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Nata

Client:
LumCAT: 2-2748-L
Luminaire: 92.70.411.00
Report No: 2024902-B011
Ballast type: AC

Test No: 2024902-C011	Voltage(V): 36.610
LampCAT: LUMILEDS LUXEON CoB 1208	Current(A): 0.897
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): 3794.58, Efficiency(%): 93.62% , Luminous Efficacy(lm/W): 115.58
Central intensity(cd): 16715.450, Maximum intensity(cd): 16715.450
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=20.0
[C90/270]Total=20.0
Field angle(10%Imax): [C0/180]Total=52.4
[C90/270]Total=52.4
Maximum s/h(1/2): C0_180=0.34 C90_270=0.34
Maximum s/h(1/4): C0_180=0.38 C90_270=0.38
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.62%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.010%

Nata 2-2748-L

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	16715.453	0.000	0	0.00%	0.00%
1.0	16614.467	15.948	15.948	0.39%	0.42%
2.0	16269.027	47.198	63.145	1.16%	1.66%
3.0	15731.365	76.534	139.68	1.89%	3.68%
4.0	14730.108	101.964	241.644	2.52%	6.37%
5.0	13774.890	122.627	364.271	3.03%	9.60%
6.0	12877.300	140.064	504.335	3.46%	13.29%
7.0	11508.737	151.364	655.699	3.73%	17.28%
8.0	10374.734	156.616	812.315	3.86%	21.41%
9.0	9486.756	160.967	973.281	3.97%	25.65%
10.0	8329.606	161.232	1134.513	3.98%	29.90%
11.0	7391.266	157.084	1291.597	3.88%	34.04%
12.0	6537.205	152.258	1443.855	3.76%	38.05%
13.0	5758.991	145.925	1589.78	3.60%	41.90%
14.0	5168.819	139.875	1729.655	3.45%	45.58%
15.0	4625.861	134.466	1864.12	3.32%	49.13%
16.0	4158.679	128.718	1992.839	3.18%	52.52%
17.0	3770.748	123.482	2116.321	3.05%	55.77%
18.0	3421.832	118.590	2234.911	2.93%	58.90%
19.0	3115.951	113.744	2348.655	2.81%	61.89%
20.0	2903.323	110.169	2458.825	2.72%	64.80%
21.0	2681.049	107.231	2566.056	2.65%	67.62%
22.0	2429.669	102.702	2668.758	2.53%	70.33%
23.0	2258.926	98.379	2767.137	2.43%	72.92%
24.0	2081.330	94.894	2862.031	2.34%	75.42%
25.0	1870.759	89.862	2951.893	2.22%	77.79%
26.0	1718.511	84.725	3036.618	2.09%	80.03%
27.0	1508.997	78.962	3115.58	1.95%	82.11%
28.0	1378.839	73.114	3188.693	1.80%	84.03%
29.0	1225.028	68.125	3256.818	1.68%	85.83%
30.0	1056.033	61.588	3318.406	1.52%	87.45%
31.0	950.744	55.846	3374.252	1.38%	88.92%
32.0	825.947	50.900	3425.152	1.26%	90.26%
33.0	689.140	44.635	3469.787	1.10%	91.44%
34.0	579.311	38.387	3508.174	0.95%	92.45%
35.0	482.931	32.989	3541.163	0.81%	93.32%
36.0	401.492	28.160	3569.324	0.69%	94.06%
37.0	341.012	24.216	3593.54	0.60%	94.70%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	296.860	21.291	3614.831	0.53%	95.26%
39.0	232.445	18.067	3632.898	0.45%	95.74%
40.0	200.513	15.100	3647.998	0.37%	96.14%
41.0	172.083	13.268	3661.266	0.33%	96.49%
42.0	132.641	11.071	3672.337	0.27%	96.78%
43.0	112.950	9.097	3681.434	0.22%	97.02%
44.0	94.271	7.821	3689.256	0.19%	97.22%
45.0	82.043	6.776	3696.031	0.17%	97.40%
46.0	70.841	5.979	3702.01	0.15%	97.56%
47.0	62.135	5.289	3707.299	0.13%	97.70%
48.0	55.894	4.771	3712.071	0.12%	97.83%
49.0	51.097	4.394	3716.464	0.11%	97.94%
50.0	47.411	4.107	3720.571	0.10%	98.05%
51.0	44.665	3.896	3724.467	0.10%	98.15%
52.0	42.608	3.745	3728.212	0.09%	98.25%
53.0	41.097	3.641	3731.853	0.09%	98.35%
54.0	40.237	3.585	3735.438	0.09%	98.44%
55.0	39.698	3.568	3739.006	0.09%	98.54%
56.0	39.396	3.574	3742.58	0.09%	98.63%
57.0	39.231	3.595	3746.175	0.09%	98.72%
58.0	39.041	3.620	3749.795	0.09%	98.82%
59.0	38.509	3.625	3753.42	0.09%	98.92%
60.0	37.582	3.595	3757.015	0.09%	99.01%
61.0	36.143	3.518	3760.533	0.09%	99.10%
62.0	33.916	3.376	3763.909	0.08%	99.19%
63.0	31.012	3.158	3767.067	0.08%	99.27%
64.0	27.858	2.889	3769.956	0.07%	99.35%
65.0	24.284	2.580	3772.536	0.06%	99.42%
66.0	21.163	2.268	3774.804	0.06%	99.48%
67.0	18.574	1.998	3776.802	0.05%	99.53%
68.0	16.360	1.770	3778.572	0.04%	99.58%
69.0	14.566	1.578	3780.149	0.04%	99.62%
70.0	13.226	1.427	3781.577	0.04%	99.66%
71.0	12.109	1.309	3782.886	0.03%	99.69%
72.0	11.137	1.209	3784.095	0.03%	99.72%
73.0	10.401	1.126	3785.221	0.03%	99.75%
74.0	9.639	1.054	3786.275	0.03%	99.78%
75.0	9.074	0.989	3787.263	0.02%	99.81%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.417	0.928	3788.192	0.02%	99.83%
77.0	7.878	0.869	3789.06	0.02%	99.85%
78.0	7.208	0.808	3789.868	0.02%	99.88%
79.0	6.498	0.736	3790.604	0.02%	99.90%
80.0	5.874	0.667	3791.271	0.02%	99.91%
81.0	5.177	0.598	3791.869	0.01%	99.93%
82.0	4.540	0.527	3792.396	0.01%	99.94%
83.0	3.916	0.460	3792.856	0.01%	99.95%
84.0	3.292	0.393	3793.248	0.01%	99.96%
85.0	2.773	0.331	3793.579	0.01%	99.97%
86.0	2.319	0.278	3793.858	0.01%	99.98%
87.0	1.899	0.231	3794.088	0.01%	99.99%
88.0	1.597	0.191	3794.28	0.00%	99.99%
89.0	1.334	0.161	3794.441	0.00%	100.00%
90.0	1.229	0.140	3794.581	0.00%	100.00%

Zonal flux distribution table

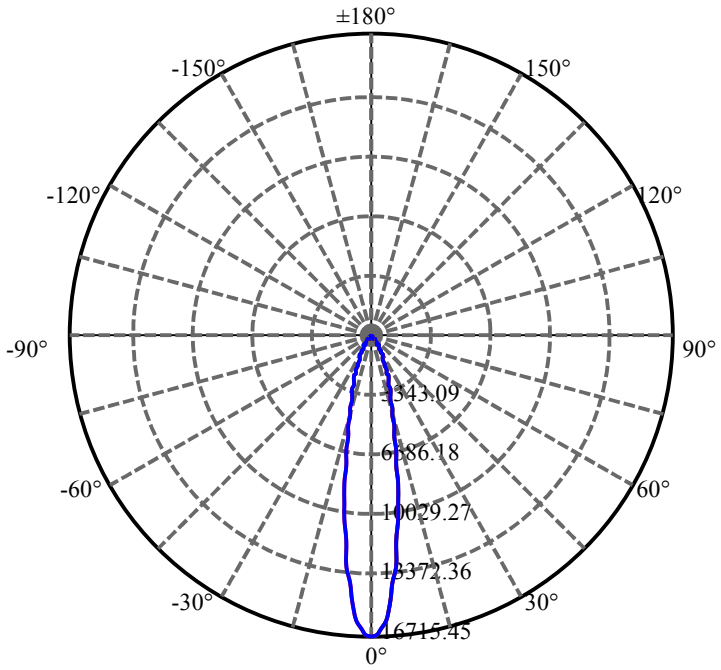
ZONAL LUMEN SUMMARY

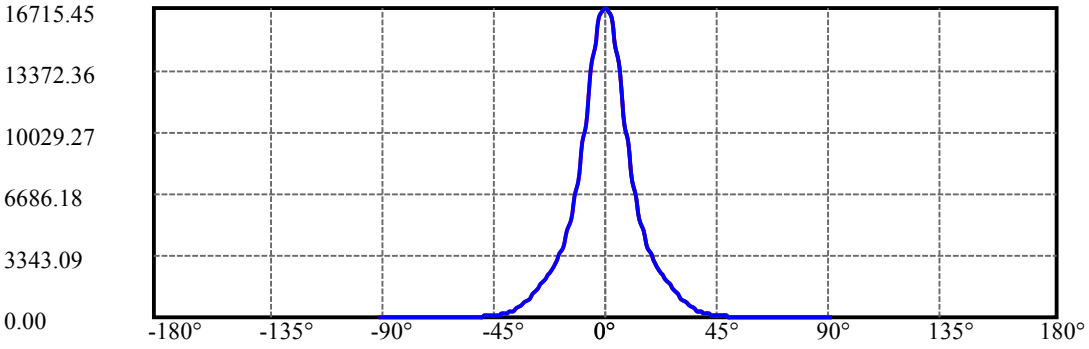
Zone	Lumens	%Lamp	%Fixt
0-30	3318.41	81.88%	87.45%
0-40	3648.00	90.01%	96.14%
0-60	3757.02	92.70%	99.01%
0-90	3794.44	93.62%	100.00%
0-120	3794.44	93.62%	100.00%
0-180	3794.58	93.62%	100.00%
60-90	37.43	0.92%	0.99%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.99	3035.67	74.90%	80.00%

ZONAL LUMEN SUMMARY

0-10	1134.51
10-20	1324.31
20-30	859.58
30-40	329.59
40-50	72.57
50-60	36.44
60-70	24.56
70-80	9.69
80-90	3.17
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:26.2 Right:26.2
:C90/270Left:26.2 Right:26.2

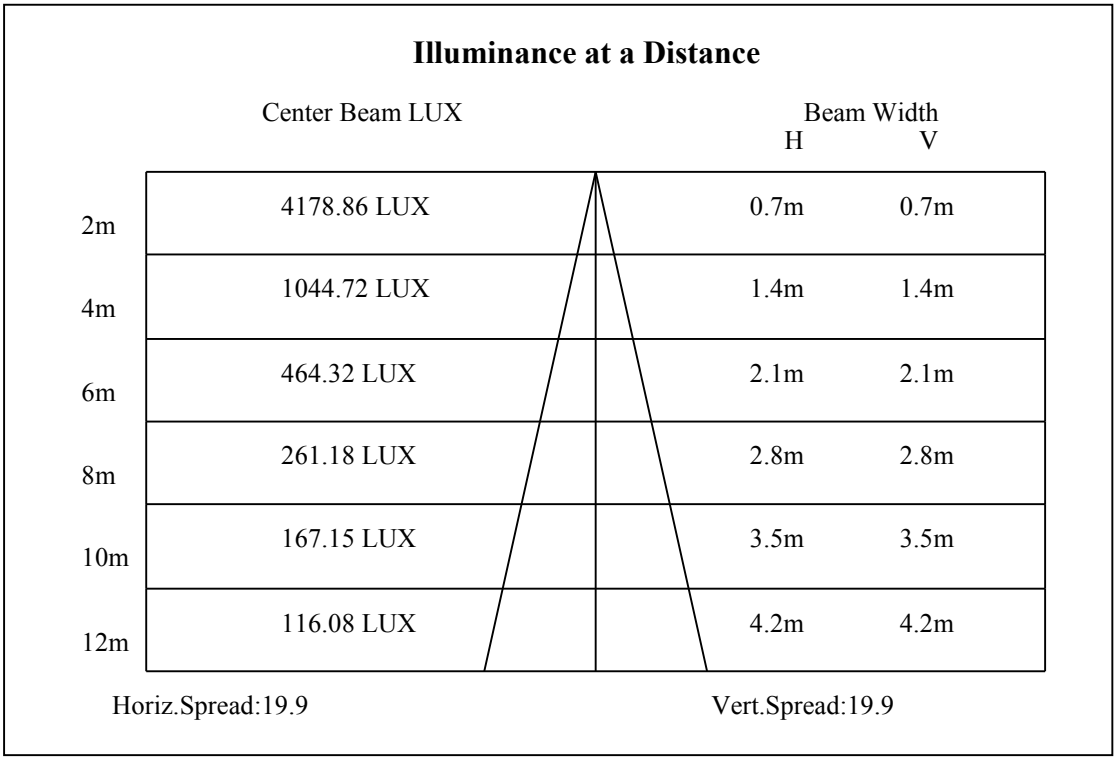
Beam Angle(50%Imax):C0/180Left:10.0 Right:10.0
:C90/270Left:10.0 Right:10.0

Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25

Lux distance Curve

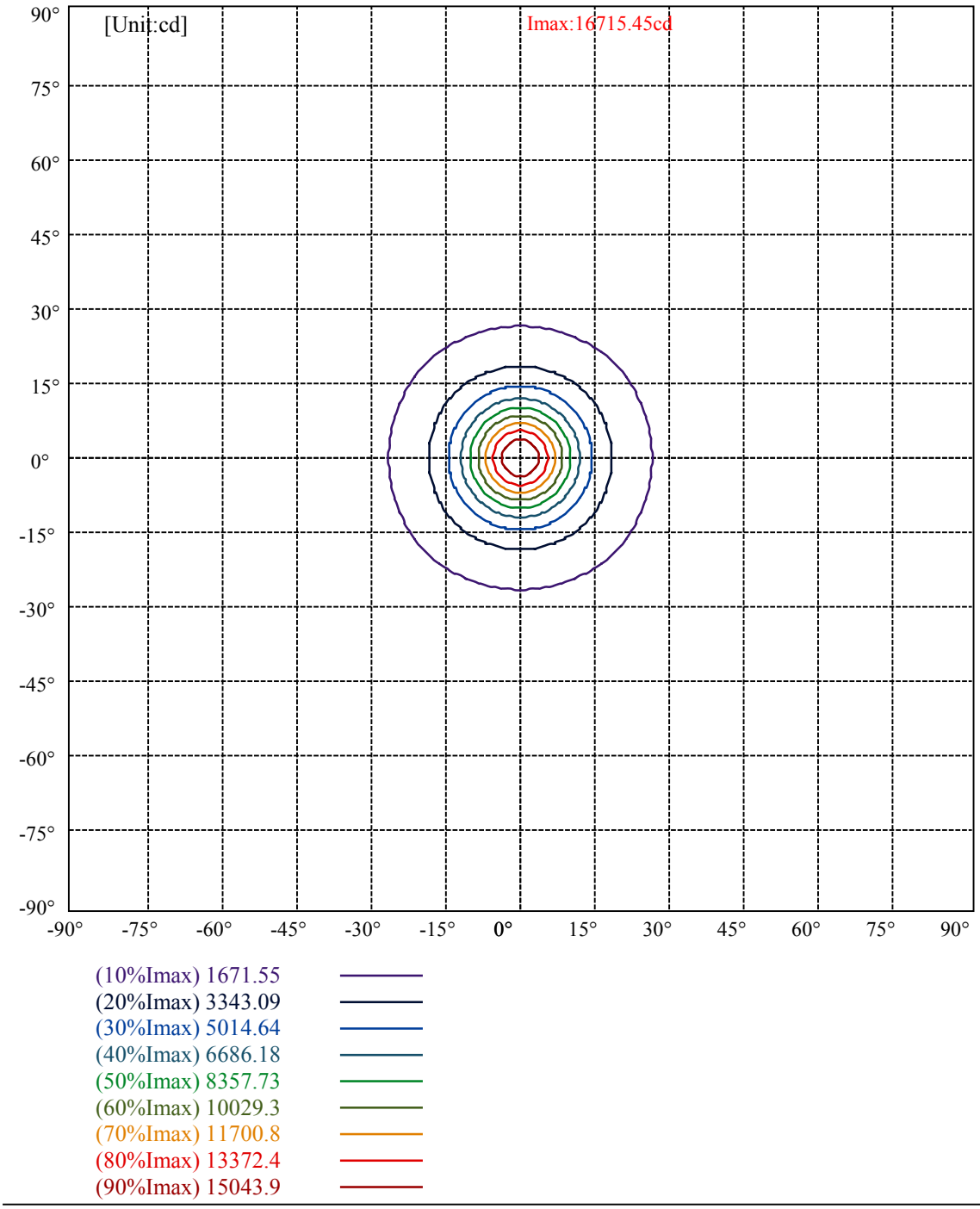


Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25

ISO-Intensity(V-H)



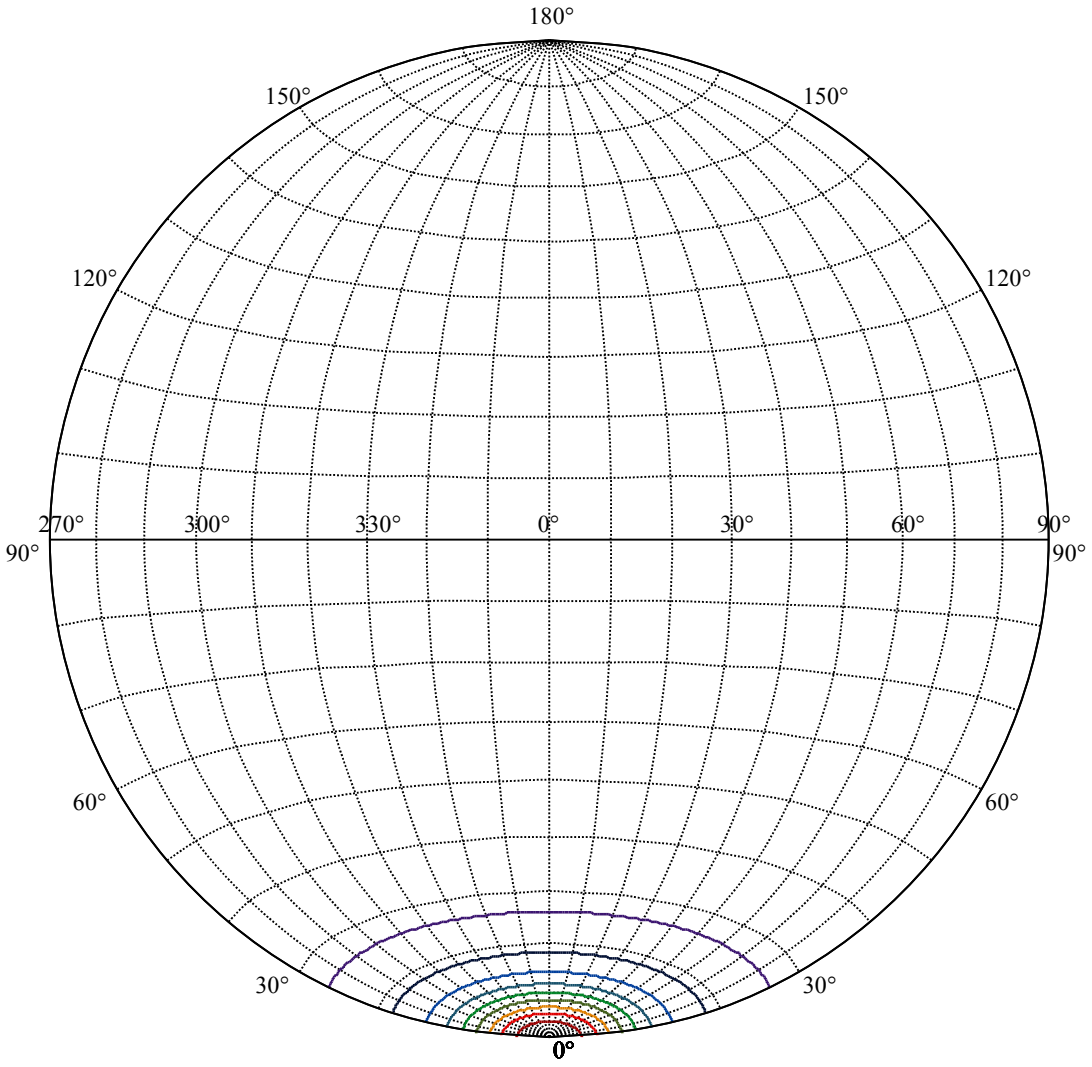
(10%Imax) 1671.55
(20%Imax) 3343.09
(30%Imax) 5014.64
(40%Imax) 6686.18
(50%Imax) 8357.73
(60%Imax) 10029.3
(70%Imax) 11700.8
(80%Imax) 13372.4
(90%Imax) 15043.9

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:16715.45

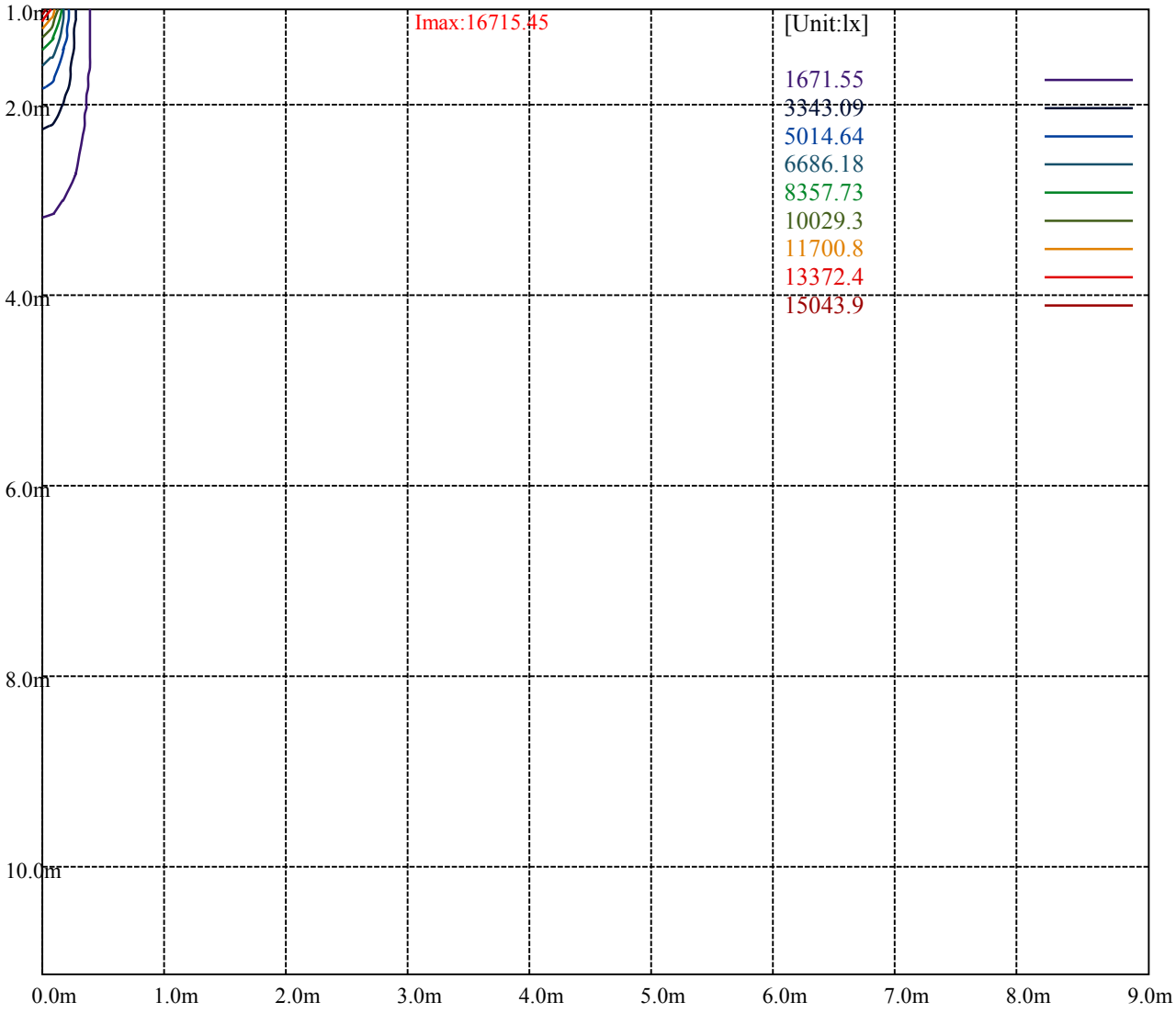
(10%Imax) 1671.55
(20%Imax) 3343.09
(30%Imax) 5014.64
(40%Imax) 6686.18
(50%Imax) 8357.73
(60%Imax) 10029.3
(70%Imax) 11700.8
(80%Imax) 13372.4
(90%Imax) 15043.9

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 2-2748-L

Luminance Limitting Curve(no luminous side)

Luminance Table

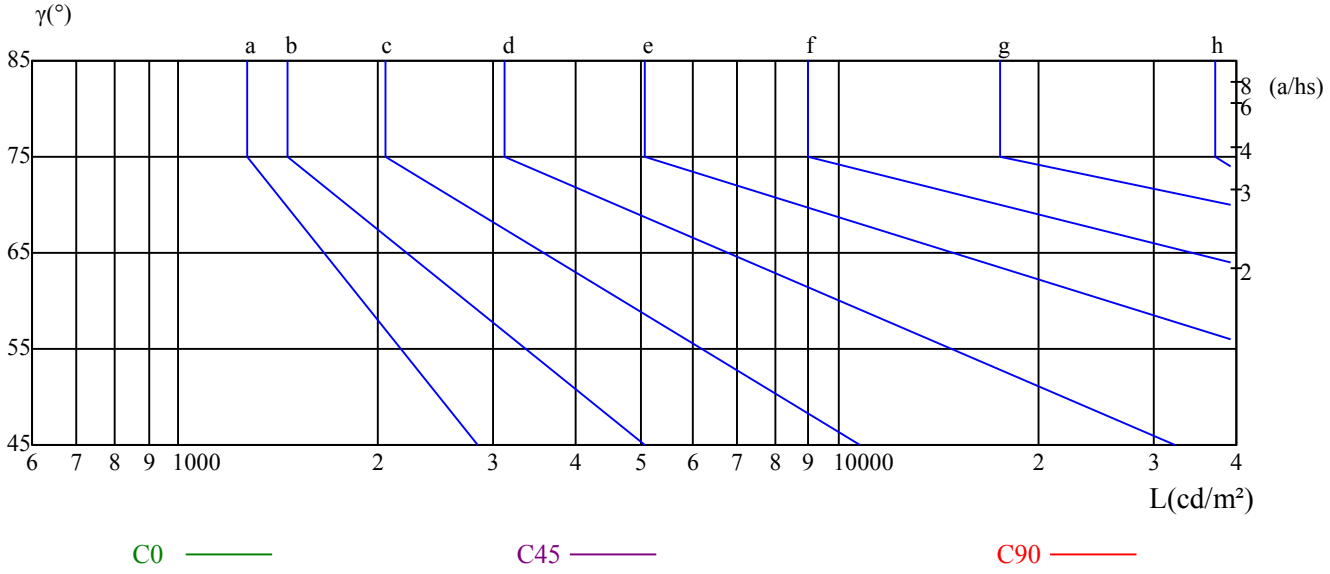
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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%

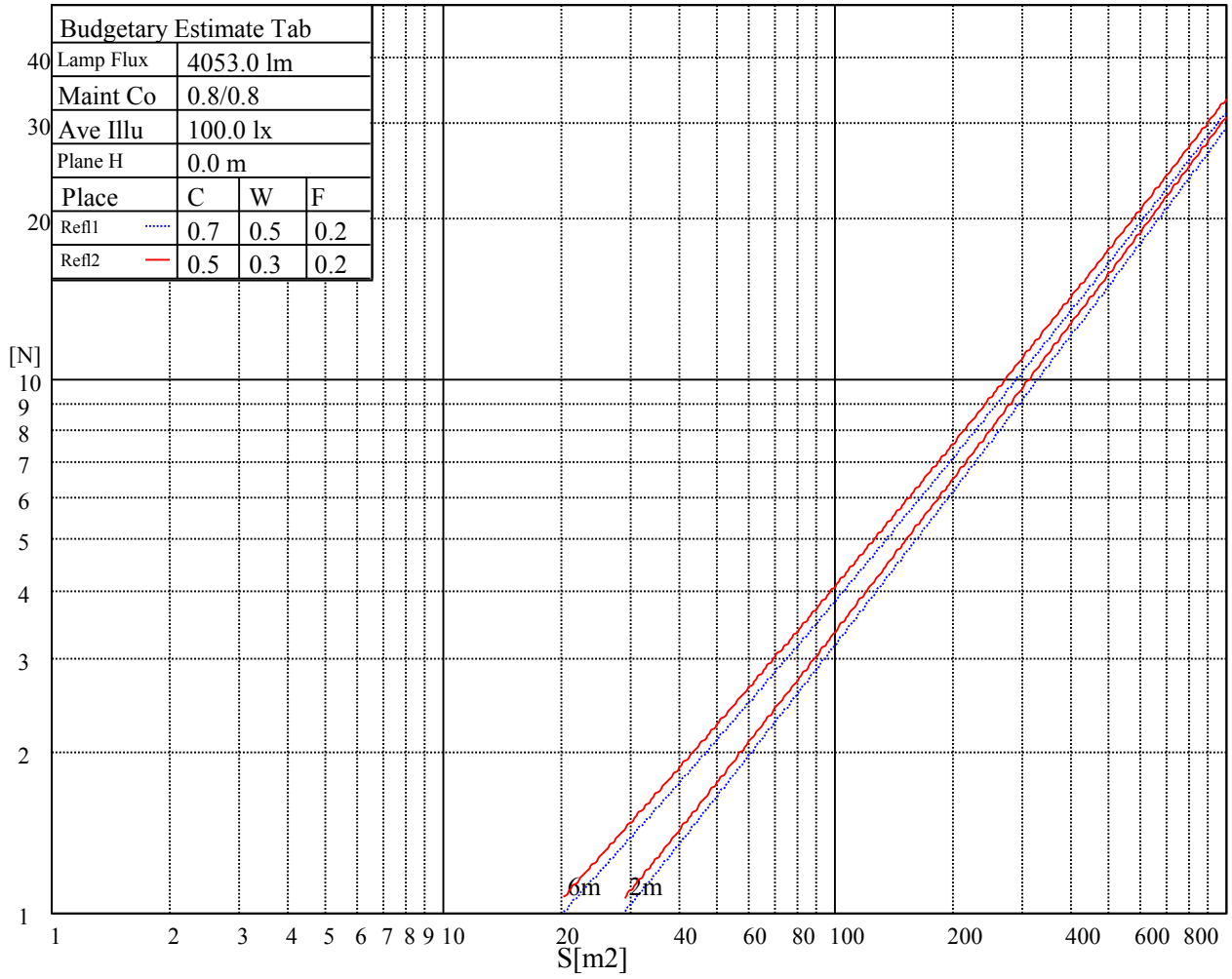
Operator: NT
Distance(m): 7.25

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
Temperature(°C): 25.0

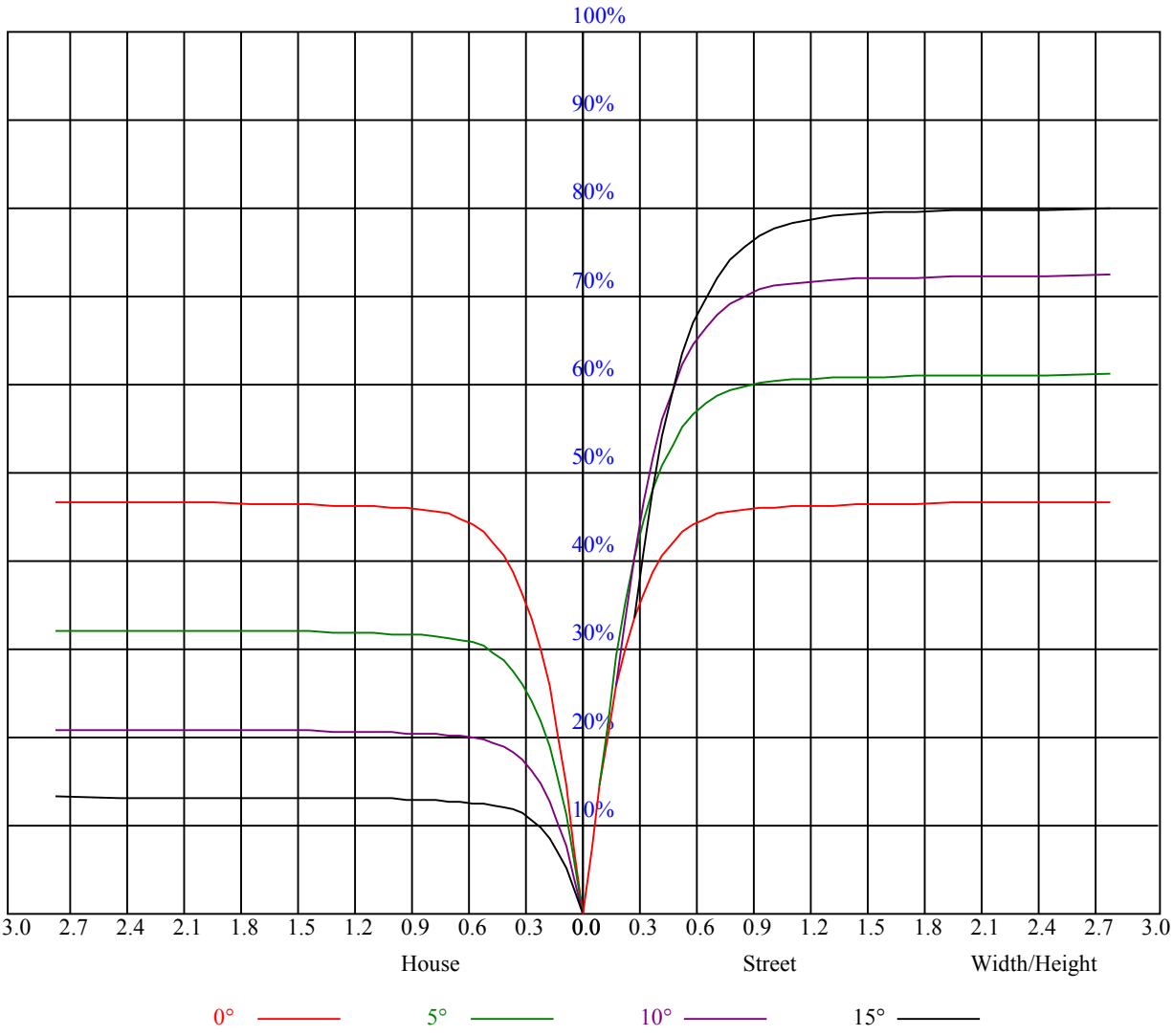
Date: 2024/9/2
Humidity(%): 60.0%

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	1.09	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	1.05	1.03	1.01	1.03	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.99	0.96	0.93	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.87	0.85
3	0.94	0.90	0.87	0.93	0.89	0.87	0.91	0.88	0.85	0.88	0.86	0.84	0.86	0.84	0.83	0.81
4	0.90	0.86	0.82	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.78
5	0.86	0.81	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.75
6	0.82	0.78	0.75	0.82	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
7	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.69
8	0.76	0.72	0.69	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.67
9	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.71	0.68	0.65	0.64
10	0.71	0.67	0.64	0.70	0.66	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.62

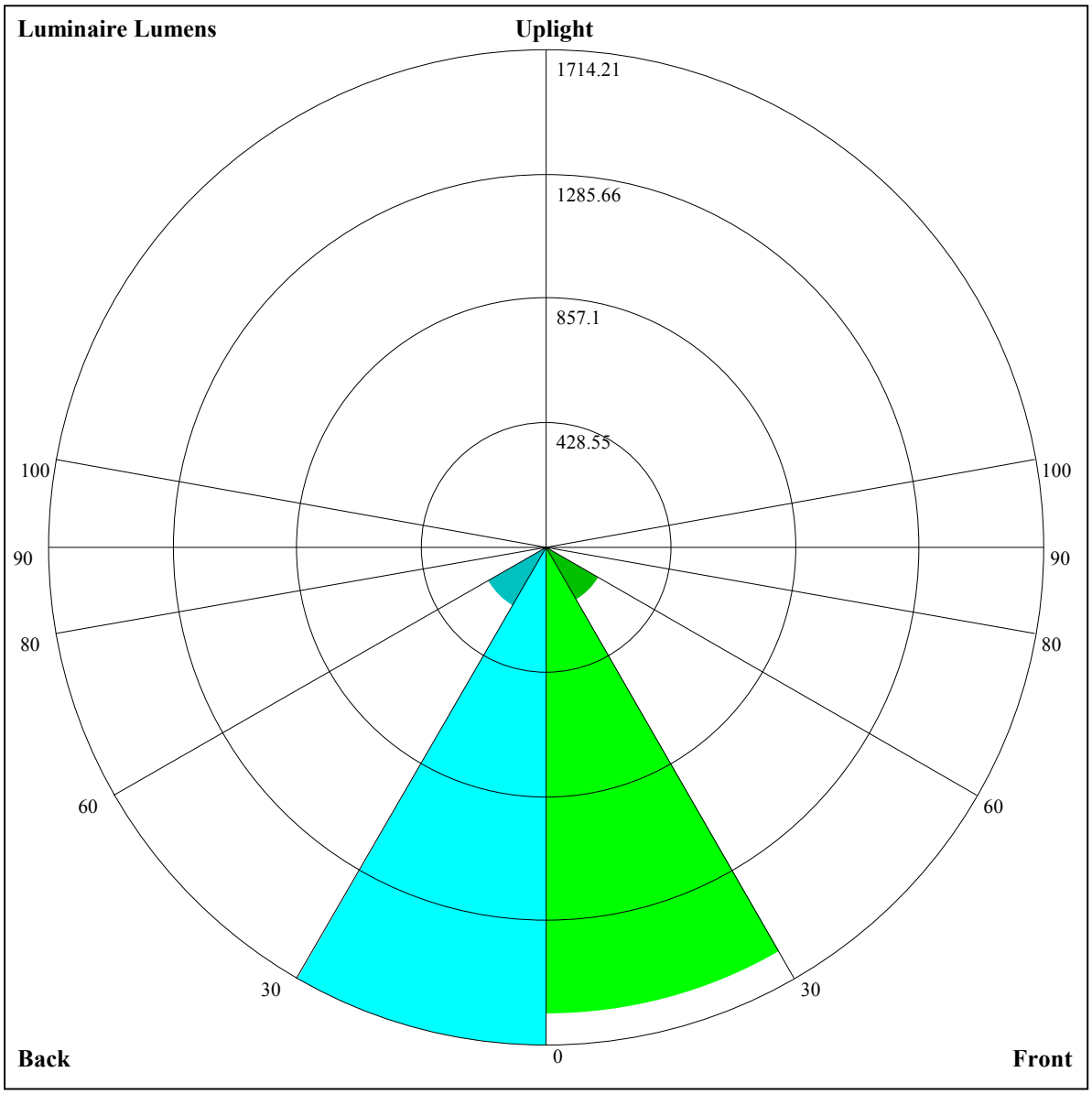
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=1607.87,FM=210.84,FH=16.77,FVH=1.65
BL=1714.21,BM=235.07,BH=17.65,BVH=1.73
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	16634.66	16272.51	15681.92	14868.46	13882.28	10931.84	10931.84	10416.47	8724.90
45.0	16829.67	16662.52	16183.36	15492.48	14589.88	13508.98	12283.23	10996.18	9725.85
90.0	16484.23	15899.21	15085.75	14077.29	11048.27	11048.27	10035.34	9264.25	8099.20
135.0	16913.25	16668.09	16161.08	15447.91	14528.59	13887.85	12678.81	10879.18	10121.44
180.0	16634.66	16757.24	16662.52	16344.94	15787.78	15024.47	14060.57	12918.39	11703.78
225.0	16829.67	16885.39	16679.24	16417.37	15804.49	15013.32	14032.72	12494.95	10653.26
270.0	16484.23	16846.39	16980.11	16902.10	16567.81	16038.50	15264.04	14300.15	13169.11
315.0	16913.25	16924.39	16718.24	16300.37	15631.77	14745.88	13731.85	10800.33	10800.33
360.0	16634.66	16272.51	15681.92	14868.46	13882.28	10931.84	10931.84	10416.47	8724.90

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8060.77	7056.78	6200.96	5486.68	4908.34	4425.29	3986.23	3606.79	3292.57
45.0	8494.52	7402.48	6483.16	5703.14	5090.26	4566.52	4120.79	3714.07	3379.77
90.0	7070.13	6171.99	5450.47	4865.97	4369.00	3936.67	3549.44	3237.43	2967.73
135.0	8856.68	7731.21	6756.17	5931.57	5274.12	4711.39	4243.37	3819.93	3468.91
180.0	10973.89	9252.26	8137.94	7513.91	6583.45	5820.14	5184.98	4638.96	4170.94
225.0	10406.95	9219.67	8114.81	7143.66	6301.25	5603.11	4995.80	4472.07	4116.59
270.0	11976.79	10728.74	10010.00	8845.53	7391.34	6834.18	6054.15	5391.13	4822.82
315.0	10054.31	9073.71	7976.62	6807.16	6154.18	5453.25	4872.12	4389.07	3946.66
360.0	8060.77	7056.78	6200.96	5486.68	4908.34	4425.29	3986.23	3606.79	3292.57

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3014.56	2765.47	2534.25	2335.93	2140.92	1963.74	1788.23	1620.50	1462.29
45.0	3090.04	2844.89	2844.89	2744.60	2244.52	2059.56	1879.06	1709.65	1548.65
90.0	2722.58	2501.98	2295.82	2104.71	1934.77	1769.83	1609.94	1455.04	1362.58
135.0	3168.05	2906.18	2805.89	2576.61	2232.86	2126.99	1949.23	1787.13	1626.65
180.0	3764.21	3413.20	3123.47	2867.18	2778.03	2606.15	2251.25	2071.28	1908.02
225.0	3723.79	3323.79	3098.66	2846.26	2616.19	2411.15	2222.82	2050.67	1885.73
270.0	4326.95	3914.64	3541.35	3234.91	2973.04	2822.61	2822.61	2323.10	2174.88
315.0	3564.47	3257.46	2982.24	2738.19	2517.01	2311.38	2127.52	1948.70	1779.29
360.0	3014.56	2765.47	2534.25	2335.93	2140.92	1963.74	1788.23	1620.50	1462.29

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1096.14	1033.27	1033.27	879.21	735.88	606.62	504.60	422.71	354.17
45.0	1391.54	1236.64	1080.05	927.41	778.66	646.62	534.04	478.32	374.14
90.0	1030.96	1030.96	874.85	729.36	603.10	501.45	419.19	350.49	292.88
135.0	1463.39	1308.49	1148.07	991.49	837.69	693.98	573.04	477.21	399.21
180.0	1779.87	1595.43	1476.80	1322.42	1172.56	1017.14	861.13	716.27	588.65
225.0	1728.62	1575.40	1424.39	1053.30	1053.30	1020.61	802.79	659.71	586.18
270.0	1962.05	1789.91	1661.76	1475.64	1355.32	1200.42	1041.05	888.99	737.40
315.0	1619.40	1460.61	1101.03	1069.44	1069.44	920.74	777.29	640.79	530.83
360.0	1096.14	1033.27	1033.27	879.21	735.88	606.62	504.60	422.71	354.17

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	297.19	248.31	206.41	170.99	141.92	118.06	98.87	83.78	72.01
45.0	312.85	291.14	291.14	184.02	152.22	125.83	104.44	87.73	74.43
90.0	243.36	201.68	166.83	137.92	123.36	96.61	81.89	74.90	62.60
135.0	333.46	299.50	299.50	191.17	165.52	138.08	115.64	97.92	83.57
180.0	488.94	409.83	342.39	284.47	284.47	239.26	157.85	130.20	116.27
225.0	487.10	404.26	336.19	277.79	228.38	187.54	153.85	127.15	105.49
270.0	604.84	500.61	418.71	350.75	291.67	291.67	199.58	178.19	136.35
315.0	444.21	372.77	313.69	262.44	216.56	179.61	149.01	123.73	103.44
360.0	297.19	248.31	206.41	170.99	141.92	118.06	98.87	83.78	72.01

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	66.70	59.29	52.35	50.09	46.73	43.78	42.16	40.89	39.58
45.0	64.76	57.66	52.46	48.73	45.57	42.68	41.00	40.32	38.69
90.0	58.71	53.98	50.20	46.78	44.10	42.73	41.31	40.21	40.16
135.0	72.80	64.76	58.50	53.72	49.36	45.83	43.84	42.47	41.00
180.0	96.50	80.95	69.12	60.66	54.35	50.14	46.41	43.31	41.42
225.0	88.31	74.74	64.86	57.24	51.98	47.94	44.42	42.00	40.79
270.0	121.73	101.50	84.94	72.17	62.81	56.14	51.51	47.83	44.68
315.0	86.83	73.85	64.65	57.77	53.88	50.04	46.68	43.84	42.47
360.0	66.70	59.29	52.35	50.09	46.73	43.78	42.16	40.89	39.58

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	39.42	39.42	39.16	38.90	39.16	38.11	36.22	34.11	31.01
45.0	38.48	38.63	38.37	38.21	38.16	37.74	36.43	34.32	32.06
90.0	40.11	39.79	39.53	39.37	38.11	35.90	33.69	30.22	26.18
135.0	40.47	40.68	40.58	40.11	40.11	39.95	37.74	36.43	34.27
180.0	40.26	38.90	38.42	38.69	38.69	38.42	38.74	38.63	37.11
225.0	39.11	38.32	38.53	38.42	38.00	38.06	38.11	37.00	35.22
270.0	42.73	41.52	40.37	39.95	40.16	40.26	39.95	40.21	39.53
315.0	41.31	40.32	40.21	40.21	39.95	39.63	39.79	38.21	35.95
360.0	39.42	39.42	39.16	38.90	39.16	38.11	36.22	34.11	31.01

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	26.81	23.39	19.87	17.98	15.87	13.61	12.93	11.77	10.88
45.0	28.28	24.44	21.18	18.03	15.98	14.35	12.93	11.72	10.88
90.0	23.07	21.08	17.19	16.14	14.51	13.30	12.25	11.35	10.57
135.0	30.33	26.23	22.92	19.66	17.19	15.40	13.93	12.72	11.77
180.0	35.16	32.54	29.12	24.39	21.66	18.29	16.03	14.30	12.98
225.0	33.01	29.54	25.49	22.29	19.03	16.45	14.82	13.35	12.14
270.0	37.74	35.74	32.90	28.49	25.39	22.13	18.82	16.66	15.03
315.0	33.69	29.91	25.60	22.34	18.98	17.35	14.82	13.93	12.62
360.0	26.81	23.39	19.87	17.98	15.87	13.61	12.93	11.77	10.88

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.20	9.51	8.83	8.30	7.78	7.15	6.57	5.83	5.10
45.0	10.14	9.67	8.78	8.52	7.94	7.36	6.68	5.99	5.26
90.0	9.83	9.25	8.67	8.04	7.31	6.62	5.94	5.15	4.36
135.0	10.88	10.14	9.41	8.88	8.30	7.88	6.89	6.20	5.78
180.0	11.93	11.04	10.14	9.46	8.83	8.36	7.73	7.04	6.47
225.0	11.20	10.35	9.67	9.25	8.41	8.04	7.46	6.57	6.15
270.0	13.61	12.46	11.56	10.78	10.04	9.36	8.78	8.25	7.52
315.0	11.30	10.78	10.04	9.36	8.73	8.25	7.62	6.94	6.36
360.0	10.20	9.51	8.83	8.30	7.78	7.15	6.57	5.83	5.10

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.52	3.94	3.26	2.68	2.31	1.94	1.52	1.37	1.26
45.0	4.68	3.84	3.36	2.79	2.37	1.94	1.68	1.42	1.21
90.0	3.84	3.31	2.68	2.21	1.89	1.52	1.31	1.16	1.10
135.0	4.78	4.10	3.57	2.89	2.26	1.89	1.52	1.26	1.05
180.0	5.83	5.15	4.52	3.73	3.15	2.73	2.16	1.79	1.37
225.0	5.31	4.73	4.26	3.63	3.10	2.63	2.10	1.79	1.42
270.0	6.78	6.15	5.41	4.68	3.94	3.26	2.79	2.26	1.84
315.0	5.68	5.10	4.26	3.73	3.15	2.63	2.10	1.73	1.42
360.0	4.52	3.94	3.26	2.68	2.31	1.94	1.52	1.37	1.26

Intensity data(cd)

C/γ(°)	90.0
0.0	1.26
45.0	1.21
90.0	1.10
135.0	1.10
180.0	1.16
225.0	1.26
270.0	1.47
315.0	1.26
360.0	1.26