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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:
LumCAT: 2-2685-L
Luminaire: 92.70.411.00
Report No: 2024418-B016
Ballast type: AC

Test No: 2024418-C016	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): 2342.28, Efficiency(%): 85.92% , Luminous Efficacy(lm/W): 120.78
Central intensity(cd): 3943.743, Maximum intensity(cd): 3943.743
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=45.4
[C90/270]Total=45.4
Field angle(10%Imax): [C0/180]Total=70.2
[C90/270]Total=70.2
Maximum s/h(1/2): C0_180=0.73 C90_270=0.73
Maximum s/h(1/4): C0_180=0.72 C90_270=0.72
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.92%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.883%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3943.743	0.000	0	0.00%	0.00%
1.0	3940.305	3.772	3.772	0.14%	0.16%
2.0	3929.479	11.295	15.068	0.41%	0.64%
3.0	3911.337	18.753	33.82	0.69%	1.44%
4.0	3885.221	26.098	59.918	0.96%	2.56%
5.0	3848.425	33.270	93.188	1.22%	3.98%
6.0	3811.190	40.253	133.441	1.48%	5.70%
7.0	3762.836	47.012	180.453	1.72%	7.70%
8.0	3704.825	53.445	233.898	1.96%	9.99%
9.0	3631.599	59.458	293.355	2.18%	12.52%
10.0	3556.178	65.047	358.402	2.39%	15.30%
11.0	3474.320	70.249	428.651	2.58%	18.30%
12.0	3385.000	74.982	503.633	2.75%	21.50%
13.0	3271.539	78.996	582.63	2.90%	24.87%
14.0	3167.589	82.420	665.05	3.02%	28.39%
15.0	3055.152	85.429	750.479	3.13%	32.04%
16.0	2939.717	87.842	838.32	3.22%	35.79%
17.0	2801.457	89.406	927.726	3.28%	39.61%
18.0	2662.540	90.089	1017.815	3.30%	43.45%
19.0	2520.549	90.175	1107.99	3.31%	47.30%
20.0	2379.071	89.677	1197.667	3.29%	51.13%
21.0	2225.011	88.408	1286.075	3.24%	54.91%
22.0	2071.097	86.332	1372.407	3.17%	58.59%
23.0	1934.593	84.050	1456.457	3.08%	62.18%
24.0	1807.160	81.808	1538.265	3.00%	65.67%
25.0	1670.876	79.083	1617.348	2.90%	69.05%
26.0	1510.590	75.099	1692.447	2.75%	72.26%
27.0	1363.691	70.320	1762.767	2.58%	75.26%
28.0	1236.280	65.826	1828.593	2.41%	78.07%
29.0	1134.583	62.028	1890.621	2.28%	80.72%
30.0	999.242	57.613	1948.234	2.11%	83.18%
31.0	872.497	52.088	2000.322	1.91%	85.40%
32.0	748.188	46.431	2046.753	1.70%	87.38%
33.0	624.267	40.433	2087.186	1.48%	89.11%
34.0	503.162	34.119	2121.305	1.25%	90.57%
35.0	402.335	28.121	2149.426	1.03%	91.77%
36.0	314.507	22.824	2172.251	0.84%	92.74%
37.0	258.092	18.675	2190.926	0.69%	93.54%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	179.993	14.623	2205.548	0.54%	94.16%
39.0	130.966	10.614	2216.162	0.39%	94.62%
40.0	89.898	7.703	2223.865	0.28%	94.94%
41.0	76.496	5.925	2229.79	0.22%	95.20%
42.0	67.191	5.220	2235.011	0.19%	95.42%
43.0	60.417	4.727	2239.738	0.17%	95.62%
44.0	55.114	4.360	2244.098	0.16%	95.81%
45.0	50.900	4.074	2248.172	0.15%	95.98%
46.0	47.235	3.838	2252.01	0.14%	96.15%
47.0	44.294	3.640	2255.651	0.13%	96.30%
48.0	41.946	3.486	2259.137	0.13%	96.45%
49.0	39.678	3.352	2262.489	0.12%	96.59%
50.0	37.601	3.222	2265.711	0.12%	96.73%
51.0	35.655	3.099	2268.81	0.11%	96.86%
52.0	34.002	2.989	2271.799	0.11%	96.99%
53.0	32.487	2.892	2274.691	0.11%	97.11%
54.0	31.090	2.802	2277.494	0.10%	97.23%
55.0	29.751	2.716	2280.21	0.10%	97.35%
56.0	28.632	2.638	2282.848	0.10%	97.46%
57.0	27.608	2.571	2285.419	0.09%	97.57%
58.0	26.511	2.503	2287.922	0.09%	97.68%
59.0	25.318	2.423	2290.345	0.09%	97.78%
60.0	24.265	2.342	2292.687	0.09%	97.88%
61.0	23.175	2.264	2294.951	0.08%	97.98%
62.0	22.056	2.179	2297.131	0.08%	98.07%
63.0	20.929	2.091	2299.221	0.08%	98.16%
64.0	20.000	2.008	2301.23	0.07%	98.25%
65.0	19.130	1.936	2303.166	0.07%	98.33%
66.0	18.420	1.873	2305.04	0.07%	98.41%
67.0	17.681	1.815	2306.855	0.07%	98.49%
68.0	17.089	1.761	2308.616	0.06%	98.56%
69.0	16.664	1.722	2310.338	0.06%	98.64%
70.0	16.467	1.702	2312.04	0.06%	98.71%
71.0	16.401	1.699	2313.738	0.06%	98.78%
72.0	16.430	1.707	2315.446	0.06%	98.85%
73.0	16.511	1.723	2317.168	0.06%	98.93%
74.0	16.533	1.737	2318.905	0.06%	99.00%
75.0	16.518	1.746	2320.652	0.06%	99.08%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.408	1.748	2322.399	0.06%	99.15%
77.0	16.247	1.741	2324.141	0.06%	99.23%
78.0	16.028	1.728	2325.868	0.06%	99.30%
79.0	15.728	1.706	2327.574	0.06%	99.37%
80.0	15.304	1.673	2329.247	0.06%	99.44%
81.0	14.726	1.624	2330.871	0.06%	99.51%
82.0	14.060	1.561	2332.432	0.06%	99.58%
83.0	13.182	1.481	2333.913	0.05%	99.64%
84.0	12.231	1.384	2335.298	0.05%	99.70%
85.0	11.419	1.291	2336.589	0.05%	99.76%
86.0	10.805	1.215	2337.803	0.04%	99.81%
87.0	10.454	1.163	2338.967	0.04%	99.86%
88.0	10.154	1.129	2340.096	0.04%	99.91%
89.0	9.949	1.102	2341.197	0.04%	99.95%
90.0	9.861	1.086	2342.284	0.04%	100.00%

Zonal flux distribution table

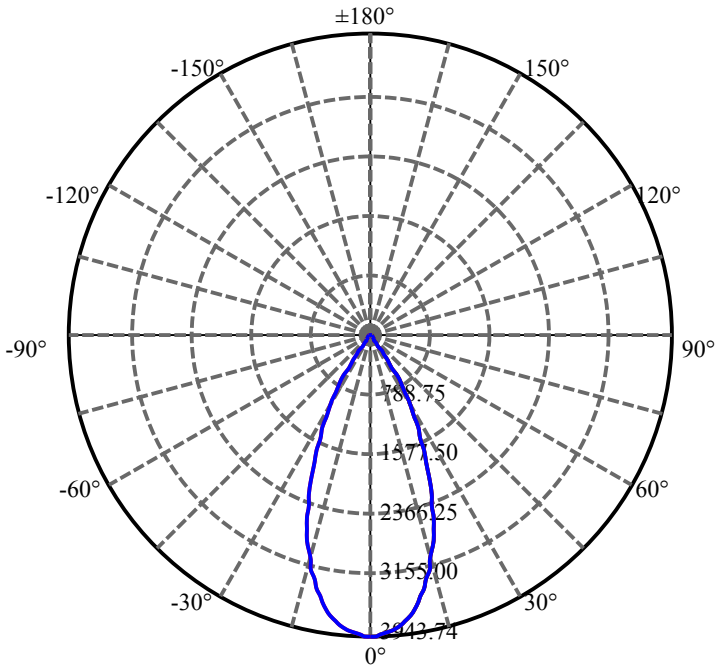
ZONAL LUMEN SUMMARY

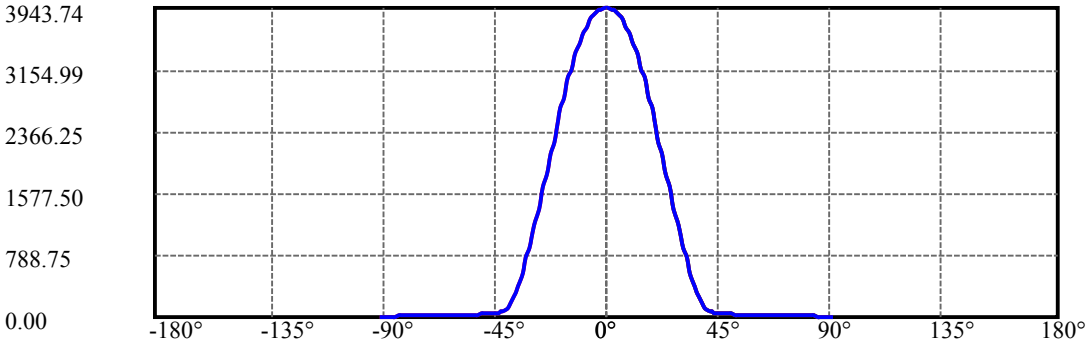
Zone	Lumens	%Lamp	%Fixt
0-30	1948.23	71.47%	83.18%
0-40	2223.87	81.58%	94.94%
0-60	2292.69	84.10%	97.88%
0-90	2341.20	85.88%	99.95%
0-120	2341.20	85.88%	99.95%
0-180	2342.28	85.92%	100.00%
60-90	48.51	1.78%	2.07%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.73	1873.83	68.74%	80.00%

ZONAL LUMEN SUMMARY

0-10	358.40
10-20	839.26
20-30	750.57
30-40	275.63
40-50	41.85
50-60	26.98
60-70	19.35
70-80	17.21
80-90	11.95
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):

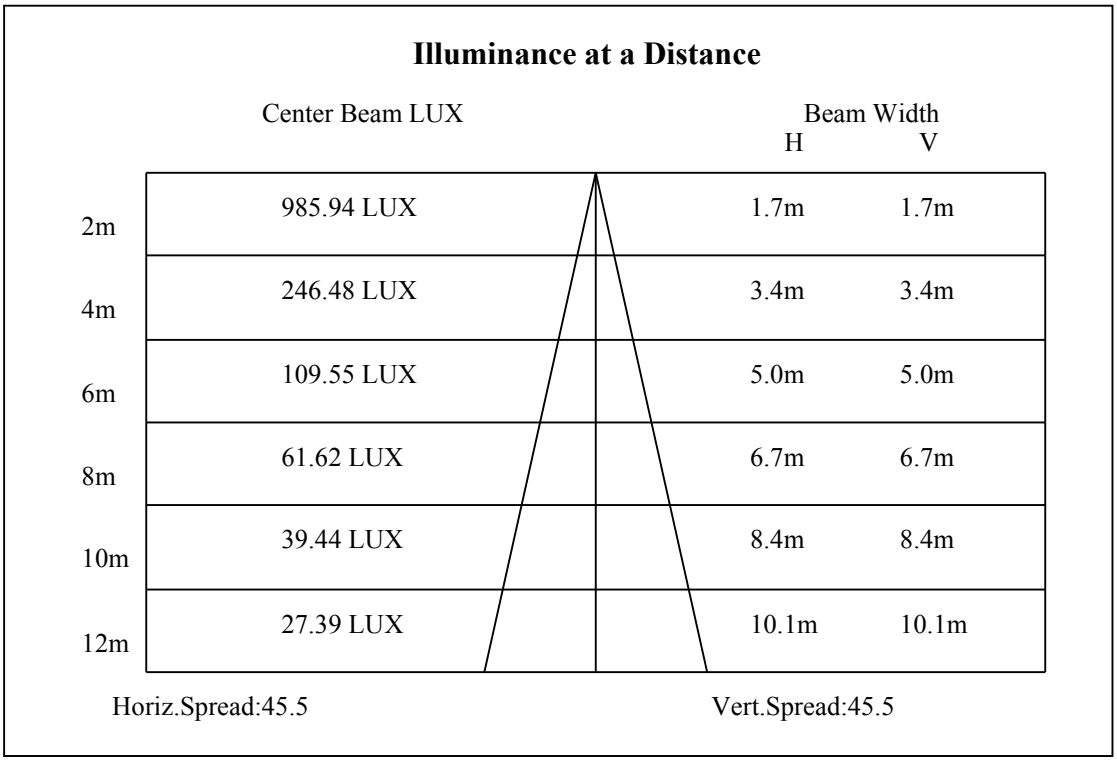
C0/C180:

C90/C270:

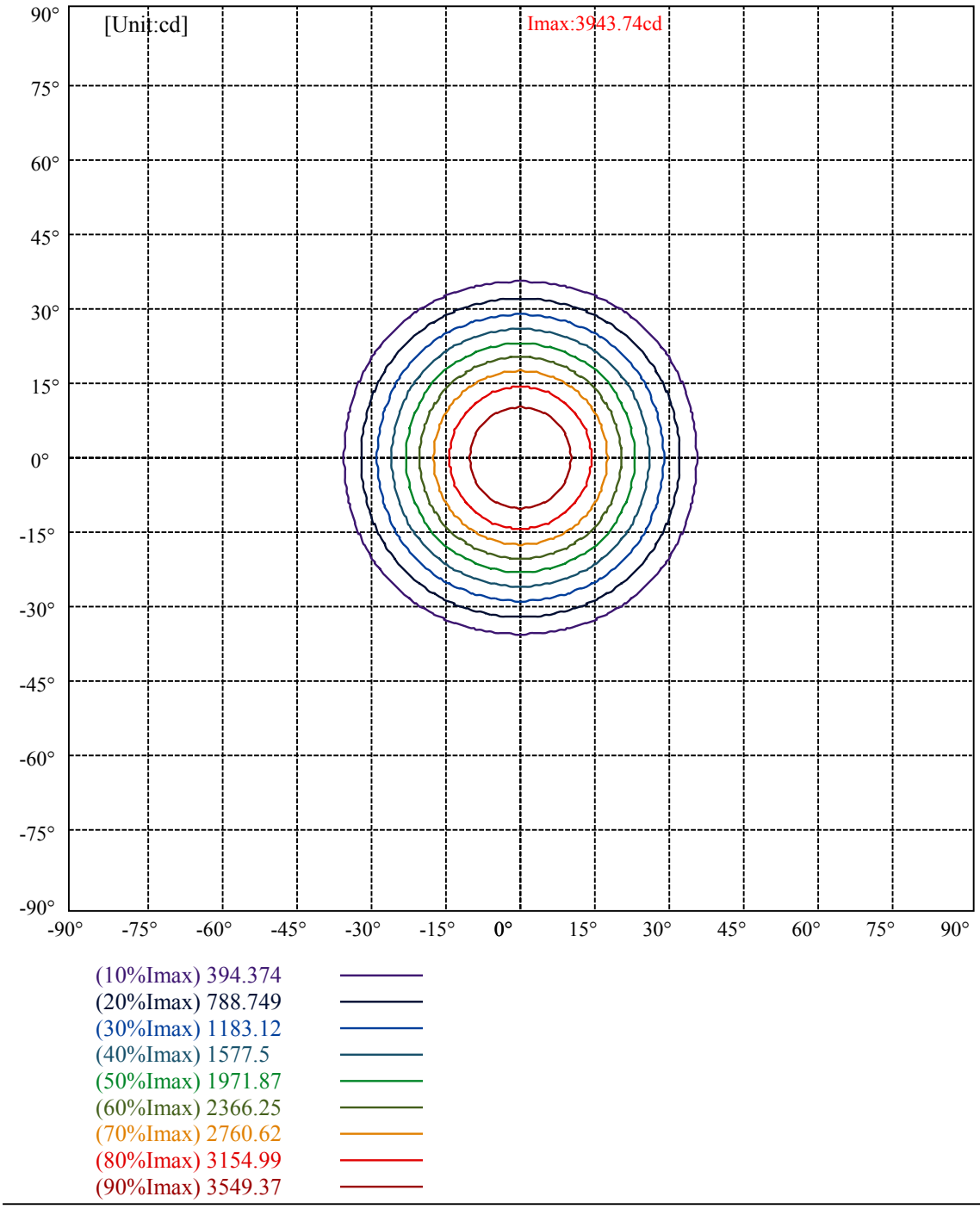
Field angle(10%Imax):C0/180Left:35.1 Right:35.1
:C90/270Left:35.1 Right:35.1

Beam Angle(50%Imax):C0/180Left:22.7 Right:22.7
:C90/270Left:22.7 Right:22.7

Lux distance Curve



ISO-Intensity(V-H)

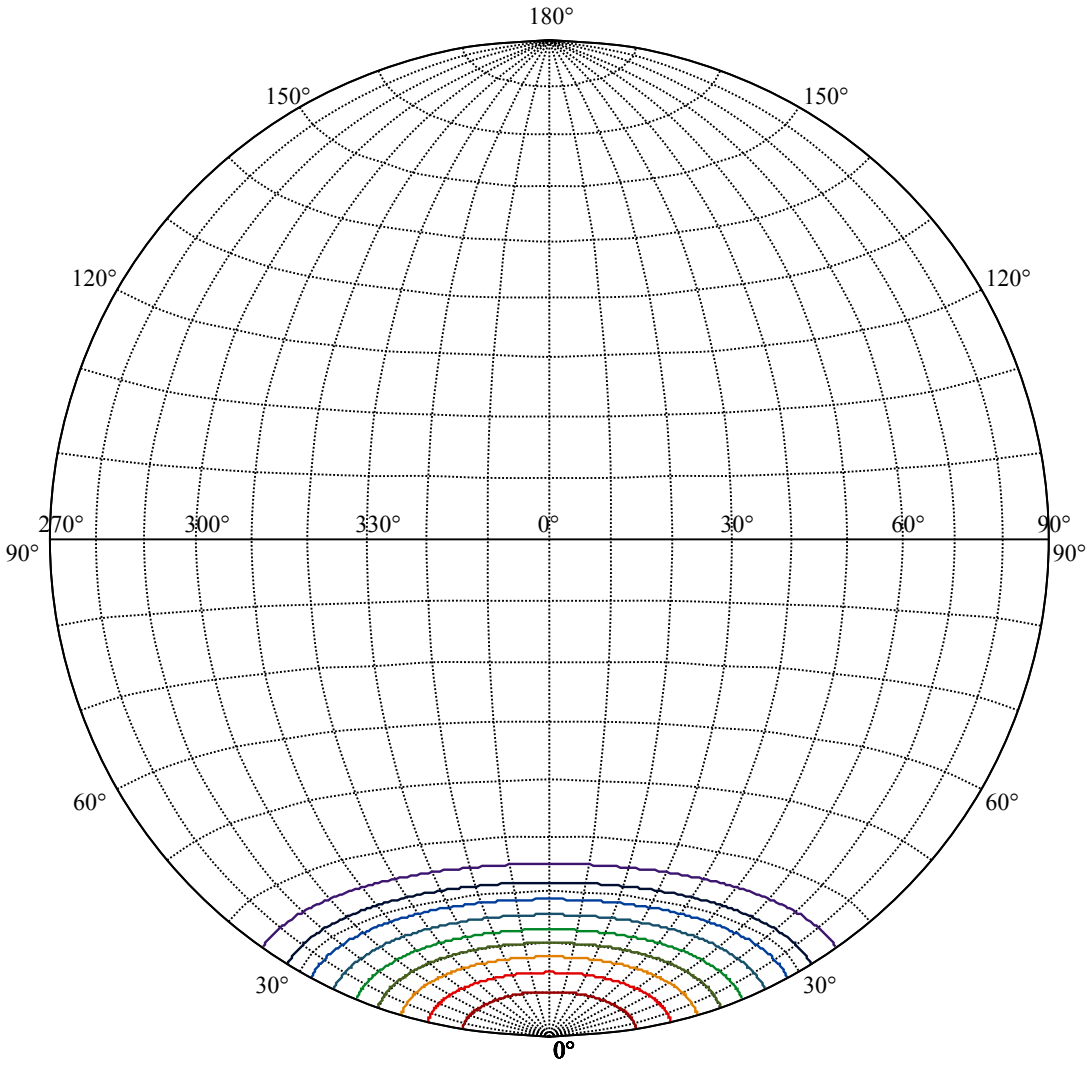


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:3943.74

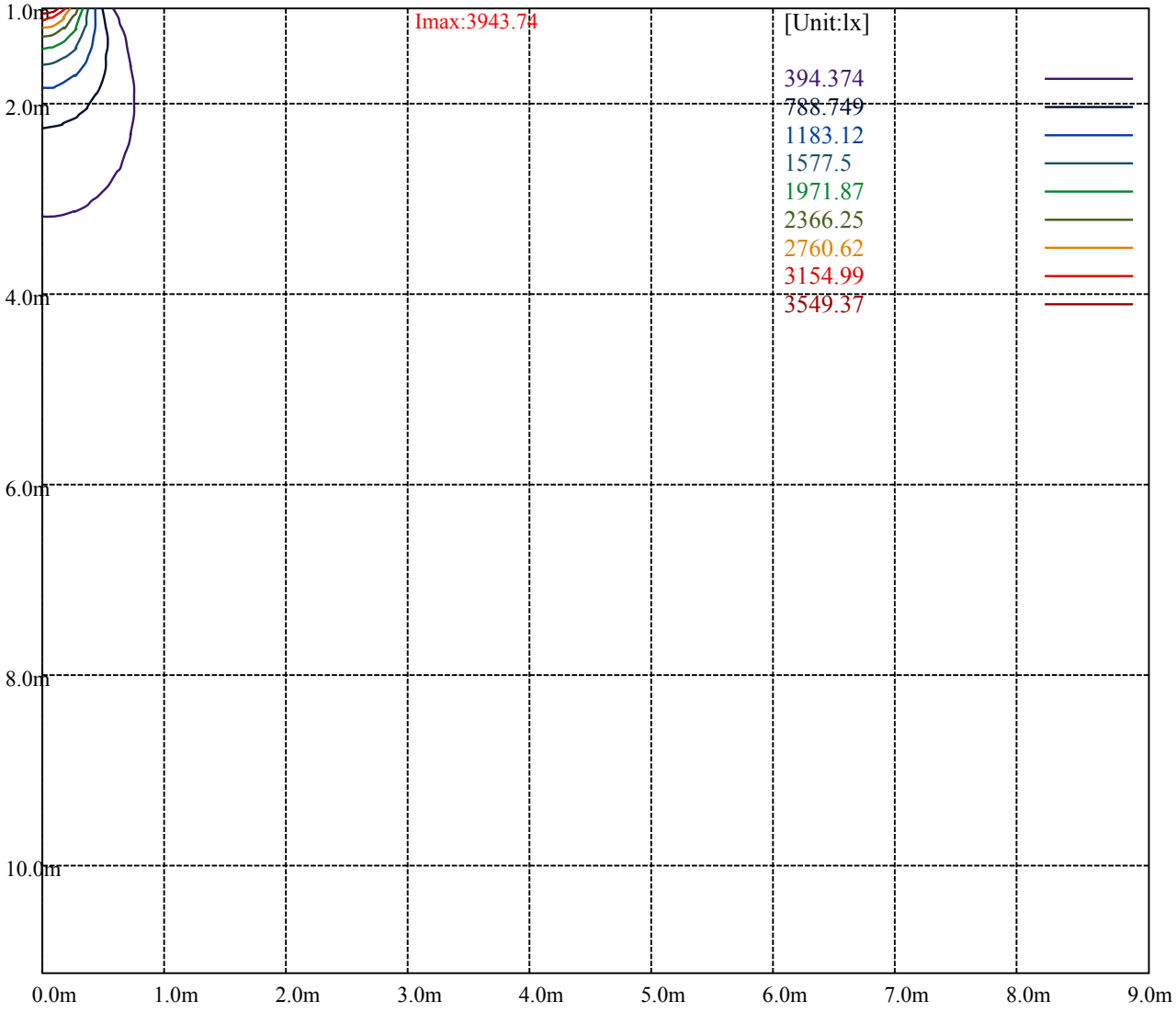
(10%Imax) 394.374
(20%Imax) 788.749
(30%Imax) 1183.12
(40%Imax) 1577.5
(50%Imax) 1971.87
(60%Imax) 2366.25
(70%Imax) 2760.62
(80%Imax) 3154.99
(90%Imax) 3549.37

Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
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

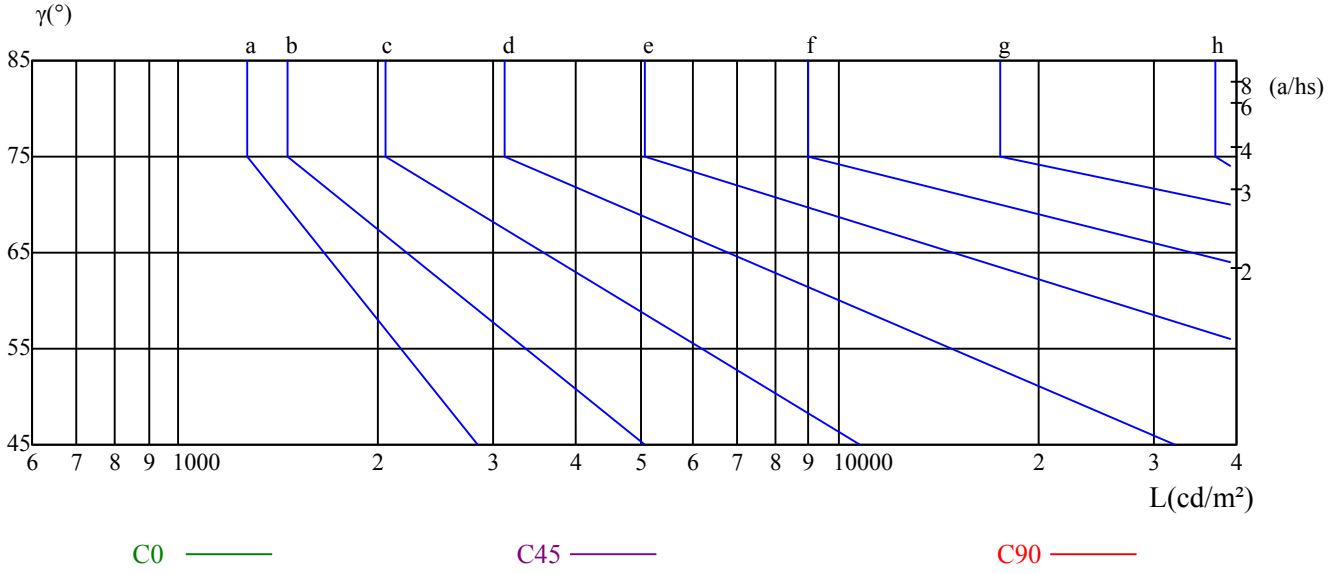
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

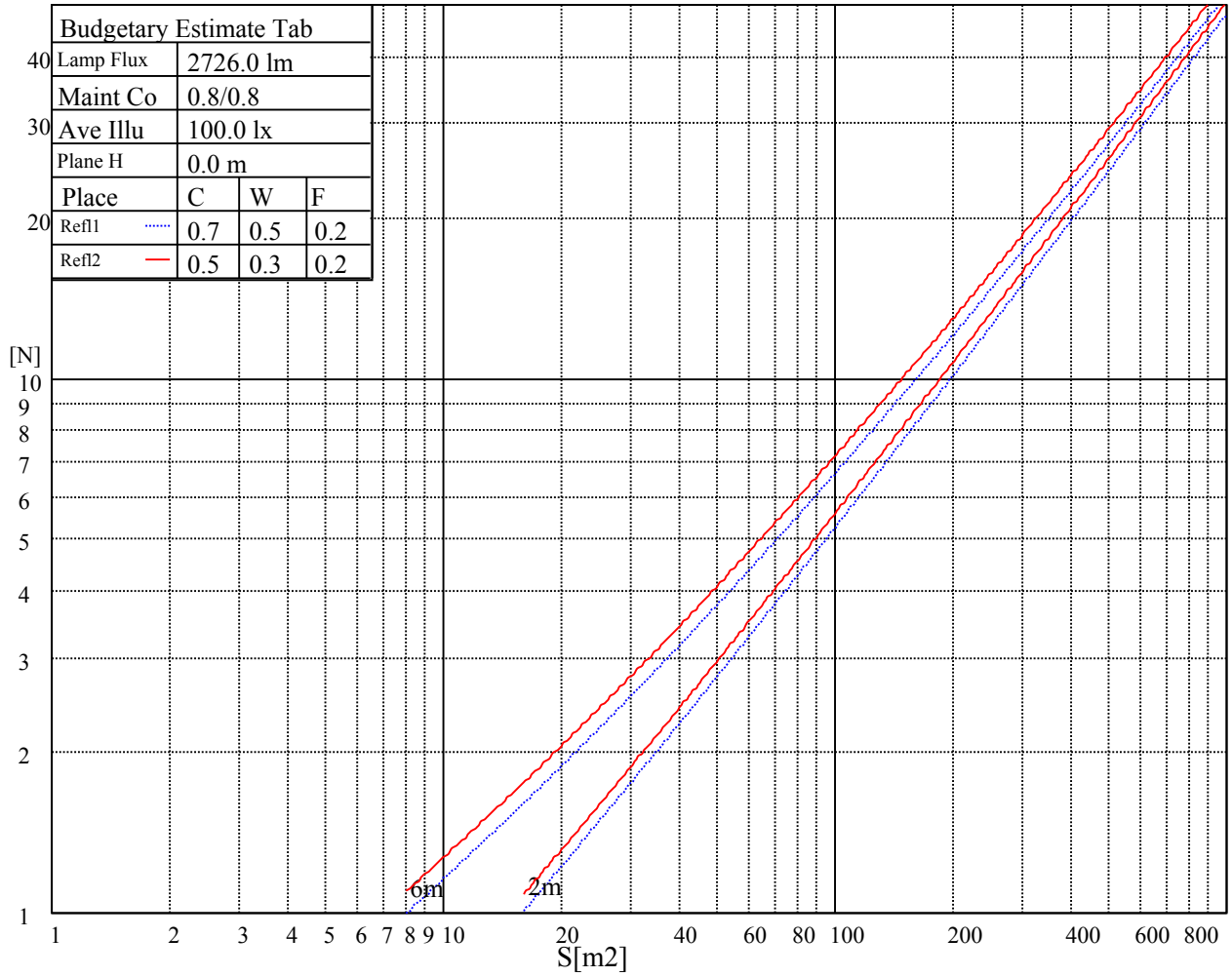
Luminance Limitting Curve



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

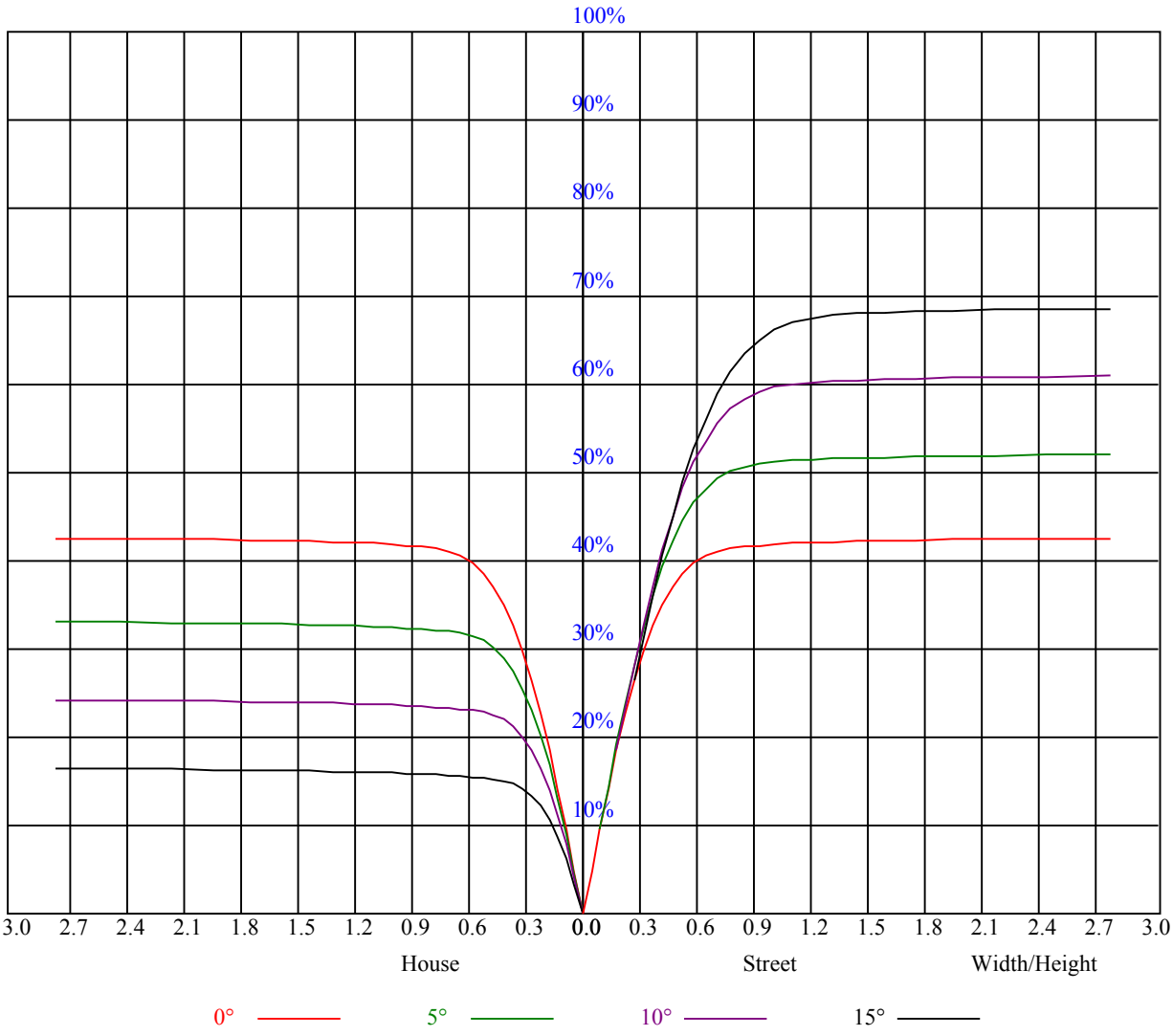


Equipment: GMS1980 Date: 2024/4/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Utilization factor table for indoor luminaire

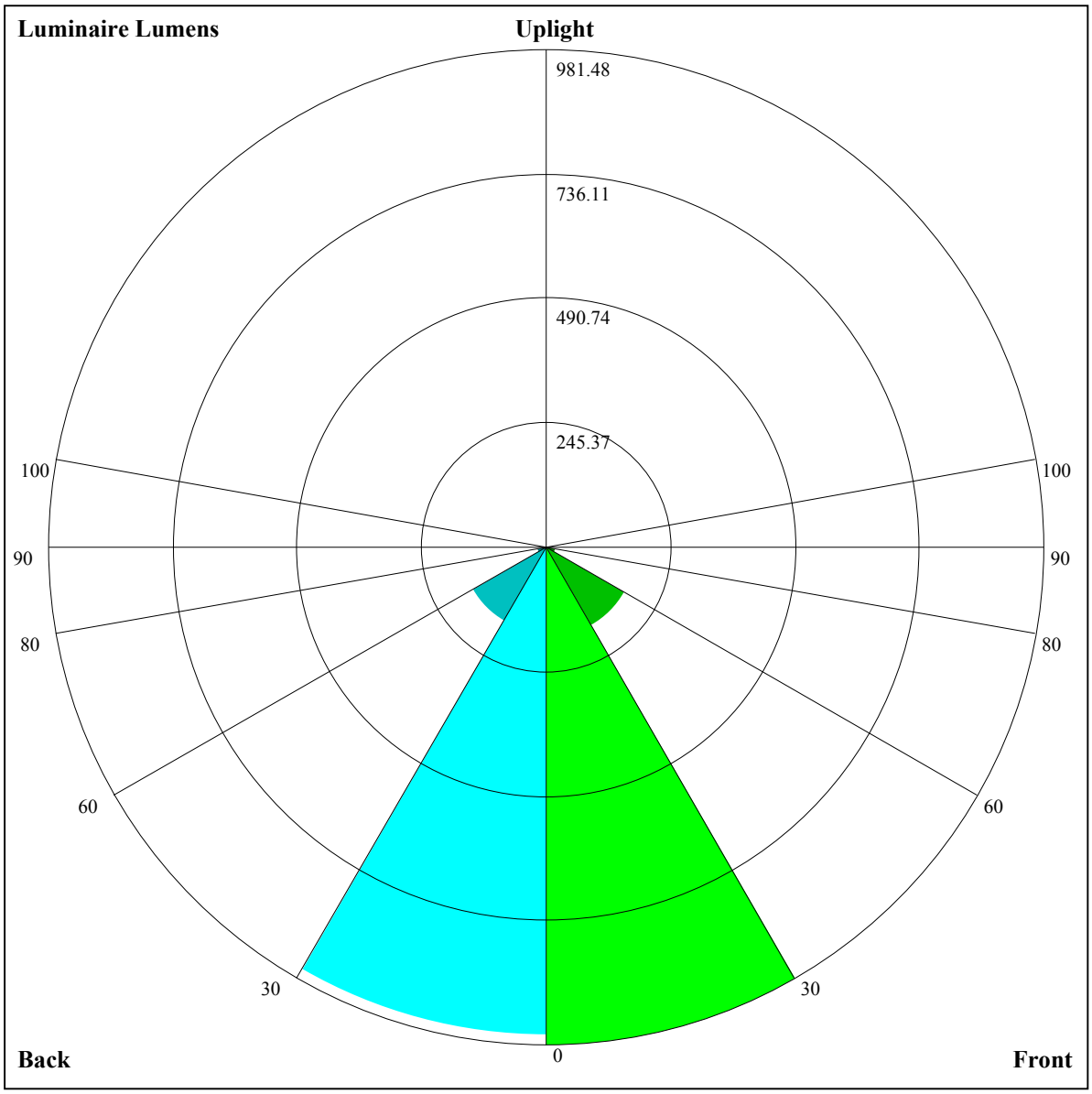
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.02	1.02	1.02	1.00	1.00	1.00	0.95	0.95	0.95	0.91	0.91	0.91	0.88	0.88	0.88	0.86
1	0.95	0.93	0.91	0.93	0.92	0.90	0.90	0.89	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81
2	0.89	0.86	0.83	0.88	0.85	0.82	0.85	0.83	0.80	0.83	0.81	0.79	0.80	0.79	0.77	0.76
3	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.77	0.75	0.78	0.76	0.74	0.77	0.74	0.73	0.71
4	0.79	0.75	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.69	0.67
5	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.64
6	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.61	0.60
7	0.67	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.57
8	0.64	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.54
9	0.61	0.57	0.54	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.56	0.53	0.59	0.55	0.53	0.52
10	0.58	0.54	0.51	0.58	0.54	0.51	0.57	0.53	0.51	0.57	0.53	0.51	0.56	0.53	0.50	0.49

Coefficient Utilization Curve



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

LCS Graph



Luminaire Lumens:
FL=981.48,FM=178.63,FH=18.26,FVH=6.59
BL=963.3,BM=168.24,BH=18.3,BVH=6.47
UL=0,UH=0

BUG Rating:B2-U0-G0

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

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	3947.99	3956.18	3947.40	3932.19	3909.95	3872.49	3833.87	3795.83	3734.96
45.0	3939.79	3950.33	3956.76	3953.84	3931.60	3910.53	3879.52	3839.13	3795.24
90.0	3951.50	3955.01	3933.94	3916.97	3897.07	3850.25	3813.38	3765.40	3710.39
135.0	3935.70	3933.36	3930.43	3912.29	3894.73	3859.62	3832.11	3789.98	3727.36
180.0	3947.99	3939.21	3920.48	3899.41	3871.91	3840.30	3797.00	3752.52	3696.92
225.0	3939.79	3917.55	3893.56	3868.98	3827.43	3784.12	3742.57	3673.52	3606.21
270.0	3951.50	3942.72	3935.11	3908.78	3885.37	3849.67	3811.04	3763.64	3696.92
315.0	3935.70	3928.09	3918.14	3898.24	3863.71	3820.41	3780.03	3722.67	3670.59
360.0	3947.99	3956.18	3947.40	3932.19	3909.95	3872.49	3833.87	3795.83	3734.96

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3655.96	3580.47	3501.46	3411.34	3300.14	3199.48	3094.14	2954.86	2836.06
45.0	3738.48	3676.44	3591.00	3509.07	3402.56	3309.51	3212.94	3105.85	2967.15
90.0	3630.79	3551.20	3473.95	3364.52	3271.47	3146.23	3035.04	2928.52	2804.46
135.0	3678.78	3612.65	3530.14	3452.30	3342.86	3249.23	3120.48	3015.14	2898.09
180.0	3617.92	3540.67	3462.83	3380.90	3259.76	3156.76	3026.26	2912.72	2783.39
225.0	3511.99	3426.55	3339.94	3241.62	3109.94	3004.02	2889.90	2767.59	2598.46
270.0	3632.55	3559.40	3479.81	3394.95	3279.07	3171.98	3065.47	2949.01	2803.29
315.0	3586.32	3502.04	3415.43	3325.31	3206.51	3103.51	2997.00	2884.05	2720.77
360.0	3655.96	3580.47	3501.46	3411.34	3300.14	3199.48	3094.14	2954.86	2836.06

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2706.14	2537.59	2400.65	2263.71	2086.39	1950.03	1822.45	1703.65	1552.08
45.0	2857.13	2731.89	2596.12	2434.01	2295.31	2149.00	2010.89	1848.78	1722.96
90.0	2648.20	2511.84	2376.07	2239.71	2065.32	1938.32	1811.33	1689.02	1538.03
135.0	2740.08	2615.43	2480.83	2308.19	2171.24	2034.89	1907.31	1751.05	1628.15
180.0	2618.94	2480.24	2346.81	2171.83	2036.06	1903.21	1773.88	1631.67	1509.94
225.0	2463.27	2325.74	2182.36	2010.31	1885.65	1730.57	1609.43	1492.97	1152.89
270.0	2672.20	2540.52	2364.95	2226.84	2054.78	1919.60	1791.43	1641.03	1519.30
315.0	2594.36	2421.13	2284.78	2145.49	1974.02	1851.13	1730.57	1608.84	1461.37
360.0	2706.14	2537.59	2400.65	2263.71	2086.39	1950.03	1822.45	1703.65	1552.08

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1429.76	1143.71	1143.71	1023.85	900.78	784.61	642.28	534.84	409.31
45.0	1567.29	1441.47	1314.47	1158.22	1034.15	914.18	797.13	656.68	549.00
90.0	1320.33	1159.86	1128.66	1004.30	855.36	736.39	622.39	488.08	386.19
135.0	1499.99	1372.41	1214.40	1090.33	967.44	819.96	705.84	568.31	464.14
180.0	1390.55	1260.05	1107.30	980.31	855.07	707.01	591.14	464.14	369.34
225.0	1152.89	1087.52	963.34	808.43	687.99	578.14	474.79	359.33	276.99
270.0	1401.09	1277.60	1120.76	997.87	867.95	750.90	606.94	501.01	403.86
315.0	1147.63	1147.63	1084.01	930.62	811.24	694.31	553.62	452.91	359.85
360.0	1429.76	1143.71	1143.71	1023.85	900.78	784.61	642.28	534.84	409.31

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	317.78	239.36	160.18	114.41	89.89	78.24	67.83	61.51	55.54
45.0	448.34	354.12	310.23	310.23	121.67	87.49	76.72	68.12	60.10
90.0	296.47	221.39	146.95	106.22	86.44	75.73	65.55	59.52	54.66
135.0	367.58	301.45	301.45	131.38	97.62	82.22	70.75	63.97	58.00
180.0	306.13	306.13	139.63	102.94	85.09	75.44	65.95	59.81	55.19
225.0	207.58	138.23	101.24	83.69	72.86	65.90	59.87	53.90	50.21
270.0	315.49	315.49	156.31	105.22	85.21	75.03	65.78	59.69	55.01
315.0	256.68	188.56	123.95	93.64	80.41	71.92	65.08	56.83	52.20
360.0	317.78	239.36	160.18	114.41	89.89	78.24	67.83	61.51	55.54

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	51.44	47.17	44.30	42.02	39.44	37.51	35.41	33.88	32.42
45.0	55.07	50.21	46.94	44.07	41.67	39.15	37.28	35.46	33.88
90.0	49.63	46.35	43.07	40.97	39.03	37.16	35.11	33.59	32.19
135.0	52.55	48.92	46.00	42.96	40.85	38.80	36.64	34.94	33.42
180.0	51.27	47.29	44.65	42.49	39.91	37.98	35.76	34.12	32.66
225.0	47.29	44.71	41.96	39.91	37.98	35.82	34.18	32.71	31.37
270.0	51.03	47.17	44.48	42.25	40.09	37.75	35.93	34.29	32.30
315.0	48.92	46.06	42.96	40.91	38.45	36.64	34.94	33.01	31.66
360.0	51.44	47.17	44.30	42.02	39.44	37.51	35.41	33.88	32.42

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	31.13	29.73	28.62	27.62	26.57	25.34	24.29	23.23	22.18
45.0	32.19	30.96	29.79	28.73	27.56	26.57	25.22	24.23	23.23
90.0	30.96	29.61	28.56	27.56	26.57	25.34	24.40	23.06	22.06
135.0	31.78	30.61	29.50	28.56	27.27	26.28	25.28	24.29	22.88
180.0	31.43	29.90	28.85	27.74	26.69	25.34	24.35	23.23	21.89
225.0	29.90	28.73	27.45	26.34	25.28	23.99	22.88	21.83	20.83
270.0	31.02	29.55	28.44	27.45	26.39	25.16	24.17	23.06	21.95
315.0	30.31	28.91	27.86	26.86	25.75	24.52	23.53	22.47	21.42
360.0	31.13	29.73	28.62	27.62	26.57	25.34	24.29	23.23	22.18

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.01	20.13	19.14	18.43	17.79	17.03	16.56	16.33	16.21
45.0	21.95	21.01	20.19	19.37	18.43	17.91	17.32	16.80	16.44
90.0	21.13	20.07	19.25	18.61	17.97	17.15	16.68	16.50	16.50
135.0	21.83	20.66	19.78	18.96	18.14	17.67	17.03	16.74	16.68
180.0	20.95	20.07	18.96	18.32	17.67	17.09	16.74	16.68	16.68
225.0	19.66	18.84	18.14	17.62	16.80	16.50	16.33	16.33	16.39
270.0	20.66	19.78	18.90	18.20	17.44	16.80	16.33	16.15	16.15
315.0	20.25	19.43	18.67	17.85	17.21	16.56	16.33	16.21	16.15
360.0	21.01	20.13	19.14	18.43	17.79	17.03	16.56	16.33	16.21

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.27	16.33	16.33	16.27	16.15	15.98	15.80	15.45	15.16
45.0	16.33	16.39	16.44	16.50	16.44	16.39	16.21	16.04	15.68
90.0	16.56	16.68	16.74	16.68	16.56	16.44	16.21	15.98	15.63
135.0	16.68	16.80	16.91	16.97	16.97	16.85	16.62	16.44	16.15
180.0	16.74	16.85	16.85	16.85	16.68	16.50	16.27	15.98	15.45
225.0	16.44	16.50	16.44	16.39	16.27	15.98	15.68	15.22	14.57
270.0	16.21	16.27	16.33	16.33	16.21	16.04	15.86	15.45	15.04
315.0	16.21	16.27	16.21	16.15	15.98	15.80	15.57	15.27	14.75
360.0	16.27	16.33	16.33	16.27	16.15	15.98	15.80	15.45	15.16

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.63	13.99	13.46	12.52	11.70	11.12	10.71	10.42	10.01
45.0	15.39	14.86	14.34	13.52	12.52	11.70	11.00	10.53	10.24
90.0	15.04	14.51	13.64	12.35	11.59	10.77	10.42	10.18	9.95
135.0	15.57	14.98	13.75	12.76	11.76	10.94	10.48	10.24	10.01
180.0	14.63	13.93	12.64	11.82	11.00	10.48	10.24	10.01	9.83
225.0	13.93	12.82	11.88	11.06	10.53	10.30	10.07	9.83	9.83
270.0	14.51	13.93	13.05	12.00	11.18	10.53	10.36	10.01	9.83
315.0	14.10	13.46	12.70	11.82	11.06	10.59	10.36	10.01	9.89
360.0	14.63	13.99	13.46	12.52	11.70	11.12	10.71	10.42	10.01

Intensity data(cd)

C/γ(°)	90.0
0.0	9.89
45.0	9.95
90.0	9.83
135.0	9.83
180.0	9.83
225.0	9.83
270.0	9.83
315.0	9.89
360.0	9.89