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

Nata

Client:
LumCAT: 2-2456-L
Luminaire: 92.70.411.00
Report No: 2024906-B006
Ballast type: AC

Test No: 2024906-C006	Voltage(V): 34.340
LampCAT: NICHIA NFCWJ108B-V3	Current(A): 0.563
Lamp flux(lm): 2557.0	Power (W): 19.330
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2273.53, Efficiency(%): 88.91% , Luminous Efficacy(lm/W): 117.62
Central intensity(cd): 4895.802, Maximum intensity(cd): 4895.802
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=37.8
[C90/270]Total=37.8
Field angle(10%Imax): [C0/180]Total=66.2
[C90/270]Total=66.2
Maximum s/h(1/2): C0_180=0.61 C90_270=0.61
Maximum s/h(1/4): C0_180=0.63 C90_270=0.63
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 88.91%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.125%

Nata 2-2456-L

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4895.803	0.000	0	0.00%	0.00%
1.0	4882.846	4.679	4.679	0.18%	0.21%
2.0	4859.449	13.983	18.662	0.55%	0.82%
3.0	4809.173	23.124	41.786	0.90%	1.84%
4.0	4749.613	31.996	73.782	1.25%	3.25%
5.0	4672.524	40.534	114.316	1.59%	5.03%
6.0	4581.150	48.631	162.946	1.90%	7.17%
7.0	4471.314	56.188	219.135	2.20%	9.64%
8.0	4347.195	63.112	282.247	2.47%	12.41%
9.0	4212.858	69.375	351.622	2.71%	15.47%
10.0	4055.387	74.825	426.447	2.93%	18.76%
11.0	3895.978	79.450	505.897	3.11%	22.25%
12.0	3725.623	83.315	589.212	3.26%	25.92%
13.0	3545.032	86.284	675.496	3.37%	29.71%
14.0	3373.704	88.559	764.056	3.46%	33.61%
15.0	3189.361	90.101	854.156	3.52%	37.57%
16.0	3001.102	90.708	944.864	3.55%	41.56%
17.0	2811.246	90.514	1035.378	3.54%	45.54%
18.0	2639.702	89.874	1125.252	3.51%	49.49%
19.0	2427.842	88.165	1213.417	3.45%	53.37%
20.0	2250.884	85.634	1299.051	3.35%	57.14%
21.0	2069.524	82.961	1382.011	3.24%	60.79%
22.0	1893.472	79.638	1461.649	3.11%	64.29%
23.0	1745.745	76.361	1538.01	2.99%	67.65%
24.0	1587.716	72.881	1610.891	2.85%	70.85%
25.0	1441.822	68.885	1679.776	2.69%	73.88%
26.0	1313.596	65.042	1744.818	2.54%	76.75%
27.0	1150.048	60.274	1805.092	2.36%	79.40%
28.0	1058.274	55.910	1861.002	2.19%	81.86%
29.0	944.883	52.408	1913.41	2.05%	84.16%
30.0	820.350	47.661	1961.071	1.86%	86.26%
31.0	705.625	42.466	2003.537	1.66%	88.12%
32.0	597.649	37.337	2040.874	1.46%	89.77%
33.0	503.030	32.426	2073.3	1.27%	91.19%
34.0	409.994	27.631	2100.931	1.08%	92.41%
35.0	338.976	23.260	2124.191	0.91%	93.43%
36.0	279.166	19.682	2143.873	0.77%	94.30%
37.0	215.933	16.147	2160.021	0.63%	95.01%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	170.138	12.887	2172.907	0.50%	95.57%
39.0	115.631	9.754	2182.661	0.38%	96.00%
40.0	95.447	7.362	2190.023	0.29%	96.33%
41.0	80.263	6.257	2196.28	0.24%	96.60%
42.0	70.920	5.493	2201.773	0.21%	96.84%
43.0	64.685	5.023	2206.796	0.20%	97.06%
44.0	58.200	4.638	2211.434	0.18%	97.27%
45.0	53.305	4.285	2215.719	0.17%	97.46%
46.0	48.443	3.979	2219.698	0.16%	97.63%
47.0	44.271	3.687	2223.386	0.14%	97.79%
48.0	40.368	3.422	2226.807	0.13%	97.95%
49.0	36.886	3.172	2229.98	0.12%	98.08%
50.0	33.870	2.950	2232.93	0.12%	98.21%
51.0	30.900	2.740	2235.67	0.11%	98.33%
52.0	28.338	2.542	2238.212	0.10%	98.45%
53.0	26.202	2.372	2240.584	0.09%	98.55%
54.0	24.317	2.227	2242.811	0.09%	98.65%
55.0	22.365	2.084	2244.895	0.08%	98.74%
56.0	20.808	1.951	2246.846	0.08%	98.83%
57.0	19.534	1.845	2248.69	0.07%	98.91%
58.0	18.088	1.740	2250.43	0.07%	98.98%
59.0	17.103	1.645	2252.075	0.06%	99.06%
60.0	16.005	1.564	2253.639	0.06%	99.13%
61.0	15.079	1.483	2255.123	0.06%	99.19%
62.0	14.146	1.408	2256.531	0.06%	99.25%
63.0	13.200	1.330	2257.861	0.05%	99.31%
64.0	12.497	1.261	2259.122	0.05%	99.37%
65.0	11.741	1.200	2260.321	0.05%	99.42%
66.0	11.005	1.135	2261.456	0.04%	99.47%
67.0	10.309	1.072	2262.528	0.04%	99.52%
68.0	9.632	1.010	2263.538	0.04%	99.56%
69.0	8.982	0.950	2264.488	0.04%	99.60%
70.0	8.318	0.888	2265.376	0.03%	99.64%
71.0	7.720	0.829	2266.205	0.03%	99.68%
72.0	7.089	0.770	2266.975	0.03%	99.71%
73.0	6.537	0.713	2267.688	0.03%	99.74%
74.0	6.012	0.660	2268.348	0.03%	99.77%
75.0	5.480	0.607	2268.955	0.02%	99.80%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.033	0.558	2269.513	0.02%	99.82%
77.0	4.632	0.515	2270.028	0.02%	99.85%
78.0	4.238	0.475	2270.503	0.02%	99.87%
79.0	3.804	0.432	2270.935	0.02%	99.89%
80.0	3.463	0.392	2271.327	0.02%	99.90%
81.0	3.127	0.356	2271.683	0.01%	99.92%
82.0	2.786	0.321	2272.004	0.01%	99.93%
83.0	2.470	0.286	2272.29	0.01%	99.95%
84.0	2.181	0.253	2272.543	0.01%	99.96%
85.0	1.932	0.224	2272.767	0.01%	99.97%
86.0	1.695	0.198	2272.966	0.01%	99.98%
87.0	1.478	0.174	2273.139	0.01%	99.98%
88.0	1.255	0.150	2273.289	0.01%	99.99%
89.0	1.051	0.126	2273.415	0.00%	100.00%
90.0	0.972	0.111	2273.526	0.00%	100.00%

Zonal flux distribution table

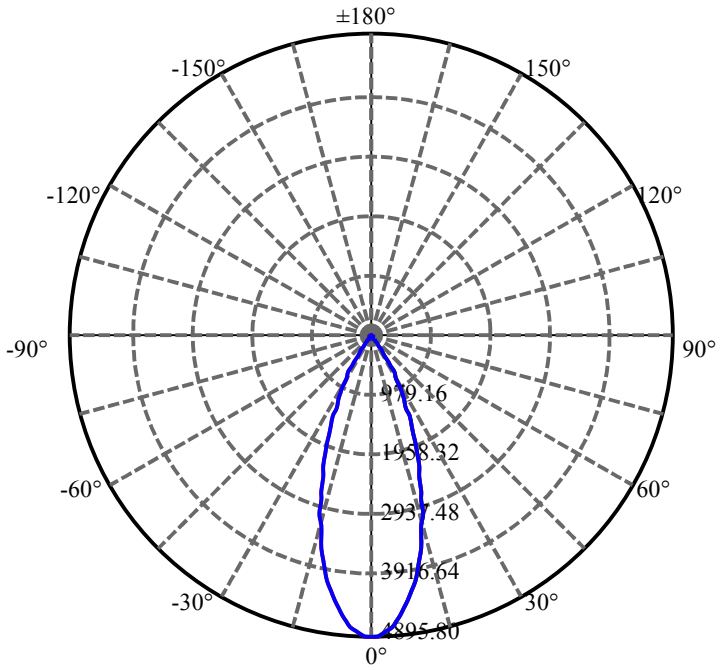
ZONAL LUMEN SUMMARY

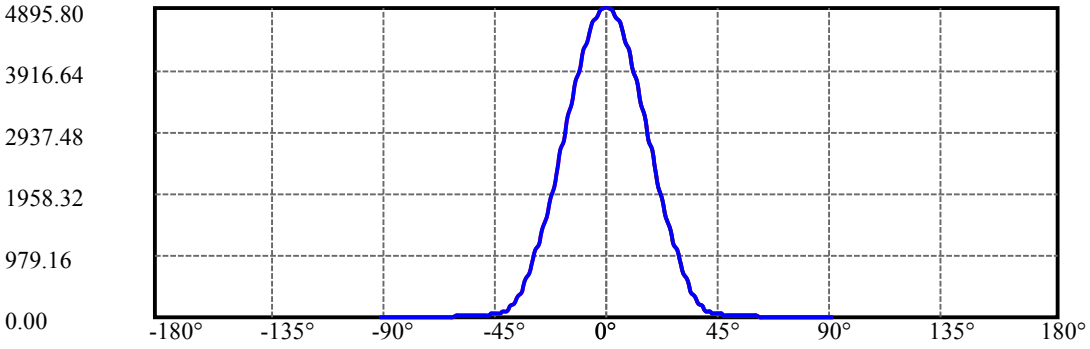
Zone	Lumens	%Lamp	%Fixt
0-30	1961.07	76.69%	86.26%
0-40	2190.02	85.65%	96.33%
0-60	2253.64	88.14%	99.13%
0-90	2273.42	88.91%	100.00%
0-120	2273.42	88.91%	100.00%
0-180	2273.53	88.91%	100.00%
60-90	19.78	0.77%	0.87%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.25	1818.82	71.13%	80.00%

ZONAL LUMEN SUMMARY

0-10	426.45
10-20	872.60
20-30	662.02
30-40	228.95
40-50	42.91
50-60	20.71
60-70	11.74
70-80	5.95
80-90	2.09
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):

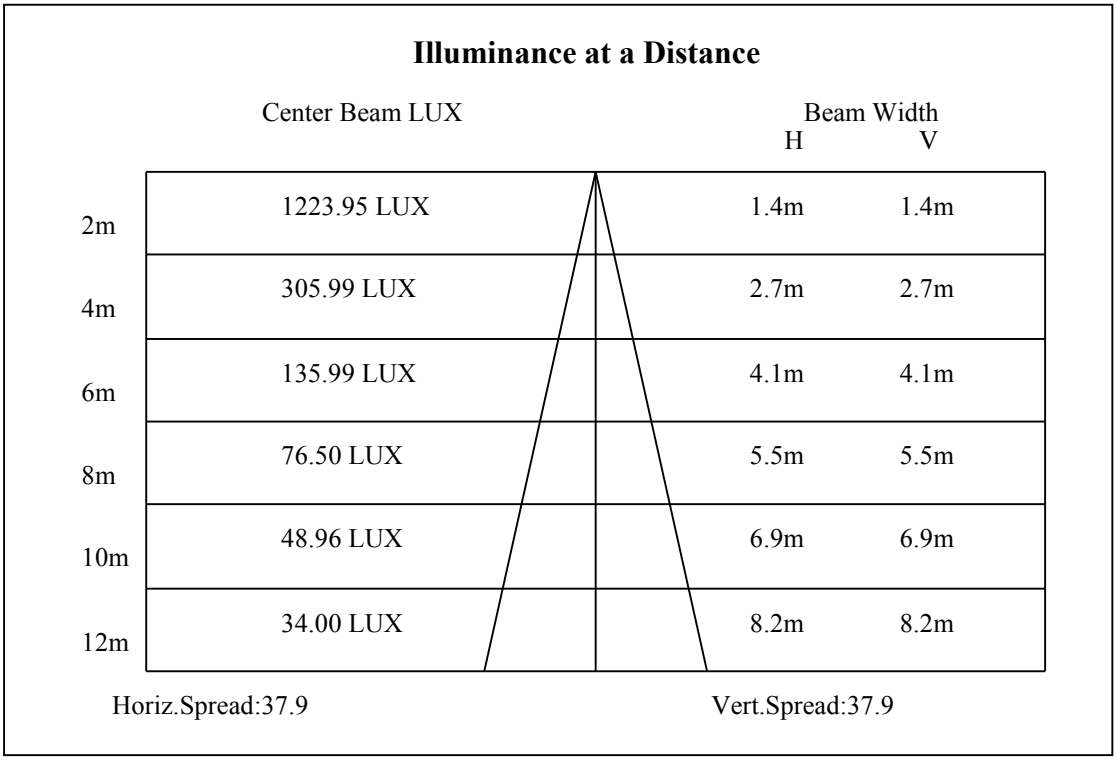
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:33.1 Right:33.1
:C90/270Left:33.1 Right:33.1

Beam Angle(50%Imax):C0/180Left:18.9 Right:18.9
:C90/270Left:18.9 Right:18.9

Lux distance Curve

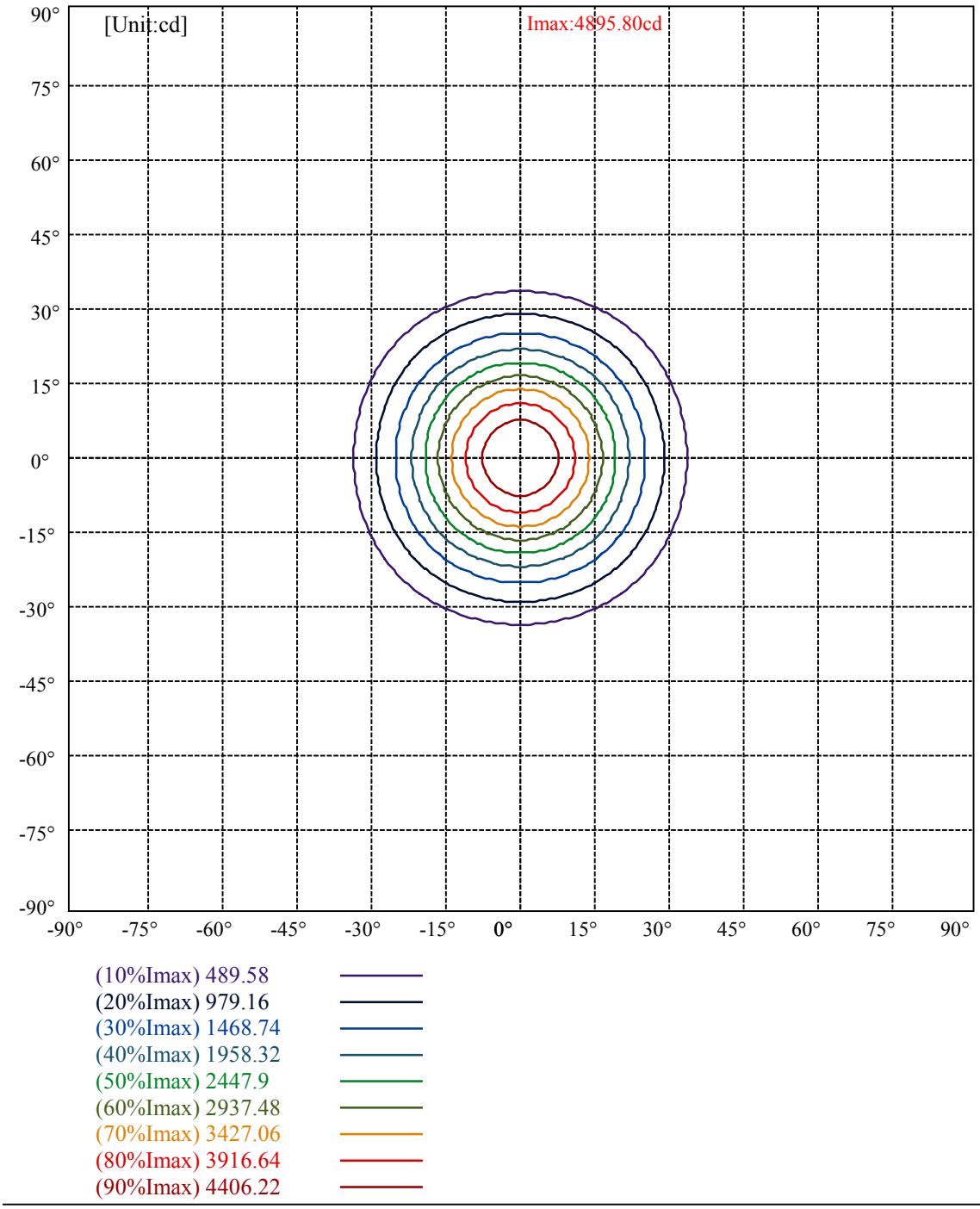


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/6
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO-Intensity(V-H)



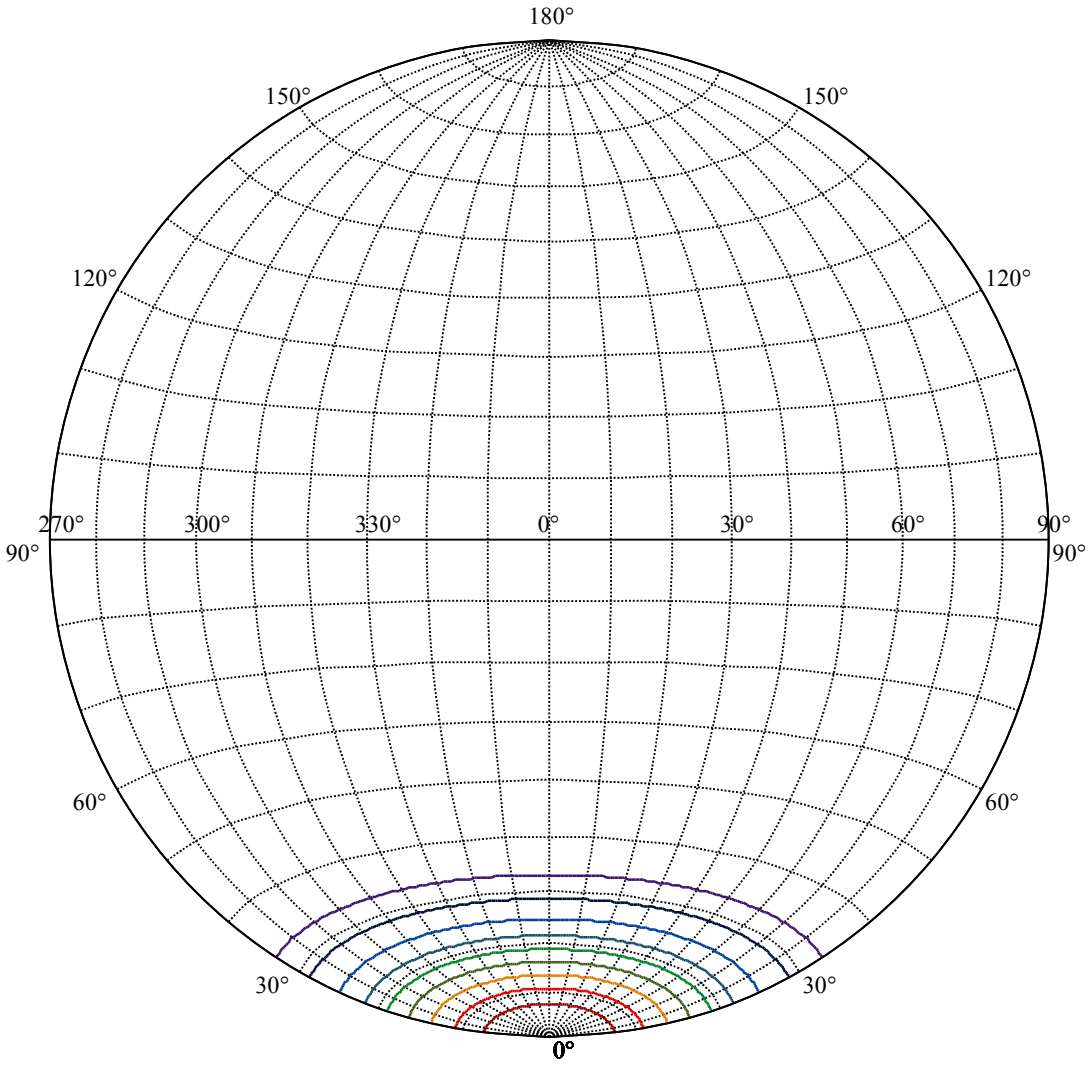
(10%Imax) 489.58
(20%Imax) 979.16
(30%Imax) 1468.74
(40%Imax) 1958.32
(50%Imax) 2447.9
(60%Imax) 2937.48
(70%Imax) 3427.06
(80%Imax) 3916.64
(90%Imax) 4406.22

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/6
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:4895.80

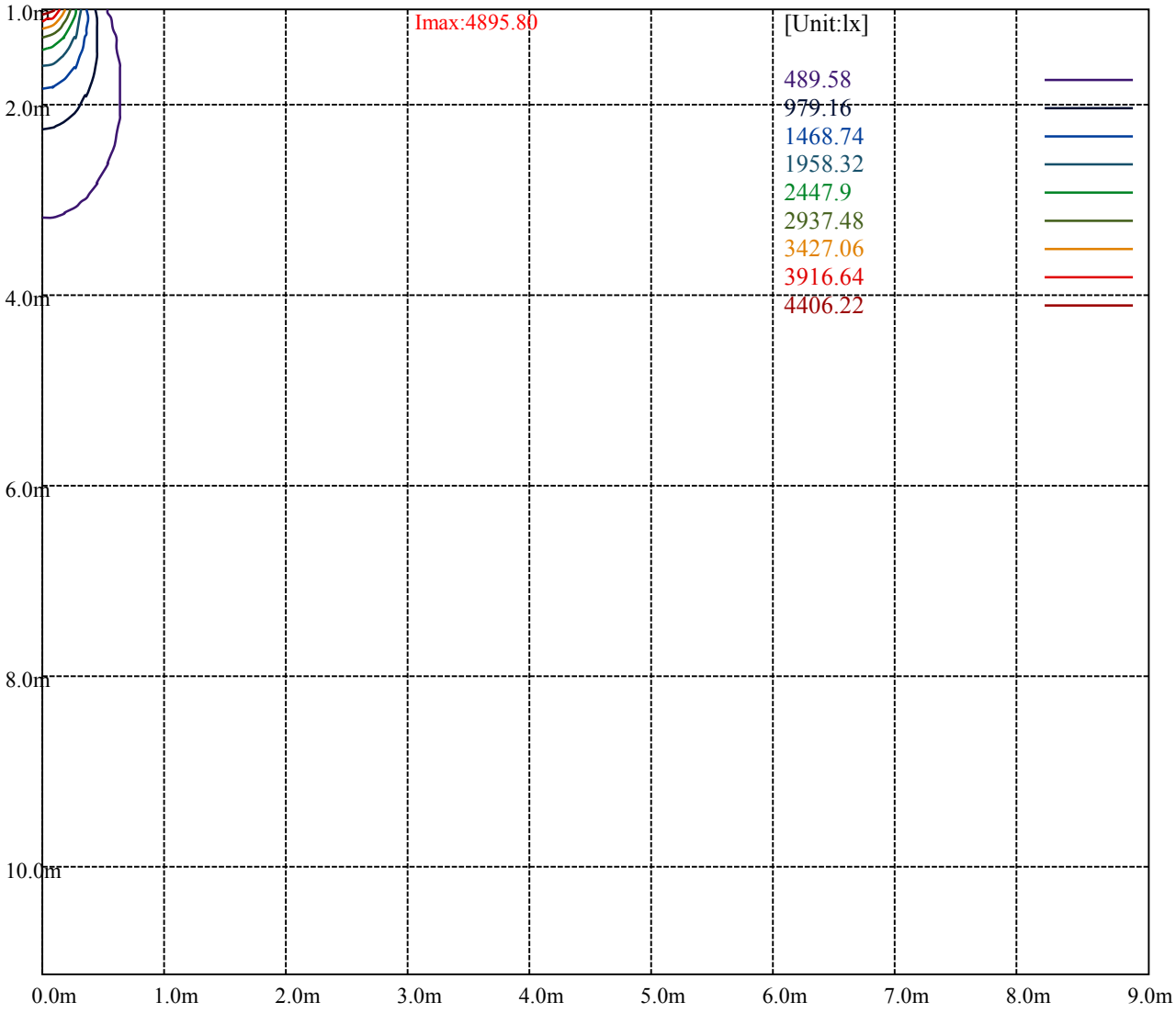
(10%Imax) 489.58
(20%Imax) 979.16
(30%Imax) 1468.74
(40%Imax) 1958.32
(50%Imax) 2447.9
(60%Imax) 2937.48
(70%Imax) 3427.06
(80%Imax) 3916.64
(90%Imax) 4406.22

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/6
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/6
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2456-L

Luminance Limitting Curve(no luminous side)

Luminance Table

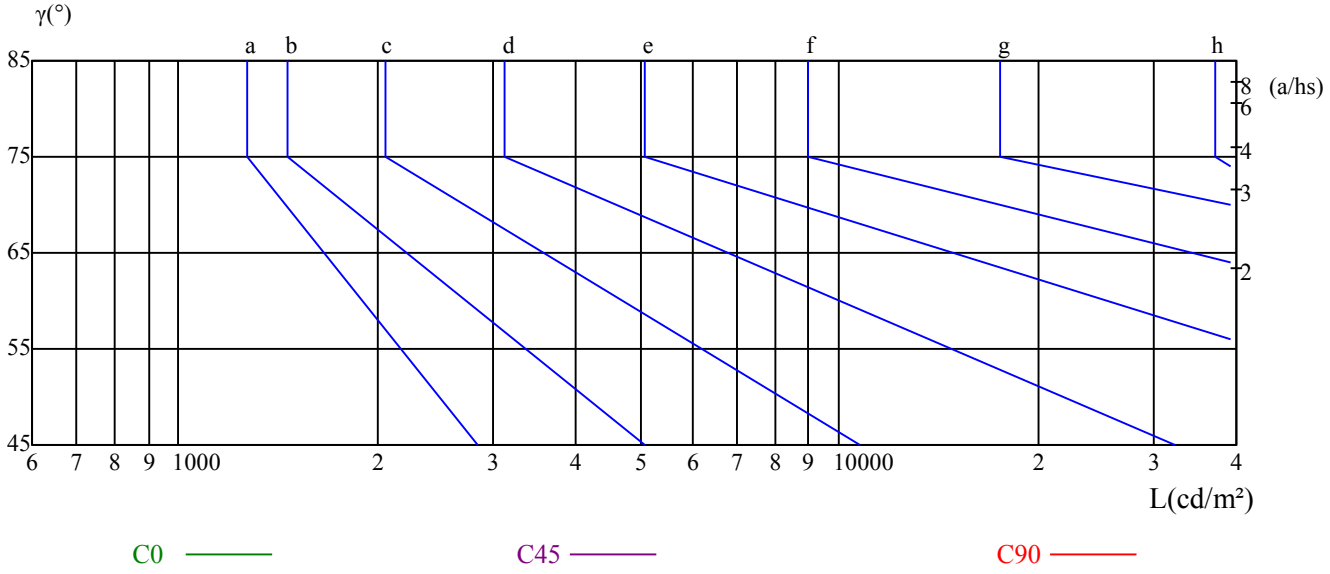
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

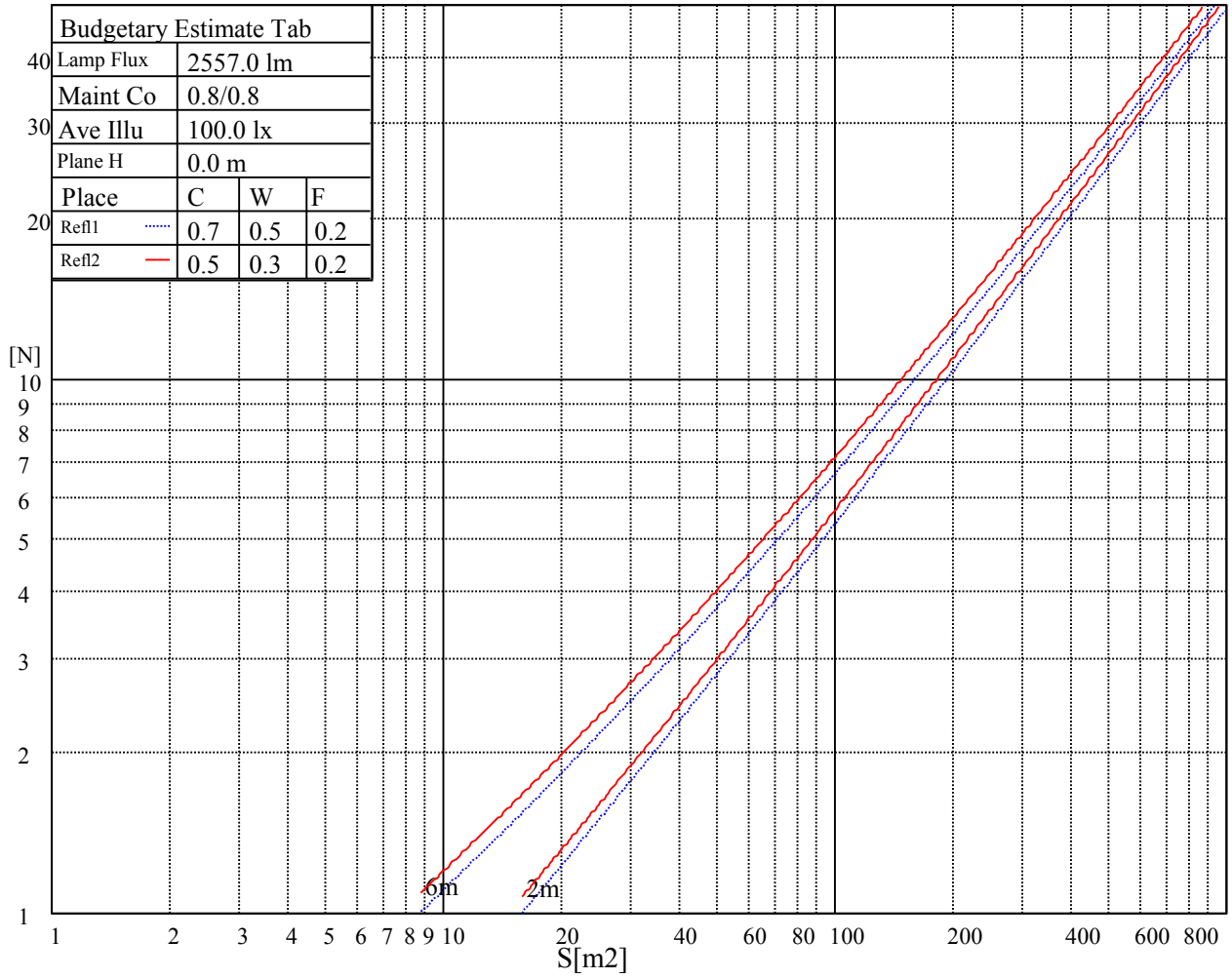
Date: 2024/9/6
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

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

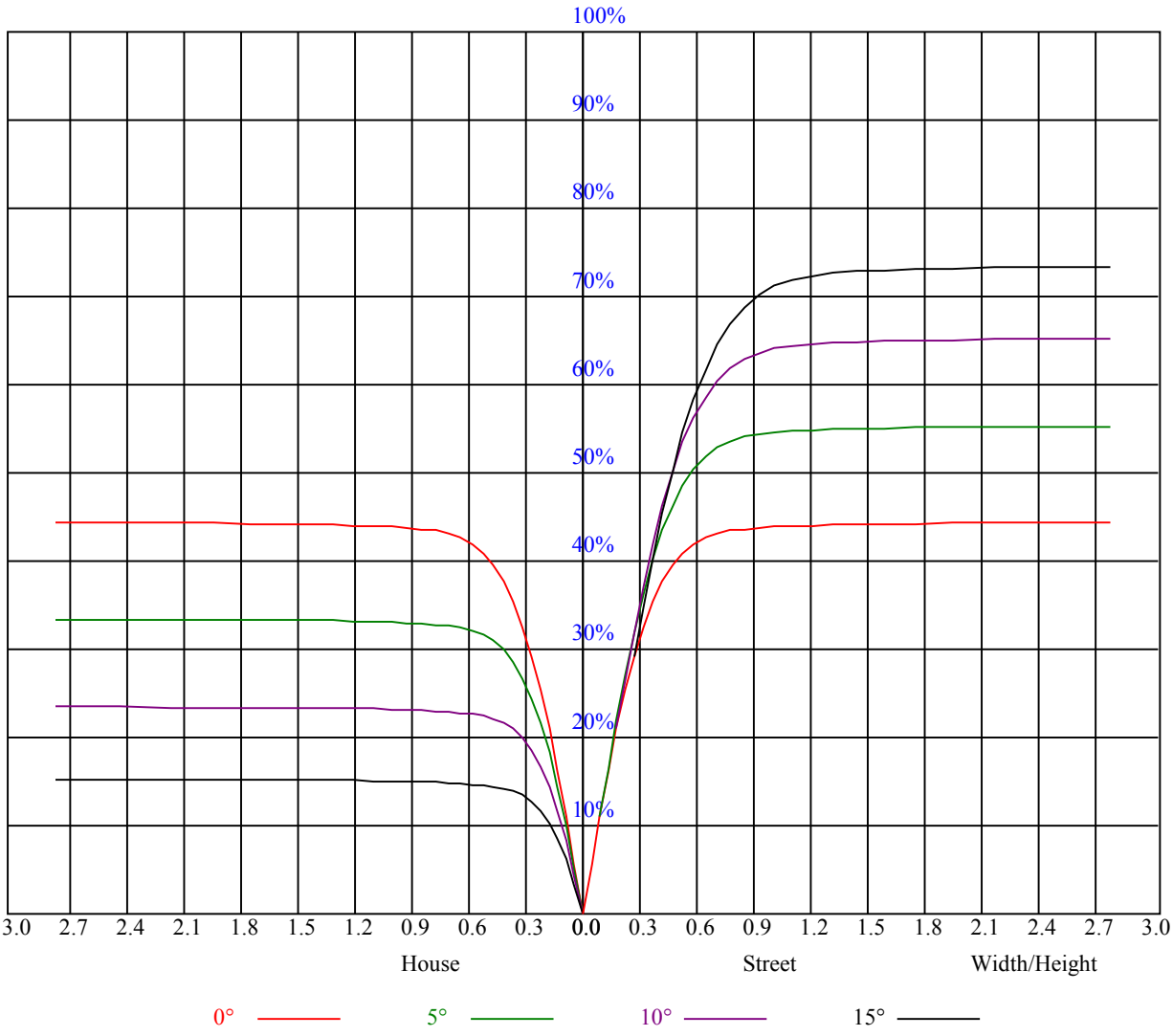
Date: 2024/9/6
Humidity(%): 60.0%

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	1.06	1.06	1.06	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	0.99	0.97	0.95	0.97	0.96	0.94	0.94	0.92	0.91	0.90	0.89	0.88	0.87	0.87	0.86	0.84
2	0.93	0.90	0.88	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.84	0.83	0.81	0.80
3	0.88	0.84	0.81	0.87	0.83	0.81	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
4	0.83	0.79	0.76	0.83	0.79	0.76	0.81	0.77	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.72
5	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.72	0.70	0.74	0.72	0.69	0.68
6	0.75	0.71	0.68	0.75	0.70	0.67	0.74	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
7	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
8	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.59
9	0.66	0.61	0.58	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
10	0.63	0.59	0.56	0.63	0.58	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.58	0.55	0.54

Coefficient Utilization Curve

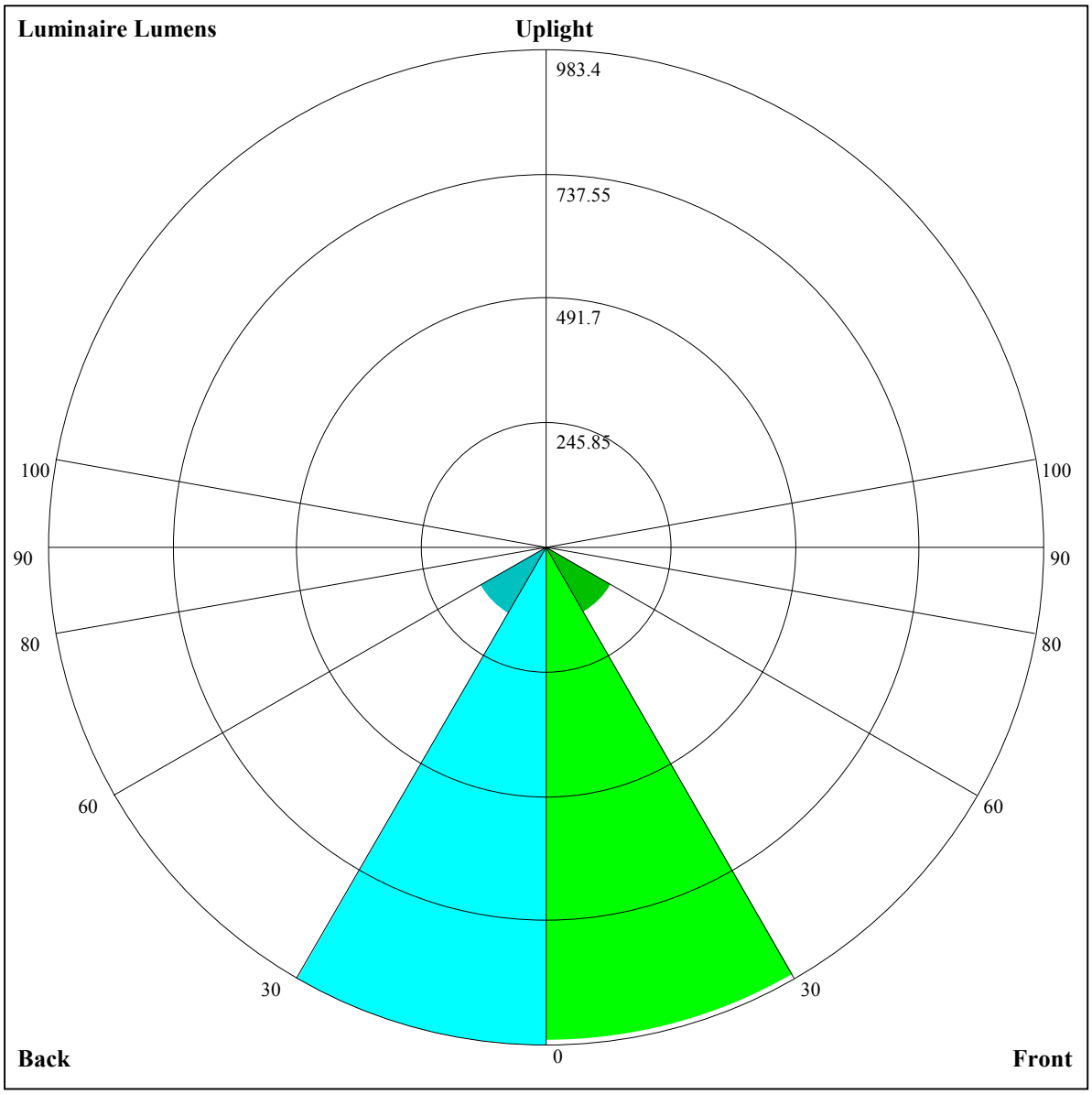


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/6
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

LCS Graph



Luminaire Lumens:

FL=974.86,FM=147.51,FH=8.85,FVH=1.09

BL=983.4,BM=151.2,BH=8.94,BVH=1.12

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	4887.16	4865.45	4820.87	4766.84	4688.84	4596.91	4493.83	4370.68	4238.06
45.0	4901.09	4882.69	4871.55	4811.41	4772.94	4698.82	4609.68	4500.51	4381.24
90.0	4888.84	4852.04	4805.26	4727.26	4643.11	4544.50	4422.50	4291.57	4138.88
135.0	4906.13	4893.31	4866.55	4816.99	4745.08	4666.55	4565.68	4445.32	4309.39
180.0	4887.16	4891.62	4880.48	4848.15	4792.44	4744.55	4673.23	4566.79	4460.40
225.0	4901.09	4877.69	4863.77	4808.63	4746.76	4660.40	4575.72	4464.82	4339.45
270.0	4888.84	4902.19	4894.99	4868.76	4842.58	4790.76	4720.59	4638.69	4542.82
315.0	4906.13	4897.77	4872.12	4825.34	4765.16	4677.69	4587.97	4492.15	4367.31
360.0	4887.16	4865.45	4820.87	4766.84	4688.84	4596.91	4493.83	4370.68	4238.06

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4085.95	3916.01	3748.34	3566.68	3376.72	3197.85	3081.42	2821.77	2631.75
45.0	4235.85	4083.16	3911.60	3741.08	3565.00	3381.71	3195.06	3011.20	2811.73
90.0	3977.30	3805.74	3636.33	3458.03	3274.75	3087.00	2889.20	2692.51	2493.62
135.0	4198.53	4008.52	3879.80	3706.55	3537.72	3356.06	3170.57	2976.09	2783.87
180.0	4336.67	4187.92	4028.60	3867.02	3682.58	3508.18	3333.25	3140.45	2951.02
225.0	4197.38	4043.63	3875.38	3699.30	3521.58	3339.35	3155.48	2971.62	2781.08
270.0	4432.54	4304.92	4155.07	4005.74	3829.65	3655.30	3479.22	3298.72	3114.28
315.0	4238.64	4093.20	3932.73	3760.58	3572.25	3464.18	3210.68	3096.46	2922.63
360.0	4085.95	3916.01	3748.34	3566.68	3376.72	3197.85	3081.42	2821.77	2631.75

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2513.12	2255.67	2146.49	1970.41	1805.52	1654.51	1519.11	1389.28	1082.16
45.0	2612.83	2413.35	2216.67	2025.02	1845.63	1718.58	1538.61	1402.68	1299.61
90.0	2325.31	2129.20	1911.38	1773.72	1614.93	1472.85	1340.29	1079.06	1079.06
135.0	2581.61	2381.61	2179.35	1991.01	1813.88	1651.15	1512.43	1377.03	1241.11
180.0	2753.22	2556.53	2354.85	2161.53	1978.77	1875.69	1658.40	1515.22	1440.58
225.0	2665.18	2393.33	2280.21	2090.78	1906.91	1747.02	1600.48	1464.50	1334.14
270.0	2929.83	2747.65	2558.22	2372.15	2189.96	2012.78	1848.94	1757.58	1615.51
315.0	2736.51	2545.39	2359.90	2171.57	1992.17	1833.38	1683.47	1549.23	1416.61
360.0	2513.12	2255.67	2146.49	1970.41	1805.52	1654.51	1519.11	1389.28	1082.16

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1082.16	1004.31	873.38	747.44	633.54	528.62	434.27	351.01	290.30
45.0	1169.78	1042.73	909.59	784.76	670.01	566.36	473.33	385.86	310.07
90.0	947.75	822.55	711.22	603.31	505.65	418.34	370.36	269.70	230.70
135.0	1157.53	964.73	835.48	765.26	657.77	557.48	466.65	384.18	311.75
180.0	1258.92	1181.50	1048.31	910.12	789.23	676.11	571.41	477.79	390.85
225.0	1052.77	1052.77	916.11	788.65	669.38	561.10	464.13	375.77	327.78
270.0	1431.07	1351.96	1219.34	1080.63	941.34	813.19	692.30	579.76	478.32
315.0	1100.40	1045.63	1045.63	882.63	778.08	659.97	551.80	455.87	372.04
360.0	1082.16	1004.31	873.38	747.44	633.54	528.62	434.27	351.01	290.30

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	222.44	165.78	124.15	97.50	84.47	75.64	67.81	61.29	55.77
45.0	296.14	224.91	155.16	105.97	93.88	81.89	69.86	65.55	59.55
90.0	174.40	116.37	100.45	84.63	74.85	67.33	60.87	55.24	50.30
135.0	283.89	224.55	133.40	101.71	85.05	75.11	67.28	60.76	55.24
180.0	316.22	288.36	227.70	137.92	106.07	88.83	78.84	72.17	65.49
225.0	257.50	173.61	145.28	110.38	90.09	79.00	70.33	63.60	57.71
270.0	387.54	307.28	307.28	164.63	136.08	94.03	80.79	75.16	63.92
315.0	295.19	226.60	167.67	122.31	93.09	80.26	71.59	63.71	57.61
360.0	222.44	165.78	124.15	97.50	84.47	75.64	67.81	61.29	55.77

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	50.83	46.36	42.16	38.42	35.01	32.01	29.33	27.02	24.81
45.0	54.14	49.20	44.89	40.84	37.32	33.90	31.01	28.28	25.97
90.0	45.73	41.63	37.90	34.43	31.43	28.75	26.33	24.18	22.39
135.0	51.14	45.57	42.16	38.32	34.69	31.59	28.75	26.33	24.07
180.0	59.45	54.30	49.72	45.41	41.47	37.95	34.69	31.91	29.22
225.0	52.83	48.25	44.26	40.47	37.32	34.22	31.43	28.80	26.65
270.0	59.97	54.51	49.57	45.41	41.52	38.11	35.11	32.22	29.86
315.0	52.35	47.73	43.52	39.63	36.32	34.43	30.54	27.96	26.65
360.0	50.83	46.36	42.16	38.42	35.01	32.01	29.33	27.02	24.81

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.97	21.34	19.87	19.08	17.40	16.71	15.72	14.82	13.93
45.0	23.81	21.92	20.29	18.92	17.66	16.71	15.45	14.77	13.82
90.0	20.97	19.24	17.87	16.98	15.72	14.93	14.03	13.14	12.35
135.0	22.02	20.29	18.76	17.35	16.03	14.98	13.98	13.04	12.14
180.0	26.91	24.81	23.07	21.34	19.76	18.45	17.24	16.03	15.45
225.0	25.49	22.86	21.45	20.60	18.82	18.19	17.03	15.82	14.77
270.0	27.75	25.70	23.97	22.34	20.92	19.71	18.50	17.92	16.56
315.0	24.60	22.76	21.18	19.66	18.40	17.14	16.08	15.09	14.14
360.0	22.97	21.34	19.87	19.08	17.40	16.71	15.72	14.82	13.93

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.09	12.35	11.62	10.83	10.20	9.51	8.83	8.04	7.41
45.0	12.72	12.09	11.46	10.72	10.04	9.15	8.52	7.88	7.31
90.0	11.56	10.88	10.20	9.46	8.83	8.20	7.57	6.94	6.36
135.0	11.35	10.72	10.04	9.67	8.78	8.52	7.94	7.52	6.94
180.0	14.03	13.40	12.62	11.46	11.04	10.30	9.62	8.94	8.30
225.0	13.98	13.04	12.40	11.46	10.72	9.88	9.25	8.46	7.83
270.0	15.61	15.09	13.88	13.40	12.56	11.83	11.09	10.30	9.51
315.0	13.25	12.40	11.72	11.04	10.30	9.67	9.04	8.46	8.09
360.0	13.09	12.35	11.62	10.83	10.20	9.51	8.83	8.04	7.41

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.78	6.10	5.62	5.15	4.78	4.52	3.94	3.47	3.31
45.0	6.78	6.15	5.73	5.26	4.84	4.36	3.99	3.63	3.31
90.0	5.83	5.41	4.89	4.47	4.10	3.73	3.42	2.94	2.63
135.0	6.52	6.04	5.62	5.15	4.73	4.36	3.99	3.57	3.21
180.0	7.62	6.99	6.52	5.94	5.47	4.99	4.63	4.21	3.78
225.0	7.15	6.68	5.99	5.57	5.15	4.73	4.47	3.89	3.57
270.0	8.78	8.04	7.36	6.57	5.89	5.41	4.94	4.57	4.10
315.0	7.25	6.89	6.36	5.73	5.31	4.94	4.52	4.15	3.78
360.0	6.78	6.10	5.62	5.15	4.78	4.52	3.94	3.47	3.31

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.94	2.52	2.31	2.00	1.84	1.52	1.42	1.26	1.00
45.0	2.89	2.52	2.26	2.00	1.68	1.47	1.21	1.05	0.79
90.0	2.42	2.10	1.84	1.68	1.42	1.26	1.10	0.79	0.68
135.0	2.89	2.63	2.26	2.00	1.79	1.58	1.31	1.16	0.79
180.0	3.42	3.15	2.73	2.42	2.16	1.89	1.68	1.42	1.31
225.0	3.26	2.94	2.63	2.31	2.05	1.84	1.52	1.31	1.16
270.0	3.78	3.42	3.00	2.63	2.37	2.05	1.84	1.58	1.37
315.0	3.42	3.00	2.73	2.42	2.16	1.94	1.73	1.47	1.31
360.0	2.94	2.52	2.31	2.00	1.84	1.52	1.42	1.26	1.00

Intensity data(cd)

C/γ(°)	90.0
0.0	0.79
45.0	0.84
90.0	0.79
135.0	0.84
180.0	1.00
225.0	1.05
270.0	1.26
315.0	1.21
360.0	0.79