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Nata

Client:
LumCAT: 2-2759-L
Luminaire: 92.70.411.00
Report No: 2024902-B022
Ballast type: AC

Test No: 2024902-C022	Voltage(V): 36.570
LampCAT: LUMILEDS LUXEON CoB 1208	Current(A): 0.898
Lamp flux(lm): 4053.0	Power (W): 32.830
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3795.46, Efficiency(%): 93.65% , Luminous Efficacy(lm/W): 115.61
Central intensity(cd): 7731.340, Maximum intensity(cd): 7731.340
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=38.8
[C90/270]Total=38.8
Field angle(10%Imax): [C0/180]Total=69.0
[C90/270]Total=69.0
Maximum s/h(1/2): C0_180=0.62 C90_270=0.62
Maximum s/h(1/4): C0_180=0.65 C90_270=0.65
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.65%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.268%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7731.339	0.000	0	0.00%	0.00%
1.0	7721.320	7.394	7.394	0.18%	0.19%
2.0	7682.456	22.109	29.503	0.55%	0.78%
3.0	7615.393	36.587	66.09	0.90%	1.74%
4.0	7519.834	50.662	116.753	1.25%	3.08%
5.0	7387.929	64.132	180.885	1.58%	4.77%
6.0	7242.147	76.885	257.77	1.90%	6.79%
7.0	7069.715	88.833	346.603	2.19%	9.13%
8.0	6878.046	99.821	446.425	2.46%	11.76%
9.0	6616.732	109.368	555.793	2.70%	14.64%
10.0	6399.530	117.792	673.585	2.91%	17.75%
11.0	6134.372	125.239	798.825	3.09%	21.05%
12.0	5888.459	131.427	930.251	3.24%	24.51%
13.0	5613.287	136.497	1066.748	3.37%	28.11%
14.0	5352.196	140.357	1207.105	3.46%	31.80%
15.0	5085.028	143.287	1350.392	3.54%	35.58%
16.0	4815.297	145.067	1495.46	3.58%	39.40%
17.0	4528.700	145.511	1640.971	3.59%	43.24%
18.0	4246.846	144.690	1785.66	3.57%	47.05%
19.0	3974.191	143.029	1928.69	3.53%	50.82%
20.0	3699.296	140.446	2069.136	3.47%	54.52%
21.0	3433.665	136.967	2206.103	3.38%	58.12%
22.0	3194.998	133.206	2339.309	3.29%	61.63%
23.0	2946.154	128.858	2468.167	3.18%	65.03%
24.0	2723.138	123.951	2592.118	3.06%	68.30%
25.0	2529.327	119.430	2711.548	2.95%	71.44%
26.0	2319.412	114.455	2826.003	2.82%	74.46%
27.0	2137.500	109.039	2935.042	2.69%	77.33%
28.0	1911.843	102.521	3037.563	2.53%	80.03%
29.0	1743.498	95.634	3133.197	2.36%	82.55%
30.0	1566.179	89.361	3222.557	2.20%	84.91%
31.0	1377.525	81.919	3304.476	2.02%	87.06%
32.0	1153.622	72.514	3376.991	1.79%	88.97%
33.0	993.865	63.266	3440.257	1.56%	90.64%
34.0	845.652	55.669	3495.926	1.37%	92.11%
35.0	696.644	47.898	3543.824	1.18%	93.37%
36.0	561.847	40.071	3583.894	0.99%	94.43%
37.0	444.817	32.832	3616.726	0.81%	95.29%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	352.432	26.611	3643.337	0.66%	95.99%
39.0	264.889	21.071	3664.408	0.52%	96.55%
40.0	180.644	15.539	3679.947	0.38%	96.96%
41.0	139.074	11.385	3691.332	0.28%	97.26%
42.0	124.829	9.588	3700.92	0.24%	97.51%
43.0	90.802	7.988	3708.907	0.20%	97.72%
44.0	78.187	6.378	3715.285	0.16%	97.89%
45.0	69.396	5.672	3720.957	0.14%	98.04%
46.0	62.372	5.153	3726.11	0.13%	98.17%
47.0	55.526	4.689	3730.799	0.12%	98.30%
48.0	49.665	4.252	3735.052	0.10%	98.41%
49.0	44.987	3.887	3738.939	0.10%	98.51%
50.0	41.130	3.591	3742.529	0.09%	98.61%
51.0	37.201	3.314	3745.843	0.08%	98.69%
52.0	33.995	3.055	3748.898	0.08%	98.77%
53.0	31.590	2.853	3751.751	0.07%	98.85%
54.0	29.192	2.679	3754.43	0.07%	98.92%
55.0	27.149	2.515	3756.945	0.06%	98.99%
56.0	25.296	2.370	3759.315	0.06%	99.05%
57.0	23.817	2.246	3761.561	0.06%	99.11%
58.0	22.365	2.136	3763.696	0.05%	99.16%
59.0	21.117	2.033	3765.729	0.05%	99.22%
60.0	20.039	1.944	3767.673	0.05%	99.27%
61.0	18.995	1.863	3769.536	0.05%	99.32%
62.0	18.003	1.783	3771.319	0.04%	99.36%
63.0	17.135	1.709	3773.028	0.04%	99.41%
64.0	16.288	1.640	3774.668	0.04%	99.45%
65.0	15.447	1.571	3776.238	0.04%	99.49%
66.0	14.626	1.500	3777.739	0.04%	99.53%
67.0	13.791	1.429	3779.168	0.04%	99.57%
68.0	12.898	1.352	3780.52	0.03%	99.61%
69.0	11.958	1.268	3781.788	0.03%	99.64%
70.0	11.255	1.192	3782.98	0.03%	99.67%
71.0	10.591	1.129	3784.109	0.03%	99.70%
72.0	9.980	1.070	3785.179	0.03%	99.73%
73.0	9.343	1.010	3786.189	0.02%	99.76%
74.0	8.811	0.954	3787.144	0.02%	99.78%
75.0	8.246	0.901	3788.045	0.02%	99.80%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.687	0.846	3788.891	0.02%	99.83%
77.0	7.181	0.793	3789.683	0.02%	99.85%
78.0	6.590	0.737	3790.42	0.02%	99.87%
79.0	6.110	0.682	3791.103	0.02%	99.89%
80.0	5.572	0.630	3791.733	0.02%	99.90%
81.0	5.099	0.577	3792.31	0.01%	99.92%
82.0	4.580	0.525	3792.834	0.01%	99.93%
83.0	4.139	0.474	3793.308	0.01%	99.94%
84.0	3.673	0.426	3793.734	0.01%	99.95%
85.0	3.285	0.380	3794.114	0.01%	99.96%
86.0	2.944	0.340	3794.454	0.01%	99.97%
87.0	2.543	0.300	3794.755	0.01%	99.98%
88.0	2.227	0.261	3795.016	0.01%	99.99%
89.0	2.037	0.234	3795.25	0.01%	99.99%
90.0	1.813	0.211	3795.461	0.01%	100.00%

Zonal flux distribution table

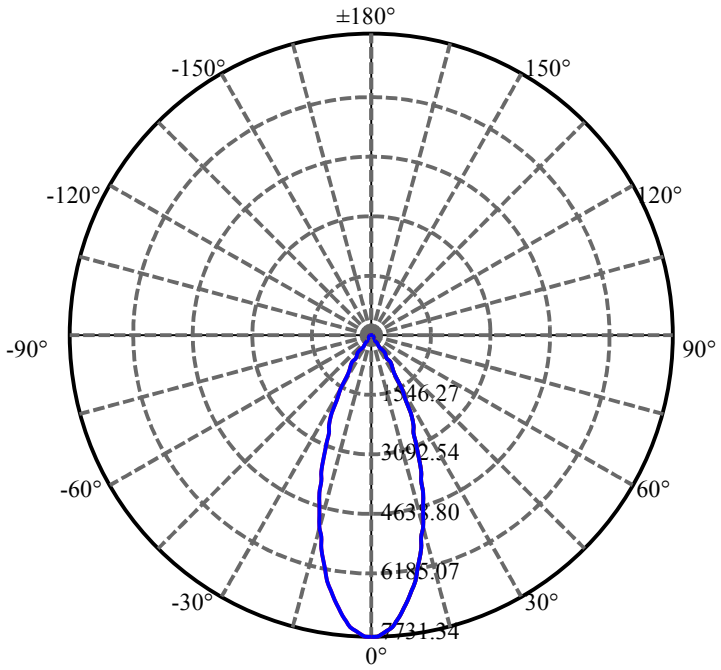
ZONAL LUMEN SUMMARY

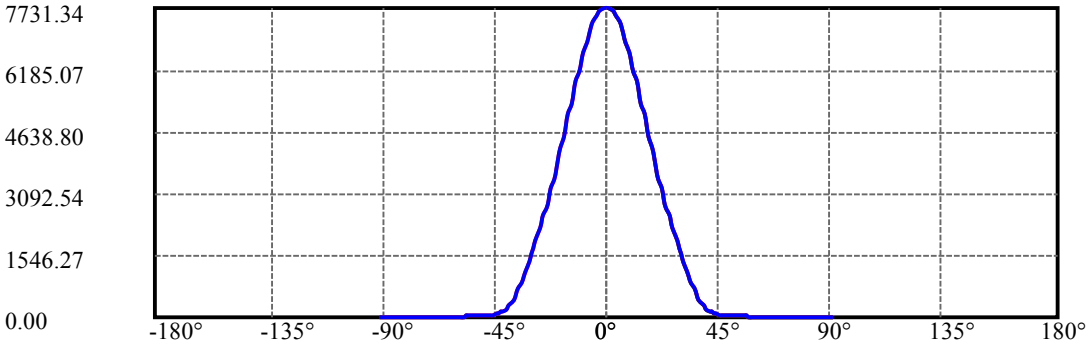
Zone	Lumens	%Lamp	%Fixt
0-30	3222.56	79.51%	84.91%
0-40	3679.95	90.80%	96.96%
0-60	3767.67	92.96%	99.27%
0-90	3795.25	93.64%	99.99%
0-120	3795.25	93.64%	99.99%
0-180	3795.46	93.65%	100.00%
60-90	27.58	0.68%	0.73%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.99	3036.37	74.92%	80.00%

ZONAL LUMEN SUMMARY

0-10	673.59
10-20	1395.55
20-30	1153.42
30-40	457.39
40-50	62.58
50-60	25.14
60-70	15.31
70-80	8.75
80-90	3.52
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):

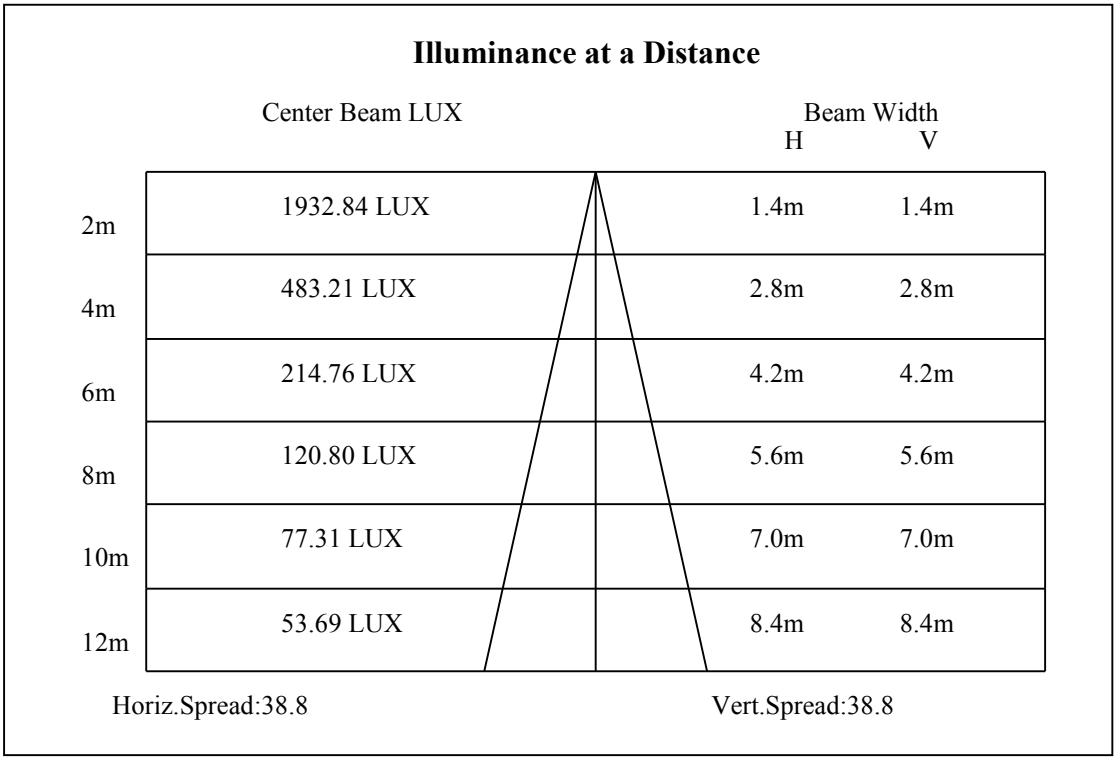
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:34.5 Right:34.5
:C90/270Left:34.5 Right:34.5

Beam Angle(50%Imax):C0/180Left:19.4 Right:19.4
:C90/270Left:19.4 Right:19.4

Lux distance Curve

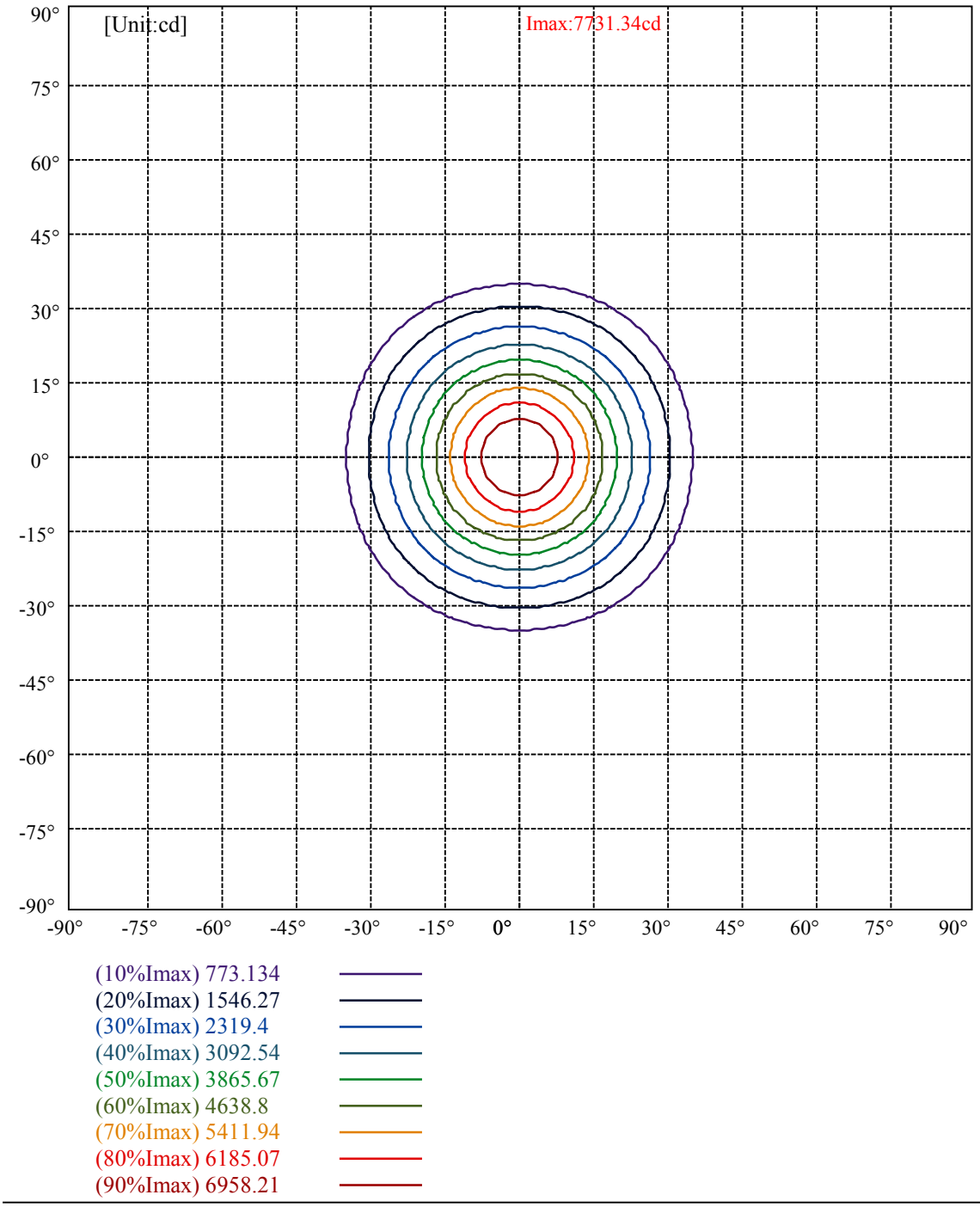


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO-Intensity(V-H)

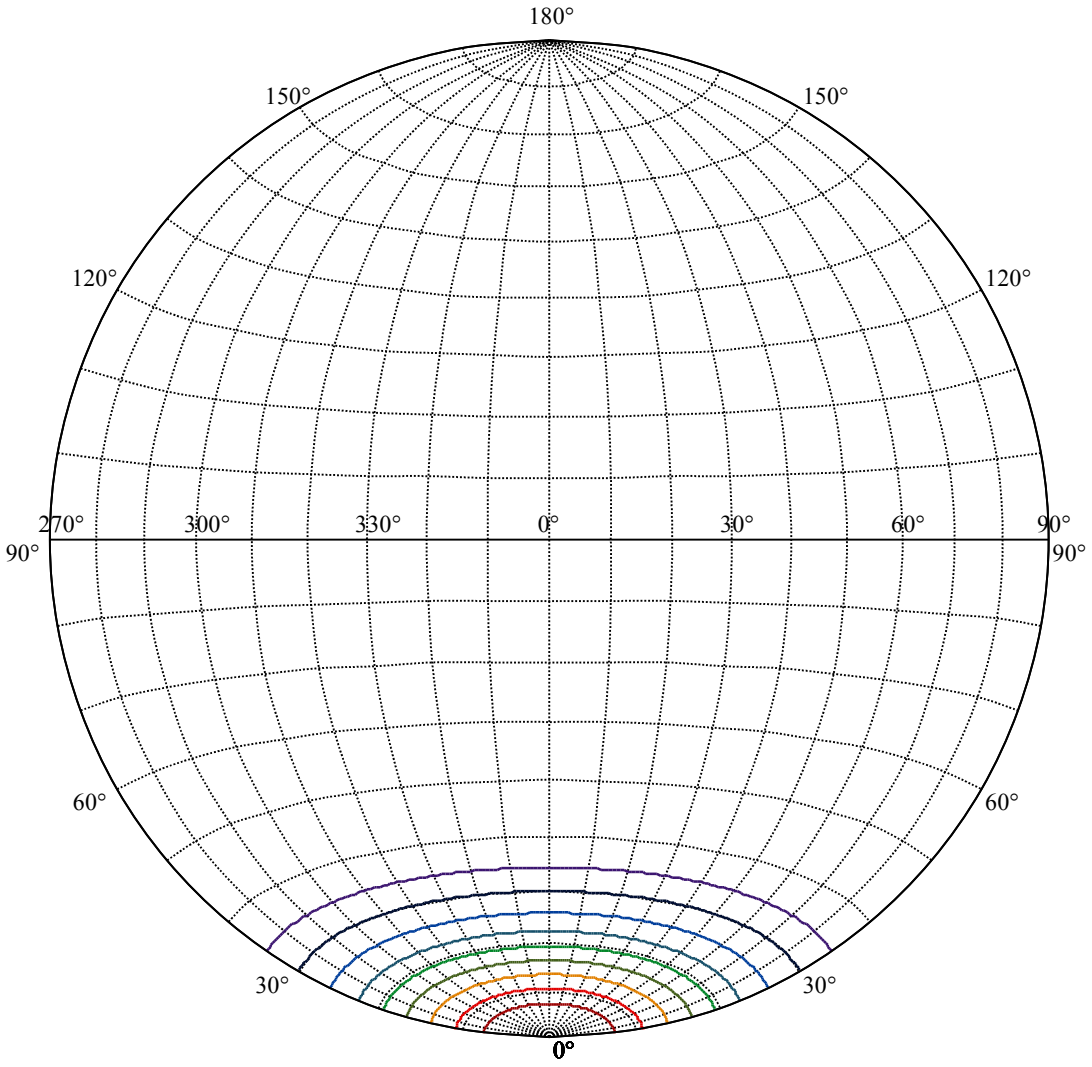


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:7731.34

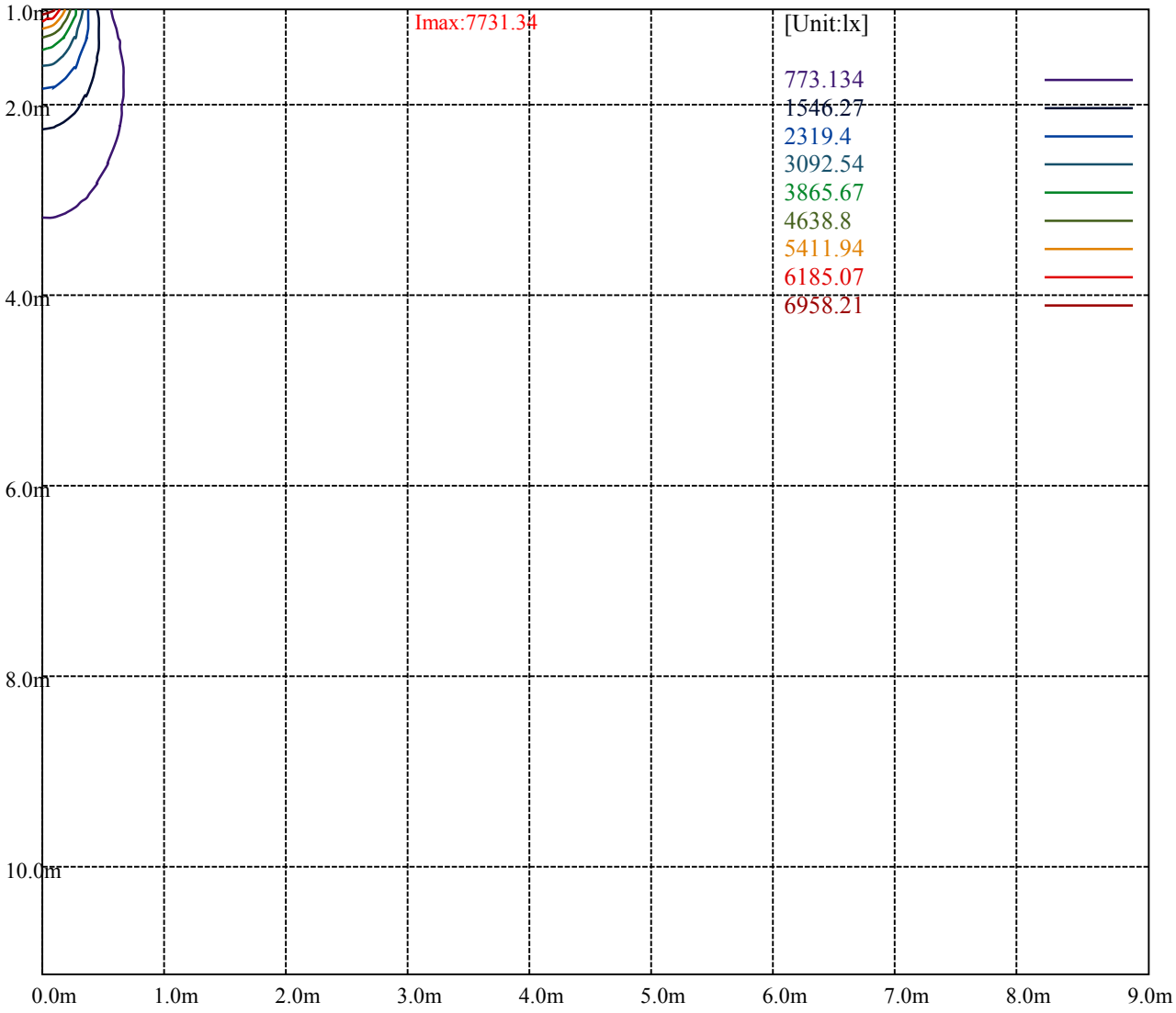
(10%Imax) 773.134
(20%Imax) 1546.27
(30%Imax) 2319.4
(40%Imax) 3092.54
(50%Imax) 3865.67
(60%Imax) 4638.8
(70%Imax) 5411.94
(80%Imax) 6185.07
(90%Imax) 6958.21

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2759-L

Luminance Limitting Curve(no luminous side)

Luminance Table

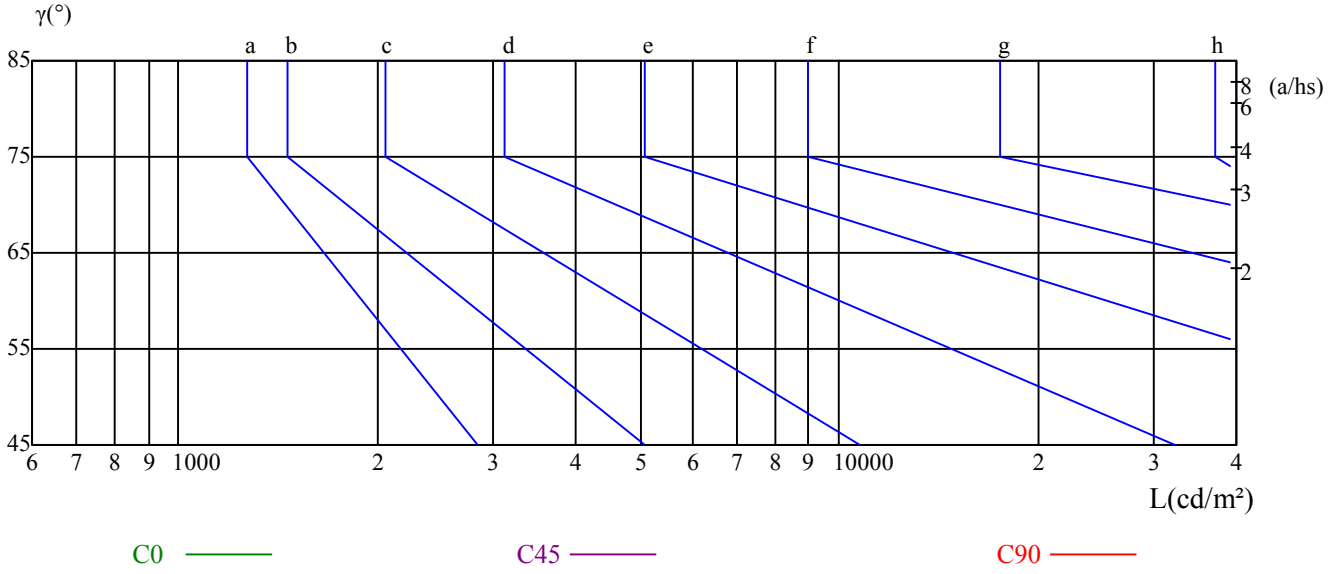
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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: 2024/9/2
Humidity(%): 60.0%

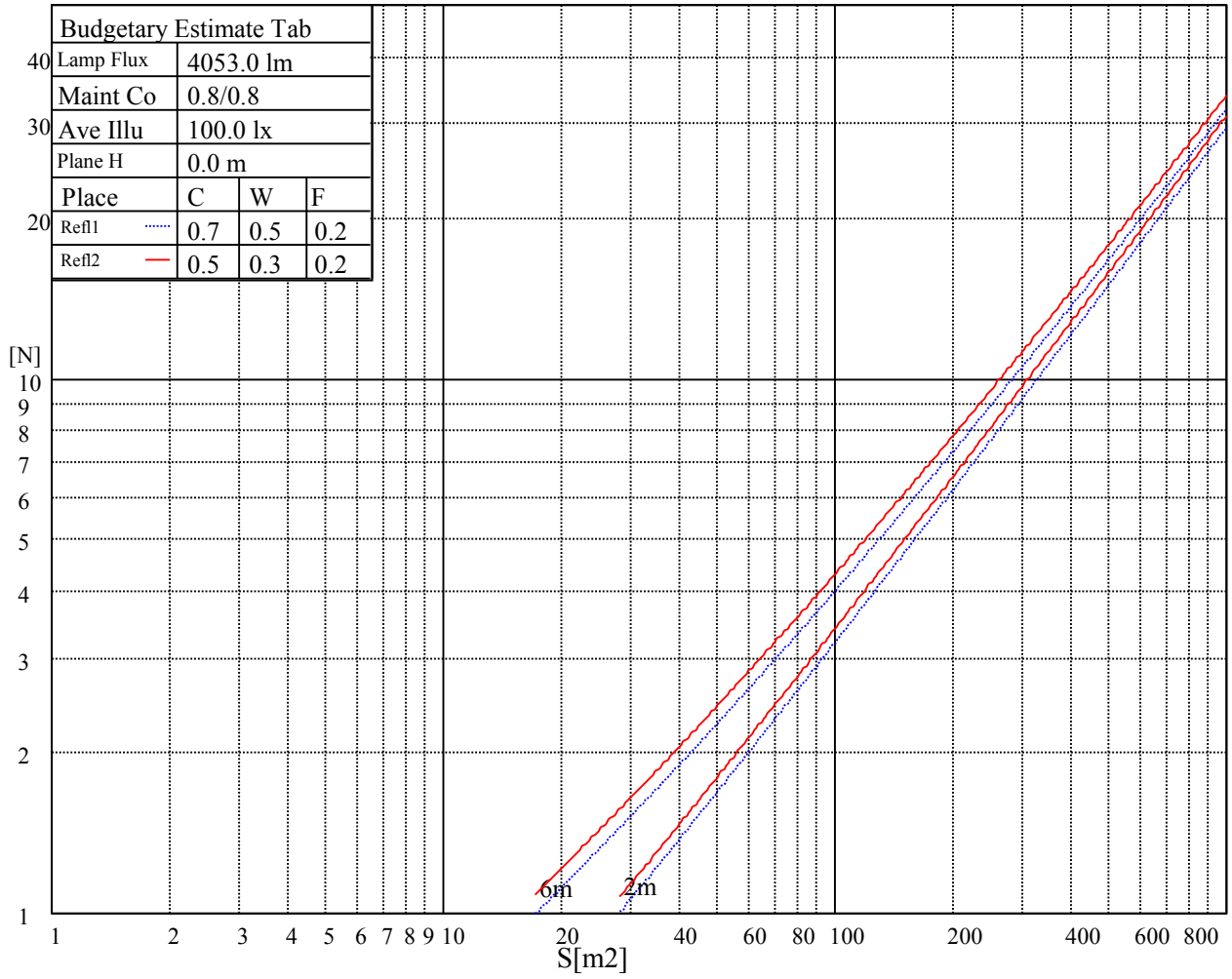
Operator: NT
Distance(m): 7.25

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

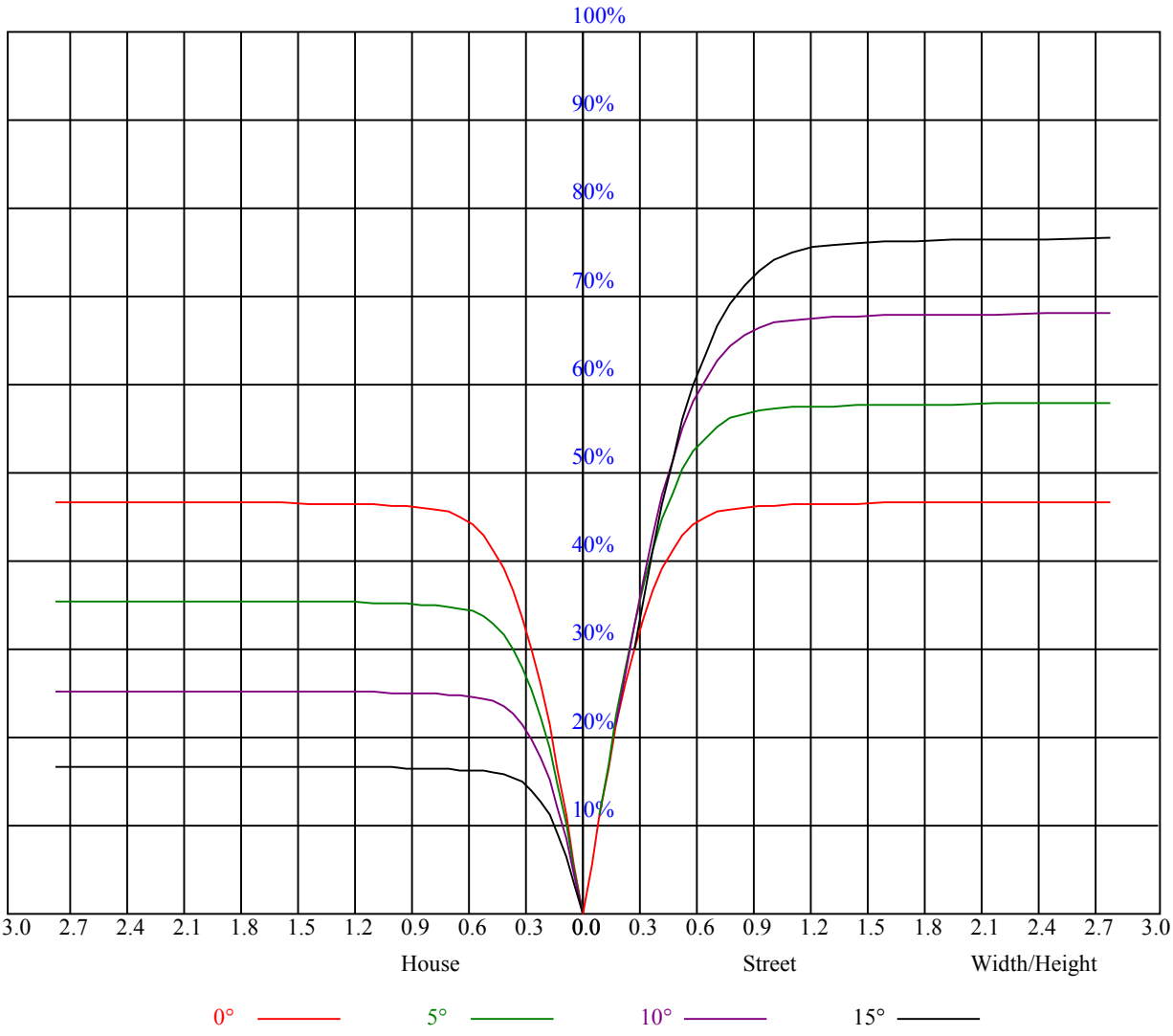


Equipment: GMS 1800 Date: 2024/9/2 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.25

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	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.04	1.02	1.00	1.02	1.01	0.99	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89
2	0.98	0.95	0.92	0.97	0.94	0.91	0.94	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.85	0.84
3	0.93	0.89	0.85	0.91	0.88	0.85	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.79
4	0.88	0.83	0.80	0.87	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.79	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.71
6	0.79	0.74	0.71	0.78	0.74	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.68
7	0.75	0.70	0.67	0.75	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.64
8	0.72	0.67	0.63	0.71	0.67	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.61
9	0.69	0.64	0.60	0.68	0.64	0.60	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.59
10	0.66	0.61	0.58	0.65	0.61	0.58	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.56

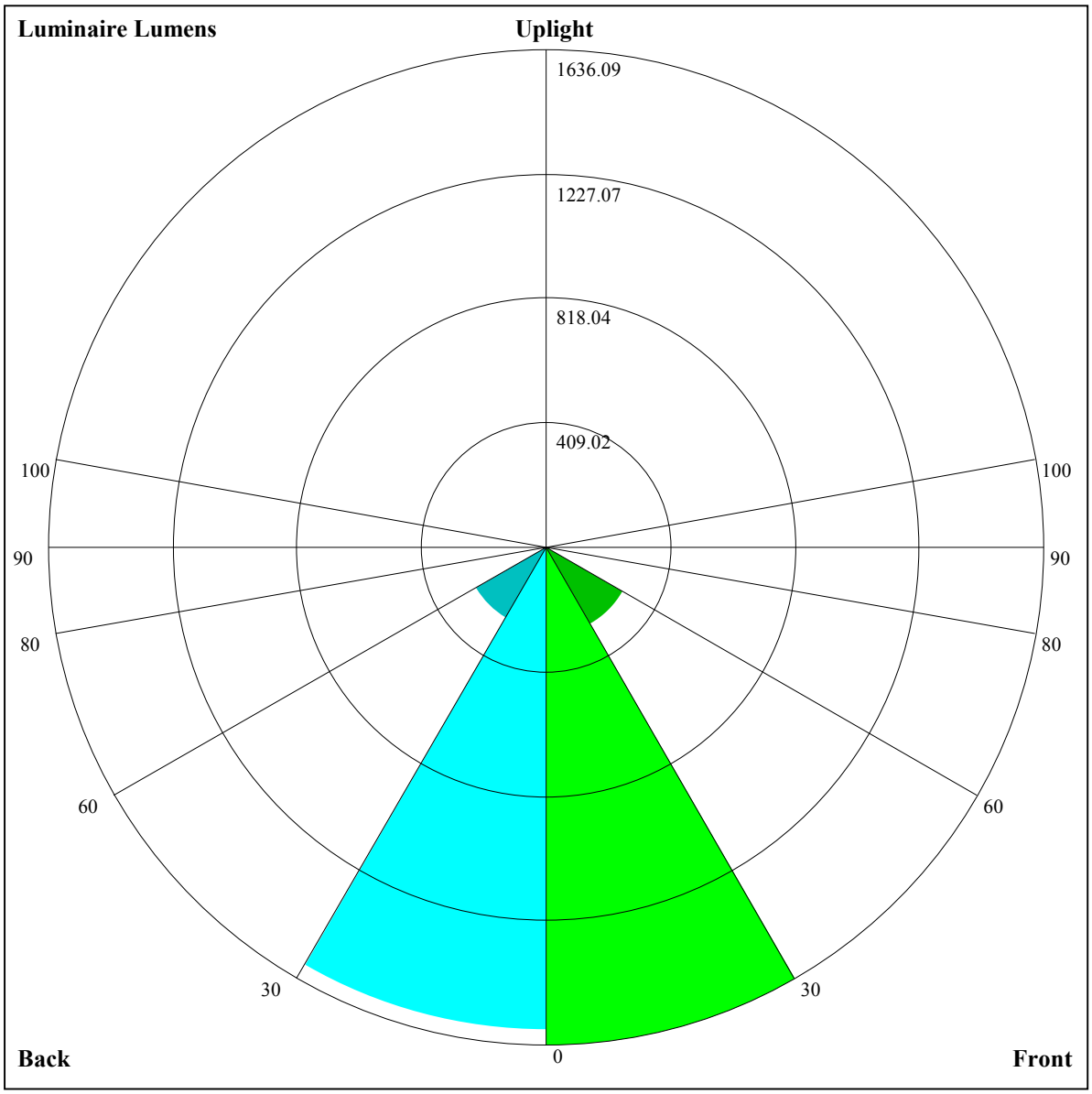
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=1636.09,FM=290.23,FH=11.99,FVH=1.85
BL=1586.73,BM=270,BH=12.07,BVH=1.9
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	7745.40	7727.58	7688.58	7632.34	7544.82	7410.58	7260.67	7148.71	6951.44
45.0	7743.72	7722.01	7667.98	7591.65	7486.90	7360.96	7185.45	6999.38	6767.05
90.0	7670.76	7572.68	7467.97	7311.97	7120.27	6910.23	6674.54	6438.33	6224.35
135.0	7765.48	7722.59	7640.12	7525.90	7384.40	7193.81	6990.44	6762.01	6507.97
180.0	7745.40	7737.62	7710.29	7637.91	7540.41	7412.78	7267.92	7069.55	6837.22
225.0	7743.72	7740.93	7710.87	7643.43	7542.61	7424.51	7281.85	7090.73	6967.05
270.0	7670.76	7749.34	7769.95	7792.76	7779.93	7730.95	7678.54	7580.51	7460.14
315.0	7765.48	7797.80	7803.90	7787.19	7759.33	7659.62	7597.75	7468.50	7309.13
360.0	7745.40	7727.58	7688.58	7632.34	7544.82	7410.58	7260.67	7148.71	6951.44

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6609.89	6457.83	6184.24	5916.22	5646.58	5372.47	5096.09	4819.77	4527.79
45.0	6531.89	6276.75	5998.70	5841.59	5566.37	5268.29	5007.52	4717.80	4429.18
90.0	5888.37	5668.87	5396.96	5121.74	4846.47	4579.03	4296.56	4020.77	3751.12
135.0	6244.95	5989.81	5705.66	5439.33	5168.52	4901.66	4621.40	4390.76	4058.09
180.0	6602.69	6335.25	6065.03	5853.31	5529.58	5242.64	5033.12	4766.26	4497.72
225.0	6631.65	6482.90	6211.52	5833.23	5666.08	5396.43	5121.74	4859.30	4573.46
270.0	7301.35	7071.81	6842.80	6693.47	6344.14	6190.39	5917.38	5640.43	5366.89
315.0	7123.06	6913.02	6670.08	6408.79	6138.56	5866.66	5586.40	5307.29	5025.34
360.0	6609.89	6457.83	6184.24	5916.22	5646.58	5372.47	5096.09	4819.77	4527.79

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	4232.49	3945.03	3650.83	3370.57	3104.81	2859.66	2634.54	2442.89	2262.40
45.0	4143.34	3853.09	3562.79	3294.25	3035.69	2791.70	2576.04	2382.71	2201.63
90.0	3480.32	3213.99	2960.48	2722.58	2517.01	2333.67	2166.52	1980.45	1777.09
135.0	3773.41	3560.01	3299.82	3059.66	2826.23	2617.30	2422.82	2234.54	2064.02
180.0	4216.35	3960.06	3697.61	3441.32	3185.60	2959.37	2735.41	2539.82	2362.11
225.0	4294.88	4017.98	3751.12	3481.42	3231.86	2993.38	2774.98	2580.50	2378.24
270.0	5085.53	4800.27	4518.33	4235.28	3971.20	3701.50	3426.29	3173.36	2924.84
315.0	4748.44	4443.11	4153.38	3864.24	3687.57	3312.65	3048.52	2900.35	2584.97
360.0	4232.49	3945.03	3650.83	3370.57	3104.81	2859.66	2634.54	2442.89	2262.40

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	2094.09	1913.59	1718.01	1517.43	1308.49	1069.28	1000.16	828.49	665.97
45.0	2023.92	1847.31	1648.36	1447.78	1248.89	1071.70	935.77	771.99	591.43
90.0	1572.04	1106.70	1071.01	1071.01	892.83	726.52	572.46	436.01	311.64
135.0	1866.81	1660.66	1454.51	1252.77	1063.92	893.40	725.73	572.51	434.32
180.0	2185.50	1986.60	1791.01	1580.97	1384.86	1189.28	1003.73	827.70	662.18
225.0	2201.63	2027.81	1875.17	1630.02	1467.28	1019.92	1019.92	915.06	749.96
270.0	2695.83	2483.58	2304.18	2129.20	1943.13	1744.76	1617.72	1338.03	1222.13
315.0	2460.19	2268.49	2085.73	1900.24	1710.80	1514.12	1075.43	1075.43	935.51
360.0	2094.09	1913.59	1718.01	1517.43	1308.49	1069.28	1000.16	828.49	665.97

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	516.48	380.76	266.12	180.34	129.25	109.54	94.30	86.26	72.96
45.0	481.10	354.11	331.25	288.36	136.87	117.16	101.50	89.36	79.68
90.0	211.67	143.34	113.11	97.08	84.57	75.53	67.39	60.50	54.40
135.0	312.85	312.85	291.67	121.68	104.02	89.67	79.16	70.59	63.02
180.0	570.83	432.64	311.75	311.75	148.86	121.21	102.97	89.15	79.11
225.0	598.21	459.55	337.45	232.48	160.21	126.89	107.70	92.40	81.05
270.0	1037.16	864.44	703.44	553.54	411.46	314.53	314.53	130.20	107.91
315.0	766.47	610.83	464.65	333.88	269.91	158.06	131.09	107.96	87.36
360.0	516.48	380.76	266.12	180.34	129.25	109.54	94.30	86.26	72.96

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	64.60	60.18	51.25	45.68	42.68	38.11	34.22	31.06	28.38
45.0	70.85	63.02	56.29	52.77	45.89	43.47	39.79	36.69	33.90
90.0	49.04	44.63	41.42	37.32	34.85	32.33	29.96	28.12	26.39
135.0	56.35	50.41	45.62	41.26	37.48	34.27	31.64	29.28	27.33
180.0	70.33	62.76	55.93	50.20	45.10	40.68	37.58	33.85	31.80
225.0	72.01	67.07	59.87	50.93	47.57	42.68	38.48	34.95	32.33
270.0	91.88	79.74	70.43	62.60	55.93	52.35	45.26	41.10	39.00
315.0	80.11	71.17	63.39	56.56	50.41	45.15	40.68	36.90	33.59
360.0	64.60	60.18	51.25	45.68	42.68	38.11	34.22	31.06	28.38

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.12	24.28	22.76	21.50	20.39	19.40	18.45	17.66	16.98
45.0	31.59	29.59	27.75	26.02	24.44	23.13	21.87	20.66	19.61
90.0	24.91	23.29	21.97	20.71	19.61	18.55	17.71	16.87	15.93
135.0	25.60	24.28	22.55	21.50	20.29	19.13	18.29	17.50	16.71
180.0	29.38	27.28	25.44	23.76	22.23	21.03	20.03	19.19	18.40
225.0	29.80	27.70	25.65	24.44	22.55	21.29	20.55	19.03	18.13
270.0	35.48	32.54	30.07	28.17	26.54	25.02	23.44	21.87	20.55
315.0	30.64	28.23	26.18	24.44	22.86	21.39	19.97	19.19	17.71
360.0	26.12	24.28	22.76	21.50	20.39	19.40	18.45	17.66	16.98

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	16.19	15.45	14.82	13.98	13.40	12.14	11.20	10.78	9.93
45.0	18.50	17.35	16.24	15.09	13.98	12.93	12.04	10.88	10.14
90.0	14.82	13.88	12.98	12.09	11.20	10.72	9.88	9.51	8.99
135.0	15.82	14.98	14.03	13.14	12.35	11.67	10.99	10.30	9.72
180.0	17.61	16.87	16.03	15.09	14.19	13.46	12.67	11.98	11.30
225.0	17.66	17.14	16.61	15.93	15.03	13.77	12.46	11.98	11.41
270.0	19.40	18.40	17.56	16.77	15.98	14.98	13.93	12.93	12.35
315.0	17.08	16.24	15.30	14.93	14.19	13.51	12.51	11.67	10.88
360.0	16.19	15.45	14.82	13.98	13.40	12.14	11.20	10.78	9.93

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.67	9.15	8.52	7.88	7.46	6.89	6.36	5.78	5.26
45.0	9.67	8.99	8.46	7.88	7.31	6.73	6.15	5.68	5.05
90.0	8.25	7.88	7.36	6.83	6.20	5.73	5.20	4.68	4.15
135.0	9.20	8.57	8.04	7.57	7.15	6.68	5.89	5.68	5.10
180.0	11.04	10.25	9.62	8.88	8.09	7.78	7.15	6.62	6.10
225.0	10.57	9.88	9.30	8.78	8.25	7.62	6.99	6.47	5.94
270.0	11.25	10.46	10.14	9.57	8.94	8.46	7.94	7.41	6.89
315.0	10.20	9.57	9.04	8.57	8.09	7.57	7.04	6.57	6.10
360.0	9.67	9.15	8.52	7.88	7.46	6.89	6.36	5.78	5.26

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.78	4.36	3.84	3.31	3.05	2.73	2.37	2.10	1.94
45.0	4.52	4.10	3.68	3.21	2.79	2.37	2.00	1.73	1.42
90.0	3.84	3.47	3.05	2.84	2.52	2.21	1.73	1.73	1.73
135.0	4.63	4.05	3.73	3.31	3.00	2.79	2.42	1.79	1.84
180.0	5.57	4.89	4.47	3.99	3.47	3.15	2.79	2.47	2.21
225.0	5.41	4.89	4.47	3.94	3.42	3.15	2.73	2.37	2.10
270.0	6.41	5.73	5.31	4.68	4.26	3.78	3.31	3.00	2.68
315.0	5.62	5.15	4.57	4.10	3.78	3.36	3.00	2.63	2.37
360.0	4.78	4.36	3.84	3.31	3.05	2.73	2.37	2.10	1.94

Intensity data(cd)

C/γ(°)	90.0
0.0	1.42
45.0	1.42
90.0	1.79
135.0	1.84
180.0	1.79
225.0	1.89
270.0	2.26
315.0	2.10
360.0	1.42