219.82	2036.64	1854.64	1646.30	1492.97	1157.58	1157.58	1068.56
270.0	2655.22	2455.66	2218.06	2032.54	1850.54	1678.48	1483.60	1341.98	1218.50
315.0	2414.11	2237.37	2046.59	1868.10	1655.66	1505.26	1148.15	1148.15	1087.35
360.0	2551.64	2360.86	2174.75	1990.41	1772.71	1610.01	1455.51	1155.76	1155.76

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1034.79	893.35	790.81	695.66	584.46	501.07	424.41	340.54	281.61
45.0	1208.55	1082.14	935.83	829.32	729.83	612.20	527.93	430.78	362.31
90.0	1043.51	928.11	823.35	721.29	604.01	518.86	438.51	369.51	292.09
135.0	1201.53	1073.95	929.40	824.64	725.74	631.52	521.49	443.07	374.02
180.0	1127.79	1010.16	875.56	772.56	676.58	587.04	482.28	408.55	344.17
225.0	961.00	853.78	754.24	637.08	551.75	472.10	383.09	323.34	255.92
270.0	1074.53	961.58	853.90	724.57	629.76	523.25	443.66	373.43	311.98
315.0	975.92	870.29	745.46	651.77	543.79	463.44	390.64	327.02	256.45
360.0	1034.79	893.35	790.81	695.66	584.46	501.07	424.41	340.54	281.61

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	228.59	183.47	136.94	107.62	86.15	70.17	56.36	48.87	43.37
45.0	302.62	302.62	183.23	144.08	112.71	85.09	69.58	58.46	50.50
90.0	236.96	178.55	140.57	110.02	83.16	67.77	56.94	49.16	42.43
135.0	297.94	297.94	231.87	144.38	114.35	87.49	71.81	60.22	52.03
180.0	300.28	300.28	172.35	128.75	101.65	81.23	63.56	53.96	47.05
225.0	208.22	167.32	133.02	99.37	79.47	64.96	54.48	45.53	40.44
270.0	297.94	233.15	155.96	124.48	99.37	76.14	62.74	53.02	44.71
315.0	207.35	165.15	130.45	97.32	77.72	63.56	53.49	44.89	40.03
360.0	228.59	183.47	136.94	107.62	86.15	70.17	56.36	48.87	43.37

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	38.27	35.11	31.95	29.85	28.03	26.39	24.76	23.58	22.53
45.0	43.54	39.44	36.17	32.83	30.61	28.62	26.45	25.11	23.82
90.0	38.39	35.23	32.54	29.79	27.86	26.22	24.46	23.29	22.24
135.0	44.48	40.09	36.64	33.71	30.84	28.79	27.10	25.57	24.05
180.0	41.84	37.10	34.18	31.78	29.67	27.45	25.93	24.58	23.17
225.0	36.64	33.59	30.49	28.44	26.34	24.87	23.58	22.24	21.24
270.0	39.97	35.46	32.71	30.37	27.92	26.28	24.81	23.53	22.12
315.0	35.64	32.89	30.55	28.09	26.45	24.99	23.76	22.41	21.48
360.0	38.27	35.11	31.95	29.85	28.03	26.39	24.76	23.58	22.53

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	21.59	20.60	19.90	19.25	18.67	18.08	17.67	17.21	16.91
45.0	22.47	21.54	20.66	19.96	19.14	18.55	18.02	17.62	17.15
90.0	21.13	20.31	19.61	18.90	18.26	17.85	17.38	16.97	16.68
135.0	22.88	21.77	21.01	20.19	19.49	18.84	18.38	17.91	17.50
180.0	22.12	21.30	20.31	19.61	18.84	18.32	17.85	17.50	16.97
225.0	20.42	19.55	18.96	18.38	17.91	17.38	16.97	16.68	16.33
270.0	21.19	20.37	19.61	18.84	18.26	17.85	17.32	16.91	16.50
315.0	20.66	19.96	19.14	18.61	18.14	17.62	17.32	16.85	16.62
360.0	21.59	20.60	19.90	19.25	18.67	18.08	17.67	17.21	16.91

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	16.62	16.27	16.04	15.92	16.09	16.68	17.38	18.20	19.02
45.0	16.85	16.50	16.21	15.92	15.57	15.33	15.04	14.81	14.46
90.0	16.44	16.21	15.86	15.63	15.39	15.04	14.81	14.57	14.69
135.0	17.21	16.85	16.62	16.21	15.98	15.68	15.33	15.10	14.81
180.0	16.68	16.39	16.09	15.74	15.45	15.16	14.86	15.16	15.74
225.0	16.04	15.68	15.39	15.10	14.81	14.46	14.16	13.87	13.64
270.0	16.21	15.92	15.63	15.33	15.04	14.75	14.51	14.16	13.93
315.0	16.27	15.98	15.68	15.39	15.16	14.86	14.75	14.69	14.75
360.0	16.62	16.27	16.04	15.92	16.09	16.68	17.38	18.20	19.02

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	19.78	19.84	19.66	19.08	18.43	17.67	16.74	15.98	13.93
45.0	14.22	13.99	13.75	13.46	13.23	13.05	12.87	12.70	12.58
90.0	15.27	16.27	17.09	17.67	17.91	17.79	17.09	15.57	13.28
135.0	14.63	14.92	15.63	16.68	17.32	17.44	17.09	16.39	15.51
180.0	16.21	16.15	15.92	15.33	14.63	13.99	13.28	12.64	12.06
225.0	13.34	13.11	12.82	12.64	12.29	12.11	11.94	11.70	11.41
270.0	13.75	13.52	13.75	13.93	13.87	13.75	13.58	13.23	12.82
315.0	14.98	15.22	15.57	15.92	15.86	15.57	15.04	14.28	13.52
360.0	19.78	19.84	19.66	19.08	18.43	17.67	16.74	15.98	13.93

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.88	11.24	11.06	10.77	10.59	10.24	9.89	9.71	9.54
45.0	12.47	12.41	12.41	12.35	12.29	12.29	10.12	9.89	9.71
90.0	11.88	11.65	11.53	11.47	10.59	10.12	9.95	9.77	9.66
135.0	13.99	12.17	11.35	10.89	10.65	10.24	10.01	9.89	9.71
180.0	11.59	11.24	10.89	10.65	10.42	10.07	9.95	9.77	9.71
225.0	11.29	11.12	11.00	10.83	10.12	9.89	9.77	9.89	9.60
270.0	11.76	11.18	10.94	10.89	10.89	10.24	9.89	9.77	9.60
315.0	12.17	11.47	10.83	10.59	10.42	10.01	9.83	9.66	9.60
360.0	11.88	11.24	11.06	10.77	10.59	10.24	9.89	9.71	9.54

Intensity data(cd)

C/γ(°)	90.0
0.0	9.48
45.0	9.54
90.0	9.54
135.0	9.60
180.0	9.54
225.0	9.60
270.0	9.83
315.0	9.60
360.0	9.48