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Nata

Client:
LumCAT: 2-2755-L
Luminaire: 92.70.411.00
Report No: 2024910-B012
Ballast type: AC

Test No: 2024910-C012	Voltage(V): 33.900
LampCAT: NICHIA NFCWJ120B-V3	Current(A): 0.580
Lamp flux(lm): 2597.0	Power (W): 19.660
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2423.21, Efficiency(%): 93.31% , Luminous Efficacy(lm/W): 123.26
Central intensity(cd): 9010.158, Maximum intensity(cd): 9010.158
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.4
[C90/270]Total=24.4
Field angle(10%Imax): [C0/180]Total=55.8
[C90/270]Total=55.8
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
Maximum s/h(1/4): C0_180=0.43 C90_270=0.43
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.31%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.084%

Nata 2-2755-L

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9010.159	0.000	0	0.00%	0.00%
1.0	8964.423	8.600	8.6	0.33%	0.35%
2.0	8822.694	25.530	34.13	0.98%	1.41%
3.0	8596.203	41.660	75.791	1.60%	3.13%
4.0	8305.368	56.575	132.365	2.18%	5.46%
5.0	7934.782	69.864	202.23	2.69%	8.35%
6.0	7506.043	81.146	283.375	3.12%	11.69%
7.0	7037.744	90.273	373.648	3.48%	15.42%
8.0	6566.456	97.363	471.011	3.75%	19.44%
9.0	6046.205	102.219	573.23	3.94%	23.66%
10.0	5563.977	105.068	678.298	4.05%	27.99%
11.0	5051.953	106.075	784.373	4.08%	32.37%
12.0	4601.341	105.524	889.897	4.06%	36.72%
13.0	4091.669	103.164	993.061	3.97%	40.98%
14.0	3666.911	99.309	1092.37	3.82%	45.08%
15.0	3265.820	95.176	1187.546	3.66%	49.01%
16.0	2871.838	89.934	1277.48	3.46%	52.72%
17.0	2550.017	84.433	1361.913	3.25%	56.20%
18.0	2256.114	79.243	1441.155	3.05%	59.47%
19.0	2010.121	74.224	1515.379	2.86%	62.54%
20.0	1793.511	69.617	1584.996	2.68%	65.41%
21.0	1609.799	65.350	1650.347	2.52%	68.11%
22.0	1454.220	61.573	1711.919	2.37%	70.65%
23.0	1319.634	58.203	1770.122	2.24%	73.05%
24.0	1220.639	55.539	1825.662	2.14%	75.34%
25.0	1103.629	52.849	1878.511	2.03%	77.52%
26.0	1043.898	50.693	1929.203	1.95%	79.61%
27.0	962.814	49.095	1978.298	1.89%	81.64%
28.0	893.720	47.003	2025.301	1.81%	83.58%
29.0	819.134	44.813	2070.114	1.73%	85.43%
30.0	738.878	42.066	2112.18	1.62%	87.16%
31.0	658.240	38.880	2151.06	1.50%	88.77%
32.0	574.488	35.316	2186.376	1.36%	90.23%
33.0	494.929	31.505	2217.882	1.21%	91.53%
34.0	412.668	27.467	2245.348	1.06%	92.66%
35.0	352.182	23.753	2269.102	0.91%	93.64%
36.0	295.901	20.635	2289.737	0.79%	94.49%
37.0	210.815	16.526	2306.263	0.64%	95.17%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	172.701	12.801	2319.064	0.49%	95.70%
39.0	129.376	10.311	2329.375	0.40%	96.13%
40.0	99.409	7.979	2337.354	0.31%	96.46%
41.0	74.961	6.209	2343.563	0.24%	96.71%
42.0	64.113	5.053	2348.616	0.19%	96.92%
43.0	56.919	4.483	2353.1	0.17%	97.11%
44.0	52.103	4.115	2357.214	0.16%	97.28%
45.0	48.022	3.848	2361.062	0.15%	97.44%
46.0	44.836	3.631	2364.694	0.14%	97.59%
47.0	41.347	3.428	2368.121	0.13%	97.73%
48.0	38.614	3.232	2371.354	0.12%	97.86%
49.0	36.170	3.071	2374.425	0.12%	97.99%
50.0	34.152	2.932	2377.357	0.11%	98.11%
51.0	32.142	2.805	2380.162	0.11%	98.22%
52.0	30.453	2.686	2382.848	0.10%	98.33%
53.0	29.087	2.590	2385.438	0.10%	98.44%
54.0	27.569	2.497	2387.935	0.10%	98.54%
55.0	26.393	2.409	2390.344	0.09%	98.64%
56.0	25.039	2.324	2392.668	0.09%	98.74%
57.0	23.791	2.233	2394.9	0.09%	98.83%
58.0	22.516	2.141	2397.042	0.08%	98.92%
59.0	21.176	2.043	2399.084	0.08%	99.00%
60.0	19.829	1.937	2401.022	0.07%	99.08%
61.0	18.535	1.831	2402.852	0.07%	99.16%
62.0	17.195	1.722	2404.574	0.07%	99.23%
63.0	15.999	1.614	2406.188	0.06%	99.30%
64.0	14.737	1.508	2407.697	0.06%	99.36%
65.0	13.686	1.407	2409.103	0.05%	99.42%
66.0	12.484	1.306	2410.409	0.05%	99.47%
67.0	11.485	1.205	2411.614	0.05%	99.52%
68.0	10.565	1.117	2412.731	0.04%	99.57%
69.0	9.632	1.030	2413.762	0.04%	99.61%
70.0	8.903	0.952	2414.713	0.04%	99.65%
71.0	8.088	0.878	2415.592	0.03%	99.69%
72.0	7.392	0.805	2416.397	0.03%	99.72%
73.0	6.774	0.741	2417.137	0.03%	99.75%
74.0	6.275	0.686	2417.823	0.03%	99.78%
75.0	5.677	0.631	2418.455	0.02%	99.80%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.243	0.580	2419.034	0.02%	99.83%
77.0	4.757	0.533	2419.568	0.02%	99.85%
78.0	4.343	0.487	2420.055	0.02%	99.87%
79.0	3.982	0.447	2420.502	0.02%	99.89%
80.0	3.574	0.407	2420.909	0.02%	99.91%
81.0	3.239	0.368	2421.278	0.01%	99.92%
82.0	2.898	0.333	2421.611	0.01%	99.93%
83.0	2.576	0.298	2421.908	0.01%	99.95%
84.0	2.273	0.264	2422.172	0.01%	99.96%
85.0	2.024	0.235	2422.407	0.01%	99.97%
86.0	1.761	0.207	2422.614	0.01%	99.98%
87.0	1.524	0.180	2422.793	0.01%	99.98%
88.0	1.327	0.156	2422.95	0.01%	99.99%
89.0	1.170	0.137	2423.086	0.01%	99.99%
90.0	1.091	0.124	2423.21	0.00%	100.00%

Zonal flux distribution table

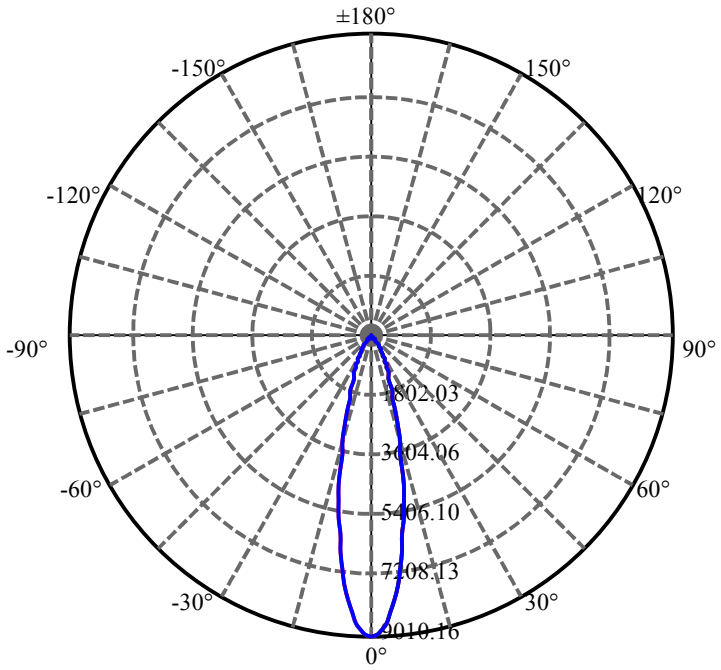
ZONAL LUMEN SUMMARY

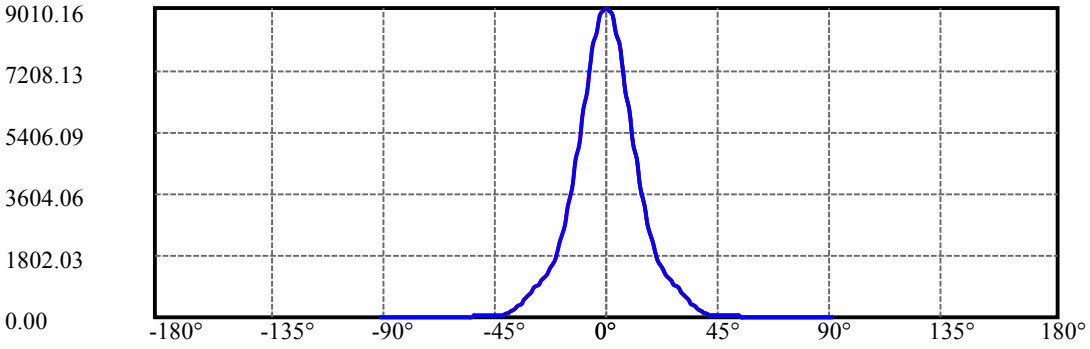
Zone	Lumens	%Lamp	%Fixt
0-30	2112.18	81.33%	87.16%
0-40	2337.35	90.00%	96.46%
0-60	2401.02	92.45%	99.08%
0-90	2423.09	93.30%	99.99%
0-120	2423.09	93.30%	99.99%
0-180	2423.21	93.31%	100.00%
60-90	22.06	0.85%	0.91%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.19	1938.57	74.65%	80.00%

ZONAL LUMEN SUMMARY

0-10	678.30
10-20	906.70
20-30	527.18
30-40	225.17
40-50	40.00
50-60	23.66
60-70	13.69
70-80	6.20
80-90	2.18
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):

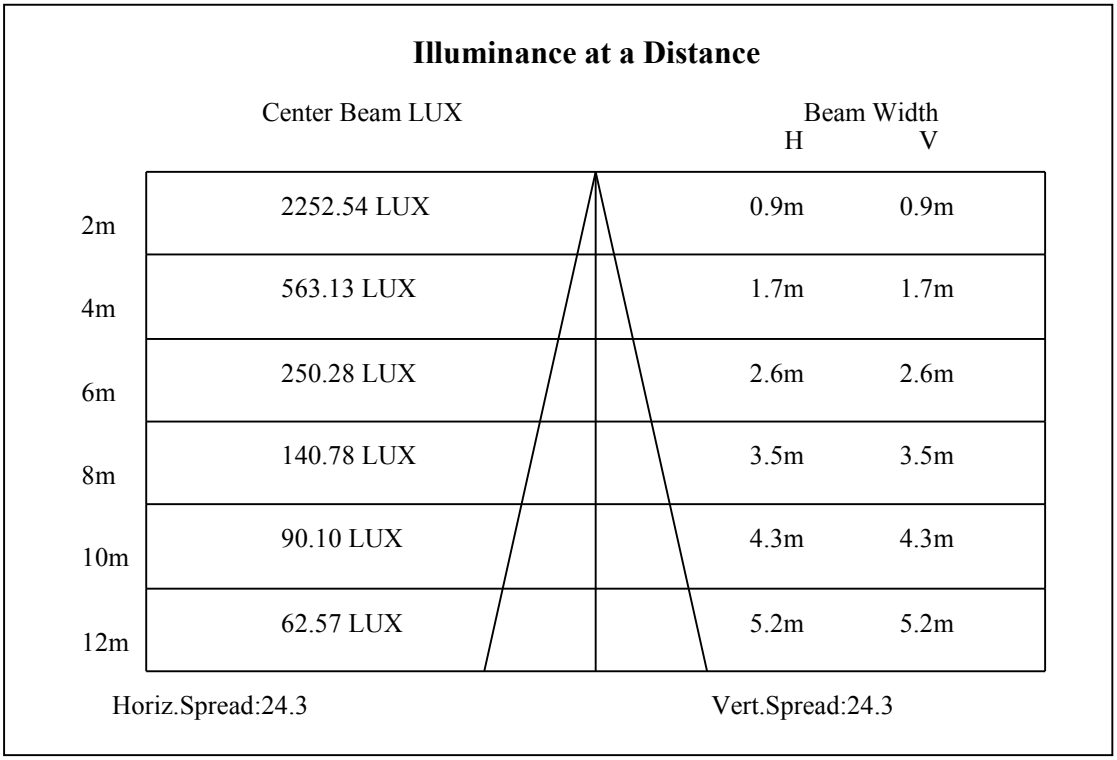
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:27.9 Right:27.9
:C90/270Left:27.9 Right:27.9

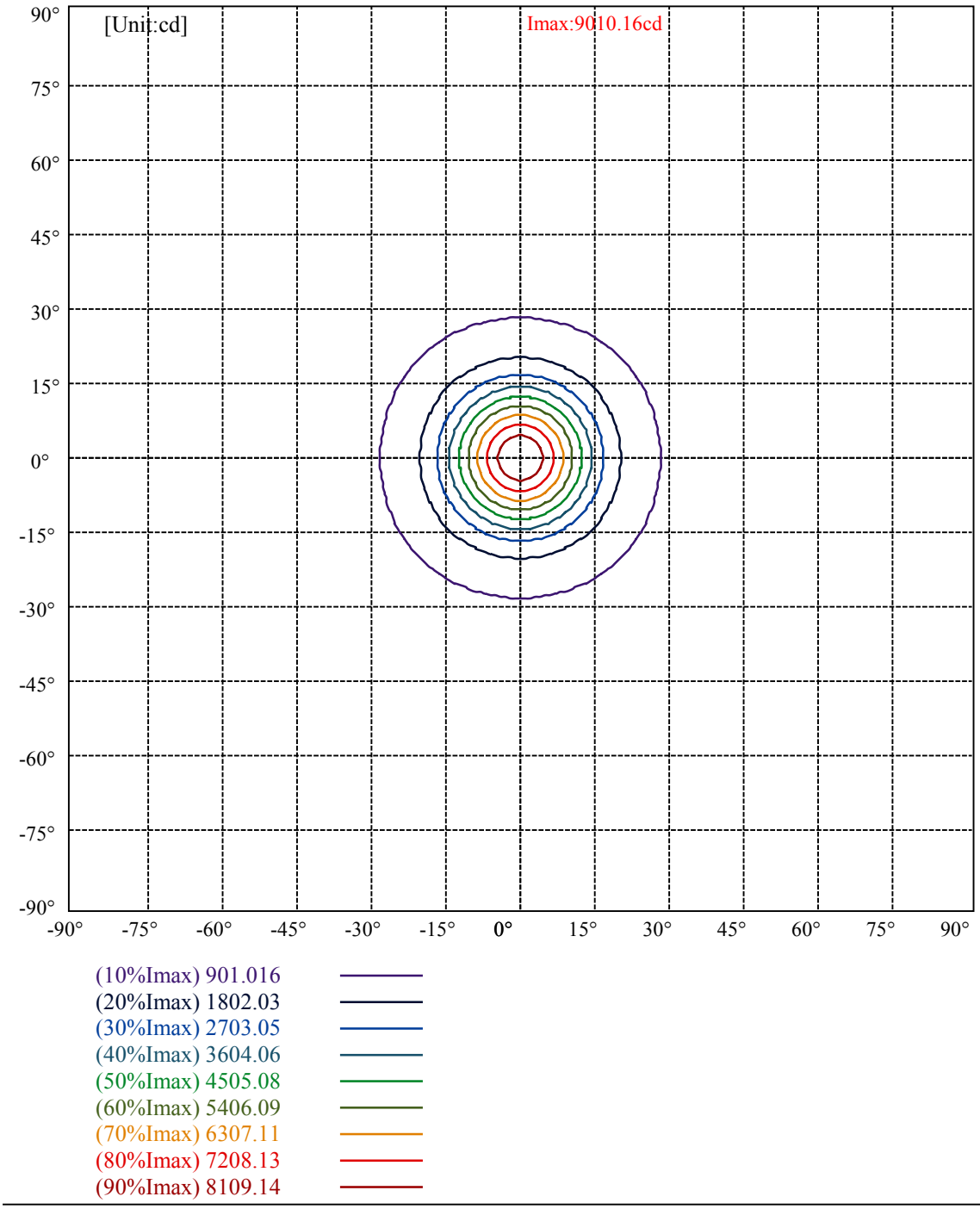
Beam Angle(50%Imax):C0/180Left:12.2 Right:12.2
:C90/270Left:12.2 Right:12.2

Lux distance Curve



Equipment: GMS 1800 Date: 2024/9/10 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.25

ISO-Intensity(V-H)



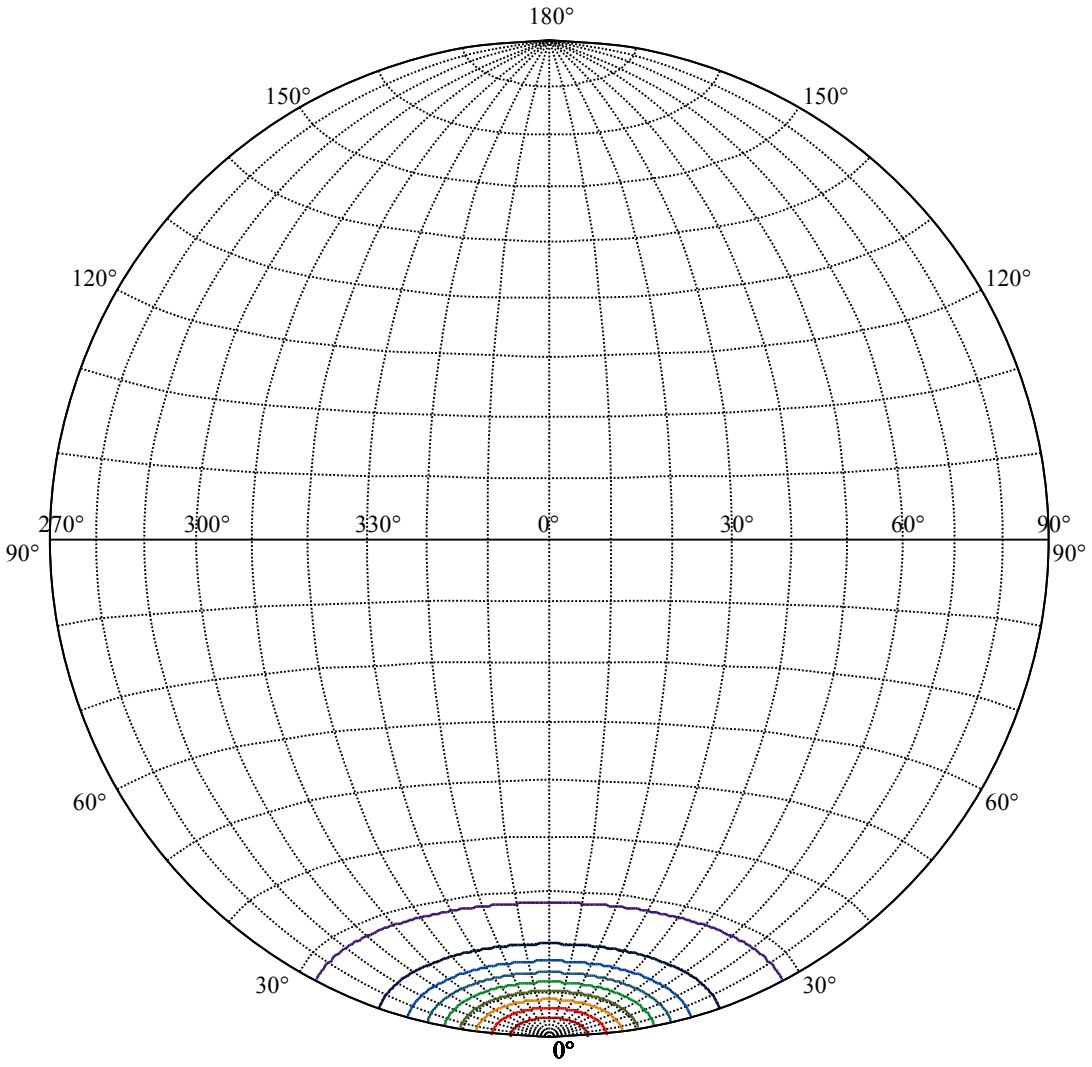
(10%Imax) 901.016
(20%Imax) 1802.03
(30%Imax) 2703.05
(40%Imax) 3604.06
(50%Imax) 4505.08
(60%Imax) 5406.09
(70%Imax) 6307.11
(80%Imax) 7208.13
(90%Imax) 8109.14

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/10
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:9010.16

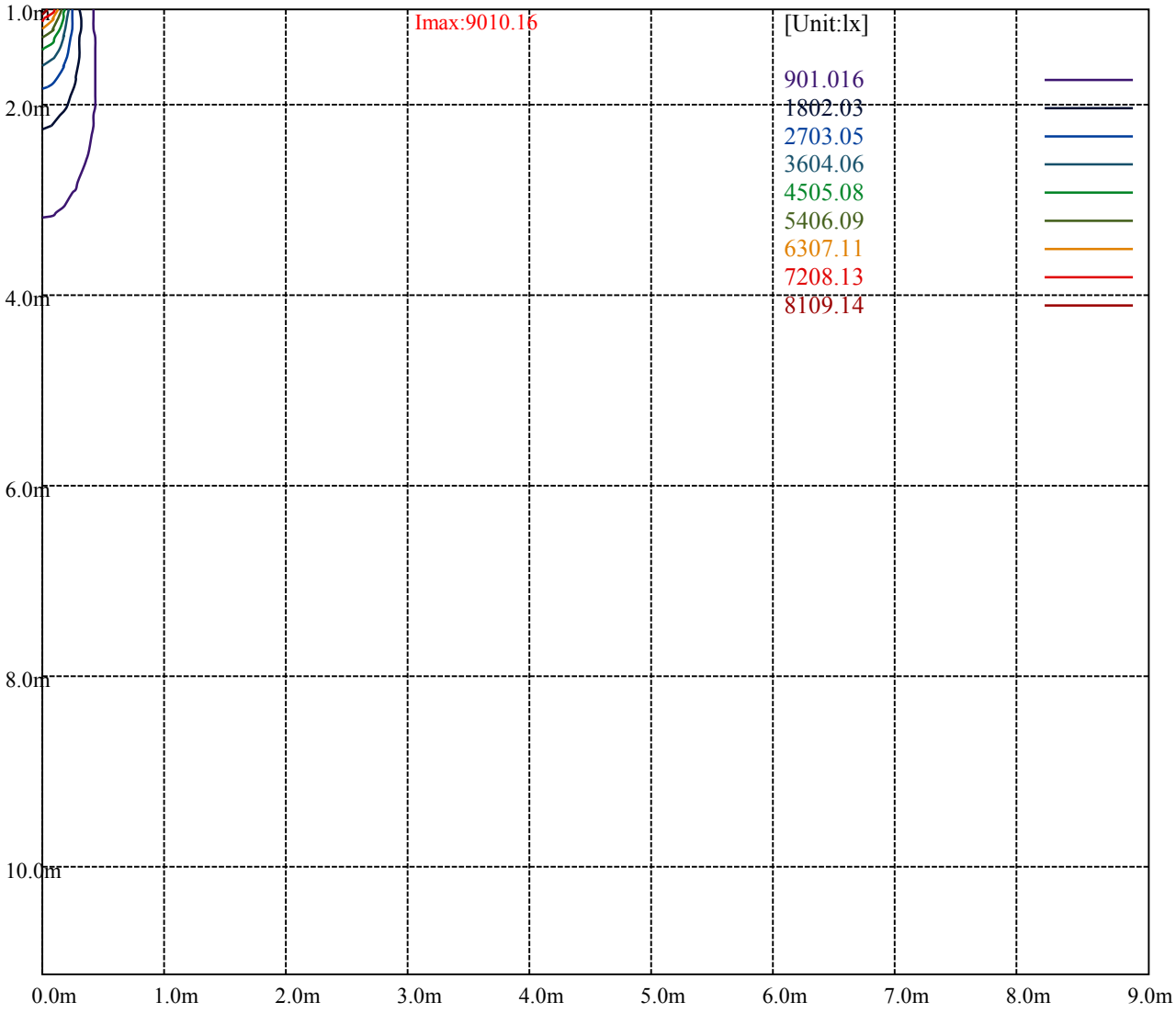
(10%Imax) 901.016
(20%Imax) 1802.03
(30%Imax) 2703.05
(40%Imax) 3604.06
(50%Imax) 4505.08
(60%Imax) 5406.09
(70%Imax) 6307.11
(80%Imax) 7208.13
(90%Imax) 8109.14

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/10
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/10
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2755-L

Luminance Limitting Curve(no luminous side)

Luminance Table

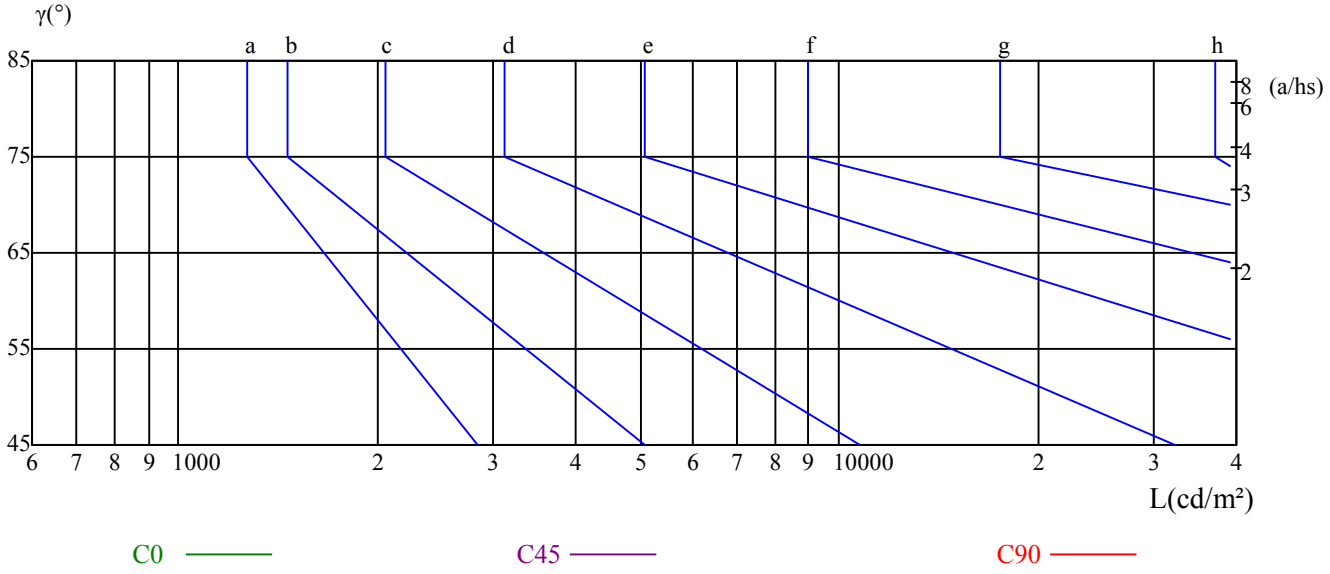
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/10
Humidity(%): 60.0%

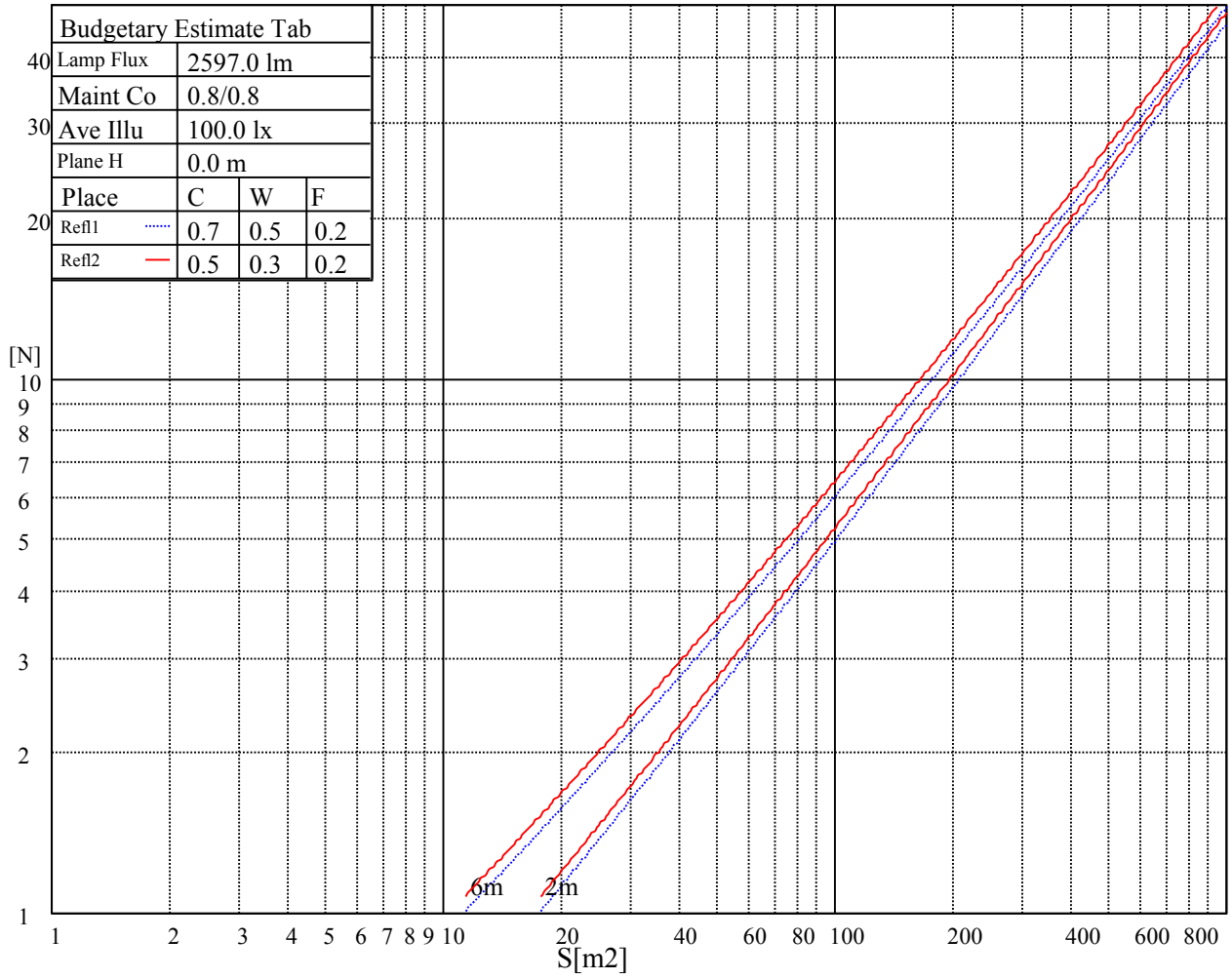
Operator: NT
Distance(m): 7.25

UGR Glare

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: GMS 1800
Temperature(°C): 25.0

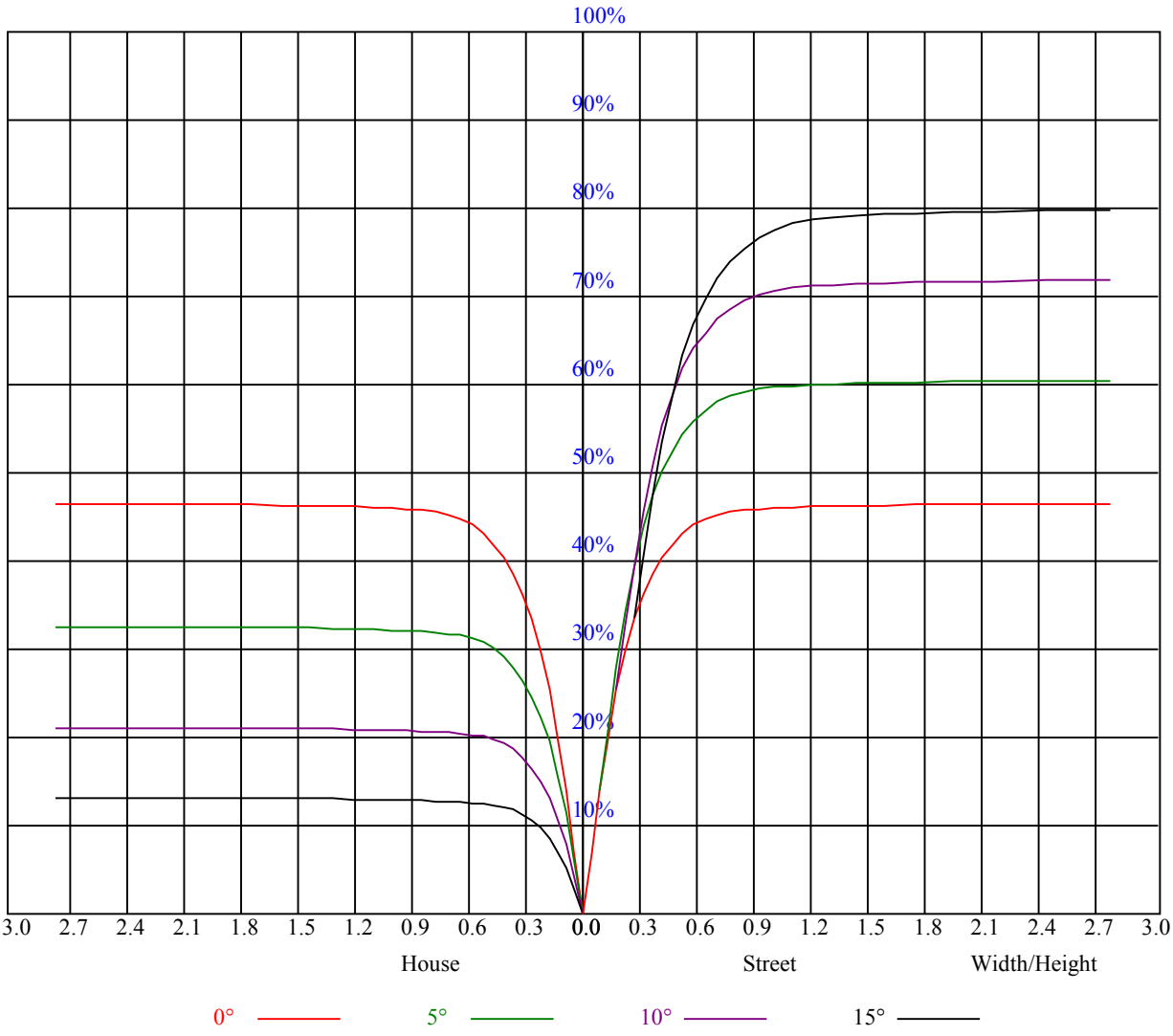
Date: 2024/9/10
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

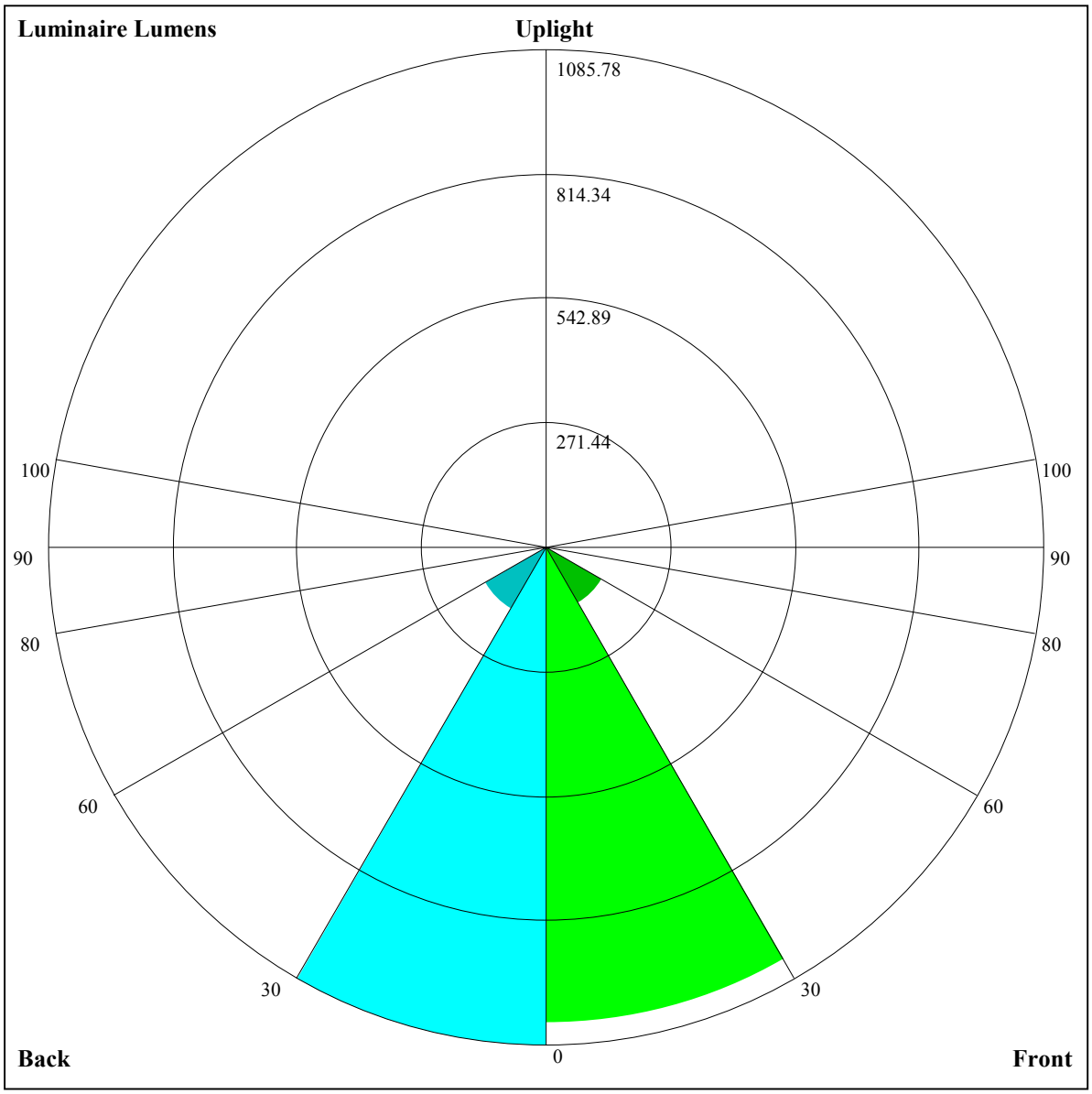
Utilization factor table for indoor luminaire

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	1.11	1.11	1.11	1.08	1.08	1.08	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.05	1.03	1.01	1.03	1.01	0.99	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.89
2	0.99	0.96	0.93	0.97	0.94	0.92	0.94	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.86	0.85
3	0.94	0.90	0.87	0.93	0.89	0.86	0.90	0.87	0.85	0.88	0.86	0.84	0.86	0.84	0.82	0.81
4	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.78
5	0.85	0.81	0.78	0.85	0.80	0.77	0.83	0.79	0.77	0.81	0.78	0.76	0.80	0.78	0.75	0.74
6	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.79	0.75	0.73	0.77	0.75	0.72	0.71
7	0.78	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.69
8	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
9	0.73	0.68	0.65	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
10	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.62

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2024/9/10	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25



Luminaire Lumens:
FL=1037.42,FM=138.22,FH=9.78,FVH=1.16
BL=1085.78,BM=155.79,BH=10.16,BVH=1.18
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	9003.48	8857.52	8607.90	8277.49	7879.70	7421.72	6936.99	6427.71	5910.65
45.0	9093.73	8941.09	8691.47	8367.21	7966.06	7509.18	7017.20	6508.50	5979.77
90.0	8824.61	8506.50	8114.81	7671.29	7192.71	6782.09	6149.13	5610.36	5177.46
135.0	9118.81	8976.20	8746.08	8421.83	8030.66	7594.44	7114.70	6608.79	6082.27
180.0	9003.48	9053.63	9004.06	8863.09	8633.55	8392.81	7936.52	7496.94	7109.71
225.0	9093.73	9144.46	9100.46	8961.70	8732.16	8417.36	8029.03	7577.15	7091.84
270.0	8824.61	9070.92	9210.21	9254.78	9201.85	9029.13	8765.59	8419.57	8003.95
315.0	9118.81	9165.06	9106.56	8952.23	8806.27	8331.52	8099.20	7652.94	7175.99
360.0	9003.48	8857.52	8607.90	8277.49	7879.70	7421.72	6936.99	6427.71	5910.65

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5383.03	4856.51	4353.38	3879.80	3437.43	3030.70	2797.80	2339.82	2171.57
45.0	5438.22	4915.59	4408.57	4113.80	3643.00	3214.56	2830.12	2491.36	2201.63
90.0	4552.86	4143.92	3677.59	3254.14	2868.55	2527.57	2228.97	1984.92	1769.31
135.0	5557.43	5027.55	4519.43	4028.02	3573.36	3149.39	2776.61	2442.89	2162.11
180.0	6619.93	6101.77	5574.73	5048.73	4532.25	4042.53	3582.29	3156.64	2777.77
225.0	6586.50	6273.39	5742.98	5202.53	4674.91	4173.99	3704.87	3272.49	2875.80
270.0	7561.01	7051.73	6534.15	6212.10	5456.57	5137.88	4604.69	4100.45	3632.44
315.0	6670.65	6141.35	5604.79	5071.60	4547.29	4058.67	3601.21	3186.13	2809.52
360.0	5383.03	4856.51	4353.38	3879.80	3437.43	3030.70	2797.80	2339.82	2171.57

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1923.63	1711.91	1533.04	1392.07	1268.96	1083.26	1083.26	1008.94	944.39
45.0	1951.49	1739.77	1562.00	1413.83	1289.57	1180.34	1089.57	1018.24	955.27
90.0	1595.43	1455.61	1328.57	1202.10	1099.61	1067.23	996.80	956.80	884.47
135.0	1920.84	1757.58	1583.18	1442.79	1321.89	1219.92	1131.88	1056.14	988.70
180.0	2445.68	2166.52	1930.31	1731.93	1563.68	1427.76	1311.28	1208.20	1123.52
225.0	2528.15	2231.75	1979.87	1770.41	1592.12	1438.32	1306.28	1079.16	1079.16
270.0	3209.57	2829.54	2490.25	2197.74	1948.70	1735.88	1563.16	1417.14	1291.25
315.0	2474.12	2188.28	1940.87	1727.52	1549.23	1404.36	1282.89	1084.42	1084.42
360.0	1923.63	1711.91	1533.04	1392.07	1268.96	1083.26	1083.26	1008.94	944.39

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	876.01	799.79	717.11	629.44	559.32	474.85	376.87	314.48	242.52
45.0	887.83	812.62	730.72	643.84	555.80	471.64	406.47	328.46	313.43
90.0	763.52	710.91	619.50	527.15	441.37	359.53	280.63	211.77	154.06
135.0	922.94	844.94	759.16	669.44	580.87	495.03	411.46	332.93	288.36
180.0	1052.77	988.12	950.80	881.74	804.26	718.48	628.75	541.29	454.93
225.0	1001.63	963.05	896.45	827.75	746.65	663.29	579.71	496.19	417.35
270.0	1178.14	1084.00	1006.52	940.76	872.80	794.80	744.65	626.55	574.19
315.0	1019.66	946.34	872.80	790.91	704.86	618.29	530.88	449.67	372.62
360.0	876.01	799.79	717.11	629.44	559.32	474.85	376.87	314.48	242.52

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	180.18	129.30	91.93	73.53	66.23	60.03	55.98	51.88	47.67
45.0	283.89	134.67	94.77	72.75	65.07	59.08	54.61	50.35	46.31
90.0	111.54	84.15	71.75	64.23	58.08	53.09	48.30	44.31	41.05
135.0	288.36	162.10	116.11	86.20	73.64	66.02	60.29	55.09	50.25
180.0	372.46	296.14	296.14	163.00	113.43	82.26	69.07	62.44	57.66
225.0	342.65	274.59	212.04	154.80	110.75	82.16	69.65	62.60	57.45
270.0	491.14	378.61	332.35	301.71	223.71	128.94	91.04	70.49	63.02
315.0	296.98	226.96	166.52	118.79	84.36	68.12	63.97	58.19	53.40
360.0	180.18	129.30	91.93	73.53	66.23	60.03	55.98	51.88	47.67

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	44.26	41.73	39.00	36.48	34.38	32.59	30.80	29.12	28.49
45.0	42.89	40.05	37.16	35.43	32.59	30.91	29.96	28.12	26.65
90.0	38.06	35.74	33.32	30.96	29.59	27.96	26.54	25.49	24.18
135.0	46.04	42.58	39.37	36.53	34.22	32.38	30.80	29.44	27.75
180.0	53.14	49.57	45.68	41.94	39.68	36.90	34.74	33.06	31.64
225.0	52.93	50.09	44.52	42.73	39.68	36.85	34.48	32.59	30.91
270.0	57.61	53.46	49.57	45.62	42.10	40.47	36.74	34.27	32.90
315.0	49.25	45.47	42.16	39.21	37.11	35.16	33.06	31.54	30.17
360.0	44.26	41.73	39.00	36.48	34.38	32.59	30.80	29.12	28.49

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.75	26.02	24.49	23.29	22.23	20.66	18.87	17.56	16.45
45.0	25.39	24.07	22.50	21.24	20.18	18.71	17.03	16.08	15.03
90.0	22.86	21.71	20.66	19.08	17.71	16.71	15.45	13.98	12.62
135.0	26.44	25.55	24.02	23.18	21.71	20.13	18.71	17.61	16.29
180.0	30.17	28.80	27.44	26.07	24.65	23.29	21.97	20.39	18.82
225.0	29.12	27.81	26.54	25.28	23.76	22.44	21.34	19.97	18.29
270.0	31.12	29.59	28.02	26.81	25.70	24.49	23.29	21.97	20.97
315.0	28.70	27.60	26.65	25.39	24.18	22.97	21.97	20.71	19.08
360.0	26.75	26.02	24.49	23.29	22.23	20.66	18.87	17.56	16.45

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.09	13.46	12.46	11.62	10.62	9.57	8.73	8.04	7.36
45.0	13.67	12.35	11.51	10.78	9.83	8.78	8.09	7.57	6.89
90.0	11.93	11.09	10.04	9.15	8.52	8.20	7.10	6.68	6.10
135.0	14.72	13.46	12.56	11.62	10.46	9.46	8.88	8.09	7.36
180.0	17.77	16.35	15.35	13.35	12.46	11.93	10.41	9.72	8.83
225.0	17.03	15.98	14.77	13.30	12.51	11.35	10.41	9.57	8.73
270.0	19.61	18.13	16.93	15.87	14.56	13.09	12.25	11.46	10.41
315.0	18.19	17.08	15.87	14.19	12.93	12.14	11.20	10.09	9.04
360.0	15.09	13.46	12.46	11.62	10.62	9.57	8.73	8.04	7.36

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.62	6.04	5.78	5.05	4.84	4.36	4.05	3.73	3.31
45.0	6.36	5.78	5.41	4.99	4.57	4.10	3.78	3.42	3.00
90.0	5.52	5.15	4.78	4.31	3.94	3.63	3.21	2.89	2.52
135.0	6.62	6.10	5.62	5.10	4.84	4.36	3.84	3.68	3.21
180.0	8.25	7.52	6.78	6.10	5.62	5.10	4.68	4.21	3.84
225.0	8.04	7.41	6.73	6.10	5.57	5.10	4.73	4.31	3.89
270.0	9.36	8.57	8.20	7.52	6.83	6.15	5.68	5.15	4.78
315.0	8.36	7.62	6.89	6.25	5.73	5.26	4.78	4.47	4.05
360.0	6.62	6.04	5.78	5.05	4.84	4.36	4.05	3.73	3.31

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.00	2.68	2.31	2.10	1.89	1.58	1.37	1.21	1.00
45.0	2.73	2.42	2.10	1.84	1.58	1.31	1.16	0.95	0.84
90.0	2.31	2.10	1.79	1.52	1.31	1.16	0.89	0.95	0.89
135.0	2.89	2.47	2.21	2.00	1.79	1.47	1.31	1.00	0.89
180.0	3.47	3.10	2.73	2.37	2.10	1.89	1.58	1.37	1.21
225.0	3.47	3.21	2.84	2.52	2.21	2.00	1.68	1.42	1.26
270.0	4.31	3.84	3.57	3.10	2.84	2.47	2.21	2.00	1.73
315.0	3.73	3.36	3.05	2.73	2.47	2.21	2.00	1.73	1.52
360.0	3.00	2.68	2.31	2.10	1.89	1.58	1.37	1.21	1.00

Intensity data(cd)

C/γ(°)	90.0
0.0	0.89
45.0	0.89
90.0	0.89
135.0	0.89
180.0	1.10
225.0	1.16
270.0	1.47
315.0	1.42
360.0	0.89