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

NT

Client:
LumCAT: 3-2834-L
Luminaire: 92.70.411.00
Report No: 2024417-B012
Ballast type: AC

Test No: 2024417-C012	Voltage(V): 33.790
LampCAT: NICHIA NFCWJ108B-V3	Current(A): 0.577
Lamp flux(lm): 2629.0	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): 2235.51, Efficiency(%): 85.03% , Luminous Efficacy(lm/W): 114.67
Central intensity(cd): 5190.565, Maximum intensity(cd): 5190.565
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=35.0
[C90/270]Total=35.0
Field angle(10%Imax): [C0/180]Total=65.0
[C90/270]Total=65.0
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.58 C90_270=0.58
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.03%
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%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5190.565	0.000	0	0.00%	0.00%
1.0	5182.738	4.963	4.963	0.19%	0.22%
2.0	5152.891	14.835	19.798	0.56%	0.89%
3.0	5116.681	24.561	44.36	0.93%	1.98%
4.0	5066.863	34.088	78.447	1.30%	3.51%
5.0	5001.026	43.312	121.759	1.65%	5.45%
6.0	4918.143	52.128	173.887	1.98%	7.78%
7.0	4813.607	60.405	234.291	2.30%	10.48%
8.0	4676.299	67.917	302.209	2.58%	13.52%
9.0	4514.411	74.486	376.694	2.83%	16.85%
10.0	4316.020	79.912	456.607	3.04%	20.43%
11.0	4122.164	84.315	540.921	3.21%	24.20%
12.0	3891.146	87.597	628.518	3.33%	28.12%
13.0	3658.300	89.593	718.111	3.41%	32.12%
14.0	3412.505	90.506	808.617	3.44%	36.17%
15.0	3174.904	90.435	899.052	3.44%	40.22%
16.0	2933.353	89.503	988.555	3.40%	44.22%
17.0	2709.943	87.881	1076.436	3.34%	48.15%
18.0	2481.266	85.592	1162.028	3.26%	51.98%
19.0	2268.098	82.629	1244.657	3.14%	55.68%
20.0	2066.781	79.340	1323.998	3.02%	59.23%
21.0	1881.118	75.808	1399.805	2.88%	62.62%
22.0	1709.062	72.146	1471.951	2.74%	65.84%
23.0	1544.540	68.269	1540.221	2.60%	68.90%
24.0	1368.154	63.682	1603.903	2.42%	71.75%
25.0	1244.993	59.417	1663.32	2.26%	74.40%
26.0	1163.347	56.849	1720.169	2.16%	76.95%
27.0	1057.311	54.329	1774.498	2.07%	79.38%
28.0	966.580	51.241	1825.739	1.95%	81.67%
29.0	876.718	48.226	1873.964	1.83%	83.83%
30.0	775.884	44.620	1918.584	1.70%	85.82%
31.0	673.001	40.320	1958.905	1.53%	87.63%
32.0	567.727	35.545	1994.45	1.35%	89.22%
33.0	460.938	30.305	2024.755	1.15%	90.57%
34.0	363.410	24.947	2049.702	0.95%	91.69%
35.0	284.419	20.119	2069.821	0.77%	92.59%
36.0	218.216	16.004	2085.825	0.61%	93.30%
37.0	156.255	12.213	2098.039	0.46%	93.85%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	105.801	8.747	2106.786	0.33%	94.24%
39.0	83.826	6.473	2113.258	0.25%	94.53%
40.0	75.553	5.559	2118.817	0.21%	94.78%
41.0	69.342	5.160	2123.976	0.20%	95.01%
42.0	63.833	4.838	2128.815	0.18%	95.23%
43.0	59.415	4.565	2133.38	0.17%	95.43%
44.0	55.552	4.339	2137.72	0.17%	95.63%
45.0	52.005	4.134	2141.853	0.16%	95.81%
46.0	48.961	3.949	2145.802	0.15%	95.99%
47.0	46.218	3.786	2149.587	0.14%	96.16%
48.0	43.819	3.640	2153.227	0.14%	96.32%
49.0	41.712	3.512	2156.739	0.13%	96.48%
50.0	39.715	3.395	2160.134	0.13%	96.63%
51.0	37.945	3.286	2163.42	0.12%	96.78%
52.0	36.291	3.186	2166.605	0.12%	96.92%
53.0	34.828	3.094	2169.699	0.12%	97.06%
54.0	33.314	3.003	2172.703	0.11%	97.19%
55.0	31.990	2.915	2175.618	0.11%	97.32%
56.0	30.519	2.825	2178.442	0.11%	97.45%
57.0	29.261	2.733	2181.175	0.10%	97.57%
58.0	27.944	2.645	2183.821	0.10%	97.69%
59.0	26.672	2.553	2186.374	0.10%	97.80%
60.0	25.421	2.461	2188.835	0.09%	97.91%
61.0	24.250	2.370	2191.206	0.09%	98.02%
62.0	23.160	2.285	2193.49	0.09%	98.12%
63.0	22.092	2.201	2195.691	0.08%	98.22%
64.0	21.090	2.119	2197.81	0.08%	98.31%
65.0	20.249	2.046	2199.856	0.08%	98.41%
66.0	19.349	1.976	2201.831	0.08%	98.49%
67.0	18.566	1.906	2203.738	0.07%	98.58%
68.0	17.908	1.848	2205.586	0.07%	98.66%
69.0	17.176	1.790	2207.375	0.07%	98.74%
70.0	16.569	1.733	2209.109	0.07%	98.82%
71.0	15.984	1.683	2210.791	0.06%	98.89%
72.0	15.377	1.631	2212.422	0.06%	98.97%
73.0	14.835	1.580	2214.002	0.06%	99.04%
74.0	14.367	1.535	2215.537	0.06%	99.11%
75.0	13.921	1.495	2217.032	0.06%	99.17%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.577	1.460	2218.491	0.06%	99.24%
77.0	13.219	1.429	2219.92	0.05%	99.30%
78.0	12.794	1.393	2221.312	0.05%	99.36%
79.0	12.443	1.356	2222.668	0.05%	99.43%
80.0	12.107	1.324	2223.992	0.05%	99.48%
81.0	11.726	1.289	2225.281	0.05%	99.54%
82.0	11.288	1.248	2226.529	0.05%	99.60%
83.0	10.995	1.211	2227.74	0.05%	99.65%
84.0	10.746	1.184	2228.925	0.05%	99.71%
85.0	10.505	1.160	2230.084	0.04%	99.76%
86.0	10.234	1.134	2231.218	0.04%	99.81%
87.0	9.971	1.106	2232.324	0.04%	99.86%
88.0	9.744	1.080	2233.404	0.04%	99.91%
89.0	9.576	1.059	2234.463	0.04%	99.95%
90.0	9.510	1.046	2235.509	0.04%	100.00%

Zonal flux distribution table

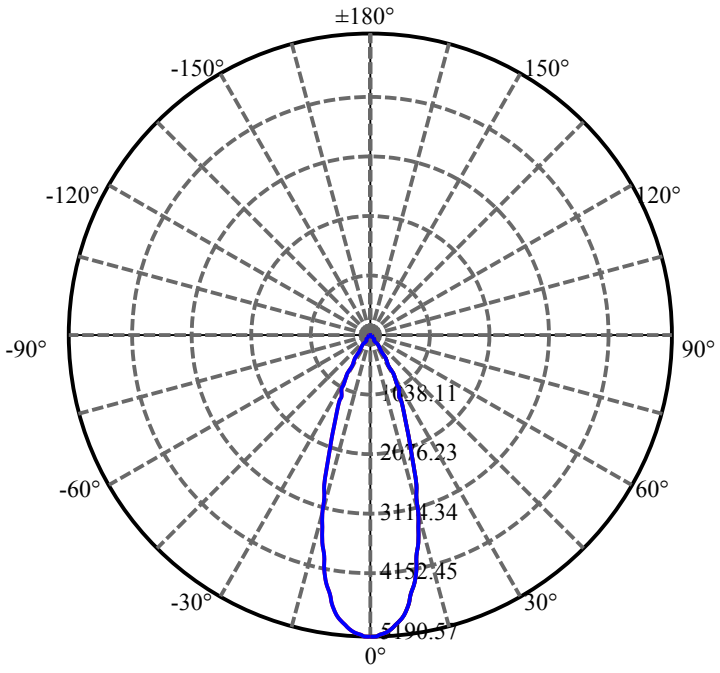
ZONAL LUMEN SUMMARY

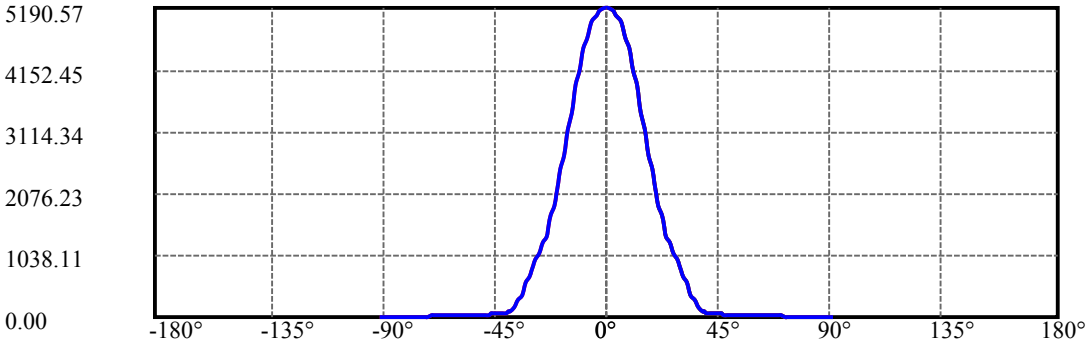
Zone	Lumens	%Lamp	%Fixt
0-30	1918.58	72.98%	85.82%
0-40	2118.82	80.59%	94.78%
0-60	2188.84	83.26%	97.91%
0-90	2234.46	84.99%	99.95%
0-120	2234.46	84.99%	99.95%
0-180	2235.51	85.03%	100.00%
60-90	45.63	1.74%	2.04%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.27	1788.41	68.03%	80.00%

ZONAL LUMEN SUMMARY

0-10	456.61
10-20	867.39
20-30	594.59
30-40	200.23
40-50	41.32
50-60	28.70
60-70	20.27
70-80	14.88
80-90	10.47
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):

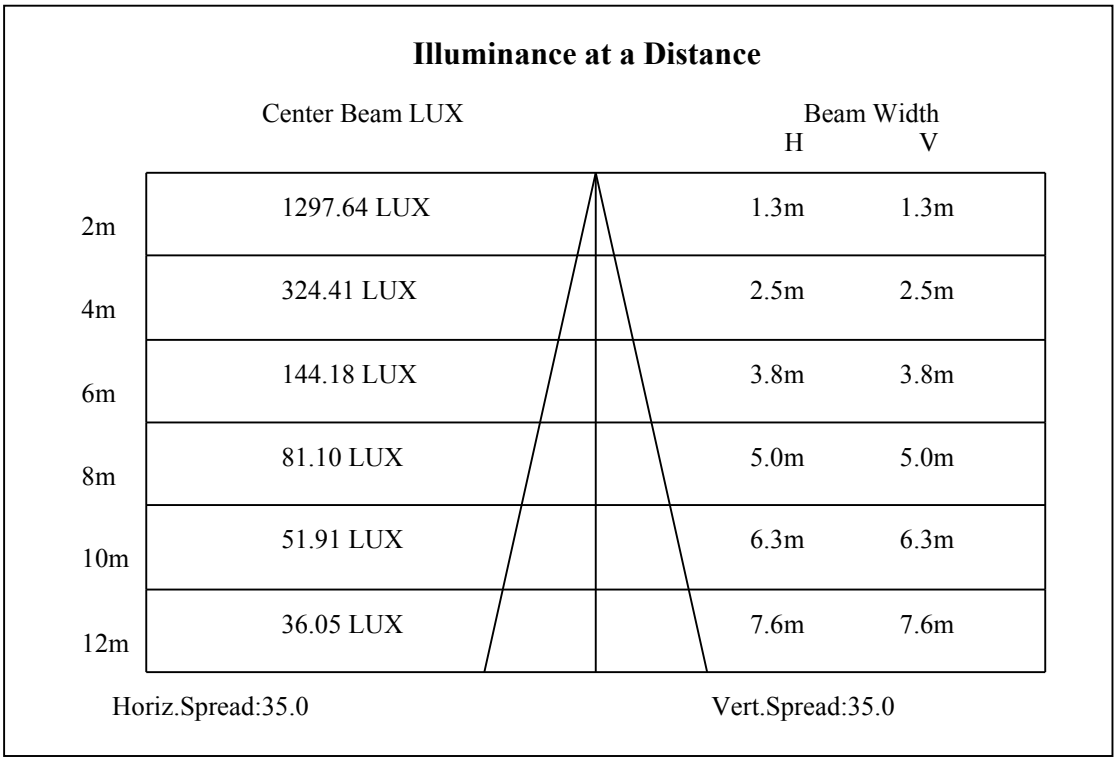
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:32.5 Right:32.5
:C90/270Left:32.5 Right:32.5

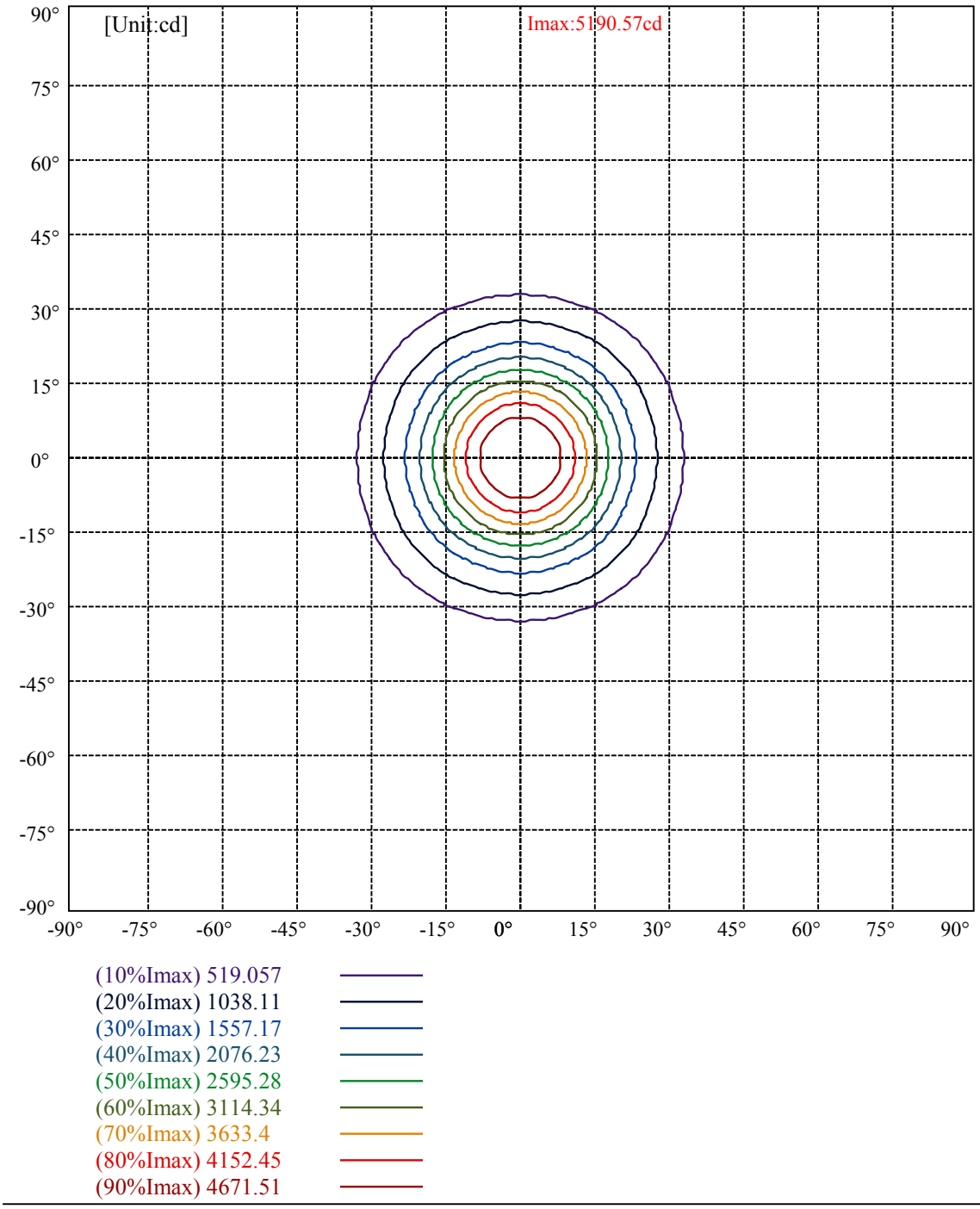
Beam Angle(50%Imax):C0/180Left:17.5 Right:17.5
:C90/270Left:17.5 Right:17.5

Lux distance Curve



Equipment: GMS1980 Date: 2024/4/17 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

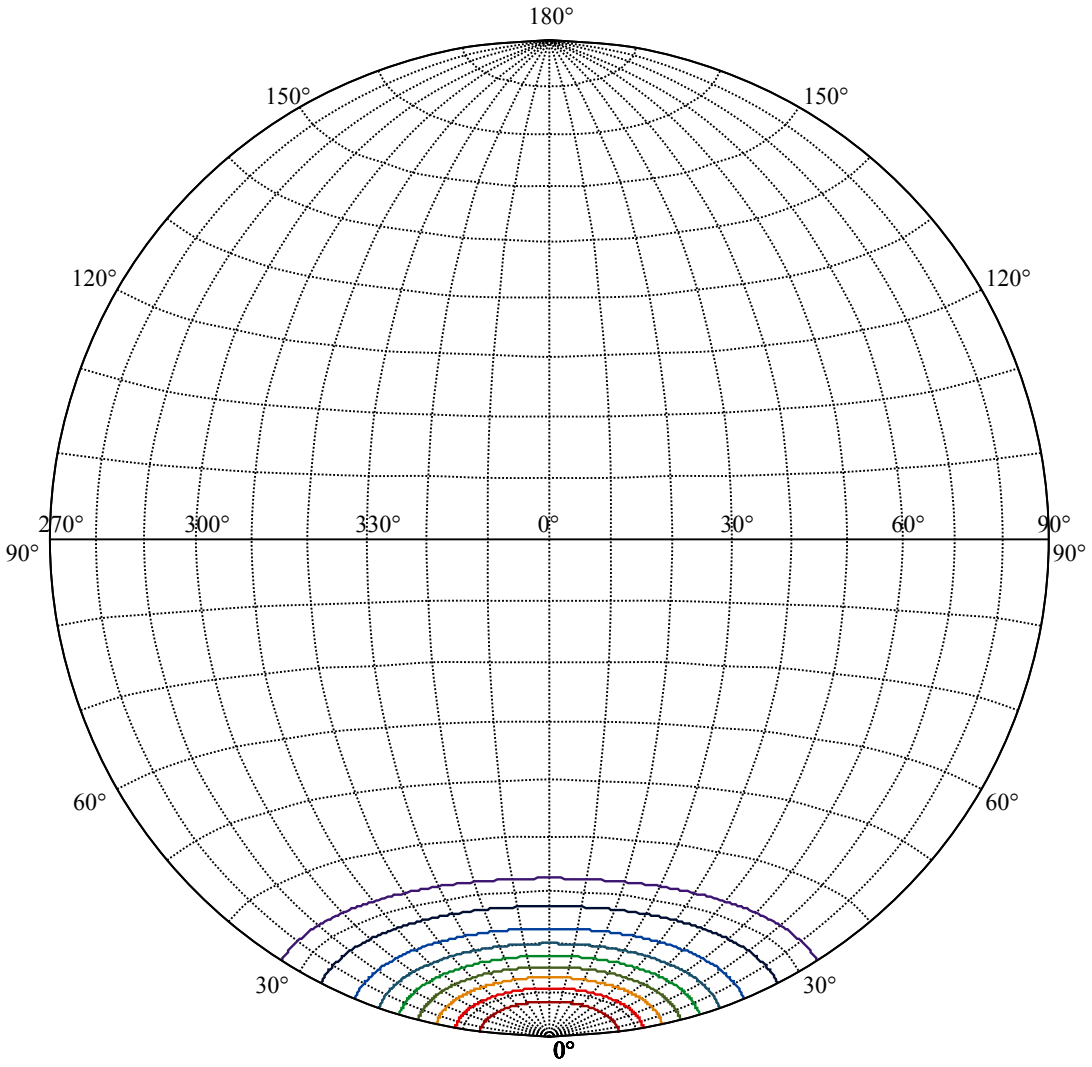


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/17
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



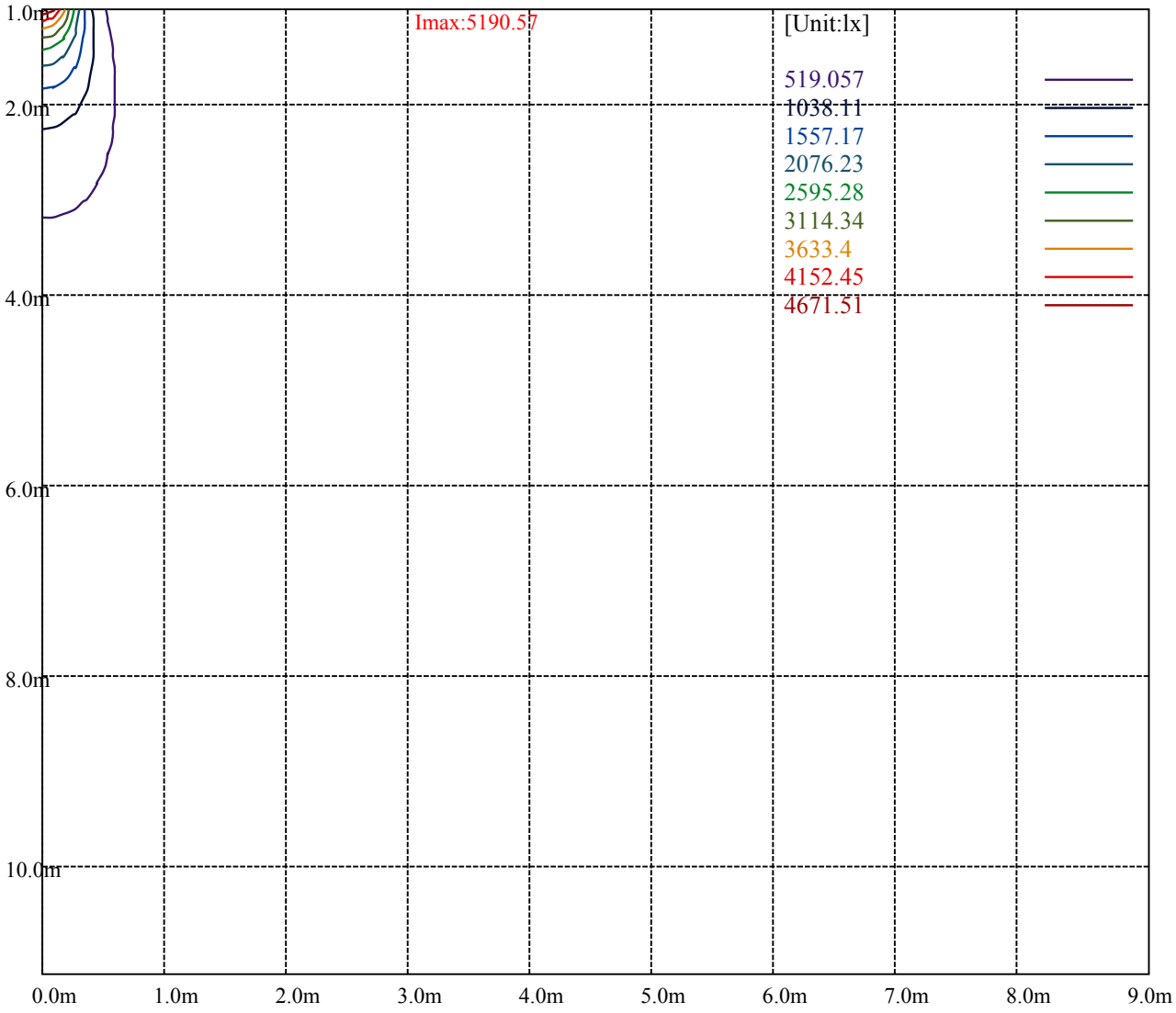
House [Unit:cd] Road

Imax:5190.57

(10%Imax) 519.057
(20%Imax) 1038.11
(30%Imax) 1557.17
(40%Imax) 2076.23
(50%Imax) 2595.28
(60%Imax) 3114.34
(70%Imax) 3633.4
(80%Imax) 4152.45
(90%Imax) 4671.51

Equipment: GMS1980	Date: 2024/4/17	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/17
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

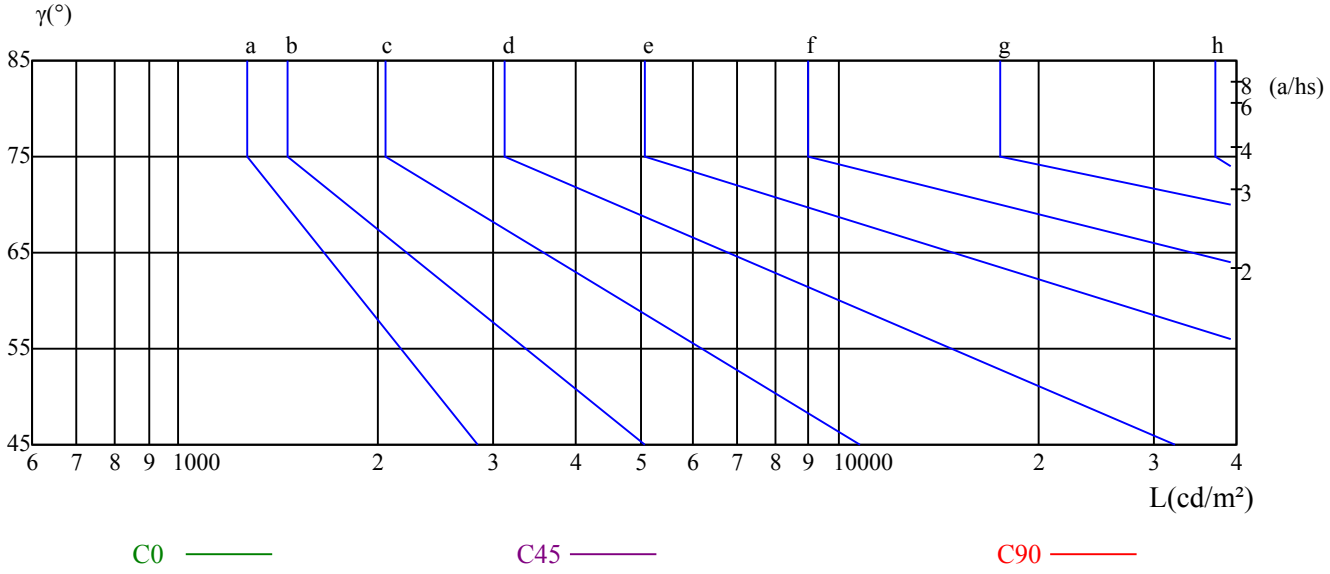
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

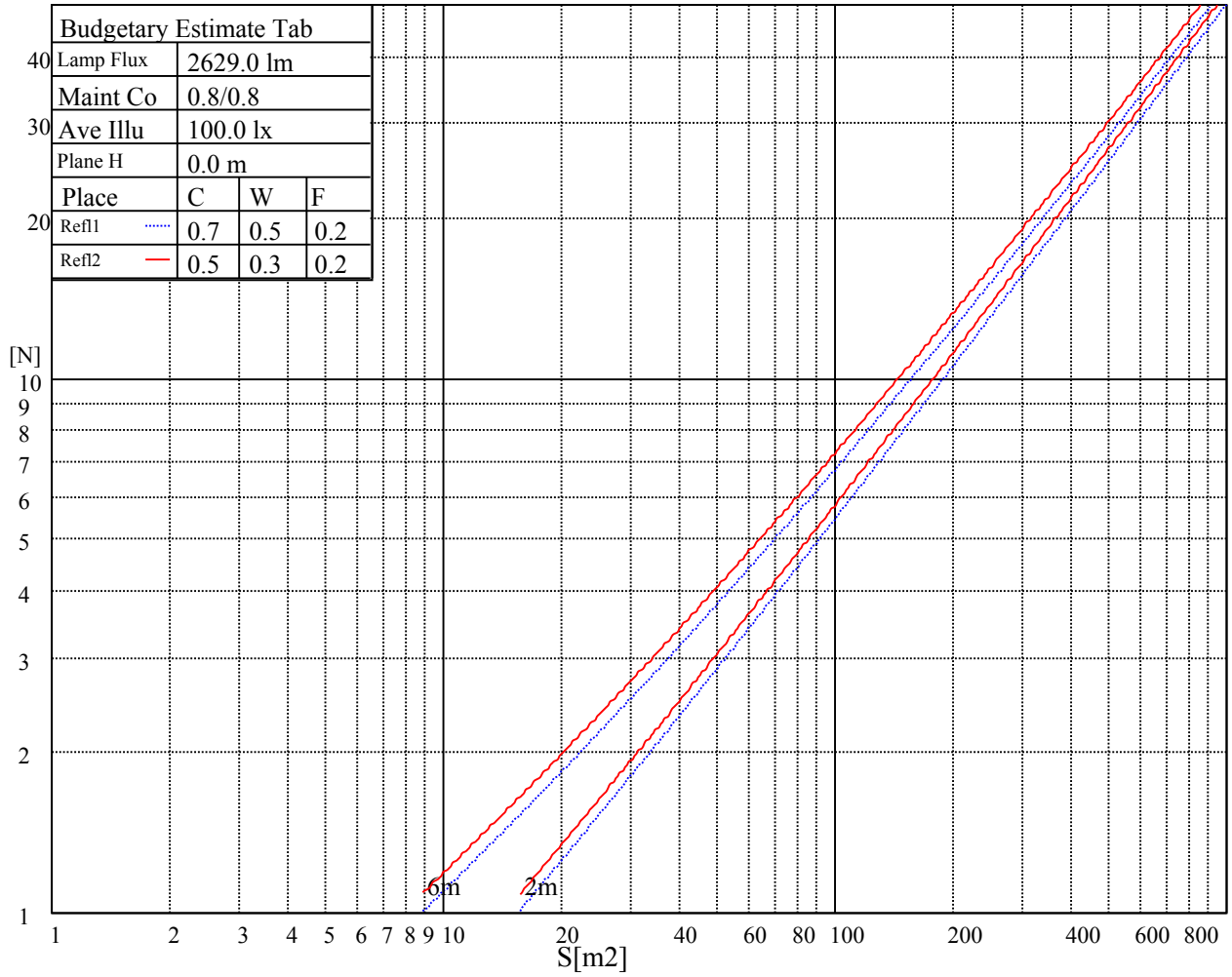
Luminance Limitting Curve



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

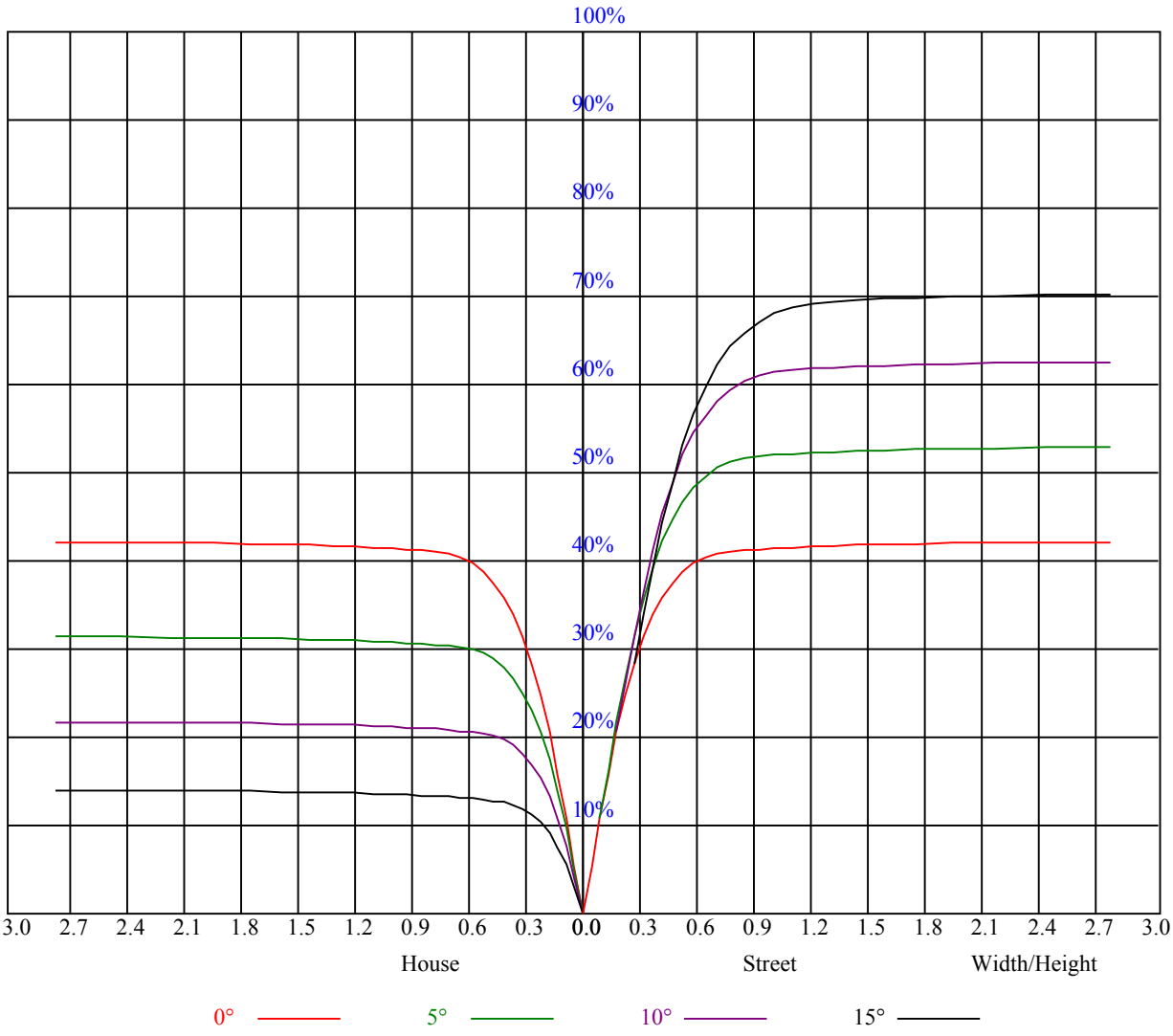


Equipment: GMS1980 Date: 2024/4/17 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Utilization factor table for indoor luminaire

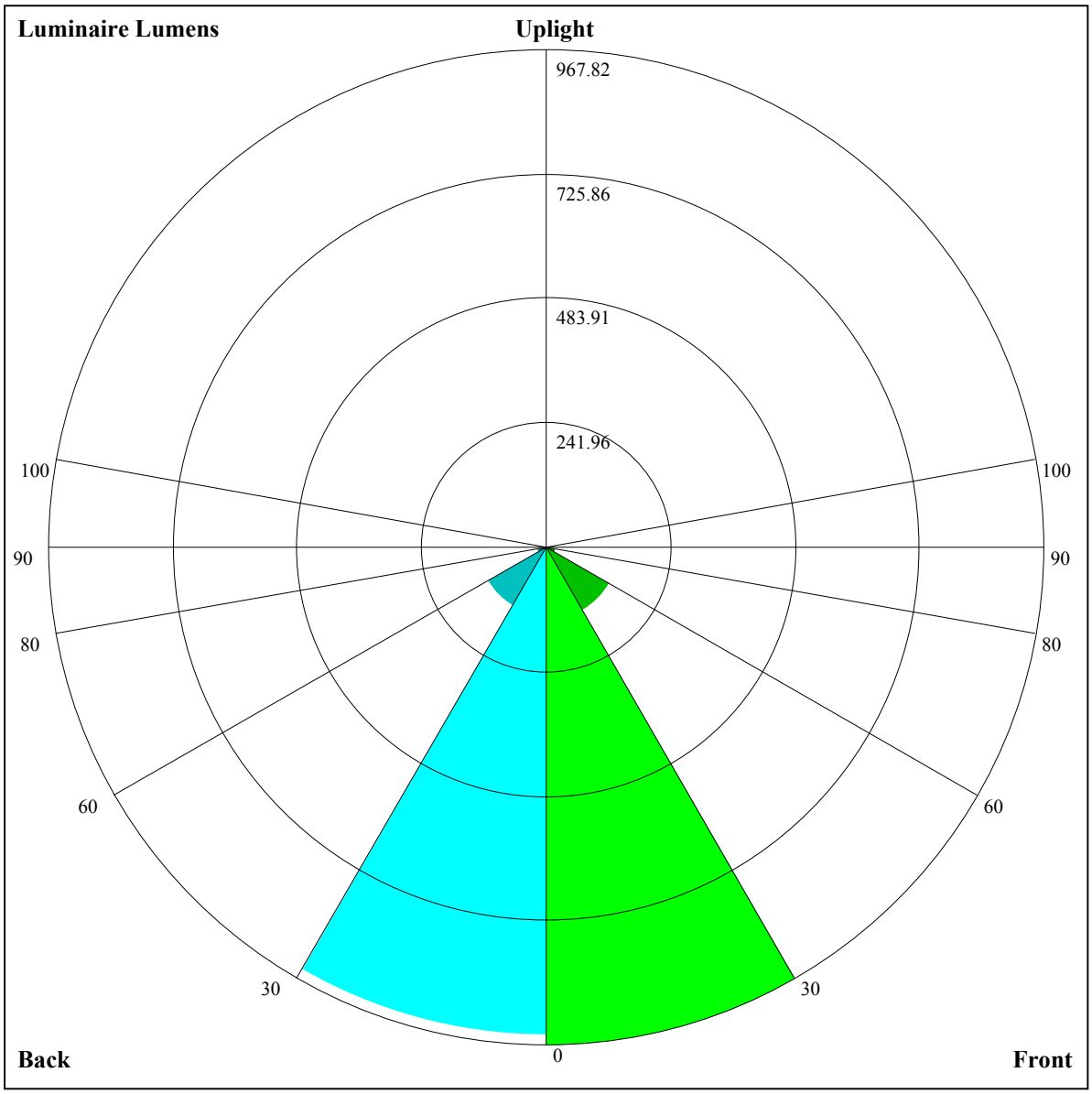
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.80
2	0.89	0.86	0.83	0.88	0.85	0.82	0.85	0.83	0.81	0.82	0.80	0.79	0.80	0.79	0.77	0.76
3	0.84	0.80	0.77	0.83	0.79	0.77	0.81	0.78	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.72
4	0.80	0.75	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.70	0.74	0.71	0.69	0.68
5	0.76	0.71	0.68	0.75	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.65
6	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
7	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.65	0.63	0.60	0.59
8	0.66	0.62	0.59	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.57
9	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.61	0.58	0.55	0.54
10	0.61	0.56	0.54	0.60	0.56	0.54	0.60	0.56	0.53	0.59	0.56	0.53	0.59	0.55	0.53	0.52

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/4/17	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

LCS Graph



Luminaire Lumens:
FL=967.82,FM=141.17,FH=17.88,FVH=5.81
BL=948.18,BM=131.46,BH=17.36,BVH=5.73
UL=0,UH=0

BUG Rating:B2-U0-G0

Equipment: GMS1980	Date: 2024/4/17	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	5199.78	5188.08	5157.65	5134.82	5076.30	5010.17	4928.24	4813.53	4691.81
45.0	5189.83	5191.00	5176.37	5137.75	5100.88	5043.53	4953.99	4862.69	4736.87
90.0	5178.71	5155.31	5097.37	5044.70	4984.42	4884.93	4774.32	4666.64	4530.87
135.0	5193.93	5186.32	5160.57	5110.83	5044.70	4983.25	4913.02	4821.14	4681.27
180.0	5199.78	5192.76	5159.40	5125.46	5079.23	5010.17	4938.19	4833.43	4680.10
225.0	5189.83	5169.94	5129.56	5096.20	5048.21	4989.10	4877.91	4755.01	4597.00
270.0	5178.71	5196.86	5184.57	5160.57	5118.44	5079.23	5030.07	4949.31	4817.05
315.0	5193.93	5181.64	5157.65	5123.12	5082.74	5007.83	4929.41	4807.10	4675.42
360.0	5199.78	5188.08	5157.65	5134.82	5076.30	5010.17	4928.24	4813.53	4691.81

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4510.39	4344.18	4148.72	3942.13	3664.74	3437.67	3215.28	2994.07	2720.18
45.0	4603.44	4456.55	4292.10	4062.11	3859.62	3642.50	3421.28	3140.96	2920.33
90.0	4379.88	4151.64	3959.11	3751.94	3544.77	3279.66	3072.49	2806.21	2601.38
135.0	4540.82	4327.80	4149.30	3946.82	3684.64	3471.03	3253.91	2986.46	2770.51
180.0	4523.26	4296.78	4091.37	3871.32	3651.28	3363.93	3142.13	2919.75	2709.65
225.0	4362.33	4158.67	3940.38	3653.62	3418.94	3187.19	2901.02	2679.22	2464.44
270.0	4677.18	4505.71	4313.17	4037.53	3808.12	3572.27	3277.90	3046.74	2820.84
315.0	4518.00	4286.83	4083.17	3863.71	3634.31	3345.79	3115.21	2893.41	2672.20
360.0	4510.39	4344.18	4148.72	3942.13	3664.74	3437.67	3215.28	2994.07	2720.18

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2515.36	2314.04	2074.68	1900.28	1734.67	1550.32	1420.40	1159.45	1159.45
45.0	2710.24	2504.24	2260.78	2079.36	1867.51	1715.35	1577.83	1423.33	1302.77
90.0	2404.16	2164.81	1989.24	1825.96	1677.90	1508.77	1301.60	1165.42	1143.06
135.0	2559.25	2361.44	2132.03	1956.47	1792.60	1645.13	1517.55	1367.73	1260.05
180.0	2449.81	2242.64	2067.07	1890.92	1675.56	1542.13	1367.73	1252.44	1138.91
225.0	2261.37	2020.26	1847.03	1686.09	1543.30	1292.24	1141.42	1141.42	1022.97
270.0	2548.13	2332.77	2150.76	1913.16	1739.35	1598.31	1459.61	1291.06	1169.34
315.0	2401.82	2204.60	2012.65	1796.70	1641.61	1504.09	1159.10	1159.10	1110.23
360.0	2515.36	2314.04	2074.68	1900.28	1734.67	1550.32	1420.40	1159.45	1159.45

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1063.18	980.25	885.97	793.04	691.27	593.94	471.57	374.37	285.30
45.0	1198.60	1076.29	990.26	912.42	834.00	718.71	622.15	523.25	423.18
90.0	1045.80	965.91	892.59	795.79	705.14	606.53	481.11	379.69	262.12
135.0	1132.47	1038.83	951.05	849.81	759.10	657.27	535.54	436.64	340.07
180.0	1017.76	941.10	863.85	737.44	634.44	539.05	442.49	328.37	307.89
225.0	938.82	830.96	727.14	621.98	494.75	395.14	303.79	223.15	139.93
270.0	1062.83	977.38	873.80	774.31	669.56	539.05	437.22	339.49	316.67
315.0	999.04	921.90	829.09	722.28	595.76	492.12	393.62	302.33	200.21
360.0	1063.18	980.25	885.97	793.04	691.27	593.94	471.57	374.37	285.30

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	201.84	125.24	96.56	87.26	78.24	72.33	65.95	61.62	57.88
45.0	305.55	305.55	204.19	102.94	86.15	78.07	70.64	65.55	61.21
90.0	182.18	121.26	91.88	79.59	73.04	67.48	62.79	57.76	54.13
135.0	295.01	295.01	109.50	87.55	78.24	70.17	64.61	60.22	55.42
180.0	307.89	113.88	85.56	76.96	71.10	65.90	60.16	56.42	52.14
225.0	101.01	86.50	78.24	71.34	66.07	61.68	56.94	53.55	50.62
270.0	214.60	103.88	90.89	82.69	76.61	69.70	64.84	60.63	57.00
315.0	137.64	98.73	89.60	82.28	74.97	69.41	64.73	59.58	56.01
360.0	201.84	125.24	96.56	87.26	78.24	72.33	65.95	61.62	57.88

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	54.48	50.62	47.87	45.47	43.37	40.79	39.09	37.51	36.11
45.0	56.36	52.96	50.04	47.23	44.18	42.08	39.97	38.27	36.28
90.0	50.97	48.05	44.89	42.72	40.32	38.45	36.87	35.05	33.71
135.0	51.97	48.34	45.65	43.25	41.32	38.92	37.28	35.87	34.53
180.0	49.22	46.70	43.89	41.84	40.09	38.33	36.58	35.00	33.71
225.0	47.29	44.95	42.96	40.73	38.98	37.51	36.05	34.24	32.89
270.0	53.02	50.21	47.70	44.77	42.90	41.02	39.03	37.40	35.87
315.0	52.73	49.86	46.76	44.54	42.55	40.61	38.68	36.99	35.52
360.0	54.48	50.62	47.87	45.47	43.37	40.79	39.09	37.51	36.11

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	34.35	33.01	31.37	30.08	28.79	27.15	26.04	24.87	23.82
45.0	34.88	33.53	31.89	30.72	29.14	27.92	26.63	25.46	23.99
90.0	32.42	31.19	29.67	28.44	27.21	26.04	24.64	23.47	22.59
135.0	32.89	31.60	30.43	28.91	27.80	26.63	25.28	24.23	23.17
180.0	32.42	30.84	29.61	28.38	26.98	25.81	24.70	23.41	22.47
225.0	31.60	30.43	28.85	27.74	26.51	25.16	24.05	22.77	21.89
270.0	34.18	32.83	31.54	30.26	28.79	27.56	26.39	25.28	23.82
315.0	33.77	32.48	30.78	29.55	28.32	27.10	25.63	24.52	23.53
360.0	34.35	33.01	31.37	30.08	28.79	27.15	26.04	24.87	23.82

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.59	21.59	20.72	19.90	18.96	18.32	17.44	16.85	16.33
45.0	22.94	21.95	21.13	20.07	19.25	18.61	17.79	17.15	16.56
90.0	21.42	20.60	19.84	18.84	18.20	17.44	16.80	16.27	15.68
135.0	21.95	21.01	20.25	19.25	18.55	17.97	17.32	16.56	16.04
180.0	21.54	20.37	19.66	18.84	18.02	17.38	16.80	16.21	15.57
225.0	20.89	20.07	19.08	18.32	17.73	17.09	16.33	15.80	15.22
270.0	22.82	21.83	20.78	19.96	18.90	18.32	17.56	16.97	16.33
315.0	22.59	21.30	20.54	19.61	18.90	18.14	17.38	16.74	16.15
360.0	22.59	21.59	20.72	19.90	18.96	18.32	17.44	16.85	16.33

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.68	14.98	14.51	13.93	13.58	13.17	12.82	12.52	12.11
45.0	15.92	15.27	14.81	14.16	13.75	13.34	12.87	12.58	12.29
90.0	14.98	14.51	14.10	13.64	13.17	12.87	12.58	12.29	12.06
135.0	15.45	14.92	14.34	13.87	13.40	13.05	12.70	12.35	12.06
180.0	14.98	14.57	13.99	13.52	13.23	12.76	12.41	12.11	11.70
225.0	14.75	14.16	13.69	13.23	12.87	12.52	12.17	11.88	11.65
270.0	15.68	15.22	14.81	14.51	14.22	13.87	13.52	13.11	12.70
315.0	15.57	15.04	14.69	14.51	14.40	14.16	13.28	12.70	12.29
360.0	15.68	14.98	14.51	13.93	13.58	13.17	12.82	12.52	12.11

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.82	11.41	11.12	10.83	10.65	10.42	10.12	9.89	9.89
45.0	11.88	11.59	11.29	10.94	10.65	10.53	10.18	9.95	9.77
90.0	11.82	11.24	10.94	10.71	10.42	10.12	9.95	9.71	9.42
135.0	12.11	11.35	11.00	10.77	10.48	10.24	9.95	9.77	9.54
180.0	11.41	11.12	10.83	10.59	10.36	10.12	9.89	9.71	9.48
225.0	11.29	11.00	10.77	10.48	10.24	10.01	9.77	9.48	9.54
270.0	11.94	11.41	11.06	10.77	10.53	10.30	10.01	9.77	9.54
315.0	11.53	11.18	10.94	10.89	10.71	10.12	9.89	9.66	9.42
360.0	11.82	11.41	11.12	10.83	10.65	10.42	10.12	9.89	9.89

Intensity data(cd)

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