NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

LumCAT: 2-2689-L
Luminaire: 92.70.412.00
LampCAT: P2141-036-1206-P3090-1
Ballast type: AC

Report No: 2024227-B016	Voltage(V): 35.9300
Test No: 2024227-C016	Current(A): 0.7010
Number of Lamps: 1	Power (W): 25.1860
Lamp flux(lm): 3316.0	PF: 0.0000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2743.17, Efficiency(%): 82.73% , Luminous Efficacy(lm/W): 108.92
Central intensity(cd): 5104.684, Maximum intensity(cd): 5104.684
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=43.4
[C90/270]Total=43.4
Field angle(10%Imax): [C0/180]Total=65.8
[C90/270]Total=65.8
Maximum s/h(1/2): C0_180=0.69 C90_270=0.69
Maximum s/h(1/4): C0_180=0.68 C90_270=0.68
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.73%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.729%

Equipment: GMS1980	Date: 2024/2/27	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5104.684	0.000	0	0.00%	0.00%
1.0	5099.343	4.882	4.882	0.15%	0.18%
2.0	5086.907	14.620	19.503	0.44%	0.71%
3.0	5059.621	24.267	43.77	0.73%	1.60%
4.0	5025.312	33.757	77.527	1.02%	2.83%
5.0	4974.178	43.017	120.545	1.30%	4.39%
6.0	4913.022	51.960	172.505	1.57%	6.29%
7.0	4834.822	60.505	233.009	1.82%	8.49%
8.0	4742.502	68.543	301.552	2.07%	10.99%
9.0	4631.602	75.972	377.524	2.29%	13.76%
10.0	4509.510	82.724	460.248	2.49%	16.78%
11.0	4373.299	88.757	549.006	2.68%	20.01%
12.0	4221.360	93.952	642.957	2.83%	23.44%
13.0	4068.396	98.379	741.336	2.97%	27.02%
14.0	3892.024	101.893	843.229	3.07%	30.74%
15.0	3732.185	104.669	947.897	3.16%	34.55%
16.0	3559.031	106.837	1054.734	3.22%	38.45%
17.0	3391.657	108.241	1162.975	3.26%	42.40%
18.0	3216.675	108.957	1271.932	3.29%	46.37%
19.0	3041.692	108.883	1380.815	3.28%	50.34%
20.0	2861.370	108.042	1488.857	3.26%	54.28%
21.0	2674.683	106.303	1595.161	3.21%	58.15%
22.0	2491.288	103.812	1698.973	3.13%	61.93%
23.0	2311.990	100.786	1799.759	3.04%	65.61%
24.0	2128.741	97.090	1896.849	2.93%	69.15%
25.0	1927.351	92.227	1989.076	2.78%	72.51%
26.0	1693.341	85.467	2074.542	2.58%	75.63%
27.0	1500.180	78.130	2152.673	2.36%	78.47%
28.0	1329.214	71.634	2224.307	2.16%	81.09%
29.0	1148.058	64.812	2289.119	1.95%	83.45%
30.0	980.749	57.477	2346.597	1.73%	85.54%
31.0	797.464	49.485	2396.082	1.49%	87.35%
32.0	628.788	40.860	2436.942	1.23%	88.84%
33.0	489.658	32.950	2469.892	0.99%	90.04%
34.0	375.554	26.184	2496.076	0.79%	90.99%
35.0	295.202	20.831	2516.907	0.63%	91.75%
36.0	230.432	16.736	2533.643	0.50%	92.36%
37.0	191.039	13.746	2547.39	0.41%	92.86%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	160.118	11.721	2559.111	0.35%	93.29%
39.0	129.488	9.885	2568.996	0.30%	93.65%
40.0	117.477	8.613	2577.609	0.26%	93.96%
41.0	107.930	8.027	2585.636	0.24%	94.26%
42.0	99.686	7.543	2593.179	0.23%	94.53%
43.0	92.049	7.102	2600.281	0.21%	94.79%
44.0	85.874	6.715	2606.996	0.20%	95.04%
45.0	80.329	6.387	2613.384	0.19%	95.27%
46.0	75.084	6.078	2619.462	0.18%	95.49%
47.0	70.468	5.789	2625.251	0.17%	95.70%
48.0	66.006	5.517	2630.768	0.17%	95.90%
49.0	62.070	5.260	2636.027	0.16%	96.09%
50.0	58.552	5.029	2641.056	0.15%	96.28%
51.0	55.157	4.811	2645.867	0.15%	96.45%
52.0	52.005	4.598	2650.466	0.14%	96.62%
53.0	49.137	4.400	2654.865	0.13%	96.78%
54.0	46.408	4.211	2659.077	0.13%	96.93%
55.0	43.797	4.027	2663.103	0.12%	97.08%
56.0	41.441	3.852	2666.955	0.12%	97.22%
57.0	39.261	3.690	2670.645	0.11%	97.36%
58.0	37.425	3.546	2674.191	0.11%	97.49%
59.0	35.552	3.412	2677.603	0.10%	97.61%
60.0	33.775	3.275	2680.878	0.10%	97.73%
61.0	32.158	3.146	2684.024	0.09%	97.84%
62.0	30.483	3.018	2687.043	0.09%	97.95%
63.0	28.917	2.889	2689.932	0.09%	98.06%
64.0	27.206	2.754	2692.686	0.08%	98.16%
65.0	25.677	2.617	2695.303	0.08%	98.26%
66.0	24.294	2.493	2697.796	0.08%	98.35%
67.0	23.168	2.387	2700.183	0.07%	98.43%
68.0	22.187	2.298	2702.48	0.07%	98.52%
69.0	21.792	2.244	2704.724	0.07%	98.60%
70.0	21.507	2.224	2706.947	0.07%	98.68%
71.0	21.119	2.203	2709.151	0.07%	98.76%
72.0	20.834	2.181	2711.332	0.07%	98.84%
73.0	20.695	2.172	2713.504	0.07%	98.92%
74.0	20.205	2.150	2715.654	0.06%	99.00%
75.0	19.627	2.105	2717.759	0.06%	99.07%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	19.137	2.058	2719.816	0.06%	99.15%
77.0	18.566	2.010	2721.826	0.06%	99.22%
78.0	17.966	1.956	2723.782	0.06%	99.29%
79.0	17.228	1.891	2725.673	0.06%	99.36%
80.0	16.591	1.823	2727.496	0.05%	99.43%
81.0	16.350	1.781	2729.278	0.05%	99.49%
82.0	16.057	1.757	2731.035	0.05%	99.56%
83.0	15.567	1.719	2732.754	0.05%	99.62%
84.0	15.026	1.667	2734.421	0.05%	99.68%
85.0	14.470	1.610	2736.031	0.05%	99.74%
86.0	13.767	1.543	2737.574	0.05%	99.80%
87.0	13.072	1.469	2739.043	0.04%	99.85%
88.0	12.604	1.407	2740.449	0.04%	99.90%
89.0	12.392	1.370	2741.82	0.04%	99.95%
90.0	12.187	1.348	2743.167	0.04%	100.00%

Zonal flux distribution table

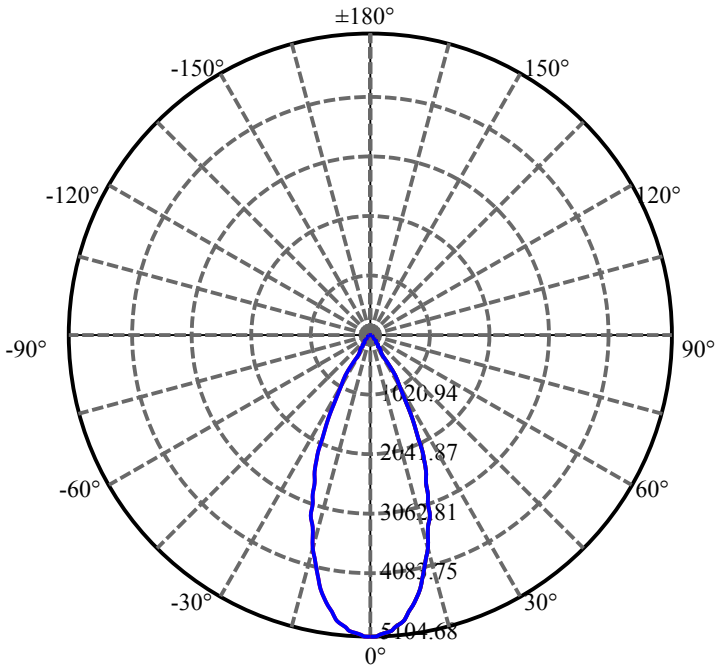
ZONAL LUMEN SUMMARY

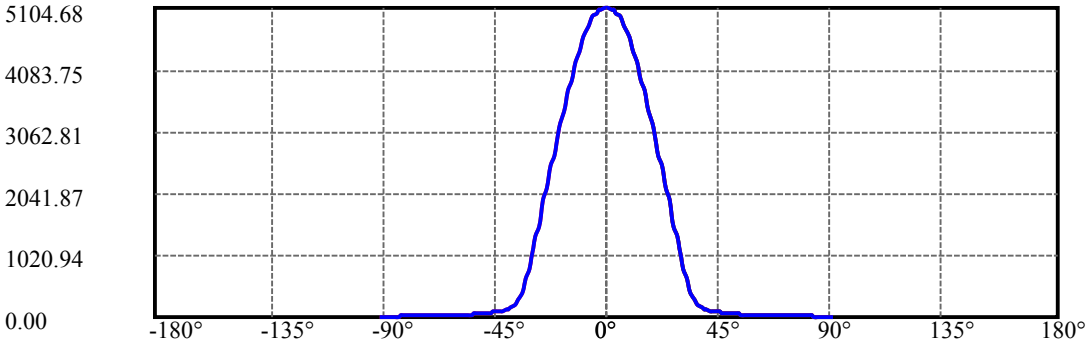
Zone	Lumens	%Lamp	%Fixt
0-30	2346.60	70.77%	85.54%
0-40	2577.61	77.73%	93.96%
0-60	2680.88	80.85%	97.73%
0-90	2741.82	82.68%	99.95%
0-120	2741.82	82.68%	99.95%
0-180	2743.17	82.73%	100.00%
60-90	60.94	1.84%	2.22%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.58	2194.53	66.18%	80.00%

ZONAL LUMEN SUMMARY

0-10	460.25
10-20	1028.61
20-30	857.74
30-40	231.01
40-50	63.45
50-60	39.82
60-70	26.07
70-80	20.55
80-90	14.32
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):

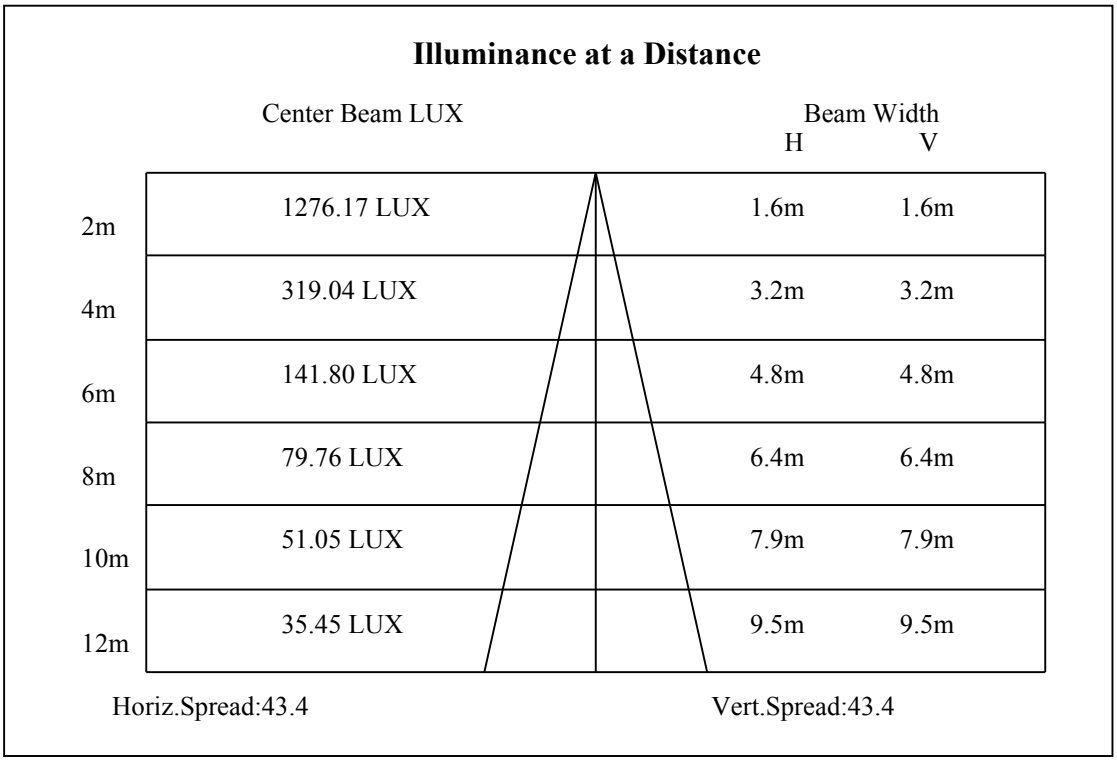
C0/C180:

C90/C270:

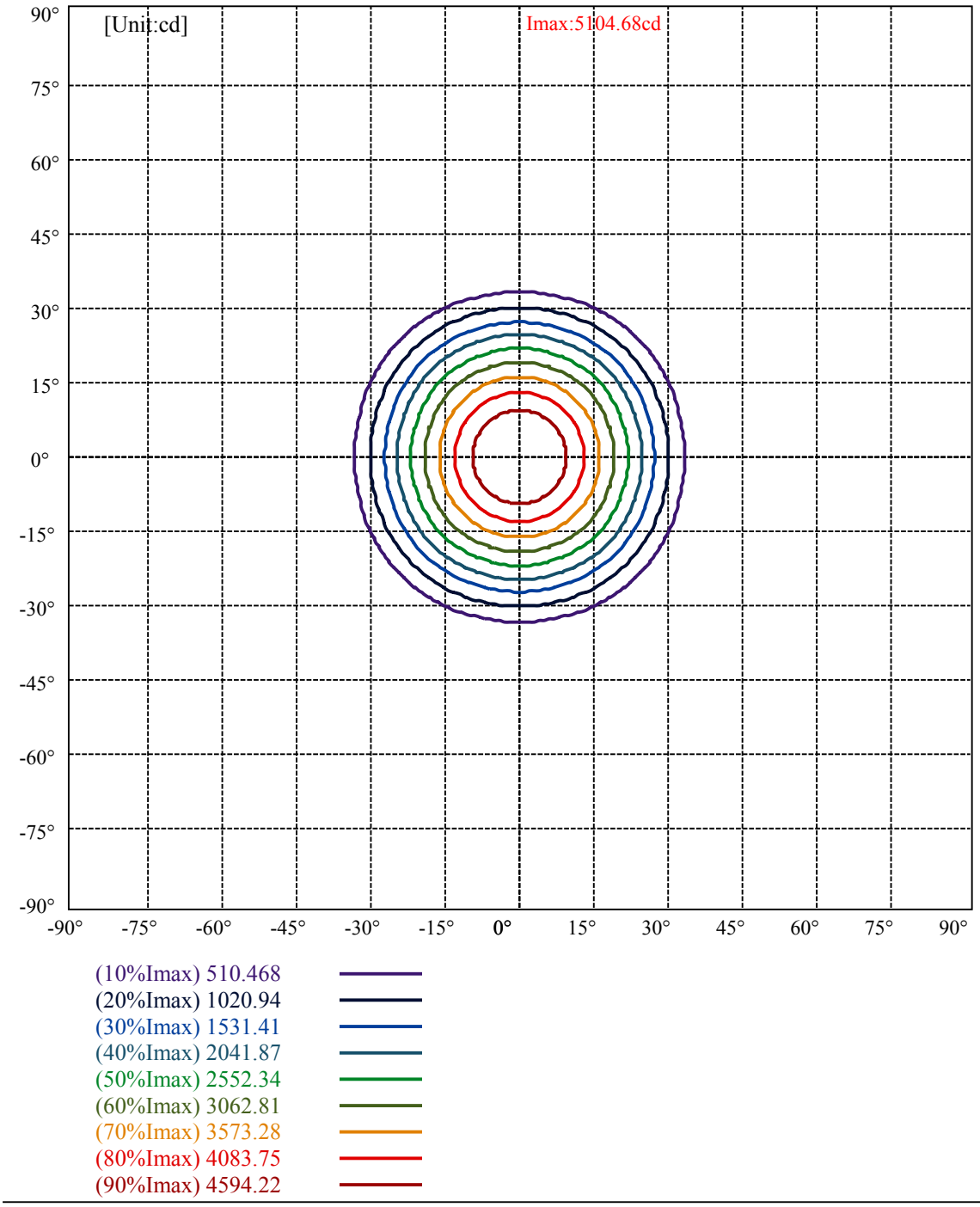
Field angle(10%Imax):C0/180Left:32.9 Right:32.9
:C90/270Left:32.9 Right:32.9

Beam Angle(50%Imax):C0/180Left:21.7 Right:21.7
:C90/270Left:21.7 Right:21.7

Lux distance Curve



ISO-Intensity(V-H)

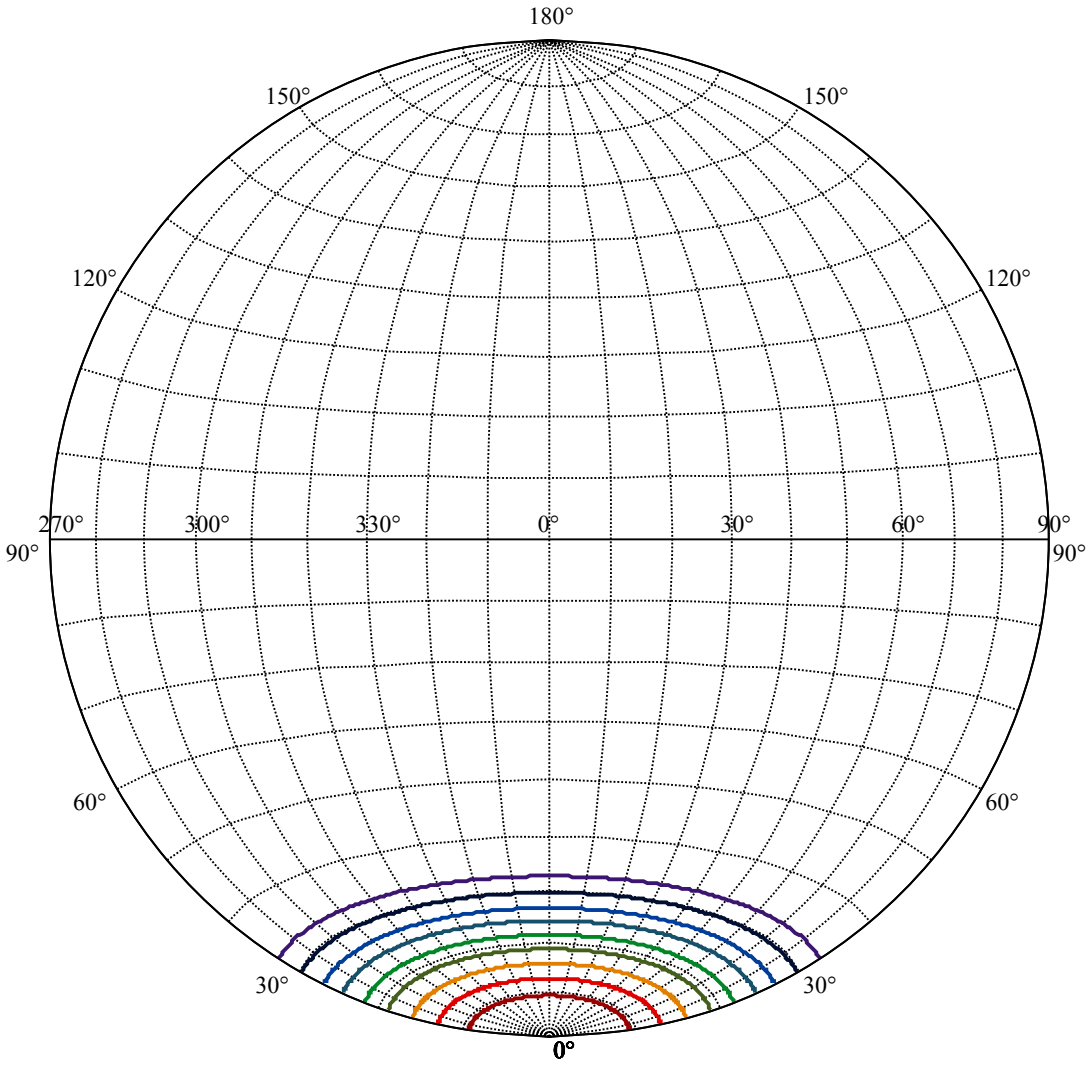


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/2/27
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

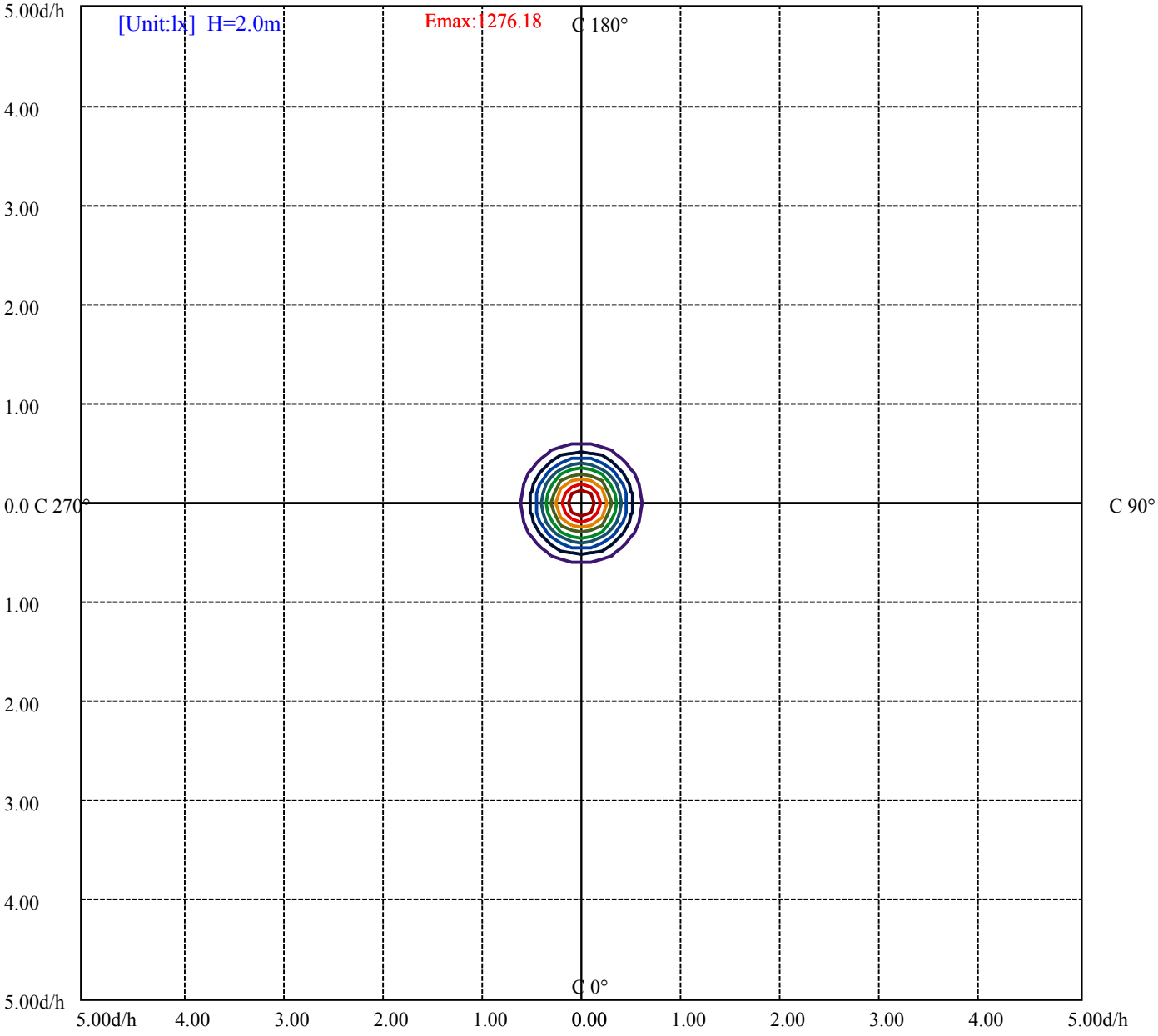
ISO candela diagram on circular web



Equipment: GMS1980	Date: 2024/2/27	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

NT 2-2689-L

ISO illuminance diagram

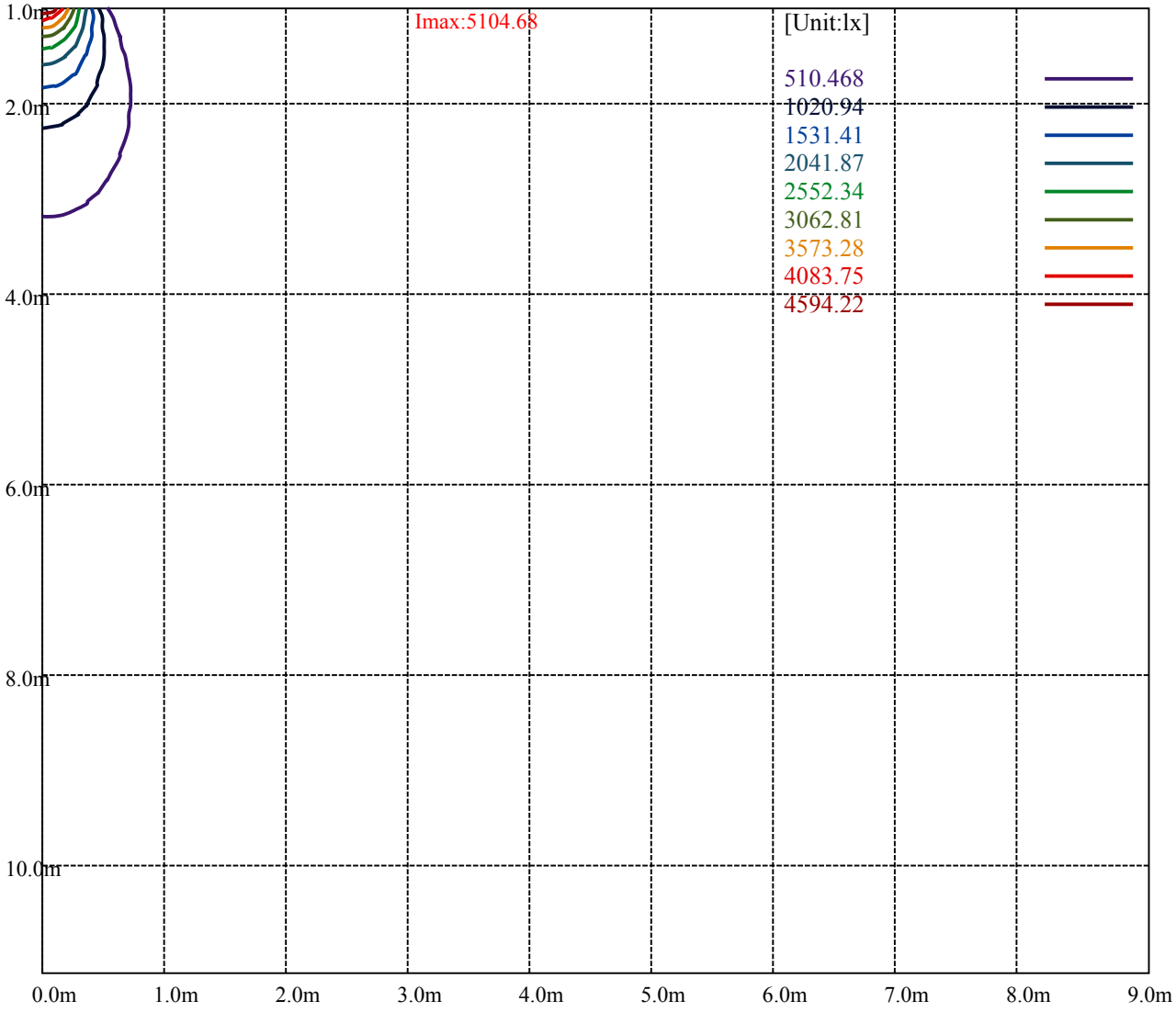


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/2/27
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/2/27
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

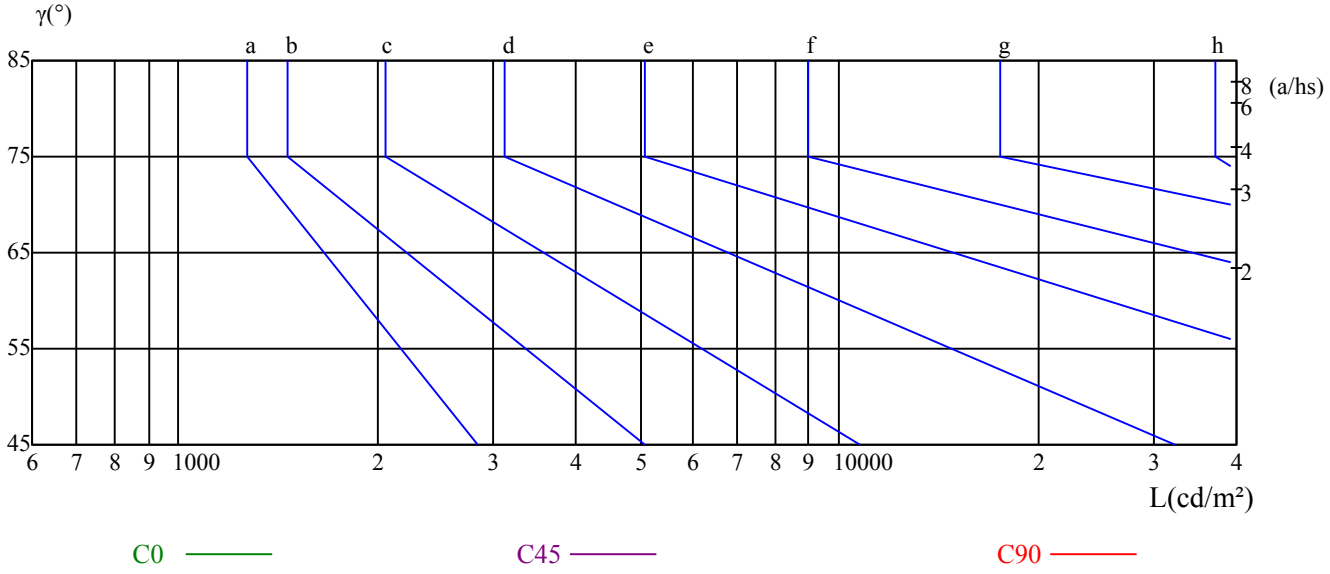
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

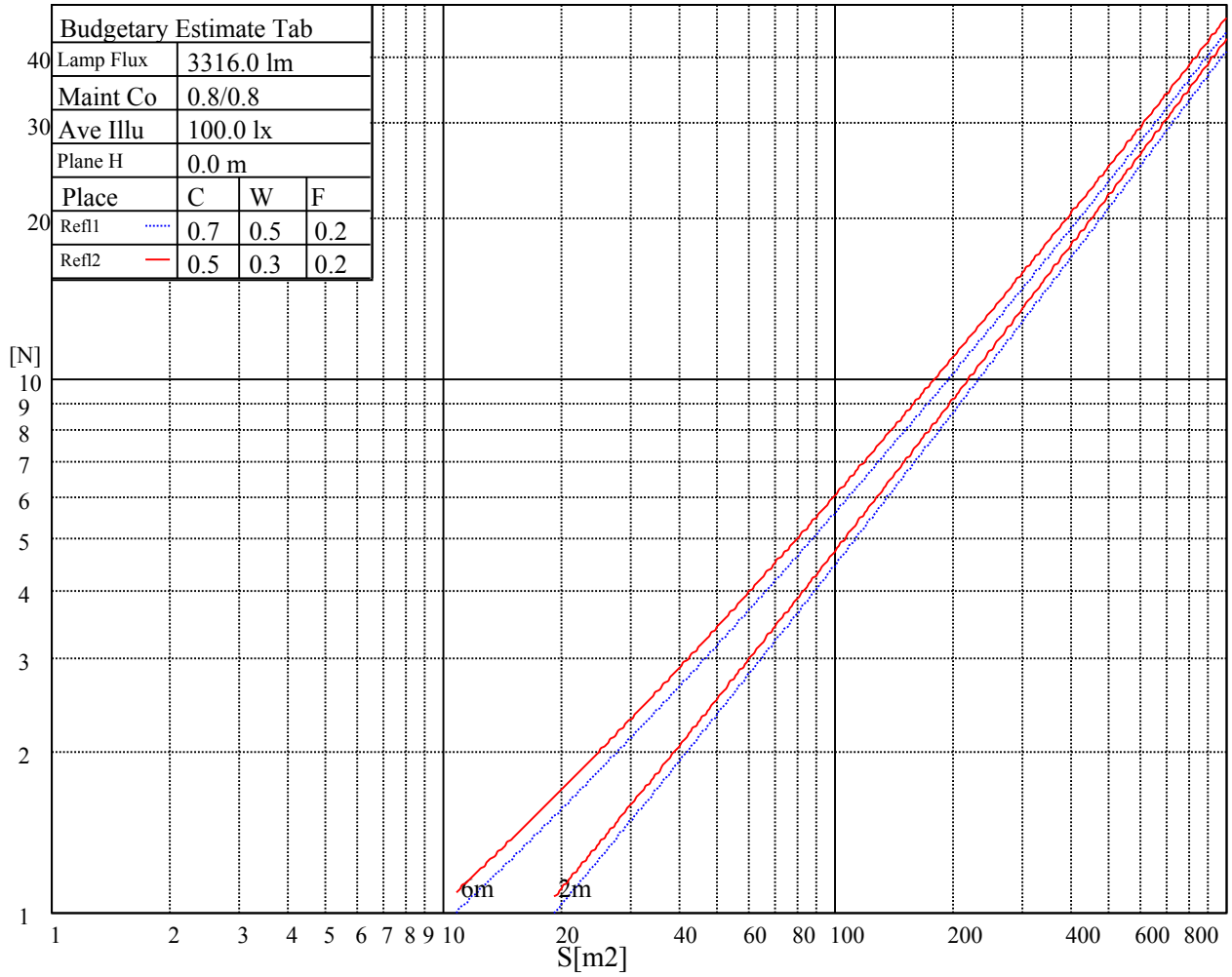
Luminance Limitting Curve



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 X Y	Viewed crosswise					Viewed endwise				
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
2H 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
2H 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
2H 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
2H 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
2H 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
4H 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 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
4H 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
4H 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
4H 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
8H 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 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
8H 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
12H 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
12H 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

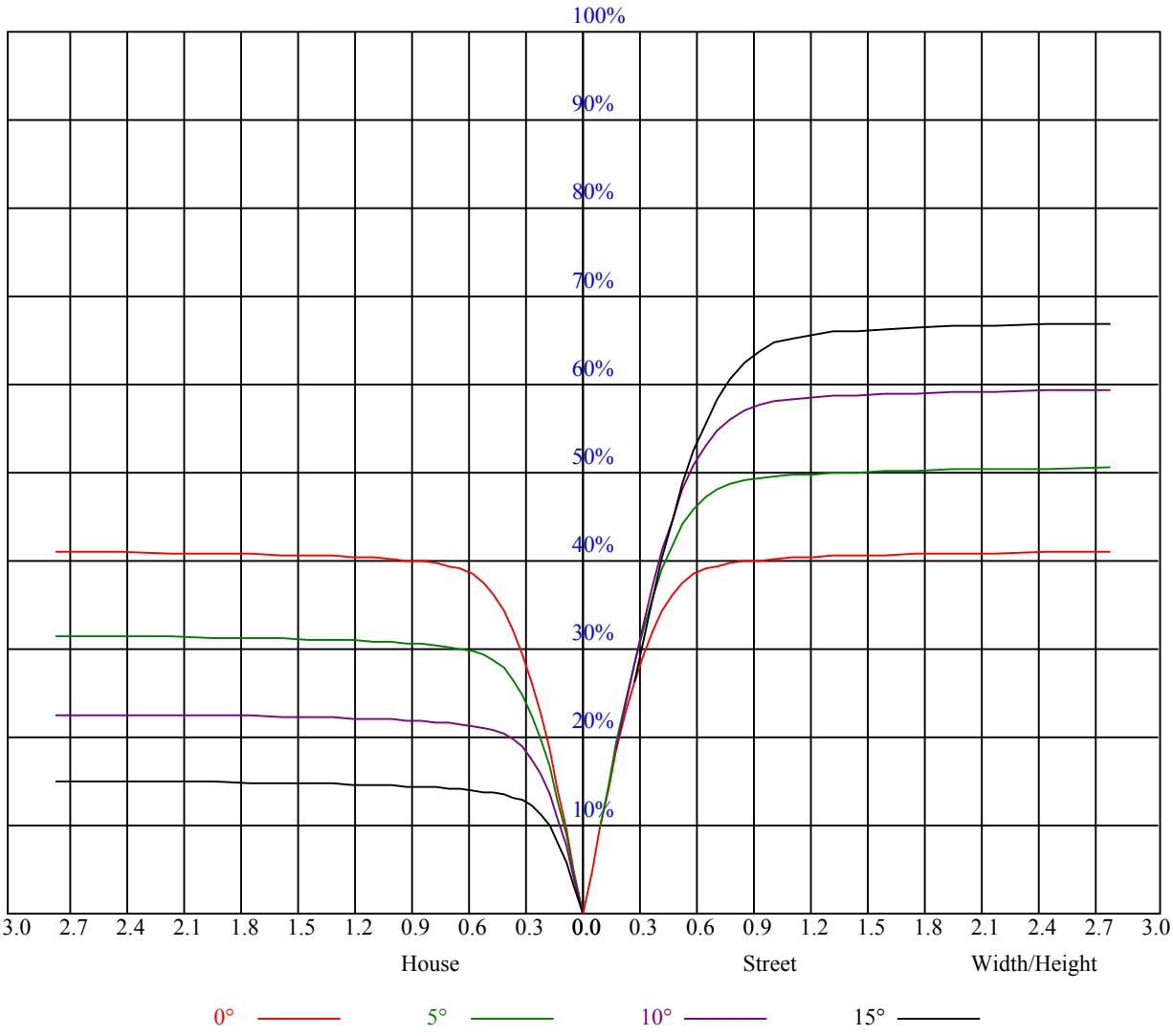


Equipment: GMS1980 Date: 2024/2/27 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

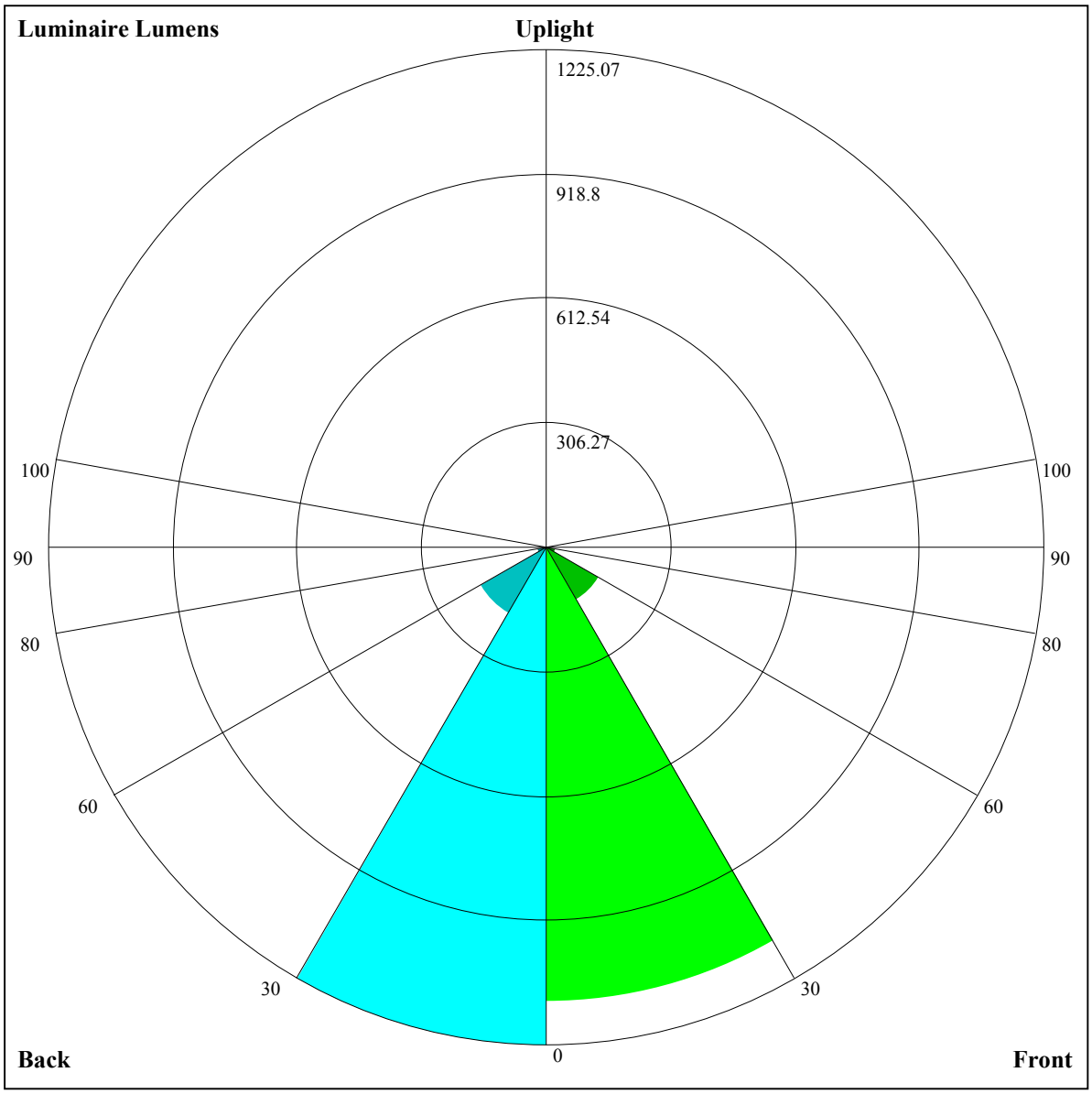
Utilization factor table for indoor luminaire

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	0.98	0.98	0.98	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.83
1	0.92	0.90	0.88	0.90	0.88	0.87	0.87	0.85	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.78
2	0.86	0.83	0.80	0.85	0.82	0.79	0.82	0.80	0.78	0.80	0.78	0.76	0.77	0.76	0.74	0.73
3	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.76	0.73	0.71	0.74	0.72	0.70	0.69
4	0.77	0.72	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.72	0.70	0.67	0.71	0.68	0.67	0.65
5	0.73	0.68	0.65	0.72	0.68	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
6	0.69	0.65	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59
7	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.62	0.59	0.57	0.56
8	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.54	0.53
9	0.60	0.56	0.53	0.59	0.55	0.53	0.59	0.55	0.52	0.58	0.55	0.52	0.57	0.54	0.52	0.51
10	0.57	0.53	0.50	0.57	0.53	0.50	0.56	0.53	0.50	0.56	0.52	0.50	0.55	0.52	0.50	0.49

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/2/27	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1120.45,FM=150.58,FH=23.4,FVH=7.72
BL=1225.07,BM=189.46,BH=23.5,BVH=7.95
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	5090.93	5071.62	5041.77	4975.64	4913.61	4817.63	4723.99	4618.07	4492.25
45.0	5107.90	5097.95	5086.25	5048.79	5004.32	4943.45	4869.13	4765.55	4664.89
90.0	5106.73	5092.69	5069.28	5023.63	4969.79	4903.66	4808.85	4712.88	4606.95
135.0	5113.17	5109.66	5102.64	5082.15	5054.06	5011.93	4960.43	4877.91	4796.56
180.0	5090.93	5103.22	5102.05	5100.29	5091.52	5072.79	5046.45	5010.17	4960.43
225.0	5107.90	5101.46	5094.44	5080.98	5058.74	5027.73	4982.66	4911.85	4841.04
270.0	5106.73	5114.34	5107.90	5096.78	5080.40	5047.04	5007.24	4955.74	4866.79
315.0	5113.17	5103.81	5090.93	5068.69	5030.07	4969.20	4905.41	4826.41	4711.12
360.0	5090.93	5071.62	5041.77	4975.64	4913.61	4817.63	4723.99	4618.07	4492.25

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4324.87	4173.88	4018.80	3860.20	3667.66	3511.99	3355.74	3155.59	2994.07
45.0	4543.16	4385.73	4244.70	4095.46	3937.45	3741.99	3588.07	3384.41	3229.33
90.0	4448.94	4313.17	4169.79	4017.04	3863.71	3668.83	3514.33	3355.74	3156.18
135.0	4702.93	4564.23	4440.75	4261.67	4113.02	3959.69	3802.85	3602.70	3448.20
180.0	4879.66	4805.93	4706.44	4563.06	4433.14	4286.25	4098.39	3942.72	3784.71
225.0	4761.45	4660.21	4512.73	4377.54	4234.75	4045.13	3887.12	3732.04	3575.78
270.0	4791.88	4700.59	4594.07	4440.75	4293.85	4110.09	3955.01	3798.75	3599.19
315.0	4599.93	4472.35	4299.12	4155.16	4003.58	3812.21	3655.96	3500.29	3345.79
360.0	4324.87	4173.88	4018.80	3860.20	3667.66	3511.99	3355.74	3155.59	2994.07

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2829.62	2611.92	2436.35	2268.39	2062.39	1889.16	1705.99	1377.68	1148.80
45.0	3067.81	2902.77	2689.75	2519.45	2356.17	2148.42	1979.29	1799.04	1614.11
90.0	2994.65	2781.63	2609.58	2438.11	2230.35	2066.49	1892.68	1716.52	1154.82
135.0	3291.36	3133.35	2923.84	2757.05	2582.07	2414.70	2205.19	2035.47	1806.65
180.0	3589.83	3432.99	3267.37	3054.93	2899.26	2728.96	2539.94	2333.94	2176.51
225.0	3372.12	3210.60	3040.30	2830.21	2653.47	2438.11	2271.90	2108.62	1939.49
270.0	3442.94	3286.68	3119.31	2901.02	2730.13	2563.34	2393.04	2175.34	2013.82
315.0	3145.06	2973.59	2804.46	2628.30	2416.45	2246.74	2041.91	1872.19	1692.53
360.0	2829.62	2611.92	2436.35	2268.39	2062.39	1889.16	1705.99	1377.68	1148.80

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1101.86	927.70	762.02	577.38	445.41	334.51	229.82	180.54	150.75
45.0	1379.43	1191.58	1010.16	797.72	643.81	472.92	354.70	304.38	304.38
90.0	1154.82	1108.30	928.23	719.83	567.61	432.83	297.59	219.11	176.33
135.0	1619.38	1432.69	1200.35	1021.86	845.71	643.22	503.35	380.45	303.21
180.0	2004.45	1831.23	1600.06	1413.96	1229.62	992.01	822.30	622.74	485.80
225.0	1762.76	1392.31	1162.02	1162.02	933.32	764.36	609.22	476.08	334.22
270.0	1839.42	1610.60	1428.01	1238.39	1008.40	830.49	668.97	497.50	381.04
315.0	1139.32	1139.32	1093.61	914.82	705.84	559.94	431.31	323.63	225.90
360.0	1101.86	927.70	762.02	577.38	445.41	334.51	229.82	180.54	150.75

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	135.30	123.95	112.71	104.99	97.97	91.70	85.97	79.65	74.91
45.0	154.97	137.47	125.24	115.82	105.98	99.02	92.82	85.68	80.64
90.0	148.76	133.72	122.49	111.31	103.58	96.91	90.77	83.63	78.48
135.0	303.21	163.57	143.85	129.57	118.63	107.39	99.90	91.76	85.79
180.0	365.82	313.74	313.74	160.94	141.16	127.23	114.06	105.52	97.85
225.0	248.37	193.12	157.89	139.75	123.60	113.77	105.40	96.15	89.66
270.0	305.55	305.55	168.08	148.24	133.14	121.96	110.37	102.36	95.22
315.0	181.48	157.19	136.94	125.30	115.76	105.46	98.20	91.65	84.45
360.0	135.30	123.95	112.71	104.99	97.97	91.70	85.97	79.65	74.91

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	70.46	65.43	61.86	57.82	54.72	51.91	48.57	46.17	43.89
45.0	76.02	71.69	66.66	62.91	59.34	55.48	52.55	49.80	46.76
90.0	73.74	69.41	64.49	60.92	57.59	53.72	50.86	47.40	44.95
135.0	80.47	74.50	70.17	66.19	61.39	58.00	54.89	51.97	48.63
180.0	91.24	84.04	78.89	74.32	69.06	65.31	60.98	57.82	54.78
225.0	83.98	78.89	74.21	69.00	65.25	61.74	58.52	54.72	51.79
270.0	87.32	81.87	76.90	71.16	67.13	63.44	59.17	56.06	53.02
315.0	79.42	74.85	70.58	65.72	62.09	58.82	55.71	52.09	49.28
360.0	70.46	65.43	61.86	57.82	54.72	51.91	48.57	46.17	43.89

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	41.67	39.03	37.28	35.58	34.00	32.07	30.43	28.73	26.92
45.0	44.42	42.19	39.74	37.86	36.11	34.47	32.60	31.02	29.32
90.0	42.66	40.50	38.16	36.40	34.76	32.89	31.37	29.85	28.27
135.0	46.17	43.83	41.67	39.21	37.45	35.70	33.71	32.19	30.49
180.0	51.97	48.57	46.06	43.83	41.61	39.15	37.34	35.58	33.94
225.0	48.34	45.82	42.90	40.73	38.74	36.99	35.29	33.42	31.95
270.0	49.33	46.76	44.24	41.43	39.56	37.69	35.99	34.41	32.48
315.0	46.70	43.66	41.49	39.03	37.16	35.46	33.47	32.07	30.49
360.0	41.67	39.03	37.28	35.58	34.00	32.07	30.43	28.73	26.92

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.46	23.99	22.77	21.77	21.24	20.78	20.83	21.13	21.42
45.0	27.92	26.04	24.64	23.12	22.41	21.83	21.42	21.59	22.41
90.0	26.80	25.16	24.05	23.53	23.29	23.76	25.52	26.34	24.70
135.0	28.91	27.33	25.87	23.99	22.53	21.42	20.78	20.01	19.61
180.0	32.13	30.61	28.62	27.04	25.57	23.70	22.24	21.24	20.37
225.0	30.43	28.79	26.80	25.28	23.82	22.00	21.13	20.31	19.84
270.0	30.96	28.91	27.39	25.87	23.94	22.53	21.54	21.01	20.78
315.0	28.73	26.80	25.28	23.76	22.53	21.48	20.89	20.42	19.84
360.0	25.46	23.99	22.77	21.77	21.24	20.78	20.83	21.13	21.42

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	21.89	22.06	21.24	20.95	20.13	19.25	18.90	17.03	16.15
45.0	23.12	23.53	23.94	23.41	22.94	22.00	20.48	19.31	17.15
90.0	23.12	23.53	22.41	21.36	21.01	20.31	19.02	17.62	16.56
135.0	19.20	18.73	18.32	17.91	17.44	17.15	16.80	16.56	16.44
180.0	19.84	19.37	18.96	18.55	18.08	17.67	17.32	16.85	16.62
225.0	19.43	19.02	18.79	18.32	17.85	17.32	16.97	16.74	16.50
270.0	20.72	20.37	19.55	18.49	17.97	17.56	17.21	16.91	16.62
315.0	19.37	18.96	18.43	18.02	17.67	17.26	17.03	16.80	16.68
360.0	21.89	22.06	21.24	20.95	20.13	19.25	18.90	17.03	16.15

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	16.04	15.33	14.28	13.99	13.46	12.47	11.94	12.11	12.47
45.0	16.50	16.15	15.45	14.10	13.64	13.40	12.35	11.82	12.06
90.0	16.21	15.74	14.81	13.93	13.40	13.28	12.35	11.88	12.11
135.0	16.33	16.15	15.86	15.45	14.40	13.52	13.11	12.58	11.94
180.0	16.33	16.15	16.04	15.80	15.68	15.16	14.28	13.40	13.23
225.0	16.39	16.27	15.98	15.92	15.39	14.22	13.46	13.28	12.70
270.0	16.50	16.39	16.04	15.86	15.39	14.34	13.64	13.28	12.76
315.0	16.50	16.27	16.09	15.16	14.40	13.75	13.46	12.47	11.88
360.0	16.04	15.33	14.28	13.99	13.46	12.47	11.94	12.11	12.47

Intensity data(cd)

C/γ(°)	90.0
0.0	12.29
45.0	12.35
90.0	12.35
135.0	11.94
180.0	12.58
225.0	12.06
270.0	11.94
315.0	12.00
360.0	12.29