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Nata

Client:
LumCAT: 63-0013
Luminaire: 92.70.411.00
Report No: 2024624-B007
Ballast type: AC

Test No: 2024624-C007	Voltage(V): 35.520
LampCAT: LUMILEDS 1208	Current(A): 0.901
Lamp flux(lm): 4560.4	Power (W): 32.003
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3814.30, Efficiency(%): 83.64% , Luminous Efficacy(lm/W): 119.19
Central intensity(cd): 7229.382, Maximum intensity(cd): 7229.382
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=35.8
[C90/270]Total=35.8
Field angle(10%Imax): [C0/180]Total=70.4
[C90/270]Total=70.4
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.61 C90_270=0.61
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 83.64%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 95.519%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7229.383	0.000	0	0.00%	0.00%
1.0	7209.792	6.909	6.909	0.15%	0.18%
2.0	7171.956	20.642	27.551	0.45%	0.72%
3.0	7090.011	34.110	61.661	0.75%	1.62%
4.0	7004.574	47.179	108.84	1.03%	2.85%
5.0	6856.608	59.630	168.47	1.31%	4.42%
6.0	6713.339	71.314	239.784	1.56%	6.29%
7.0	6537.568	82.248	322.032	1.80%	8.44%
8.0	6333.104	92.113	414.145	2.02%	10.86%
9.0	6104.346	100.799	514.944	2.21%	13.50%
10.0	5857.337	108.249	623.192	2.37%	16.34%
11.0	5593.475	114.417	737.61	2.51%	19.34%
12.0	5316.574	119.262	856.872	2.62%	22.46%
13.0	5026.621	122.748	979.62	2.69%	25.68%
14.0	4730.529	124.891	1104.51	2.74%	28.96%
15.0	4429.708	125.756	1230.266	2.76%	32.25%
16.0	4143.246	125.618	1355.884	2.75%	35.55%
17.0	3834.044	124.228	1480.112	2.72%	38.80%
18.0	3593.393	122.462	1602.574	2.69%	42.01%
19.0	3314.360	120.181	1722.755	2.64%	45.17%
20.0	3036.505	116.238	1838.993	2.55%	48.21%
21.0	2811.709	112.298	1951.291	2.46%	51.16%
22.0	2589.155	108.533	2059.824	2.38%	54.00%
23.0	2372.193	104.102	2163.926	2.28%	56.73%
24.0	2160.372	99.098	2263.024	2.17%	59.33%
25.0	1991.359	94.401	2357.425	2.07%	61.80%
26.0	1797.550	89.438	2446.863	1.96%	64.15%
27.0	1638.040	84.052	2530.915	1.84%	66.35%
28.0	1484.798	79.064	2609.979	1.73%	68.43%
29.0	1306.483	73.028	2683.007	1.60%	70.34%
30.0	1214.365	68.062	2751.069	1.49%	72.13%
31.0	1085.713	64.008	2815.077	1.40%	73.80%
32.0	992.107	59.527	2874.604	1.31%	75.36%
33.0	894.907	55.592	2930.196	1.22%	76.82%
34.0	807.620	51.523	2981.72	1.13%	78.17%
35.0	732.594	47.833	3029.553	1.05%	79.43%
36.0	670.239	44.666	3074.22	0.98%	80.60%
37.0	612.169	41.825	3116.045	0.92%	81.69%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	562.377	39.205	3155.249	0.86%	82.72%
39.0	519.214	36.918	3192.167	0.81%	83.69%
40.0	479.555	34.833	3227.001	0.76%	84.60%
41.0	434.807	32.560	3259.561	0.71%	85.46%
42.0	402.899	30.435	3289.996	0.67%	86.25%
43.0	371.866	28.700	3318.695	0.63%	87.01%
44.0	346.374	27.108	3345.804	0.59%	87.72%
45.0	322.873	25.720	3371.524	0.56%	88.39%
46.0	301.034	24.400	3395.923	0.54%	89.03%
47.0	281.552	23.171	3419.094	0.51%	89.64%
48.0	266.252	22.145	3441.239	0.49%	90.22%
49.0	251.564	21.264	3462.504	0.47%	90.78%
50.0	236.424	20.346	3482.85	0.45%	91.31%
51.0	222.077	19.399	3502.248	0.43%	91.82%
52.0	209.096	18.502	3520.75	0.41%	92.30%
53.0	197.352	17.680	3538.431	0.39%	92.77%
54.0	188.210	16.994	3555.425	0.37%	93.21%
55.0	177.445	16.322	3571.747	0.36%	93.64%
56.0	167.286	15.577	3587.324	0.34%	94.05%
57.0	159.639	14.948	3602.272	0.33%	94.44%
58.0	150.233	14.330	3616.602	0.31%	94.82%
59.0	142.625	13.691	3630.293	0.30%	95.18%
60.0	134.392	13.087	3643.38	0.29%	95.52%
61.0	127.260	12.487	3655.867	0.27%	95.85%
62.0	118.885	11.861	3667.728	0.26%	96.16%
63.0	111.825	11.221	3678.948	0.25%	96.45%
64.0	104.758	10.628	3689.576	0.23%	96.73%
65.0	97.355	10.002	3699.578	0.22%	96.99%
66.0	90.887	9.392	3708.97	0.21%	97.24%
67.0	84.052	8.796	3717.767	0.19%	97.47%
68.0	78.132	8.216	3725.983	0.18%	97.68%
69.0	72.984	7.709	3733.692	0.17%	97.89%
70.0	68.352	7.259	3740.951	0.16%	98.08%
71.0	63.881	6.835	3747.785	0.15%	98.26%
72.0	59.758	6.429	3754.214	0.14%	98.42%
73.0	55.970	6.052	3760.266	0.13%	98.58%
74.0	52.189	5.686	3765.952	0.12%	98.73%
75.0	48.761	5.334	3771.286	0.12%	98.87%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	45.353	4.996	3776.282	0.11%	99.00%
77.0	41.681	4.640	3780.922	0.10%	99.12%
78.0	38.744	4.305	3785.227	0.09%	99.24%
79.0	35.555	3.992	3789.219	0.09%	99.34%
80.0	32.746	3.682	3792.902	0.08%	99.44%
81.0	29.905	3.388	3796.29	0.07%	99.53%
82.0	27.032	3.088	3799.377	0.07%	99.61%
83.0	24.384	2.795	3802.172	0.06%	99.68%
84.0	21.388	2.494	3804.666	0.05%	99.75%
85.0	18.605	2.183	3806.849	0.05%	99.80%
86.0	16.331	1.910	3808.758	0.04%	99.85%
87.0	14.089	1.665	3810.423	0.04%	99.90%
88.0	12.408	1.451	3811.875	0.03%	99.94%
89.0	10.945	1.280	3813.155	0.03%	99.97%
90.0	10.024	1.150	3814.304	0.03%	100.00%

Zonal flux distribution table

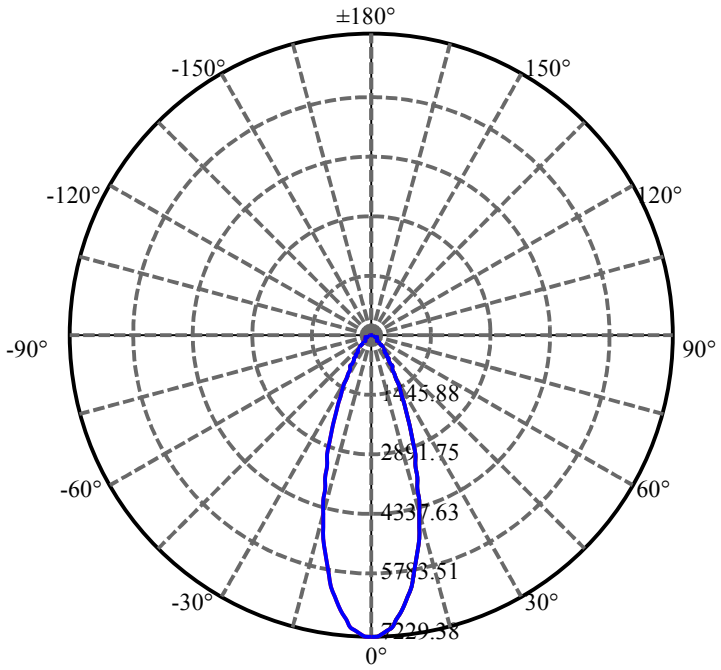
ZONAL LUMEN SUMMARY

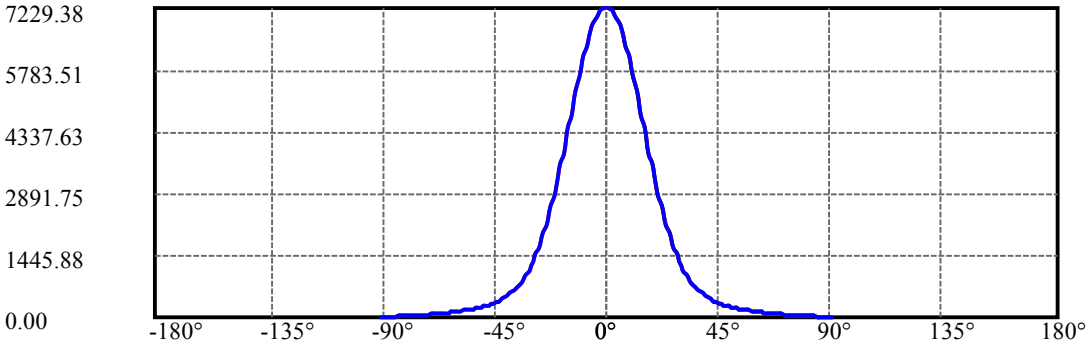
Zone	Lumens	%Lamp	%Fixt
0-30	2751.07	60.33%	72.13%
0-40	3227.00	70.76%	84.60%
0-60	3643.38	79.89%	95.52%
0-90	3813.15	83.61%	99.97%
0-120	3813.15	83.61%	99.97%
0-180	3814.30	83.64%	100.00%
60-90	169.77	3.72%	4.45%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-35.49	3051.44	66.91%	80.00%

ZONAL LUMEN SUMMARY

0-10	623.19
10-20	1215.80
20-30	912.08
30-40	475.93
40-50	255.85
50-60	160.53
60-70	97.57
70-80	51.95
80-90	20.25
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):

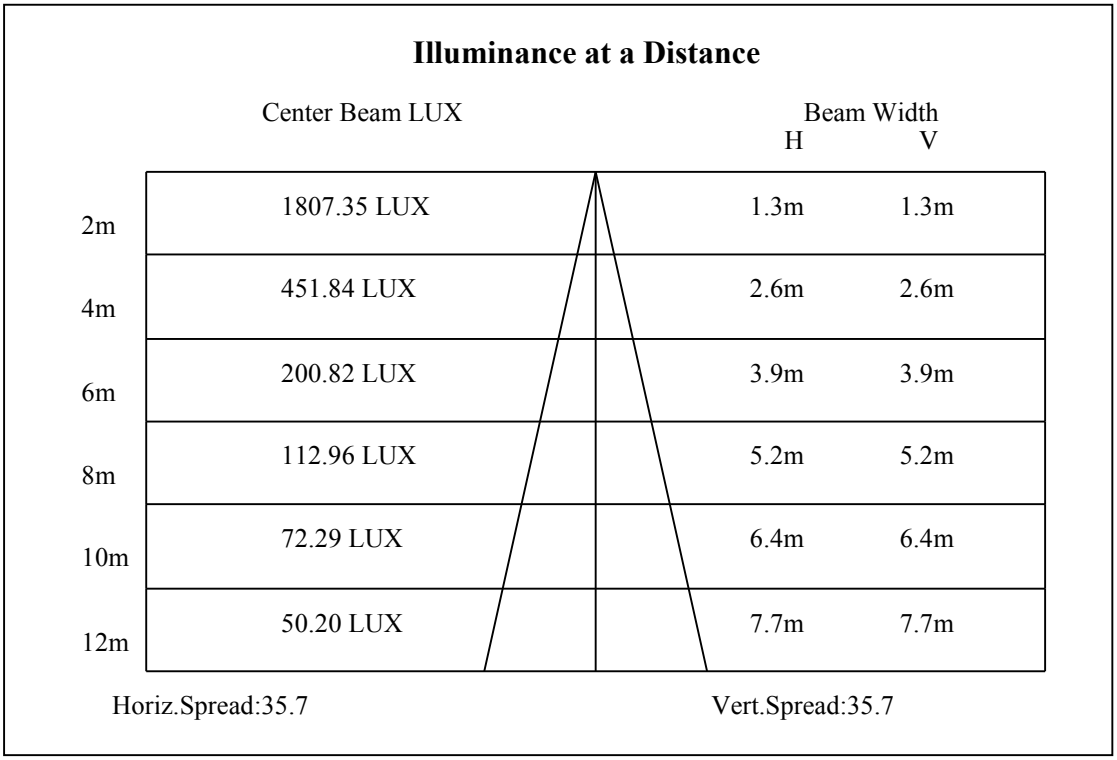
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:35.2 Right:35.2
:C90/270Left:35.2 Right:35.2

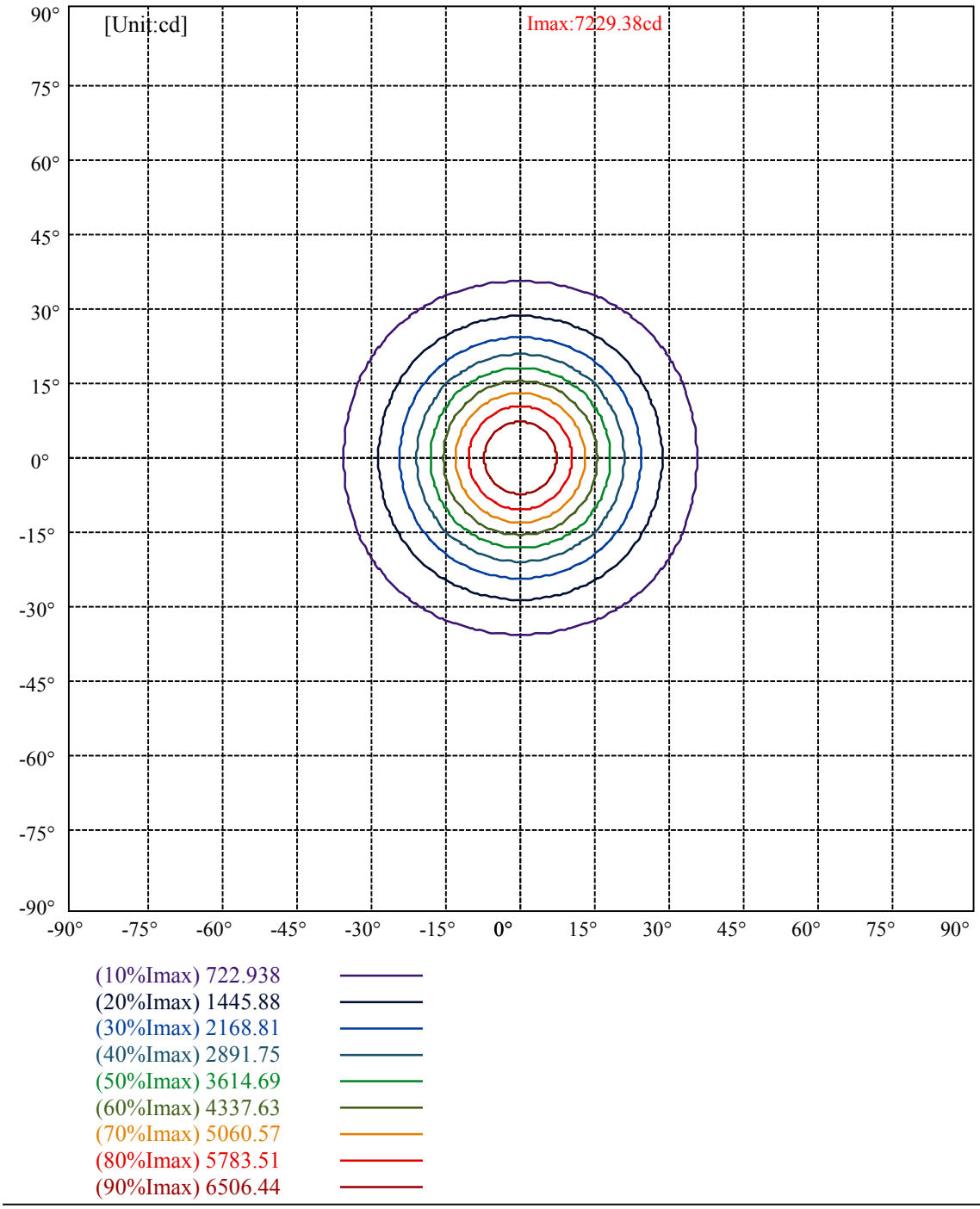
Beam Angle(50%Imax):C0/180Left:17.9 Right:17.9
:C90/270Left:17.9 Right:17.9

Lux distance Curve



Equipment: GMS 1800
Date: 2024/6/24
Operator: NT
Temperature(°C): 25.0
Humidity(%): 60.0%
Distance(m): 7.18

ISO-Intensity(V-H)

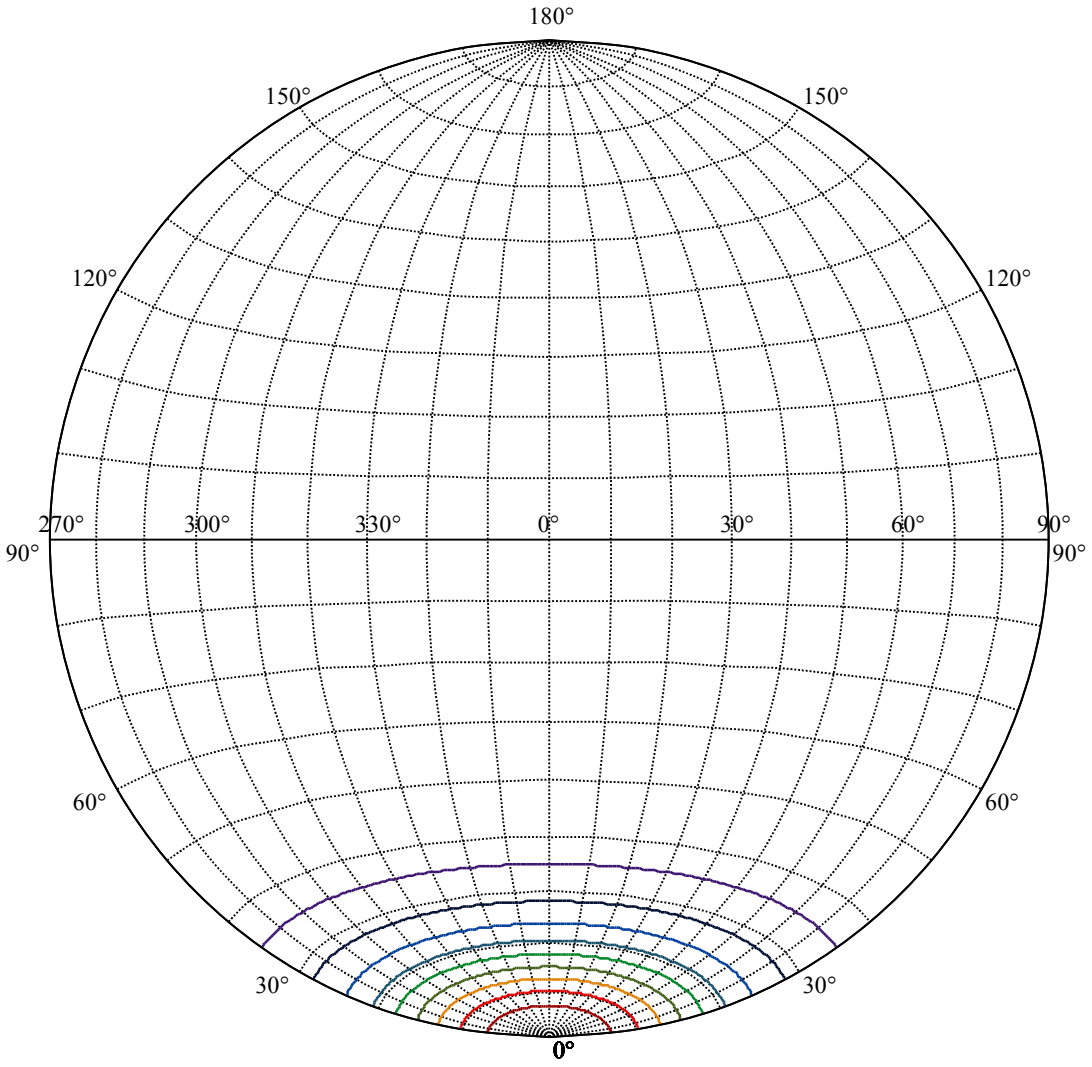


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/6/24
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.18

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:7229.38

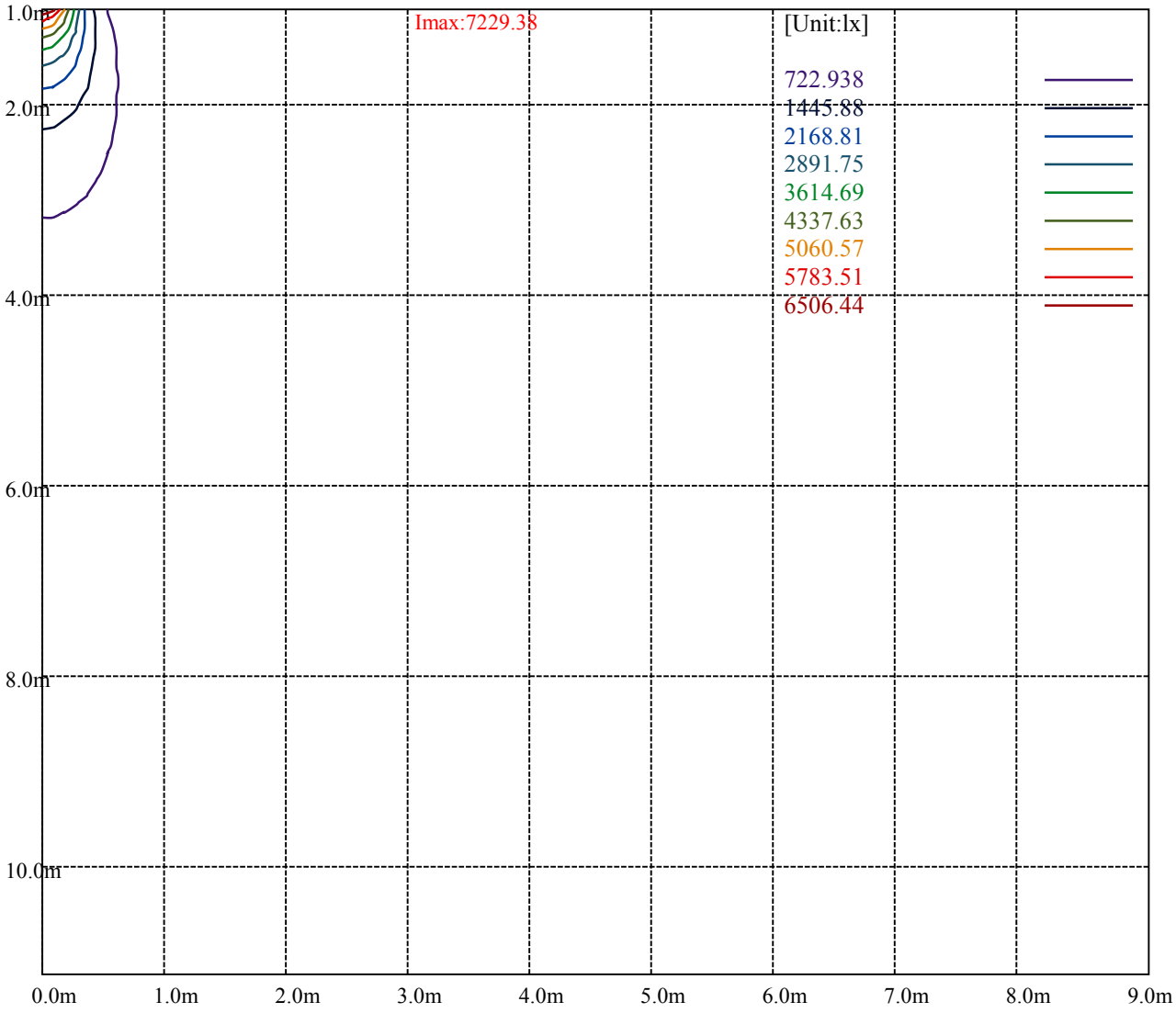
(10%Imax) 722.938
(20%Imax) 1445.88
(30%Imax) 2168.81
(40%Imax) 2891.75
(50%Imax) 3614.69
(60%Imax) 4337.63
(70%Imax) 5060.57
(80%Imax) 5783.51
(90%Imax) 6506.44

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/6/24
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.18

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/6/24
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.18

Luminance Limitting Curve(no luminous side)

Luminance Table

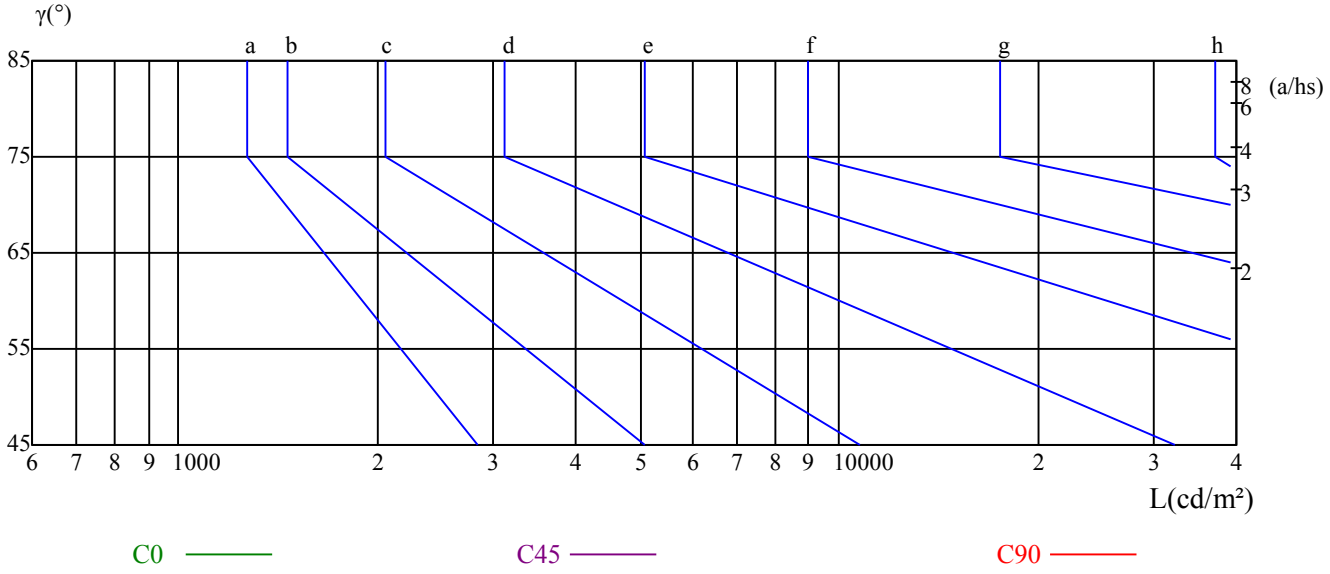
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

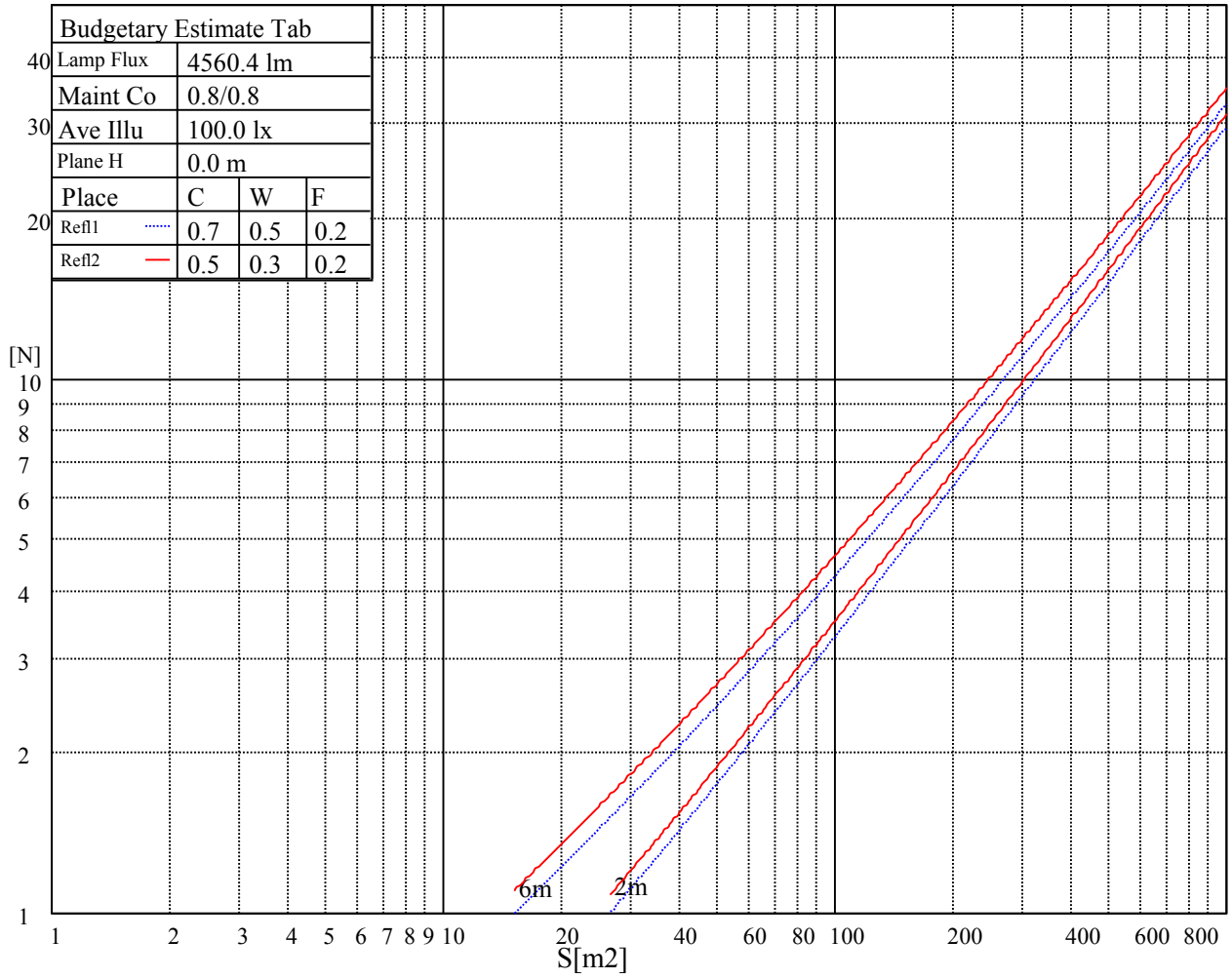
Luminance Limitting Curve



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

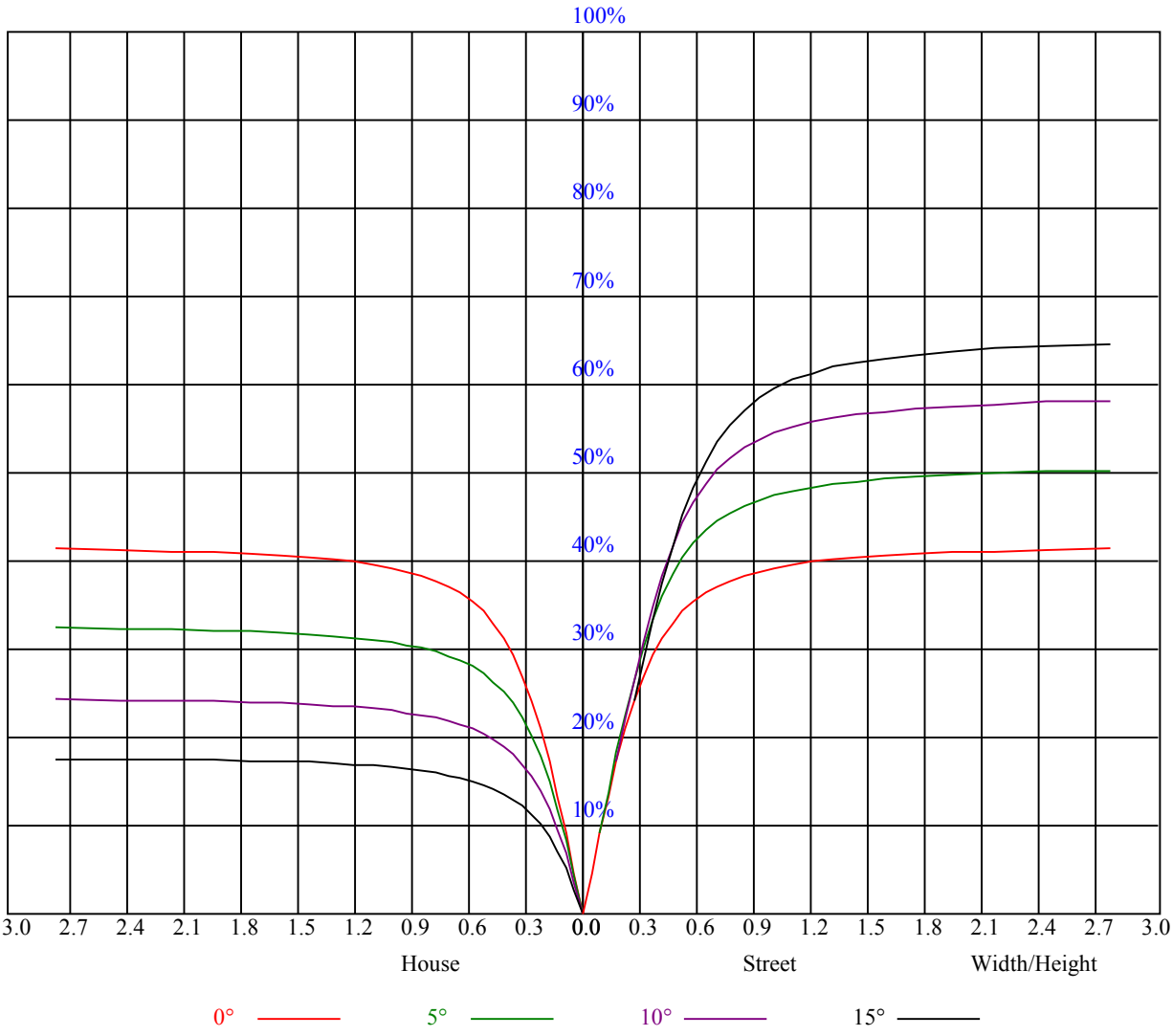
Date: 2024/6/24
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.18

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	1.00	1.00	1.00	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.84
1	0.92	0.90	0.88	0.90	0.88	0.86	0.87	0.85	0.84	0.84	0.82	0.81	0.81	0.80	0.79	0.77
2	0.85	0.82	0.79	0.84	0.81	0.78	0.81	0.79	0.76	0.79	0.76	0.75	0.76	0.75	0.73	0.72
3	0.80	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.70	0.74	0.71	0.69	0.72	0.70	0.68	0.67
4	0.74	0.70	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.70	0.67	0.64	0.68	0.66	0.63	0.62
5	0.70	0.65	0.61	0.69	0.65	0.61	0.68	0.64	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.58
6	0.66	0.61	0.57	0.65	0.61	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.62	0.59	0.56	0.55
7	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.53	0.59	0.56	0.53	0.52
8	0.59	0.54	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.57	0.53	0.50	0.56	0.53	0.50	0.49
9	0.56	0.52	0.48	0.56	0.51	0.48	0.55	0.51	0.48	0.54	0.51	0.48	0.54	0.50	0.48	0.47
10	0.54	0.49	0.46	0.53	0.49	0.46	0.53	0.49	0.46	0.52	0.48	0.46	0.52	0.48	0.46	0.45

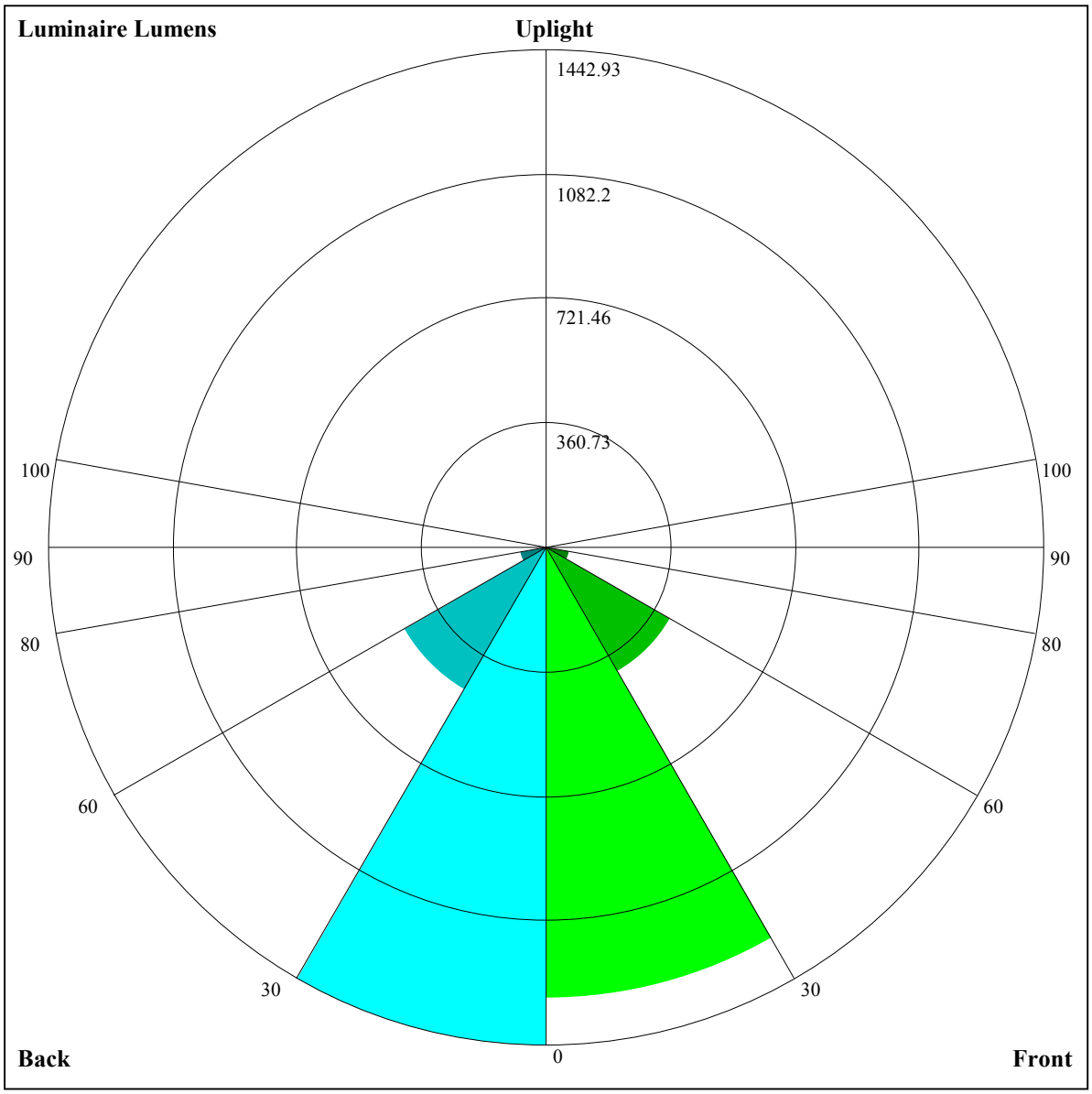
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/6/24
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.18



Luminaire Lumens:
FL=1307.45,FM=417.48,FH=70.04,FVH=9.36
BL=1442.93,BM=478.48,BH=78.98,BVH=11.97
UL=0,UH=0

BUG Rating:B3-U0-G1

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	7216.97	7148.12	7059.06	6927.95	6831.26	6591.97	6474.00	6260.94	6023.82
45.0	7278.15	7250.84	7181.47	7073.29	6944.91	6796.32	6616.04	6412.26	6189.92
90.0	7228.42	7161.78	7080.91	6950.88	6847.65	6660.83	6436.84	6268.57	6038.56
135.0	7193.99	7215.89	7229.55	7176.00	7139.36	7059.06	6932.33	6791.37	6619.29
180.0	7216.97	7255.73	7254.65	7229.55	7164.51	7065.09	6944.91	6801.22	6624.24
225.0	7278.15	7289.08	7262.33	7207.13	7166.67	7006.65	6925.79	6763.54	6566.31
270.0	7228.42	7250.84	7251.35	7221.87	7156.31	7053.08	6943.26	6782.66	6622.02
315.0	7193.99	7106.07	7056.33	6933.41	6785.91	6619.86	6433.55	6219.97	5980.68
360.0	7216.97	7148.12	7059.06	6927.95	6831.26	6591.97	6474.00	6260.94	6023.82

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5763.81	5490.09	5208.74	4907.71	4604.00	4298.58	4003.58	3705.84	3425.63
45.0	5934.24	5672.53	5391.19	5100.05	4799.58	4499.12	4186.07	4000.85	3587.31
90.0	5776.90	5507.05	5223.48	4942.14	4632.96	4324.30	4021.62	3728.26	3444.75
135.0	6412.26	6205.75	5966.46	5708.04	5433.29	5156.28	4857.46	4559.21	4248.90
180.0	6423.70	6202.45	5971.92	5696.60	5423.97	5141.02	4848.18	4540.60	4248.33
225.0	6367.47	6125.97	5864.87	5608.11	5319.09	5023.57	4715.42	4407.33	4095.37
270.0	6425.35	6195.90	5944.09	5684.59	5409.23	5119.69	4819.22	4508.39	4210.66
315.0	5731.03	5458.96	5177.05	4885.34	4590.85	4281.68	3986.11	3695.48	3411.41
360.0	5763.81	5490.09	5208.74	4907.71	4604.00	4298.58	4003.58	3705.84	3425.63

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3159.02	2901.69	2661.89	2433.52	2224.85	2025.96	1836.97	1730.44	1509.70
45.0	3422.90	3148.61	2890.77	2659.16	2432.44	2217.73	2017.77	1833.16	1662.15
90.0	3166.65	2919.17	2676.06	2446.10	2235.20	2046.73	1865.37	1761.57	1596.60
135.0	3951.68	3661.06	3379.19	3119.70	2867.83	2686.47	2419.87	2251.08	2063.12
180.0	3952.25	3712.44	3439.80	3128.98	2917.00	2682.09	2475.06	2255.41	2053.28
225.0	3812.94	3536.49	3255.71	3014.25	2816.50	2534.02	2312.77	2146.15	1911.24
270.0	4032.54	3741.92	3343.69	3187.42	2931.74	2694.10	2458.67	2240.67	2035.80
315.0	3249.16	2893.50	2644.93	2504.54	2287.67	2090.43	1896.50	1712.40	1548.51
360.0	3159.02	2901.69	2661.89	2433.52	2224.85	2025.96	1836.97	1730.44	1509.70

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1424.51	1288.45	1035.35	1035.35	926.96	834.14	749.05	680.61	619.18
45.0	1505.89	1363.34	1232.74	1112.04	1001.64	903.31	813.17	732.87	668.40
90.0	1397.71	1317.98	1057.30	1057.30	997.05	902.17	821.52	752.71	694.27
135.0	1885.57	1715.13	1564.33	1425.59	1298.86	1179.19	1073.80	972.73	878.72
180.0	1880.67	1707.51	1547.95	1407.56	1274.79	1154.61	1045.91	937.73	845.95
225.0	1767.60	1605.31	1452.34	1309.22	1060.91	1060.91	950.10	849.04	765.80
270.0	1841.35	1672.51	1510.84	1361.12	1225.63	1096.16	975.46	872.18	785.85
315.0	1401.01	1208.15	1051.02	1006.74	899.85	806.36	730.24	663.09	602.58
360.0	1424.51	1288.45	1035.35	1035.35	926.96	834.14	749.05	680.61	619.18

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	566.97	522.80	482.04	458.84	406.94	374.53	357.52	323.97	311.34
45.0	613.25	574.44	524.19	483.22	451.01	414.93	382.72	354.27	329.69
90.0	640.41	588.36	536.77	487.76	451.22	405.04	378.80	350.51	321.55
135.0	800.08	737.25	679.32	626.34	576.09	528.57	483.22	441.17	418.75
180.0	771.11	699.58	638.35	583.72	552.08	507.24	446.06	423.13	388.18
225.0	691.90	628.71	573.98	522.23	493.17	433.74	410.71	376.07	347.01
270.0	707.20	641.65	586.45	554.81	505.64	446.06	423.13	389.27	359.22
315.0	570.99	504.56	477.91	436.78	400.30	368.34	341.03	316.55	295.26
360.0	566.97	522.80	482.04	458.84	406.94	374.53	357.52	323.97	311.34

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	292.32	273.77	256.81	241.82	228.37	216.05	204.61	193.89	183.89
45.0	307.84	288.72	272.33	272.33	242.69	228.98	216.82	210.07	194.81
90.0	305.78	285.83	267.28	251.92	238.72	224.81	211.15	201.51	191.57
135.0	385.97	357.57	333.55	312.22	292.58	273.98	273.98	244.50	231.41
180.0	359.22	333.55	310.57	289.85	277.79	277.79	237.69	224.24	211.98
225.0	322.73	299.69	279.03	258.93	241.87	227.13	213.37	201.57	189.81
270.0	332.42	309.49	288.72	272.89	272.89	236.71	223.98	212.34	200.95
315.0	276.71	259.65	244.14	230.07	217.59	205.95	195.02	184.66	174.40
360.0	292.32	273.77	256.81	241.82	228.37	216.05	204.61	193.89	183.89

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	174.66	165.64	157.14	148.64	140.49	132.66	124.93	117.46	109.78
45.0	188.63	178.84	166.16	160.54	152.19	143.95	136.01	128.43	120.65
90.0	180.69	171.21	162.34	153.89	146.11	137.92	130.39	125.91	116.12
135.0	219.14	207.70	196.82	186.31	176.11	168.79	157.65	150.44	142.24
180.0	200.02	191.62	179.71	170.02	162.65	152.40	145.85	137.76	129.88
225.0	179.40	169.04	159.92	152.45	143.89	135.34	127.14	121.73	112.04
270.0	194.40	179.46	169.10	163.27	150.13	144.62	135.70	126.84	118.49
315.0	168.74	156.06	147.09	141.99	130.29	125.34	117.46	109.52	101.89
360.0	174.66	165.64	157.14	148.64	140.49	132.66	124.93	117.46	109.78

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	105.60	95.71	91.63	83.96	73.44	70.86	66.95	63.19	59.22
45.0	113.18	106.07	99.11	92.41	86.07	79.88	74.21	69.16	64.27
90.0	109.11	105.34	96.58	93.13	87.61	82.31	77.26	72.67	68.44
135.0	132.76	126.68	119.57	112.51	105.96	99.73	93.75	87.77	82.05
180.0	122.66	115.75	108.90	102.30	96.07	89.73	83.70	78.13	73.03
225.0	106.58	99.21	92.56	86.12	79.73	73.03	67.21	62.98	59.01
270.0	110.29	102.41	94.83	87.61	78.70	68.60	63.86	59.84	55.76
315.0	94.42	86.89	75.66	69.06	64.83	60.92	56.95	53.08	49.27
360.0	105.60	95.71	91.63	83.96	73.44	70.86	66.95	63.19	59.22

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	55.25	51.54	47.93	44.27	40.72	37.37	34.02	31.18	28.45
45.0	60.40	57.52	53.24	49.53	46.69	42.62	39.94	36.54	33.24
90.0	64.63	60.87	57.10	53.44	49.73	46.28	42.88	39.48	36.33
135.0	76.95	72.72	68.65	64.78	60.92	57.00	53.34	49.73	47.78
180.0	68.34	63.91	59.94	56.12	53.96	48.81	45.41	43.40	38.81
225.0	54.99	51.18	47.52	44.07	40.82	37.57	34.48	31.59	29.12
270.0	51.80	47.72	44.22	42.21	37.62	34.48	32.52	28.35	26.75
315.0	45.71	42.31	38.91	35.66	32.37	29.33	27.37	24.17	21.49
360.0	55.25	51.54	47.93	44.27	40.72	37.37	34.02	31.18	28.45

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	25.82	23.30	19.79	15.56	13.14	11.24	9.84	8.97	8.97
45.0	30.36	27.52	25.25	22.21	19.43	16.54	14.17	12.06	10.20
90.0	33.35	30.82	27.68	25.36	22.52	19.74	16.75	14.28	12.32
135.0	42.67	39.27	36.28	33.14	29.69	27.62	24.58	21.80	18.24
180.0	36.85	32.78	30.41	27.68	24.74	21.34	17.83	15.05	12.68
225.0	26.75	24.53	21.96	18.86	15.93	13.81	11.29	9.95	8.30
270.0	24.33	21.18	19.07	16.34	13.71	11.60	9.64	8.56	8.19
315.0	19.12	16.85	14.64	11.96	9.69	8.76	8.61	8.61	8.66
360.0	25.82	23.30	19.79	15.56	13.14	11.24	9.84	8.97	8.97

Intensity data(cd)

C/γ(°)	90.0
0.0	8.86
45.0	9.02
90.0	11.54
135.0	15.15
180.0	11.13
225.0	7.58
270.0	8.19
315.0	8.71
360.0	8.86