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Nata

Client:
LumCAT: 2-2518-L
Luminaire: 92.70.411.00
Report No: 2024831-B013
Ballast type: AC

Test No: 2024831-C013	Voltage(V): 36.440
LampCAT: LUMILEDS LUXEON CoB 1205	Current(A): 0.598
Lamp flux(lm): 2551.0	Power (W): 21.790
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2365.28, Efficiency(%): 92.72% , Luminous Efficacy(lm/W): 108.55
Central intensity(cd): 13467.200, Maximum intensity(cd): 13467.200
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=17.6
[C90/270]Total=17.6
Field angle(10%Imax): [C0/180]Total=44.4
[C90/270]Total=44.4
Maximum s/h(1/2): C0_180=0.30 C90_270=0.30
Maximum s/h(1/4): C0_180=0.32 C90_270=0.32
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.72%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.213%

Nata 2-2518-L

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	13467.196	0.000	0	0.00%	0.00%
1.0	13329.995	12.822	12.822	0.50%	0.54%
2.0	12679.928	37.332	50.154	1.46%	2.12%
3.0	12125.236	59.326	109.48	2.33%	4.63%
4.0	11487.771	79.040	188.52	3.10%	7.97%
5.0	10570.989	94.896	283.416	3.72%	11.98%
6.0	9669.016	106.367	389.782	4.17%	16.48%
7.0	8536.577	113.002	502.784	4.43%	21.26%
8.0	7632.870	115.722	618.506	4.54%	26.15%
9.0	6505.523	114.584	733.09	4.49%	30.99%
10.0	5656.540	110.062	843.152	4.31%	35.65%
11.0	4857.984	105.062	948.214	4.12%	40.09%
12.0	4141.544	98.378	1046.591	3.86%	44.25%
13.0	3582.640	91.667	1138.258	3.59%	48.12%
14.0	3136.562	86.005	1224.263	3.37%	51.76%
15.0	2792.166	81.392	1305.655	3.19%	55.20%
16.0	2500.530	77.553	1383.208	3.04%	58.48%
17.0	2263.000	74.181	1457.389	2.91%	61.62%
18.0	2053.393	71.168	1528.557	2.79%	64.62%
19.0	1833.150	67.618	1596.175	2.65%	67.48%
20.0	1671.087	64.137	1660.312	2.51%	70.20%
21.0	1528.872	61.446	1721.758	2.41%	72.79%
22.0	1368.655	58.227	1779.985	2.28%	75.25%
23.0	1253.221	55.014	1834.999	2.16%	77.58%
24.0	1139.194	52.307	1887.306	2.05%	79.79%
25.0	1061.322	50.035	1937.341	1.96%	81.91%
26.0	957.774	47.661	1985.002	1.87%	83.92%
27.0	852.761	44.295	2029.297	1.74%	85.80%
28.0	757.399	40.766	2070.063	1.60%	87.52%
29.0	666.414	37.251	2107.314	1.46%	89.09%
30.0	571.236	33.416	2140.73	1.31%	90.51%
31.0	490.559	29.548	2170.278	1.16%	91.76%
32.0	414.370	25.925	2196.203	1.02%	92.85%
33.0	345.237	22.378	2218.582	0.88%	93.80%
34.0	292.556	19.302	2237.883	0.76%	94.61%
35.0	232.918	16.319	2254.202	0.64%	95.30%
36.0	206.104	13.979	2268.181	0.55%	95.89%
37.0	154.869	11.773	2279.954	0.46%	96.39%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	115.913	9.038	2288.992	0.35%	96.77%
39.0	93.390	7.144	2296.136	0.28%	97.08%
40.0	76.005	5.908	2302.044	0.23%	97.33%
41.0	59.908	4.840	2306.884	0.19%	97.53%
42.0	51.268	4.039	2310.923	0.16%	97.70%
43.0	43.817	3.522	2314.445	0.14%	97.85%
44.0	38.259	3.098	2317.543	0.12%	97.98%
45.0	33.975	2.776	2320.319	0.11%	98.10%
46.0	30.624	2.526	2322.846	0.10%	98.21%
47.0	27.904	2.328	2325.173	0.09%	98.30%
48.0	25.591	2.163	2327.336	0.08%	98.40%
49.0	23.752	2.026	2329.362	0.08%	98.48%
50.0	22.083	1.911	2331.273	0.07%	98.56%
51.0	20.605	1.806	2333.079	0.07%	98.64%
52.0	19.422	1.718	2334.797	0.07%	98.71%
53.0	18.443	1.647	2336.444	0.06%	98.78%
54.0	17.562	1.587	2338.031	0.06%	98.85%
55.0	16.846	1.536	2339.567	0.06%	98.91%
56.0	16.130	1.490	2341.057	0.06%	98.98%
57.0	15.611	1.451	2342.508	0.06%	99.04%
58.0	15.020	1.416	2343.925	0.06%	99.10%
59.0	14.534	1.382	2345.306	0.05%	99.16%
60.0	14.126	1.354	2346.66	0.05%	99.21%
61.0	13.857	1.335	2347.996	0.05%	99.27%
62.0	13.502	1.318	2349.314	0.05%	99.33%
63.0	12.970	1.287	2350.602	0.05%	99.38%
64.0	12.339	1.242	2351.843	0.05%	99.43%
65.0	11.715	1.190	2353.034	0.05%	99.48%
66.0	10.933	1.130	2354.164	0.04%	99.53%
67.0	10.066	1.056	2355.22	0.04%	99.57%
68.0	9.185	0.975	2356.195	0.04%	99.62%
69.0	8.311	0.893	2357.088	0.03%	99.65%
70.0	7.536	0.814	2357.901	0.03%	99.69%
71.0	6.886	0.745	2358.647	0.03%	99.72%
72.0	6.301	0.686	2359.333	0.03%	99.75%
73.0	5.756	0.630	2359.963	0.02%	99.78%
74.0	5.269	0.580	2360.543	0.02%	99.80%
75.0	4.836	0.534	2361.077	0.02%	99.82%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.442	0.492	2361.569	0.02%	99.84%
77.0	4.166	0.459	2362.028	0.02%	99.86%
78.0	3.830	0.428	2362.456	0.02%	99.88%
79.0	3.482	0.393	2362.849	0.02%	99.90%
80.0	3.180	0.359	2363.208	0.01%	99.91%
81.0	2.891	0.328	2363.536	0.01%	99.93%
82.0	2.576	0.296	2363.833	0.01%	99.94%
83.0	2.326	0.266	2364.099	0.01%	99.95%
84.0	2.070	0.239	2364.339	0.01%	99.96%
85.0	1.827	0.213	2364.551	0.01%	99.97%
86.0	1.597	0.187	2364.738	0.01%	99.98%
87.0	1.399	0.164	2364.902	0.01%	99.98%
88.0	1.189	0.142	2365.044	0.01%	99.99%
89.0	1.058	0.123	2365.167	0.00%	100.00%
90.0	0.953	0.110	2365.278	0.00%	100.00%

Zonal flux distribution table

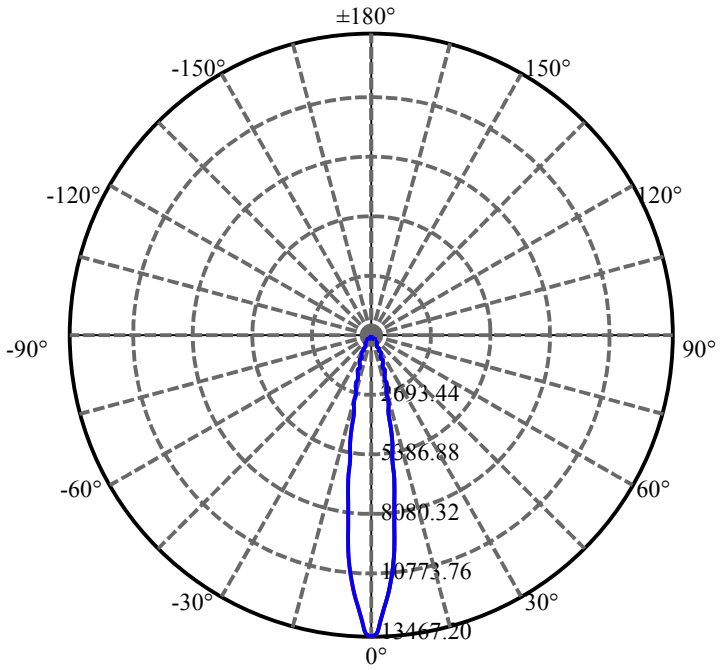
ZONAL LUMEN SUMMARY

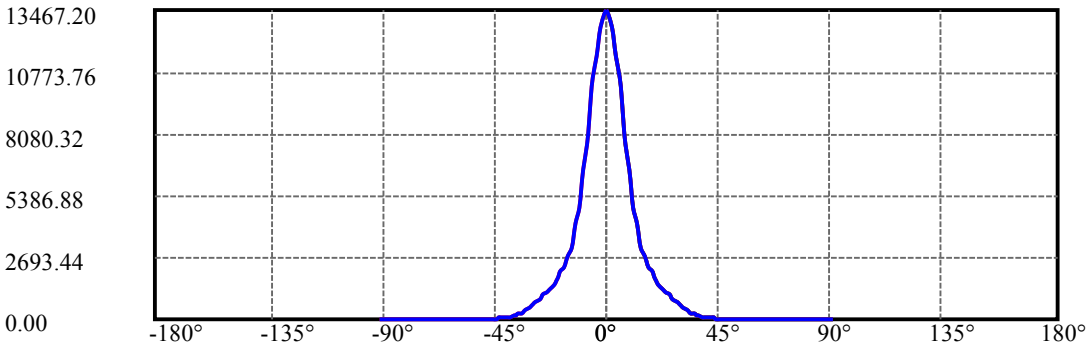
Zone	Lumens	%Lamp	%Fixt
0-30	2140.73	83.92%	90.51%
0-40	2302.04	90.24%	97.33%
0-60	2346.66	91.99%	99.21%
0-90	2365.17	92.72%	100.00%
0-120	2365.17	92.72%	100.00%
0-180	2365.28	92.72%	100.00%
60-90	18.51	0.73%	0.78%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.10	1892.22	74.18%	80.00%

ZONAL LUMEN SUMMARY

0-10	843.15
10-20	817.16
20-30	480.42
30-40	161.31
40-50	29.23
50-60	15.39
60-70	11.24
70-80	5.31
80-90	1.96
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:22.2 Right:22.2
:C90/270Left:22.2 Right:22.2

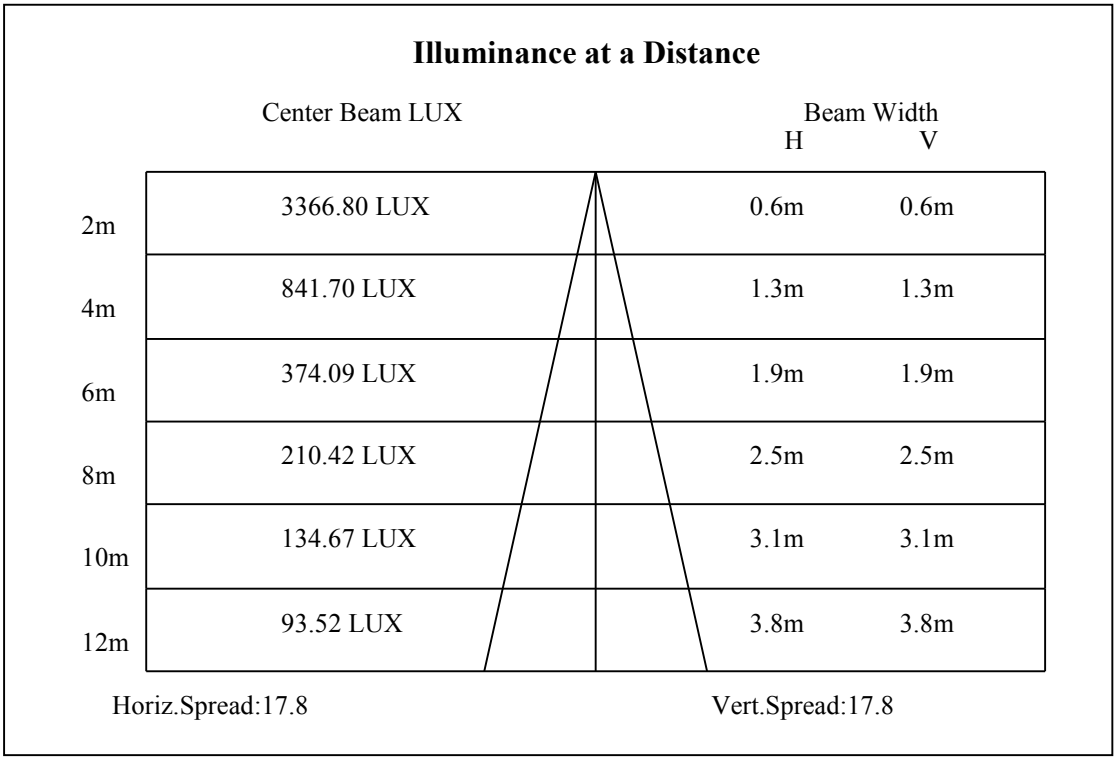
Beam Angle(50%Imax):C0/180Left:8.8 Right:8.8
:C90/270Left:8.8 Right:8.8

Equipment: GMS 1800
Temperature(°C): 25.0

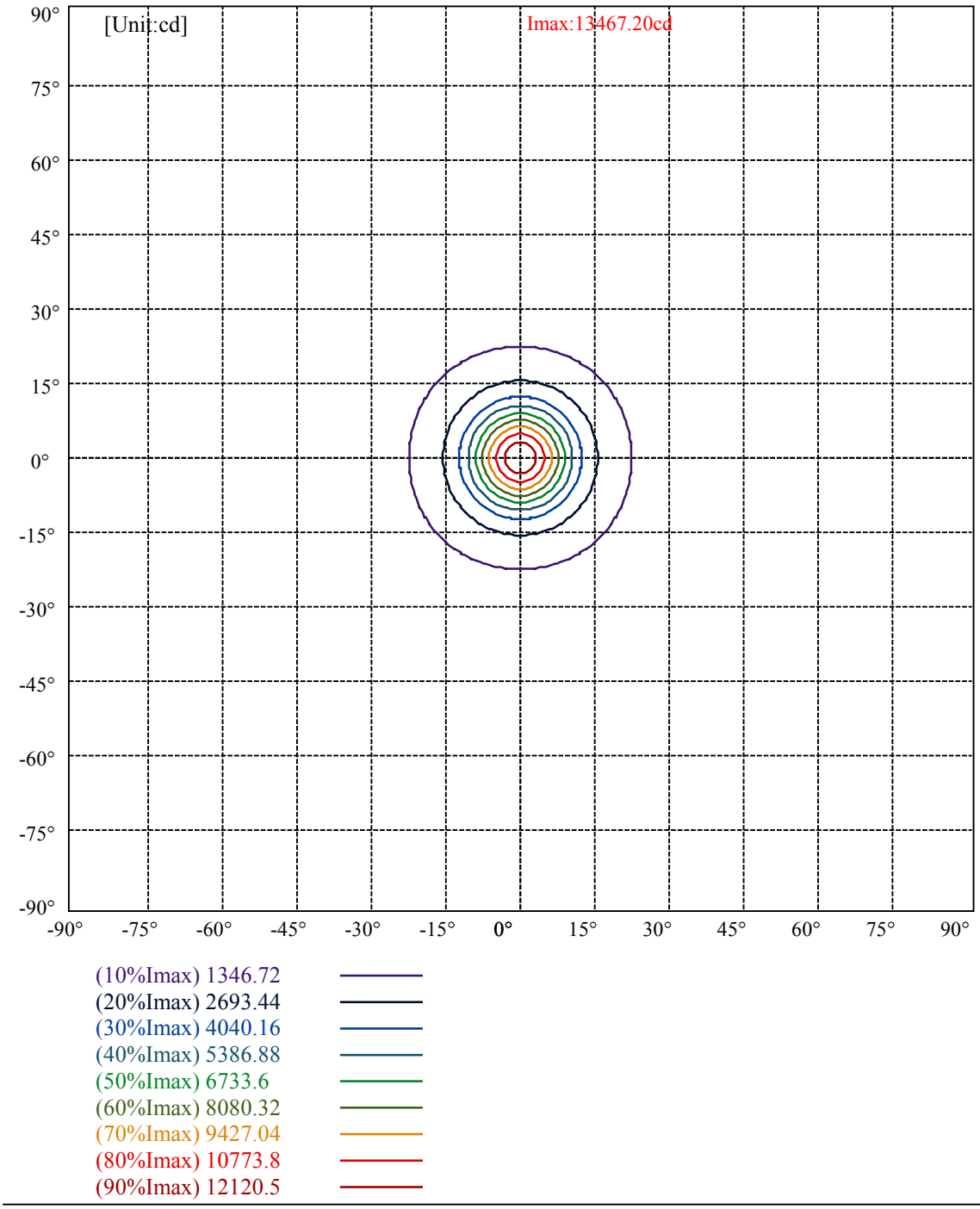
Date: 2024/8/31
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Lux distance Curve



ISO-Intensity(V-H)



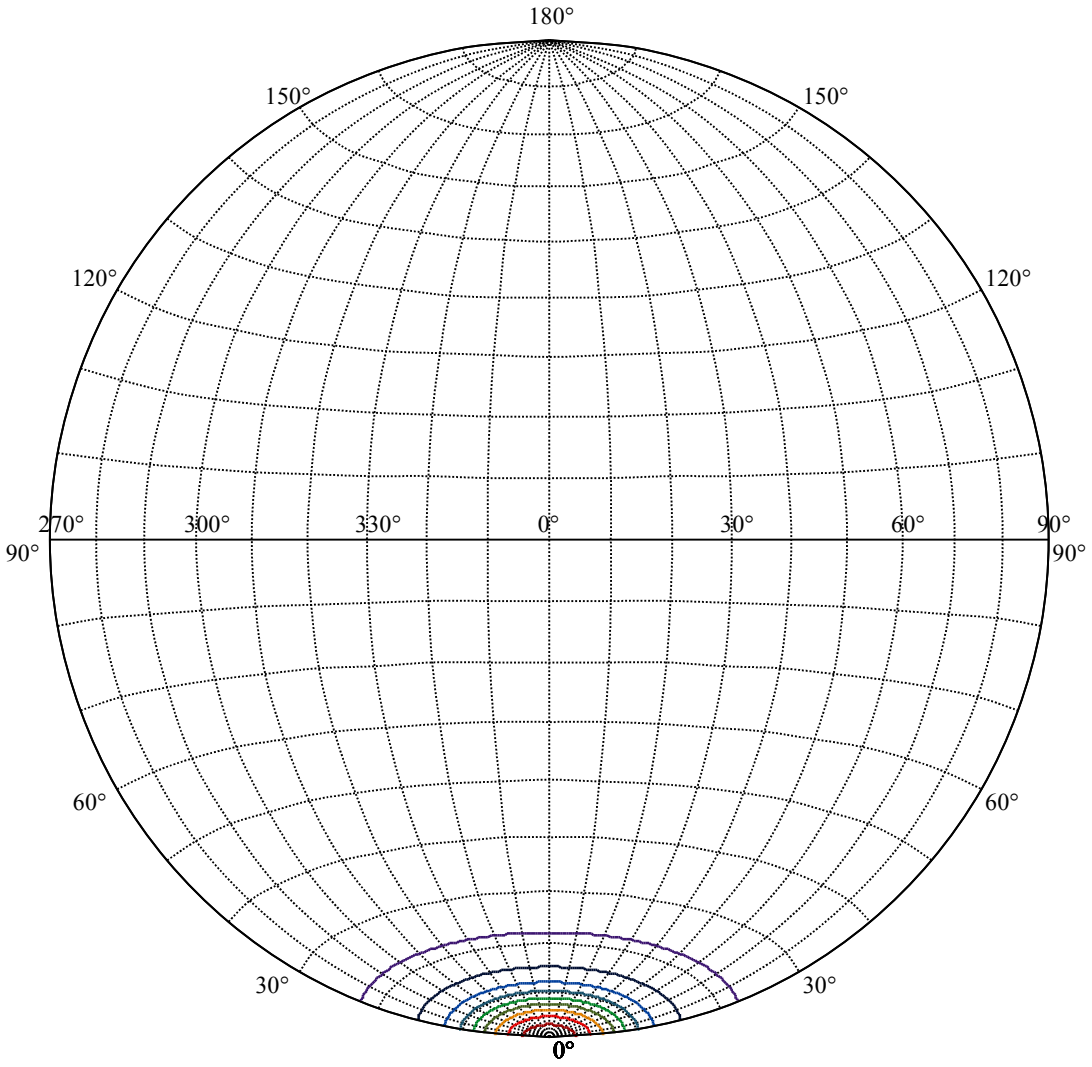
(10%Imax) 1346.72
(20%Imax) 2693.44
(30%Imax) 4040.16
(40%Imax) 5386.88
(50%Imax) 6733.6
(60%Imax) 8080.32
(70%Imax) 9427.04
(80%Imax) 10773.8
(90%Imax) 12120.5

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/31
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:13467.20

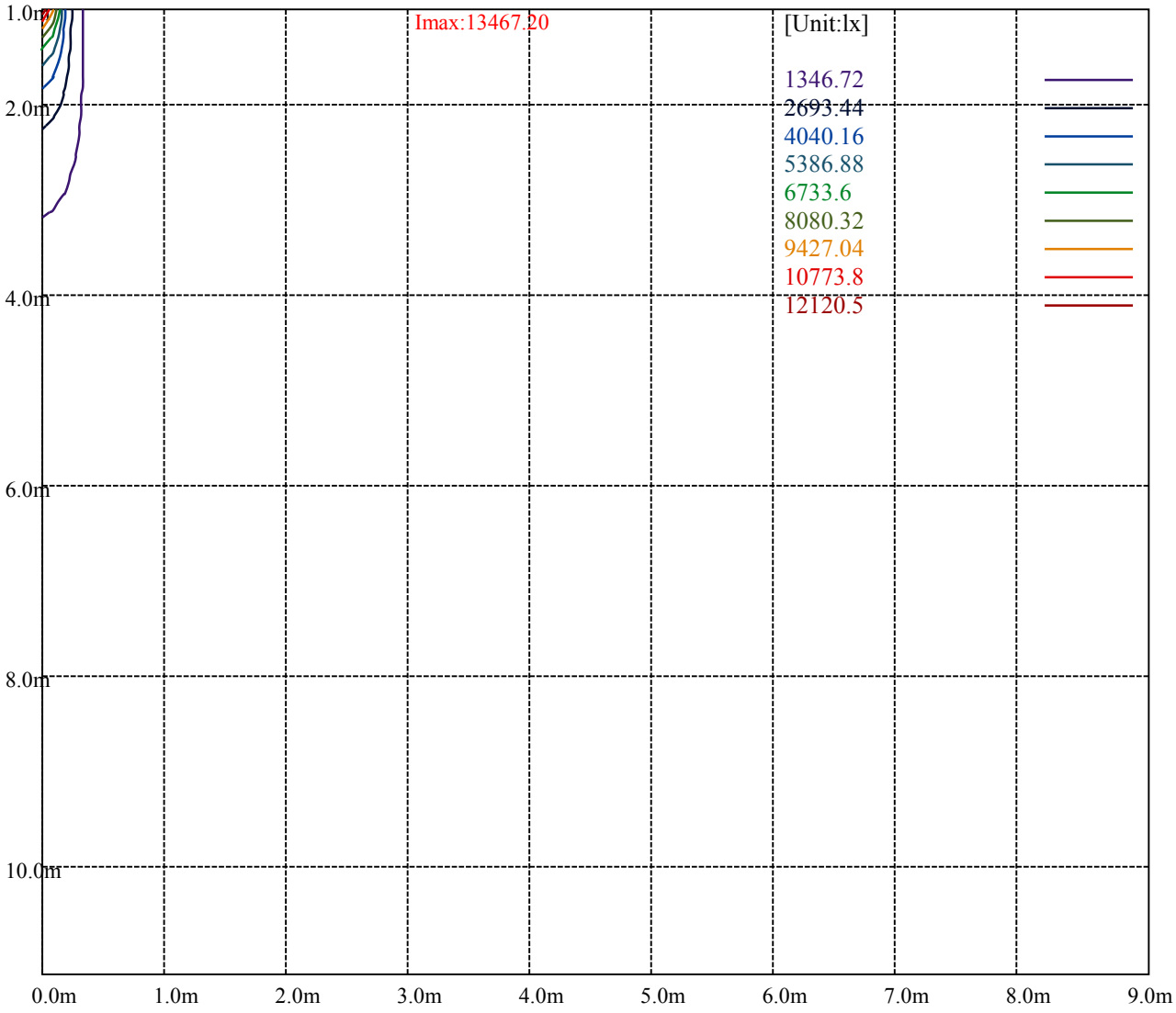
(10%Imax) 1346.72
(20%Imax) 2693.44
(30%Imax) 4040.16
(40%Imax) 5386.88
(50%Imax) 6733.6
(60%Imax) 8080.32
(70%Imax) 9427.04
(80%Imax) 10773.8
(90%Imax) 12120.5

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/31
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/31
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2518-L

Luminance Limitting Curve(no luminous side)

Luminance Table

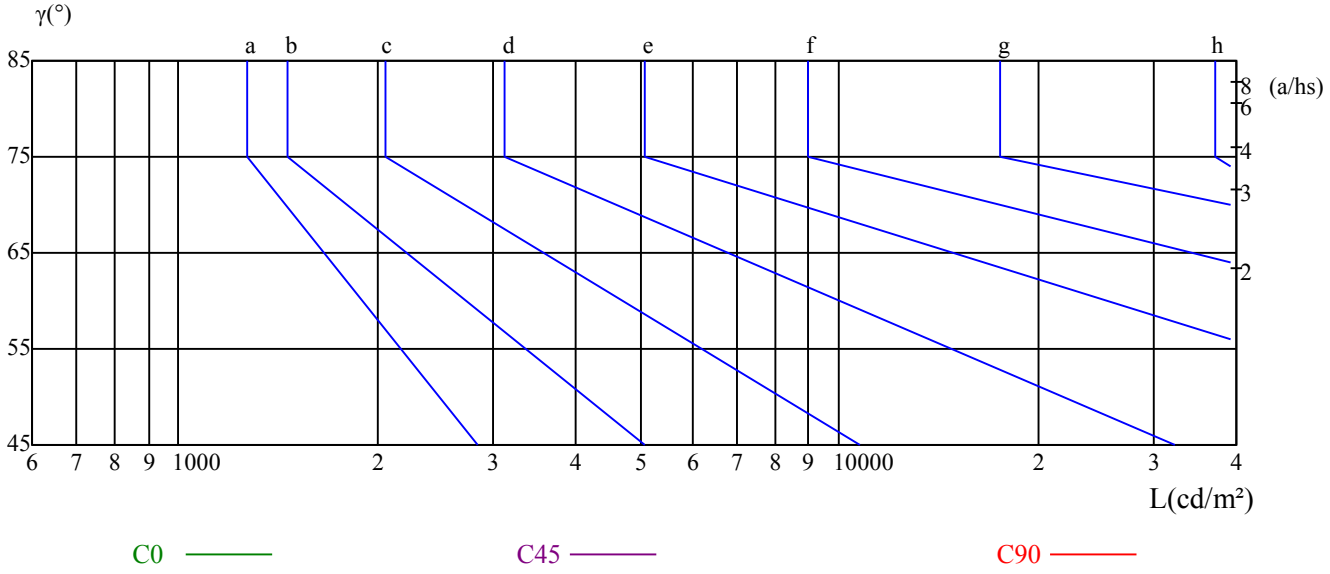
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

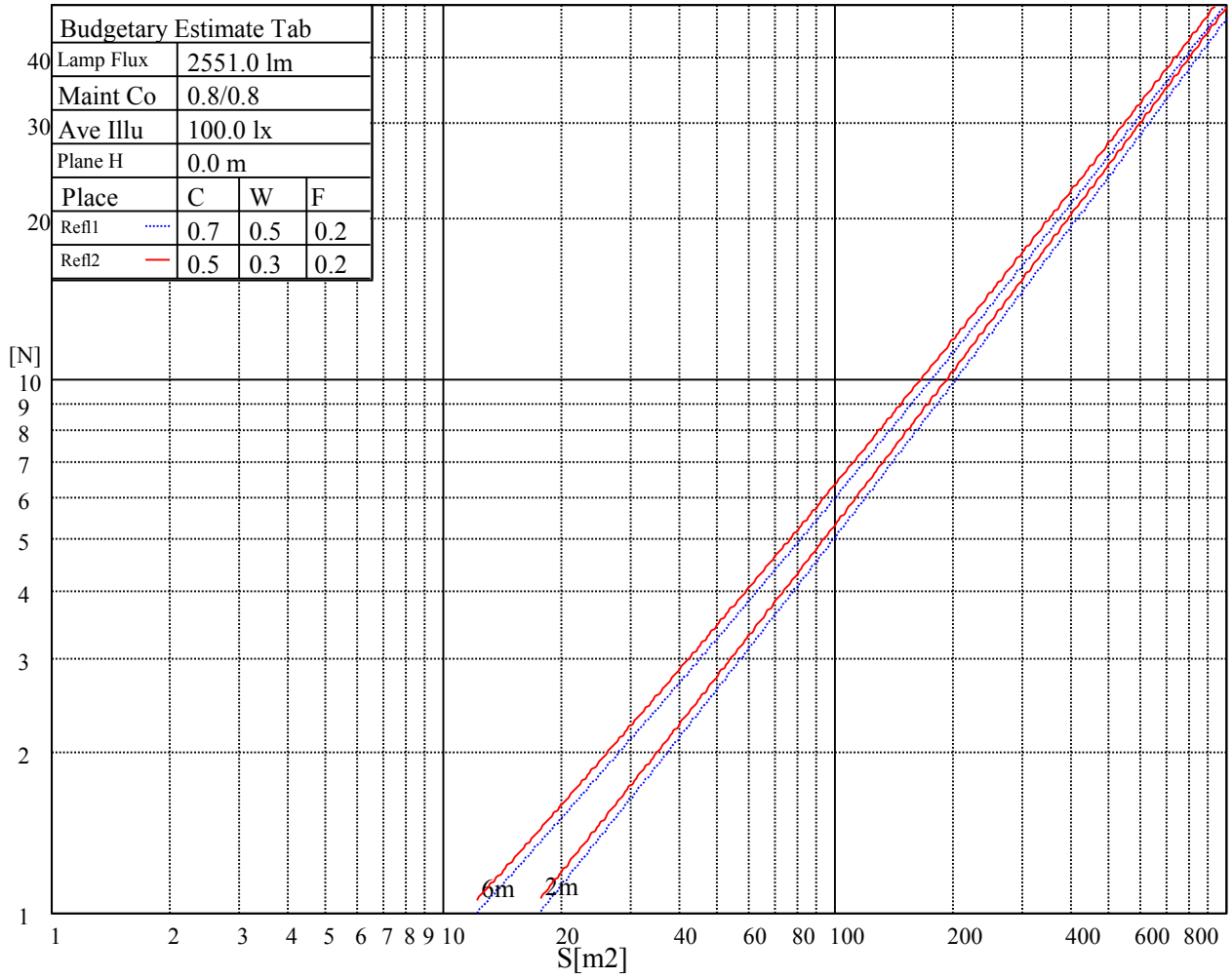
Date: 2024/8/31
Humidity(%): 60.0%

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

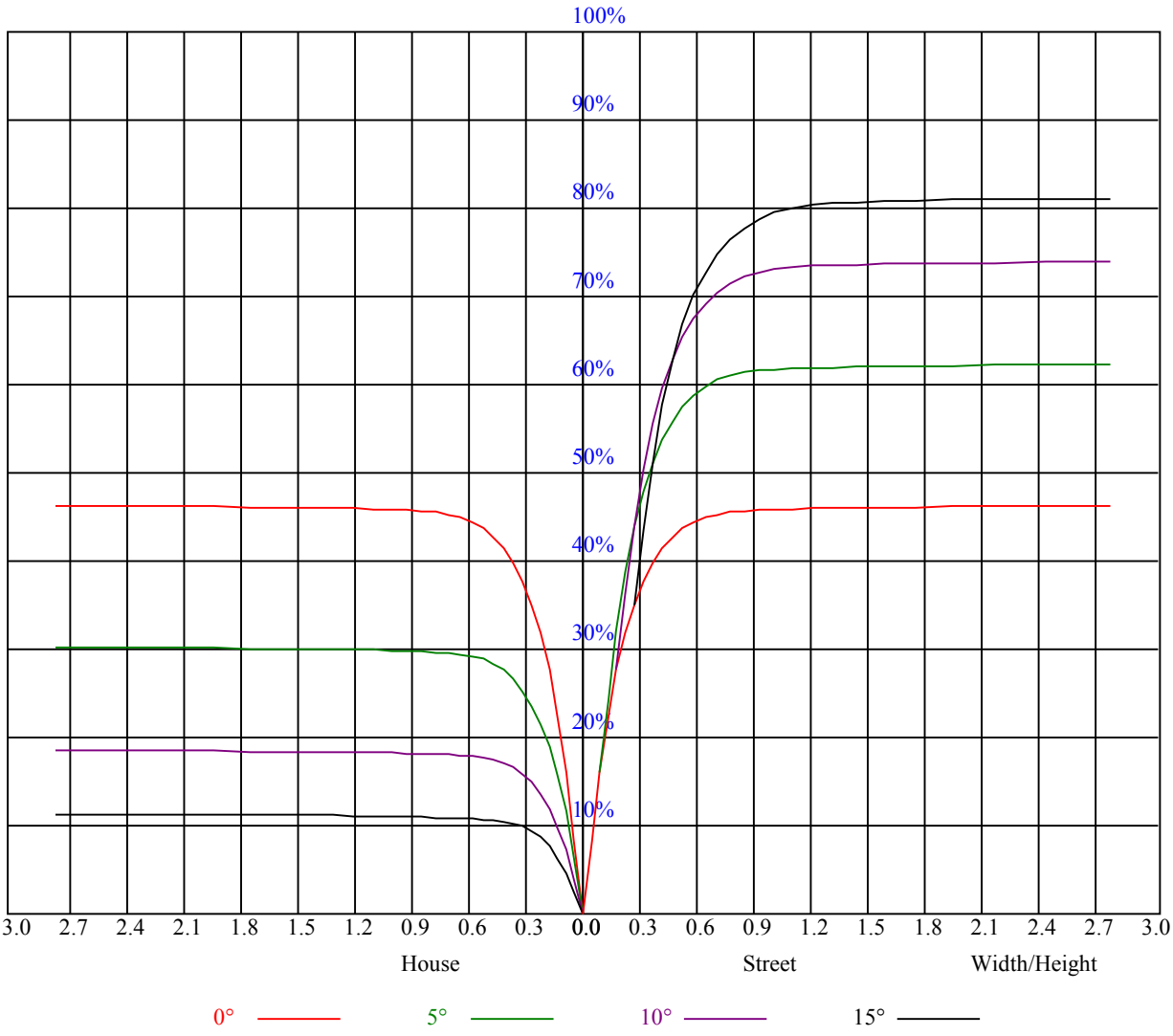
Date: 2024/8/31
Humidity(%): 60.0%

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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.04	1.02	1.01	1.02	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	0.94	0.97	0.95	0.93	0.95	0.92	0.91	0.92	0.90	0.89	0.89	0.88	0.87	0.85
3	0.94	0.91	0.88	0.93	0.90	0.87	0.91	0.88	0.86	0.89	0.87	0.85	0.87	0.85	0.83	0.82
4	0.90	0.86	0.84	0.89	0.86	0.83	0.88	0.84	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.79
5	0.87	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.79	0.83	0.80	0.78	0.82	0.79	0.77	0.76
6	0.84	0.79	0.76	0.83	0.79	0.76	0.82	0.78	0.76	0.80	0.77	0.75	0.79	0.77	0.75	0.74
7	0.81	0.76	0.74	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
8	0.78	0.74	0.71	0.77	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
9	0.75	0.71	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.67
10	0.73	0.69	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.65

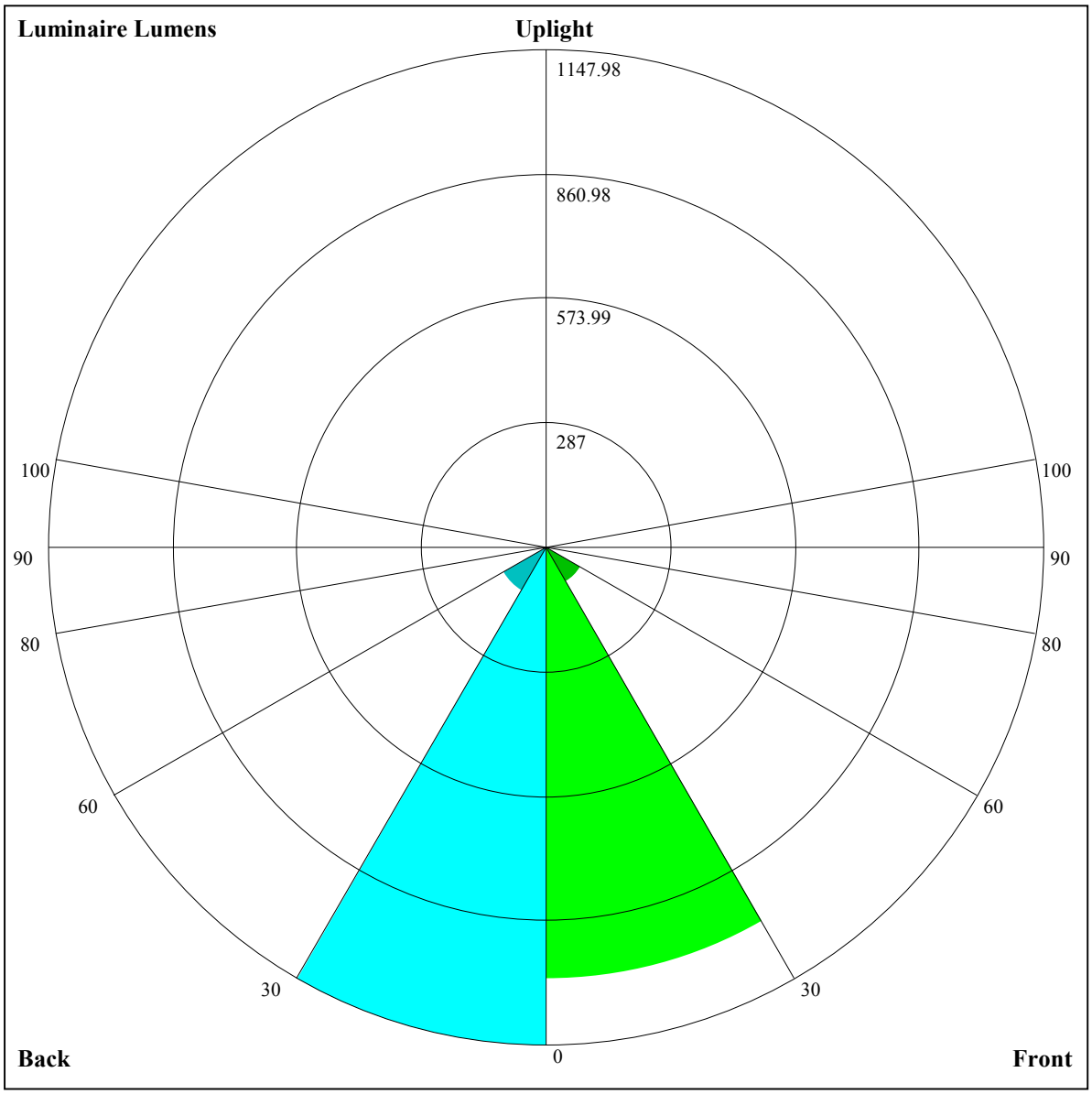
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/31
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=995.1,FM=91.51,FH=7.88,FVH=0.96
BL=1147.98,BM=114.87,BH=8.55,BVH=1.11
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	13252.69	12717.81	10786.40	10786.40	9708.29	8578.36	7450.10	6389.81	5816.51
45.0	13659.42	13358.55	12806.96	12065.93	11146.61	10115.86	9001.54	7876.07	6800.75
90.0	13341.83	12823.67	10813.74	10813.74	9970.16	8880.33	7792.23	6729.68	5761.38
135.0	13614.84	13492.27	13297.26	12567.38	12127.22	11230.19	10238.44	9163.12	8087.79
180.0	13252.69	13547.98	13564.70	13347.41	12884.96	12199.65	11692.63	10338.73	9709.13
225.0	13659.42	13759.71	13508.98	12985.25	12561.81	10715.08	10715.08	9597.97	8455.78
270.0	13341.83	13620.42	13637.13	13369.69	12851.53	12405.80	11157.76	10065.72	9385.98
315.0	13614.84	13319.55	13024.25	11066.09	10651.58	10442.64	9304.35	8131.52	7045.64
360.0	13252.69	12717.81	10786.40	10786.40	9708.29	8578.36	7450.10	6389.81	5816.51

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4611.36	4175.67	3570.57	2953.80	2742.08	2449.04	2202.74	2004.94	1832.80
45.0	5814.57	4956.54	4221.08	3636.06	3162.48	2856.04	2856.04	2279.11	2056.77
90.0	4926.74	4200.16	3842.48	3338.24	2937.67	2613.93	2332.57	2106.92	1917.48
135.0	7012.47	5998.43	5129.26	4399.38	3775.35	3268.34	2889.47	2889.47	2273.54
180.0	8583.67	7480.48	6421.88	5496.99	4672.39	3998.22	3446.63	3023.18	2811.46
225.0	7325.90	6282.85	5351.28	4537.83	3864.76	3339.35	2918.16	2592.22	2311.96
270.0	7775.78	7090.47	6043.01	5118.12	4349.23	3719.64	3212.62	2828.18	2828.18
315.0	5993.70	5067.71	4284.32	3651.94	3157.17	2847.94	2479.11	2280.21	2071.80
360.0	4611.36	4175.67	3570.57	2953.80	2742.08	2449.04	2202.74	2004.94	1832.80

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1679.58	1527.47	1392.07	1277.32	1070.65	1070.65	969.57	889.25	764.42
45.0	1865.65	1696.30	1539.71	1400.42	1278.43	1168.67	1064.50	966.99	865.02
90.0	1748.65	1594.33	1450.04	1323.58	1077.01	1077.01	1016.45	933.19	827.70
135.0	2063.45	1950.91	1786.02	1628.33	1484.00	1357.01	1244.42	1136.35	1032.17
180.0	2811.46	2187.18	1994.38	1826.13	1664.55	1544.18	1387.07	1286.78	1171.99
225.0	2090.20	1898.56	1729.73	1598.22	1448.36	1311.28	1062.18	1062.18	1001.11
270.0	2278.53	2080.16	1905.81	1747.55	1623.87	1447.26	1319.63	1227.18	1117.43
315.0	1889.62	1730.30	1570.94	1429.44	1302.39	1049.73	1049.73	988.65	882.37
360.0	1679.58	1527.47	1392.07	1277.32	1070.65	1070.65	969.57	889.25	764.42

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	678.79	583.76	498.40	416.77	342.65	277.48	222.60	176.98	140.13
45.0	766.41	667.23	576.40	496.19	420.39	348.54	309.54	309.54	189.86
90.0	702.55	624.02	534.88	456.35	380.71	311.85	251.77	201.52	159.26
135.0	932.41	829.33	726.26	627.12	538.50	459.40	384.18	312.85	287.78
180.0	1044.42	961.95	863.92	756.37	653.30	561.37	481.10	403.68	331.25
225.0	904.39	802.94	703.92	613.14	528.31	453.30	383.65	316.16	256.03
270.0	1014.35	911.80	807.62	702.87	604.84	520.68	441.00	366.89	297.82
315.0	778.77	678.16	619.92	501.08	455.77	382.34	288.04	252.83	201.21
360.0	678.79	583.76	498.40	416.77	342.65	277.48	222.60	176.98	140.13

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	111.91	89.83	73.64	61.87	52.98	46.10	41.00	37.00	33.38
45.0	150.64	119.90	95.56	77.06	63.39	53.77	45.94	40.95	36.85
90.0	126.15	99.97	79.74	64.97	53.56	44.63	38.06	33.53	29.96
135.0	287.78	163.47	127.36	99.19	77.85	62.55	51.46	43.31	37.74
180.0	292.25	292.25	166.62	130.51	113.17	82.05	71.85	58.98	49.88
225.0	223.44	161.05	139.45	109.86	86.68	69.38	56.98	47.99	41.52
270.0	297.82	187.91	147.07	126.41	98.45	69.70	61.29	50.51	42.79
315.0	158.84	124.57	97.87	77.27	61.97	51.09	43.57	38.27	33.96
360.0	111.91	89.83	73.64	61.87	52.98	46.10	41.00	37.00	33.38

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	30.28	27.81	25.70	23.81	22.86	21.45	20.18	19.03	18.19
45.0	33.53	31.17	28.49	26.96	24.70	22.92	21.81	20.50	19.34
90.0	27.12	24.97	23.86	21.60	20.97	19.82	19.08	18.55	17.92
135.0	33.43	30.07	27.49	25.86	24.34	23.13	21.87	21.24	20.81
180.0	43.10	38.06	34.27	31.06	28.33	26.02	24.02	22.29	20.81
225.0	36.58	32.48	28.96	26.07	23.65	21.60	19.71	18.29	17.03
270.0	37.27	33.01	29.38	26.39	23.86	21.71	19.71	18.19	16.87
315.0	30.49	27.44	25.07	22.97	21.29	20.03	18.45	17.29	16.56
360.0	30.28	27.81	25.70	23.81	22.86	21.45	20.18	19.03	18.19

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	17.56	16.82	16.19	15.66	15.09	14.61	14.14	13.56	13.04
45.0	18.08	17.50	16.77	16.29	15.66	15.19	14.93	14.82	14.24
90.0	17.14	16.45	15.87	15.40	15.14	14.93	14.56	14.03	13.40
135.0	20.81	20.50	19.71	19.24	18.50	17.92	17.35	16.98	16.40
180.0	19.55	18.40	17.40	16.66	15.93	15.19	14.61	14.40	14.14
225.0	15.93	15.09	14.40	13.93	13.19	12.72	12.46	12.30	12.30
270.0	15.82	14.88	14.19	13.67	13.19	12.72	12.35	12.30	12.25
315.0	15.61	15.14	14.51	14.03	13.46	12.98	12.62	12.46	12.25
360.0	17.56	16.82	16.19	15.66	15.09	14.61	14.14	13.56	13.04

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	12.25	11.25	10.41	9.46	8.88	7.78	7.04	6.62	5.94
45.0	13.40	12.35	11.62	11.09	10.04	8.83	7.99	6.94	6.89
90.0	12.51	11.46	10.57	9.46	8.25	7.67	6.89	6.52	5.94
135.0	15.61	14.82	13.88	12.67	11.72	10.67	9.25	8.20	7.36
180.0	13.82	13.46	13.04	12.46	11.62	10.67	9.78	8.83	7.88
225.0	11.98	11.67	11.41	10.67	9.88	9.20	8.36	7.57	6.89
270.0	12.14	11.98	11.77	11.41	10.67	10.04	9.30	8.46	7.67
315.0	12.04	11.72	11.04	10.25	9.46	8.62	7.88	7.15	6.52
360.0	12.25	11.25	10.41	9.46	8.88	7.78	7.04	6.62	5.94

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.47	4.99	4.63	4.21	3.89	3.63	3.26	2.94	2.73
45.0	6.62	5.73	5.05	4.57	4.26	3.94	3.63	3.31	2.94
90.0	5.31	4.94	4.52	4.15	3.84	3.63	3.31	2.94	2.63
135.0	6.68	6.15	5.73	5.10	4.78	4.47	4.15	3.78	3.47
180.0	7.25	6.62	5.99	5.57	5.15	4.84	4.36	4.05	3.78
225.0	6.25	5.78	5.31	4.89	4.52	4.21	3.99	3.57	3.26
270.0	6.99	6.41	5.83	5.41	4.89	4.57	4.21	3.89	3.57
315.0	5.83	5.41	5.10	4.78	4.21	4.05	3.73	3.36	3.05
360.0	5.47	4.99	4.63	4.21	3.89	3.63	3.26	2.94	2.73

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.42	2.16	1.94	1.68	1.47	1.31	1.10	0.89	0.84
45.0	2.63	2.31	2.00	1.73	1.52	1.26	1.10	1.00	0.84
90.0	2.42	2.05	1.89	1.68	1.47	1.31	1.16	0.89	0.84
135.0	3.15	2.79	2.52	2.21	2.00	1.73	1.47	1.31	1.21
180.0	3.42	3.10	2.84	2.63	2.21	2.00	1.73	1.52	1.26
225.0	3.00	2.73	2.47	2.26	2.00	1.73	1.52	1.31	1.21
270.0	3.26	3.00	2.68	2.37	2.16	1.84	1.73	1.37	1.26
315.0	2.84	2.47	2.26	2.00	1.79	1.58	1.37	1.21	1.00
360.0	2.42	2.16	1.94	1.68	1.47	1.31	1.10	0.89	0.84

Intensity data(cd)

C/γ(°)	90.0
0.0	0.84
45.0	0.84
90.0	0.84
135.0	0.89
180.0	1.16
225.0	1.10
270.0	1.10
315.0	0.84
360.0	0.84