NATA LIGHTING CO.,LTD.
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Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

Client:
LumCAT: 2-2456-L
Luminaire: 92.70.412.00
Report No: 2024807-B004
Ballast type: AC

Test No: 2024807-C004	Voltage(V): 36.140
LampCAT: P2141-036-1206-P3090-1	Current(A): 0.694
Lamp flux(lm): 3145.0	Power (W): 25.080
Number of Lamps: 1	PF: 0.000
Length(mm): 40	Width(mm): 280
Phm Type: C	Height(mm): 25

Photometric Results

Lumens(lm): 2784.33, Efficiency(%): 88.53% , Luminous Efficacy(lm/W): 111.02
Central intensity(cd): 5949.247, Maximum intensity(cd): 5949.247
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=38.0
[C90/270]Total=38.0
Field angle(10%Imax): [C0/180]Total=66.4
[C90/270]Total=66.4
Maximum s/h(1/2): C0_180=0.62 C90_270=0.62
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(%): 88.53%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.064%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5949.247	0.000	0	0.00%	0.00%
1.0	5938.242	5.688	5.688	0.18%	0.20%
2.0	5908.242	17.003	22.691	0.54%	0.81%
3.0	5848.406	28.118	50.809	0.89%	1.82%
4.0	5771.803	38.897	89.706	1.24%	3.22%
5.0	5689.897	49.308	139.013	1.57%	4.99%
6.0	5574.844	59.199	198.213	1.88%	7.12%
7.0	5445.928	68.406	266.618	2.18%	9.58%
8.0	5293.556	76.860	343.479	2.44%	12.34%
9.0	5137.058	84.534	428.013	2.69%	15.37%
10.0	4949.568	91.280	519.293	2.90%	18.65%
11.0	4770.796	97.126	616.42	3.09%	22.14%
12.0	4568.752	102.095	718.515	3.25%	25.81%
13.0	4354.179	105.893	824.407	3.37%	29.61%
14.0	4131.373	108.614	933.022	3.45%	33.51%
15.0	3922.654	110.569	1043.591	3.52%	37.48%
16.0	3671.096	111.270	1154.861	3.54%	41.48%
17.0	3452.962	110.941	1265.801	3.53%	45.46%
18.0	3227.804	110.151	1375.953	3.50%	49.42%
19.0	2972.547	107.873	1483.826	3.43%	53.29%
20.0	2756.502	104.858	1588.684	3.33%	57.06%
21.0	2532.731	101.564	1690.248	3.23%	60.71%
22.0	2323.387	97.586	1787.833	3.10%	64.21%
23.0	2136.028	93.571	1881.404	2.98%	67.57%
24.0	1943.531	89.194	1970.598	2.84%	70.77%
25.0	1766.718	84.363	2054.961	2.68%	73.80%
26.0	1596.783	79.396	2134.356	2.52%	76.66%
27.0	1394.352	73.179	2207.535	2.33%	79.28%
28.0	1281.907	67.757	2275.292	2.15%	81.72%
29.0	1106.408	62.485	2337.777	1.99%	83.96%
30.0	974.883	56.194	2393.972	1.79%	85.98%
31.0	858.129	51.010	2444.982	1.62%	87.81%
32.0	739.975	45.784	2490.766	1.46%	89.46%
33.0	613.937	39.887	2530.652	1.27%	90.89%
34.0	503.687	33.823	2564.475	1.08%	92.10%
35.0	419.567	28.673	2593.148	0.91%	93.13%
36.0	339.665	24.174	2617.322	0.77%	94.00%
37.0	264.317	19.699	2637.021	0.63%	94.71%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	214.744	15.990	2653.011	0.51%	95.28%
39.0	172.280	13.210	2666.221	0.42%	95.76%
40.0	135.802	10.745	2676.966	0.34%	96.14%
41.0	102.661	8.492	2685.457	0.27%	96.45%
42.0	89.823	6.993	2692.451	0.22%	96.70%
43.0	81.978	6.364	2698.815	0.20%	96.93%
44.0	73.837	5.881	2704.696	0.19%	97.14%
45.0	67.076	5.415	2710.111	0.17%	97.33%
46.0	61.176	5.016	2715.127	0.16%	97.51%
47.0	56.071	4.663	2719.79	0.15%	97.68%
48.0	51.222	4.337	2724.127	0.14%	97.84%
49.0	46.794	4.025	2728.152	0.13%	97.98%
50.0	42.983	3.743	2731.896	0.12%	98.12%
51.0	39.415	3.486	2735.382	0.11%	98.24%
52.0	36.170	3.243	2738.625	0.10%	98.36%
53.0	33.397	3.026	2741.651	0.10%	98.47%
54.0	30.887	2.833	2744.485	0.09%	98.57%
55.0	28.463	2.649	2747.134	0.08%	98.66%
56.0	26.649	2.490	2749.624	0.08%	98.75%
57.0	24.803	2.353	2751.977	0.07%	98.84%
58.0	23.173	2.219	2754.195	0.07%	98.92%
59.0	21.682	2.097	2756.292	0.07%	98.99%
60.0	20.355	1.986	2758.278	0.06%	99.06%
61.0	19.139	1.885	2760.163	0.06%	99.13%
62.0	18.075	1.793	2761.956	0.06%	99.20%
63.0	16.984	1.705	2763.661	0.05%	99.26%
64.0	16.104	1.624	2765.285	0.05%	99.32%
65.0	15.118	1.545	2766.83	0.05%	99.37%
66.0	14.185	1.462	2768.292	0.05%	99.42%
67.0	13.410	1.388	2769.68	0.04%	99.47%
68.0	12.589	1.317	2770.997	0.04%	99.52%
69.0	11.728	1.241	2772.237	0.04%	99.57%
70.0	10.986	1.167	2773.404	0.04%	99.61%
71.0	10.237	1.097	2774.501	0.03%	99.65%
72.0	9.481	1.025	2775.526	0.03%	99.68%
73.0	8.732	0.952	2776.478	0.03%	99.72%
74.0	8.022	0.881	2777.359	0.03%	99.75%
75.0	7.418	0.816	2778.175	0.03%	99.78%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.767	0.753	2778.928	0.02%	99.81%
77.0	6.288	0.696	2779.624	0.02%	99.83%
78.0	5.723	0.643	2780.267	0.02%	99.85%
79.0	5.131	0.583	2780.85	0.02%	99.87%
80.0	4.685	0.529	2781.379	0.02%	99.89%
81.0	4.179	0.479	2781.859	0.02%	99.91%
82.0	3.765	0.431	2782.289	0.01%	99.93%
83.0	3.344	0.386	2782.676	0.01%	99.94%
84.0	2.924	0.341	2783.017	0.01%	99.95%
85.0	2.569	0.300	2783.317	0.01%	99.96%
86.0	2.260	0.264	2783.581	0.01%	99.97%
87.0	1.932	0.229	2783.811	0.01%	99.98%
88.0	1.656	0.197	2784.007	0.01%	99.99%
89.0	1.478	0.172	2784.179	0.01%	99.99%
90.0	1.353	0.155	2784.334	0.00%	100.00%

Zonal flux distribution table

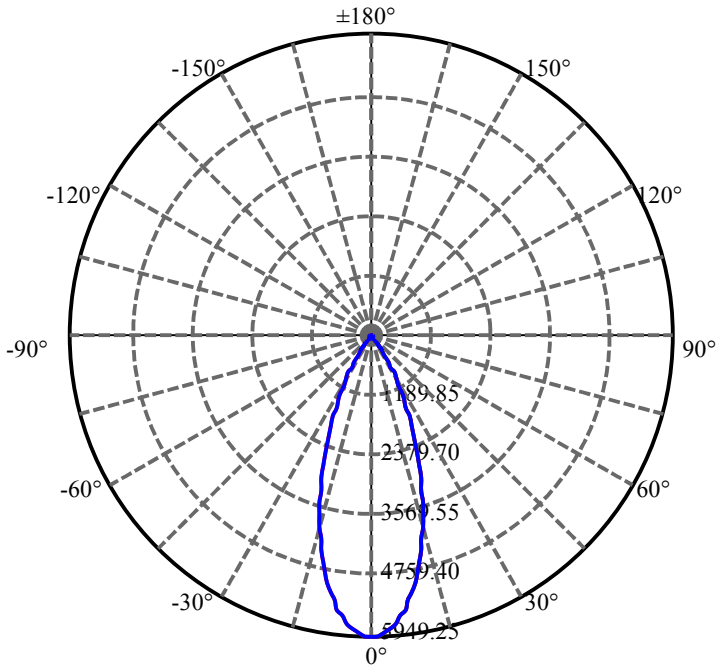
ZONAL LUMEN SUMMARY

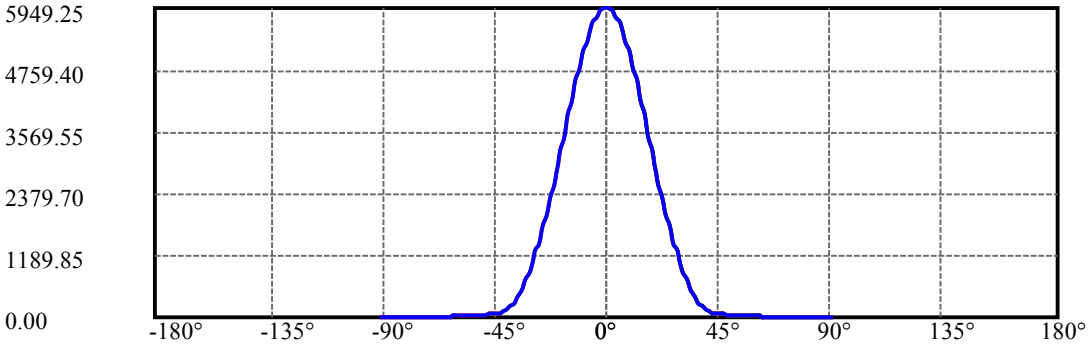
Zone	Lumens	%Lamp	%Fixt
0-30	2393.97	76.12%	85.98%
0-40	2676.97	85.12%	96.14%
0-60	2758.28	87.70%	99.06%
0-90	2784.18	88.53%	99.99%
0-120	2784.18	88.53%	99.99%
0-180	2784.33	88.53%	100.00%
60-90	25.90	0.82%	0.93%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.29	2227.47	70.83%	80.00%

ZONAL LUMEN SUMMARY

0-10	519.29
10-20	1069.39
20-30	805.29
30-40	282.99
40-50	54.93
50-60	26.38
60-70	15.13
70-80	7.98
80-90	2.80
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):

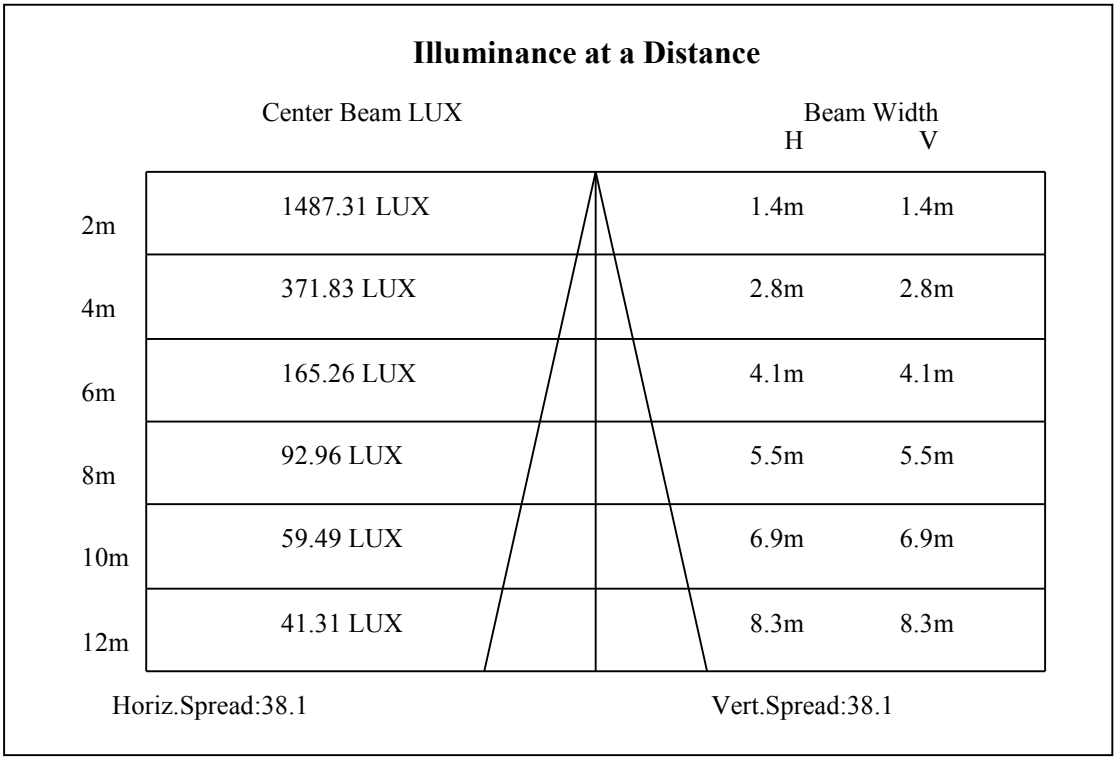
C0/C180:

C90/C270:

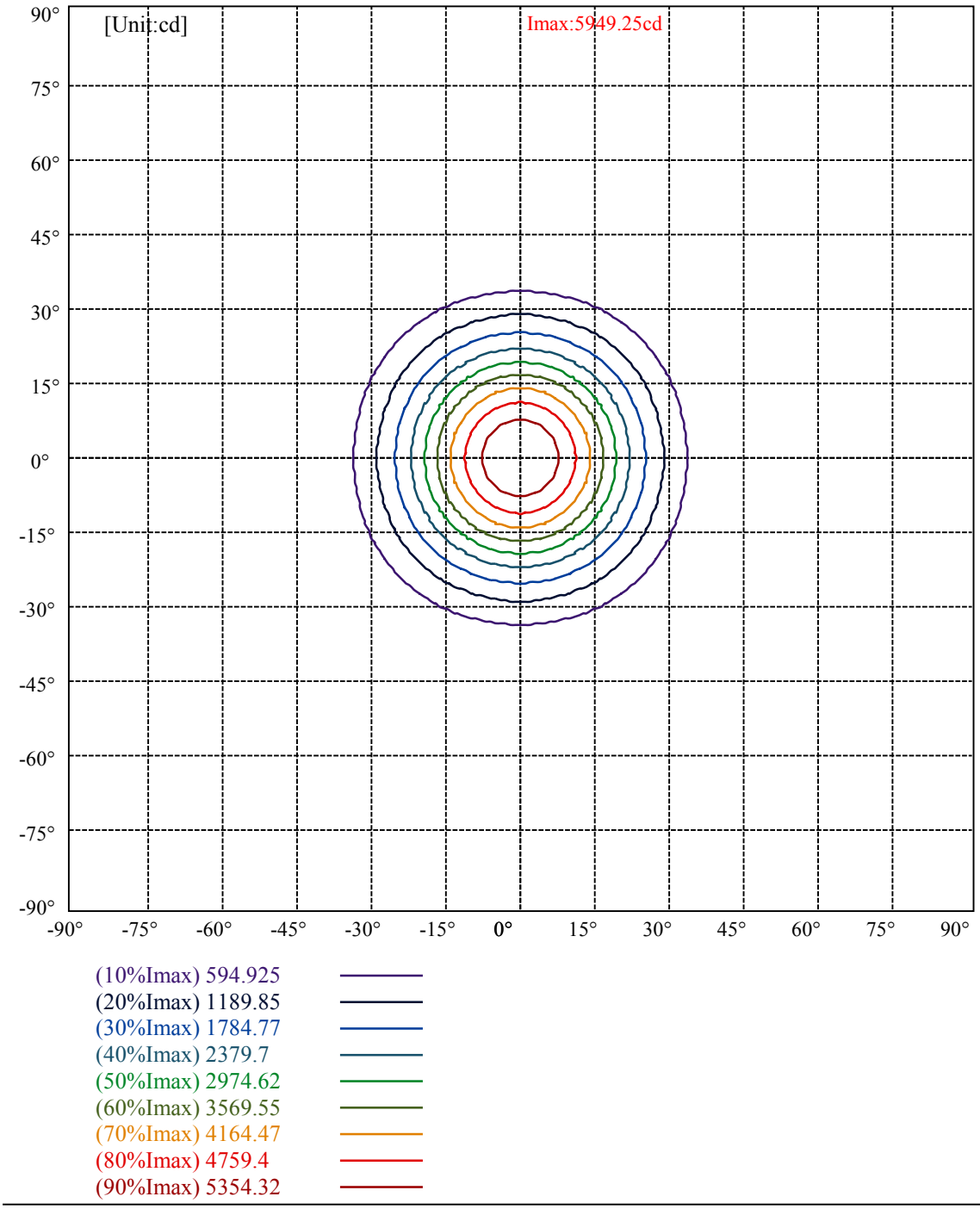
Field angle(10%Imax):C0/180Left:33.2 Right:33.2
:C90/270Left:33.2 Right:33.2

Beam Angle(50%Imax):C0/180Left:19.0 Right:19.0
:C90/270Left:19.0 Right:19.0

Lux distance Curve



ISO-Intensity(V-H)



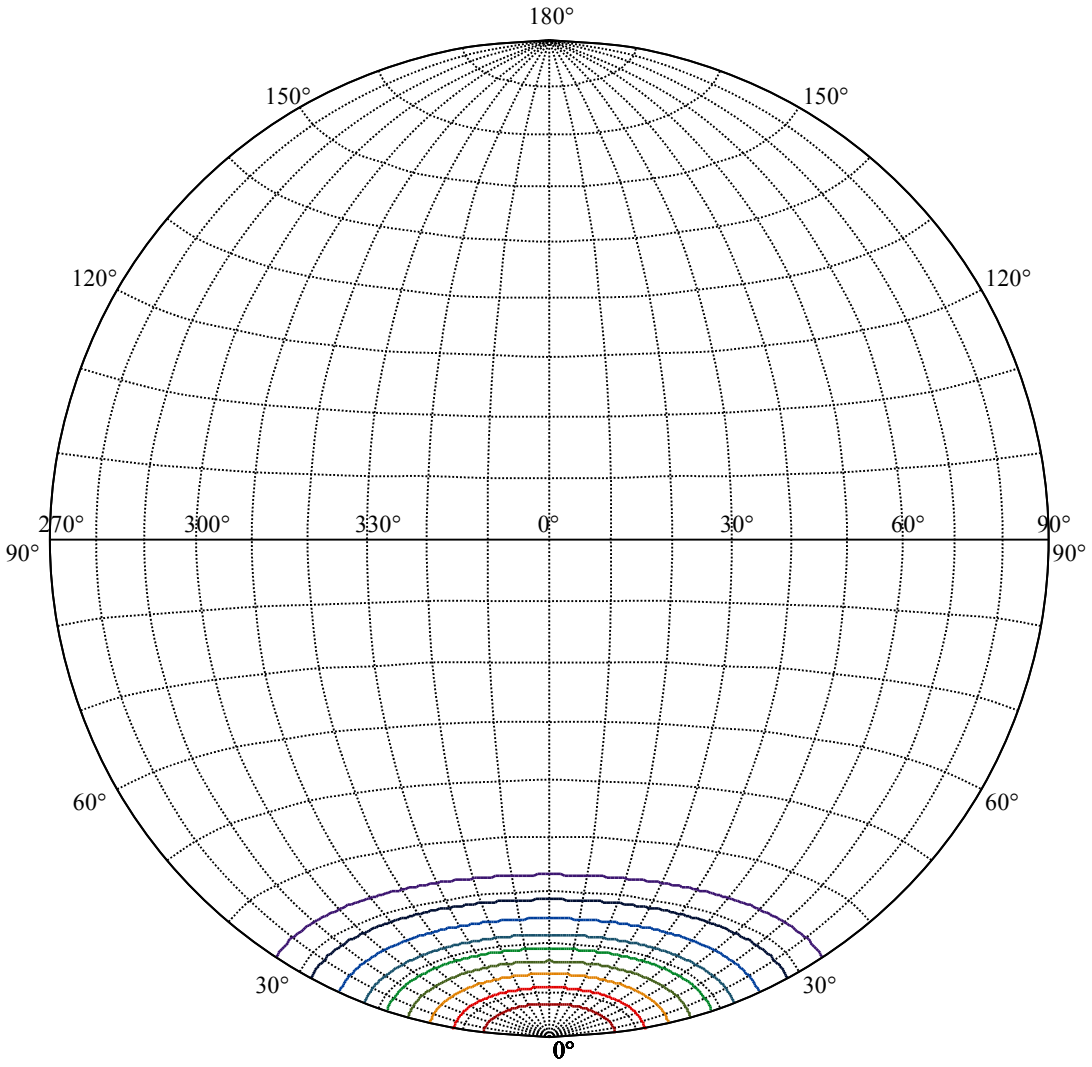
(10%Imax) 594.925
(20%Imax) 1189.85
(30%Imax) 1784.77
(40%Imax) 2379.7
(50%Imax) 2974.62
(60%Imax) 3569.55
(70%Imax) 4164.47
(80%Imax) 4759.4
(90%Imax) 5354.32

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/7
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:5949.25

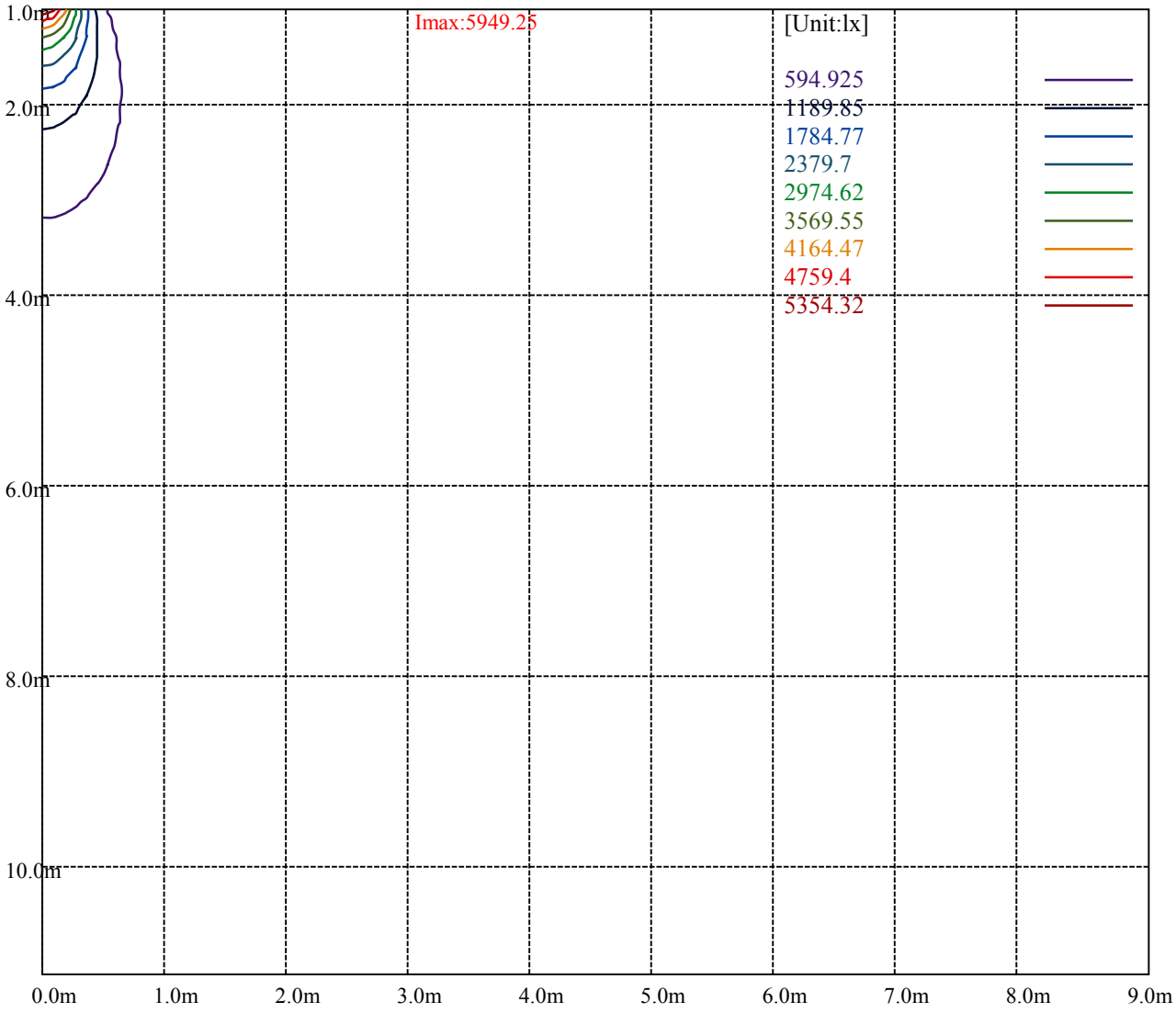
(10%Imax) 594.925
(20%Imax) 1189.85
(30%Imax) 1784.77
(40%Imax) 2379.7
(50%Imax) 2974.62
(60%Imax) 3569.55
(70%Imax) 4164.47
(80%Imax) 4759.4
(90%Imax) 5354.32

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/7
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/7
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Luminance Limitting Curve(no luminous side)

Luminance Table

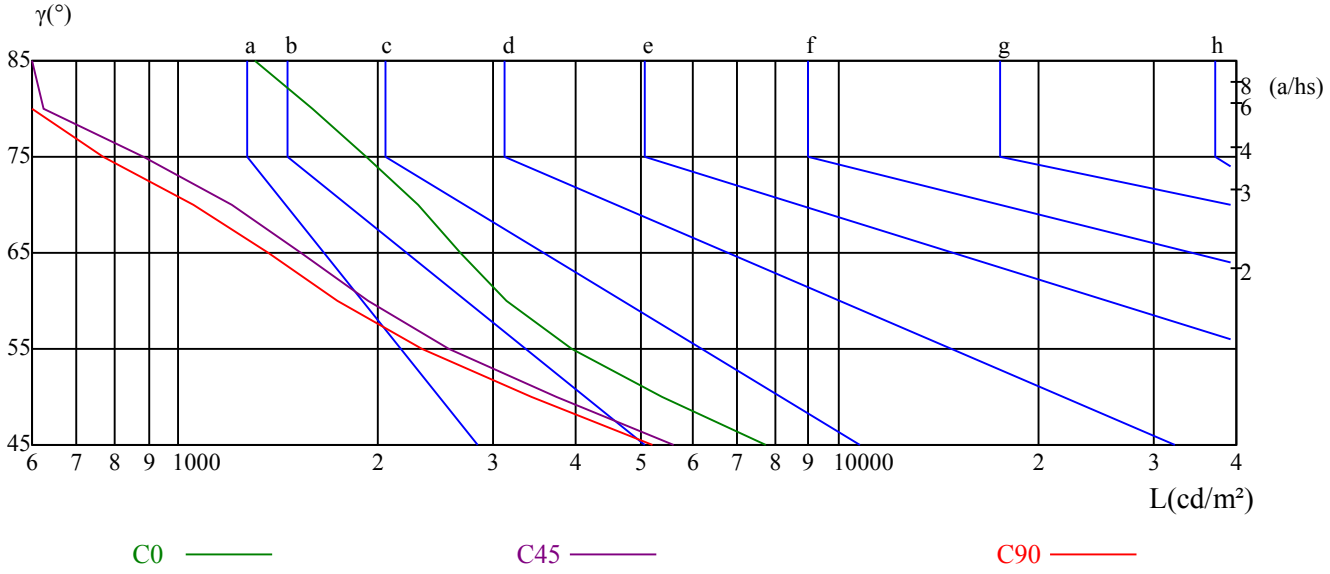
γ	45	50	55	60	65	70	75	80	85
C0	7775	5396	3930	3148	2681	2303	1919	1599	1303
C45	5627	3727	2574	1939	1533	1201	887	623	389
C90	5212	3422	2341	1745	1365	1055	768	530	323

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3194	3194	3194	2559	2559	2559	2632	2632	2632

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



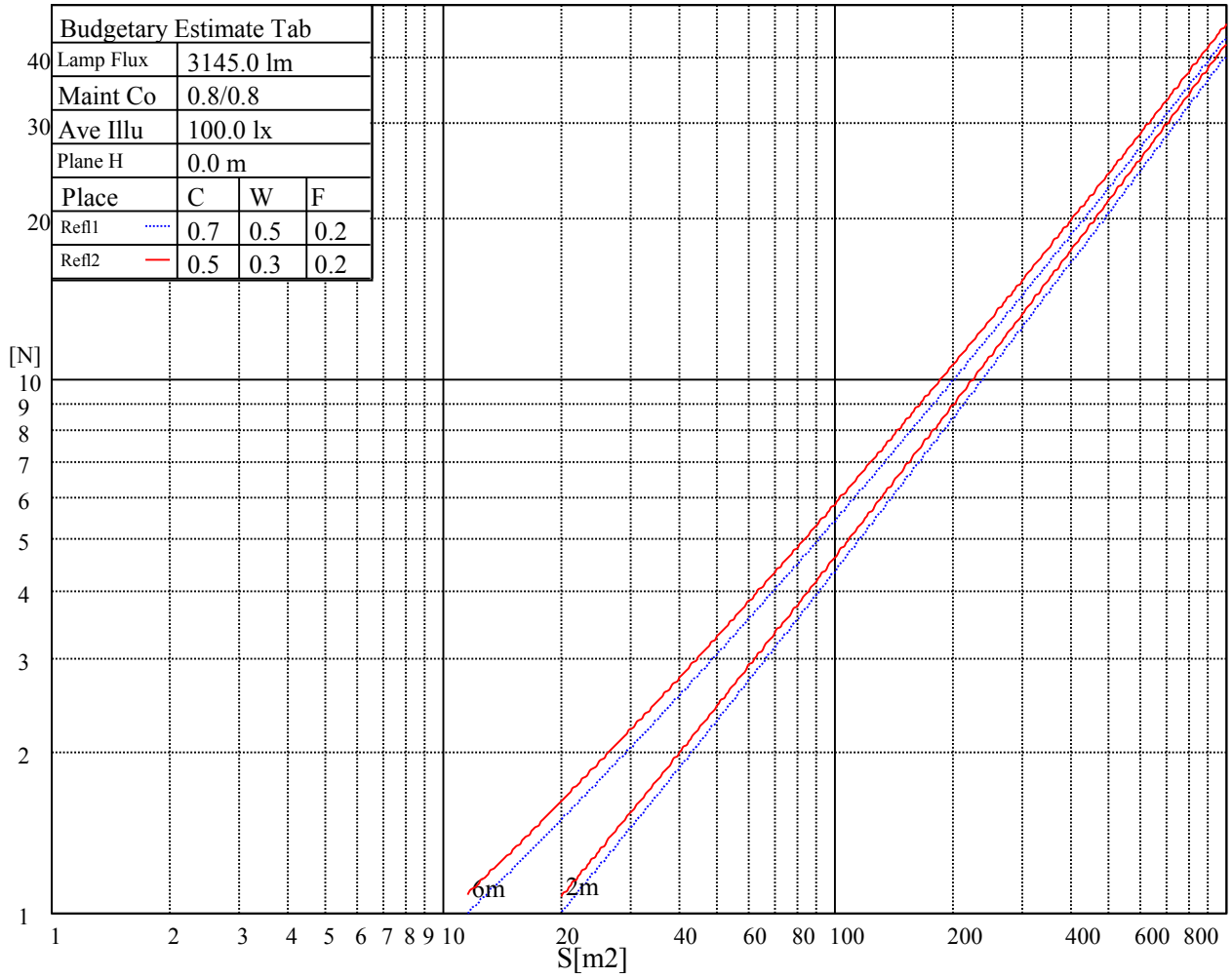
UGR Glare

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	11.37	12.30	11.73	12.61	12.93	11.78	12.71	12.14	13.03	13.34
	3H	11.40	12.23	11.79	12.57	12.92	11.76	12.59	12.15	12.92	13.27
	4H	11.40	12.16	11.80	12.52	12.89	11.72	12.48	12.12	12.84	13.21
	6H	11.39	12.08	11.80	12.46	12.86	11.68	12.37	12.09	12.75	13.15
	8H	11.34	12.01	11.76	12.39	12.80	11.61	12.28	12.04	12.67	13.07
	12H	11.29	11.92	11.72	12.32	12.74	11.55	12.18	11.98	12.58	13.00
4H	2H	11.18	11.95	11.58	12.30	12.67	11.58	12.35	11.98	12.70	13.07
	3H	11.26	11.90	11.69	12.30	12.72	11.59	12.23	12.01	12.62	13.04
	4H	11.33	11.88	11.77	12.31	12.76	11.61	12.16	12.05	12.59	13.04
	6H	11.31	11.80	11.79	12.25	12.70	11.54	12.03	12.02	12.48	12.94
	8H	11.30	11.75	11.79	12.21	12.69	11.51	11.96	12.00	12.42	12.89
	12H	11.29	11.70	11.78	12.16	12.68	11.48	11.89	11.97	12.34	12.86
8H	4H	11.20	11.65	11.68	12.11	12.58	11.47	11.92	11.96	12.38	12.86
	6H	11.20	11.57	11.71	12.05	12.56	11.42	11.79	11.93	12.27	12.78
	8H	11.25	11.56	11.79	12.08	12.58	11.44	11.75	11.98	12.27	12.77
	12H	11.26	11.50	11.81	12.01	12.54	11.42	11.65	11.97	12.17	12.69
12H	4H	11.15	11.56	11.64	12.02	12.54	11.42	11.84	11.92	12.29	12.81
	6H	11.20	11.50	11.73	12.03	12.52	11.42	11.72	11.95	12.25	12.74
	8H	11.22	11.45	11.77	11.97	12.49	11.41	11.64	11.95	12.16	12.68

Variation with the observer position at spacings:		
S = 1.0H	5.5/-5.8	5.4/-5.4
S = 1.5H	8.1/-6.3	7.9/-5.7
S = 2.0H	10.0/-6.5	9.8/-5.6
Standard tables:	BK1	BK1
Uncorrected UGR	-5.2	-4.9

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

Budgetary Estimate Table



Equipment: GMS 1800
Temperature(°C): 25.0

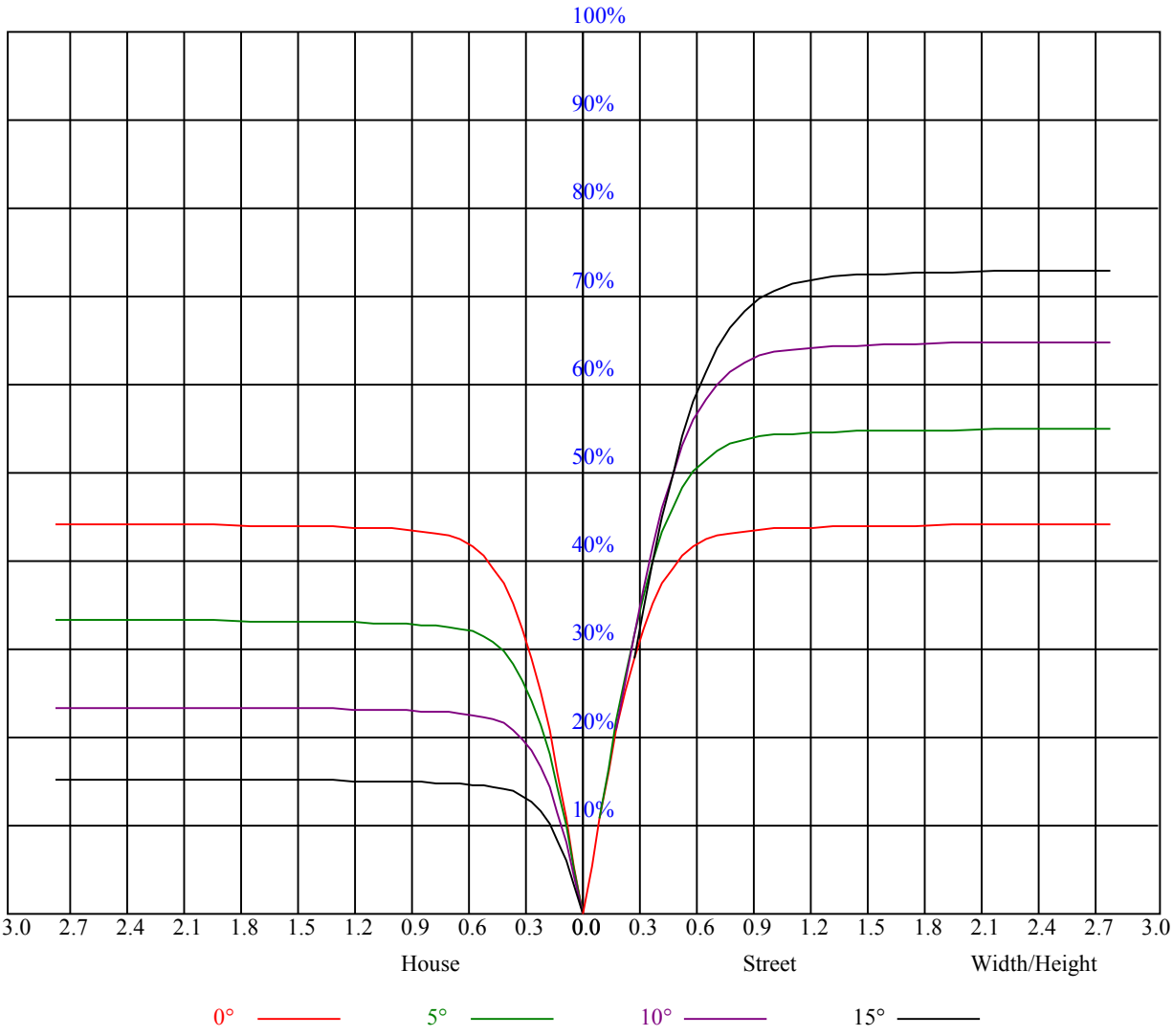
Date: 2024/8/7
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

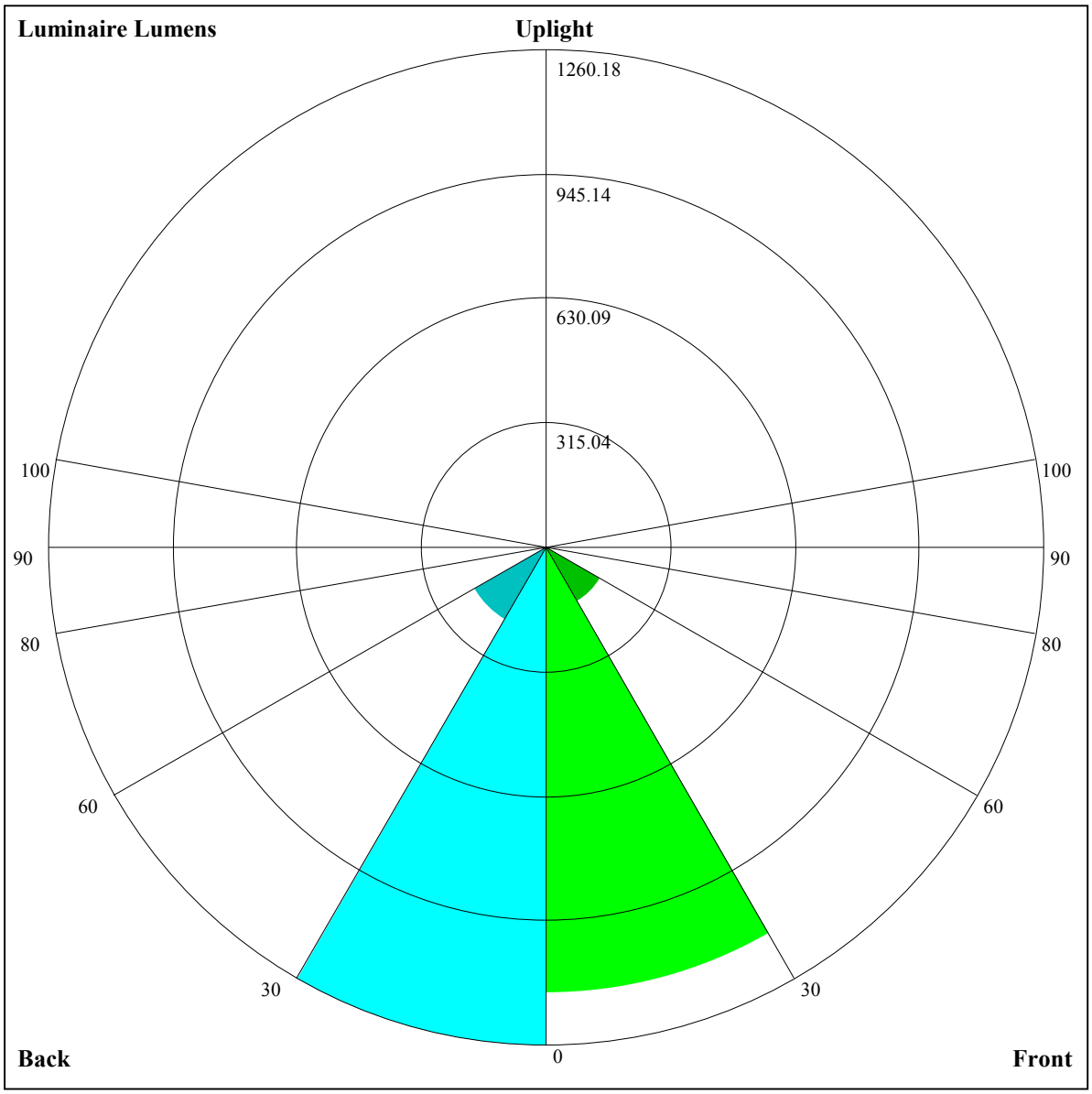
Utilization factor table for indoor luminaire

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	1.05	1.05	1.05	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.89
1	0.99	0.97	0.95	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84
2	0.93	0.90	0.87	0.91	0.89	0.86	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.81	0.79
3	0.88	0.84	0.81	0.87	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.80	0.78	0.76	0.75
4	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.73	0.71
5	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
6	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	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	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.62
8	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.59
9	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.56
10	0.63	0.58	0.55	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.54

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2024/8/7	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25



Luminaire Lumens:
FL=1128.11,FM=156.93,FH=10.96,FVH=1.36
BL=1260.18,BM=209.89,BH=12.12,BVH=1.61
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	5938.51	5878.91	5804.27	5712.86	5593.65	5470.49	5308.92	5141.77	4953.49
45.0	5970.84	5926.26	5899.51	5789.76	5687.79	5615.94	5486.11	5342.35	5165.21
90.0	5926.84	5880.01	5809.84	5710.65	5600.32	5458.83	5319.54	5146.24	4956.28
135.0	5960.80	5965.27	5936.30	5886.74	5816.51	5742.40	5683.37	5530.68	5391.39
180.0	5938.51	5969.73	5984.24	5956.91	5928.52	5896.72	5789.76	5738.51	5636.54
225.0	5970.84	5983.08	5968.63	5942.98	5896.20	5828.24	5740.19	5627.66	5495.04
270.0	5926.84	5961.38	5970.31	5955.23	5904.56	5861.09	5755.80	5680.01	5558.01
315.0	5960.80	5941.30	5892.83	5832.12	5746.87	5645.48	5515.07	5360.22	5192.49
360.0	5938.51	5878.91	5804.27	5712.86	5593.65	5470.49	5308.92	5141.77	4953.49

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4756.80	4546.18	4337.83	4111.02	3879.27	3642.48	3489.26	3132.67	2986.13
45.0	4975.20	4776.30	4566.79	4357.85	4140.03	3915.49	3686.47	3447.47	3200.06
90.0	4762.90	4554.54	4337.83	4140.03	3916.59	3696.51	3468.65	3240.22	3006.21
135.0	5304.50	5072.70	4957.91	4754.02	4553.96	4342.82	4128.89	3916.01	3694.30
180.0	5527.37	5398.64	5230.39	5064.34	4864.34	4652.62	4433.65	4206.31	3978.98
225.0	5350.18	5176.36	4975.78	4772.41	4555.12	4328.31	4146.71	3867.02	3674.22
270.0	5411.47	5247.63	5064.34	4871.02	4664.29	4445.32	4228.02	4003.53	3774.51
315.0	5008.05	4824.19	4695.51	4479.32	4259.82	4027.44	3799.59	3555.54	3309.28
360.0	4756.80	4546.18	4337.83	4111.02	3879.27	3642.48	3489.26	3132.67	2986.13

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2742.08	2407.78	2278.53	2077.38	1901.87	1734.72	1569.25	1392.64	1046.73
45.0	2954.38	2713.12	2483.00	2268.49	2081.84	1969.31	1729.15	1559.79	1453.93
90.0	2866.92	2642.90	2424.50	2221.13	2042.32	1874.01	1717.48	1548.65	1382.08
135.0	3469.76	3229.60	2999.48	2771.04	2549.33	2337.61	2143.71	1968.20	1804.37
180.0	3747.23	3513.22	3278.64	3040.74	2804.47	2584.39	2372.67	2174.35	2040.63
225.0	3440.22	3152.70	2959.37	2722.58	2496.40	2282.42	2081.84	1905.81	1737.51
270.0	3539.40	3301.50	3052.99	2812.30	2571.62	2350.96	2155.38	1968.20	1865.13
315.0	3062.45	2819.56	2575.51	2348.18	2139.24	1954.80	1778.77	1616.09	1443.89
360.0	2742.08	2407.78	2278.53	2077.38	1901.87	1734.72	1569.25	1392.64	1046.73

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1046.73	903.23	775.24	656.82	548.12	486.94	361.84	282.73	240.95
45.0	1280.11	1115.74	963.05	826.55	705.65	595.32	494.51	403.68	326.26
90.0	1060.45	1060.45	912.70	775.30	653.56	563.89	460.71	354.48	290.09
135.0	1642.26	1463.39	1286.78	1153.64	995.95	817.66	714.01	589.23	481.68
180.0	1844.52	1697.98	1557.01	1396.01	1224.92	1066.13	911.28	770.30	643.26
225.0	1582.08	1415.51	1044.10	1044.10	954.54	869.38	684.36	565.26	505.13
270.0	1638.90	1539.19	1372.04	1138.56	1048.88	901.76	772.51	648.25	536.82
315.0	1059.77	1059.77	940.34	808.10	733.40	618.71	512.27	415.56	332.35
360.0	1046.73	903.23	775.24	656.82	548.12	486.94	361.84	282.73	240.95

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	179.45	131.88	109.12	97.50	87.04	78.95	72.12	66.07	60.34
45.0	295.61	219.76	150.28	112.75	100.55	93.93	81.26	76.95	70.12
90.0	220.29	164.52	123.36	103.29	91.30	81.21	72.96	66.23	60.29
135.0	388.07	301.71	301.71	172.04	128.04	106.18	94.40	84.05	75.85
180.0	527.94	427.07	337.40	288.88	288.88	139.40	112.85	104.76	93.09
225.0	409.46	325.31	252.41	188.44	141.03	115.27	102.02	90.93	81.84
270.0	438.79	352.43	302.81	302.81	149.80	117.48	102.92	93.98	82.73
315.0	257.71	191.85	140.87	112.54	99.76	88.88	80.05	72.85	66.44
360.0	179.45	131.88	109.12	97.50	87.04	78.95	72.12	66.07	60.34

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	55.14	50.57	46.26	42.37	38.90	35.74	32.96	30.38	29.07
45.0	64.18	58.66	53.72	49.15	44.84	41.16	37.69	34.64	31.85
90.0	54.88	49.99	45.83	42.10	38.63	35.53	32.85	30.49	28.23
135.0	71.49	62.71	59.34	54.14	47.78	45.47	41.79	38.37	35.48
180.0	80.11	75.32	68.59	62.39	56.93	51.98	47.36	43.26	39.53
225.0	73.69	67.07	60.92	55.61	50.62	46.10	42.00	38.37	35.11
270.0	76.48	69.65	63.39	57.71	52.77	47.73	43.68	39.84	36.37
315.0	60.66	55.45	50.51	46.31	43.89	40.16	37.00	34.01	31.54
360.0	55.14	50.57	46.26	42.37	38.90	35.74	32.96	30.38	29.07

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.18	24.39	23.39	21.81	20.45	19.03	17.92	16.87	15.82
45.0	29.44	27.17	25.34	23.60	21.97	20.55	19.24	18.08	17.50
90.0	27.02	24.70	23.76	22.34	21.18	19.97	18.87	17.87	16.98
135.0	32.80	30.49	28.38	26.60	24.97	23.50	22.18	21.03	19.97
180.0	36.27	33.32	30.75	28.33	26.33	24.60	22.97	21.50	20.08
225.0	32.75	29.65	27.81	25.70	23.86	22.29	20.87	19.50	18.40
270.0	33.43	30.80	28.33	26.23	24.34	22.60	21.08	19.71	18.45
315.0	29.22	27.17	25.44	23.81	22.29	20.92	19.71	18.55	17.40
360.0	26.18	24.39	23.39	21.81	20.45	19.03	17.92	16.87	15.82

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.88	13.93	13.09	12.19	11.41	10.62	9.88	9.20	8.41
45.0	16.03	15.40	14.51	13.67	12.93	12.09	11.30	10.57	10.04
90.0	16.24	15.35	14.51	13.51	12.72	11.83	10.83	10.09	9.30
135.0	18.87	17.82	16.82	15.93	14.98	13.98	13.30	12.25	11.56
180.0	18.92	17.82	16.87	15.61	14.93	14.09	13.09	12.46	11.62
225.0	17.24	16.24	15.30	14.35	13.46	12.72	11.83	11.14	10.35
270.0	17.29	16.66	15.24	14.35	13.88	13.04	12.19	11.41	10.67
315.0	16.40	15.61	14.61	13.88	12.98	12.35	11.41	10.78	9.93
360.0	14.88	13.93	13.09	12.19	11.41	10.62	9.88	9.20	8.41

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.73	7.10	6.57	5.94	5.47	4.99	4.57	3.94	3.63
45.0	9.30	8.41	7.52	6.83	6.25	5.73	5.15	4.73	4.15
90.0	8.62	7.88	7.10	6.68	5.89	5.62	5.10	4.36	4.15
135.0	10.72	9.88	9.04	8.36	7.67	7.04	6.47	5.94	5.41
180.0	10.78	10.09	9.36	8.57	7.88	7.36	6.78	6.20	5.62
225.0	9.57	8.78	8.20	7.78	6.94	6.62	6.04	5.26	4.94
270.0	9.93	9.20	8.57	7.94	7.36	6.78	6.15	5.68	5.10
315.0	9.20	8.52	7.83	7.25	6.68	6.15	5.52	4.94	4.47
360.0	7.73	7.10	6.57	5.94	5.47	4.99	4.57	3.94	3.63

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.10	2.89	2.52	2.26	2.00	1.84	1.42	1.37	1.37
45.0	3.73	3.26	2.84	2.63	2.26	2.00	1.79	1.42	1.47
90.0	3.47	3.15	2.89	2.47	2.26	1.94	1.73	1.47	1.42
135.0	4.84	4.36	3.89	3.26	2.94	2.52	2.16	1.84	1.58
180.0	5.15	4.73	4.15	3.68	3.21	2.89	2.42	2.10	1.89
225.0	4.52	3.94	3.63	3.15	2.73	2.37	2.05	1.84	1.47
270.0	4.63	4.15	3.63	3.15	2.79	2.37	2.10	1.73	1.47
315.0	3.99	3.63	3.21	2.79	2.37	2.16	1.79	1.47	1.16
360.0	3.10	2.89	2.52	2.26	2.00	1.84	1.42	1.37	1.37

Intensity data(cd)

C/γ(°)	90.0
0.0	1.31
45.0	1.42
90.0	1.47
135.0	1.37
180.0	1.47
225.0	1.31
270.0	1.31
315.0	1.16
360.0	1.31