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NT

Client:
LumCAT: 3-2807-L
Luminaire: 92.70.412.00
Report No: 2024227-B022
Ballast type: AC

Test No: 2024227-C022	Voltage(V): 36.020
LampCAT: P2141-036-1206-P3090-1	Current(A): 0.701
Lamp flux(lm): 3316.0	Power (W): 25.250
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2759.31, Efficiency(%): 83.21% , Luminous Efficacy(lm/W): 109.28
Central intensity(cd): 6303.371, Maximum intensity(cd): 6303.371
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=35.6
[C90/270]Total=35.6
Field angle(10%Imax): [C0/180]Total=64.6
[C90/270]Total=64.6
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.60 C90_270=0.60
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 83.21%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.725%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6303.371	0.000	0	0.00%	0.00%
1.0	6287.204	6.024	6.024	0.18%	0.22%
2.0	6255.382	18.002	24.027	0.54%	0.87%
3.0	6203.005	29.796	53.823	0.90%	1.95%
4.0	6135.411	41.301	95.124	1.25%	3.45%
5.0	6043.092	52.391	147.515	1.58%	5.35%
6.0	5925.315	62.897	210.412	1.90%	7.63%
7.0	5777.765	72.641	283.053	2.19%	10.26%
8.0	5580.472	81.289	364.342	2.45%	13.20%
9.0	5380.032	88.829	453.171	2.68%	16.42%
10.0	5142.504	95.225	548.396	2.87%	19.87%
11.0	4915.290	100.498	648.894	3.03%	23.52%
12.0	4641.332	104.468	753.361	3.15%	27.30%
13.0	4391.880	107.201	860.563	3.23%	31.19%
14.0	4121.432	108.970	969.532	3.29%	35.14%
15.0	3860.861	109.584	1079.117	3.30%	39.11%
16.0	3600.363	109.328	1188.445	3.30%	43.07%
17.0	3332.110	107.957	1296.402	3.26%	46.98%
18.0	3093.412	105.943	1402.345	3.19%	50.82%
19.0	2839.863	103.227	1505.572	3.11%	54.56%
20.0	2609.357	99.736	1605.308	3.01%	58.18%
21.0	2390.264	96.003	1701.31	2.90%	61.66%
22.0	2188.068	92.004	1793.314	2.77%	64.99%
23.0	2008.624	88.058	1881.372	2.66%	68.18%
24.0	1820.986	83.729	1965.101	2.53%	71.22%
25.0	1630.334	78.475	2043.576	2.37%	74.06%
26.0	1451.460	72.746	2116.322	2.19%	76.70%
27.0	1311.423	67.595	2183.917	2.04%	79.15%
28.0	1200.435	63.595	2247.512	1.92%	81.45%
29.0	1079.901	59.660	2307.172	1.80%	83.61%
30.0	948.518	54.767	2361.939	1.65%	85.60%
31.0	802.907	48.740	2410.679	1.47%	87.37%
32.0	670.192	42.203	2452.881	1.27%	88.89%
33.0	544.501	35.785	2488.666	1.08%	90.19%
34.0	431.947	29.550	2518.217	0.89%	91.26%
35.0	333.834	23.782	2541.999	0.72%	92.12%
36.0	259.452	18.890	2560.889	0.57%	92.81%
37.0	201.486	15.033	2575.923	0.45%	93.35%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	149.064	11.701	2587.623	0.35%	93.78%
39.0	107.733	8.765	2596.389	0.26%	94.10%
40.0	96.804	7.133	2603.522	0.22%	94.35%
41.0	88.420	6.596	2610.118	0.20%	94.59%
42.0	82.253	6.201	2616.319	0.19%	94.82%
43.0	76.569	5.883	2622.202	0.18%	95.03%
44.0	71.771	5.599	2627.801	0.17%	95.23%
45.0	67.520	5.353	2633.154	0.16%	95.43%
46.0	64.002	5.144	2638.297	0.16%	95.61%
47.0	60.798	4.964	2643.261	0.15%	95.79%
48.0	57.945	4.800	2648.061	0.14%	95.97%
49.0	55.560	4.661	2652.722	0.14%	96.14%
50.0	53.212	4.535	2657.257	0.14%	96.30%
51.0	51.280	4.421	2661.678	0.13%	96.46%
52.0	49.378	4.319	2665.998	0.13%	96.62%
53.0	47.550	4.216	2670.214	0.13%	96.77%
54.0	45.889	4.118	2674.332	0.12%	96.92%
55.0	44.045	4.015	2678.347	0.12%	97.07%
56.0	42.231	3.899	2682.245	0.12%	97.21%
57.0	40.322	3.775	2686.02	0.11%	97.34%
58.0	38.449	3.643	2689.663	0.11%	97.48%
59.0	36.562	3.507	2693.169	0.11%	97.60%
60.0	34.682	3.366	2696.535	0.10%	97.72%
61.0	32.919	3.226	2699.761	0.10%	97.84%
62.0	31.236	3.091	2702.853	0.09%	97.95%
63.0	29.810	2.969	2705.822	0.09%	98.06%
64.0	28.259	2.849	2708.671	0.09%	98.16%
65.0	26.986	2.734	2711.405	0.08%	98.26%
66.0	25.794	2.633	2714.038	0.08%	98.36%
67.0	24.894	2.549	2716.587	0.08%	98.45%
68.0	24.126	2.483	2719.07	0.07%	98.54%
69.0	23.394	2.424	2721.495	0.07%	98.63%
70.0	22.838	2.374	2723.869	0.07%	98.72%
71.0	22.231	2.329	2726.199	0.07%	98.80%
72.0	21.624	2.280	2728.479	0.07%	98.88%
73.0	20.995	2.229	2730.708	0.07%	98.96%
74.0	20.073	2.159	2732.867	0.07%	99.04%
75.0	19.188	2.074	2734.941	0.06%	99.12%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	18.815	2.017	2736.958	0.06%	99.19%
77.0	18.076	1.967	2738.925	0.06%	99.26%
78.0	17.564	1.908	2740.833	0.06%	99.33%
79.0	16.898	1.852	2742.685	0.06%	99.40%
80.0	16.372	1.794	2744.478	0.05%	99.46%
81.0	15.582	1.728	2746.206	0.05%	99.53%
82.0	14.894	1.653	2747.859	0.05%	99.58%
83.0	14.265	1.585	2749.444	0.05%	99.64%
84.0	13.745	1.526	2750.97	0.05%	99.70%
85.0	13.299	1.476	2752.446	0.04%	99.75%
86.0	12.897	1.432	2753.878	0.04%	99.80%
87.0	12.597	1.395	2755.273	0.04%	99.85%
88.0	12.312	1.364	2756.638	0.04%	99.90%
89.0	12.173	1.342	2757.98	0.04%	99.95%
90.0	12.136	1.333	2759.313	0.04%	100.00%

Zonal flux distribution table

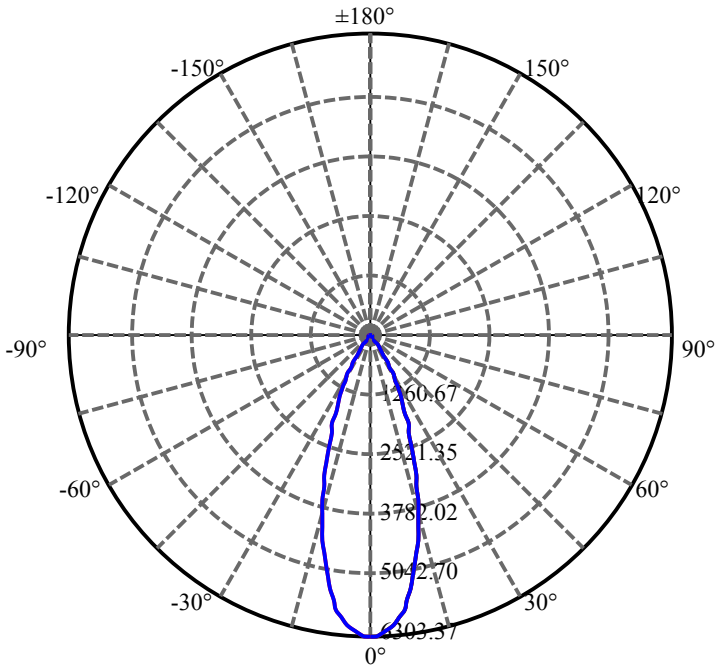
ZONAL LUMEN SUMMARY

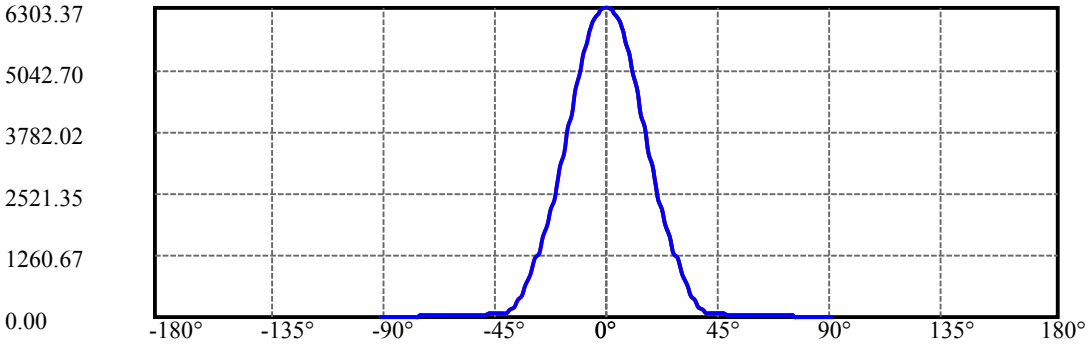
Zone	Lumens	%Lamp	%Fixt
0-30	2361.94	71.23%	85.60%
0-40	2603.52	78.51%	94.35%
0-60	2696.54	81.32%	97.72%
0-90	2757.98	83.17%	99.95%
0-120	2757.98	83.17%	99.95%
0-180	2759.31	83.21%	100.00%
60-90	61.44	1.85%	2.23%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.37	2207.45	66.57%	80.00%

ZONAL LUMEN SUMMARY

0-10	548.40
10-20	1056.91
20-30	756.63
30-40	241.58
40-50	53.74
50-60	39.28
60-70	27.33
70-80	20.61
80-90	13.50
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):

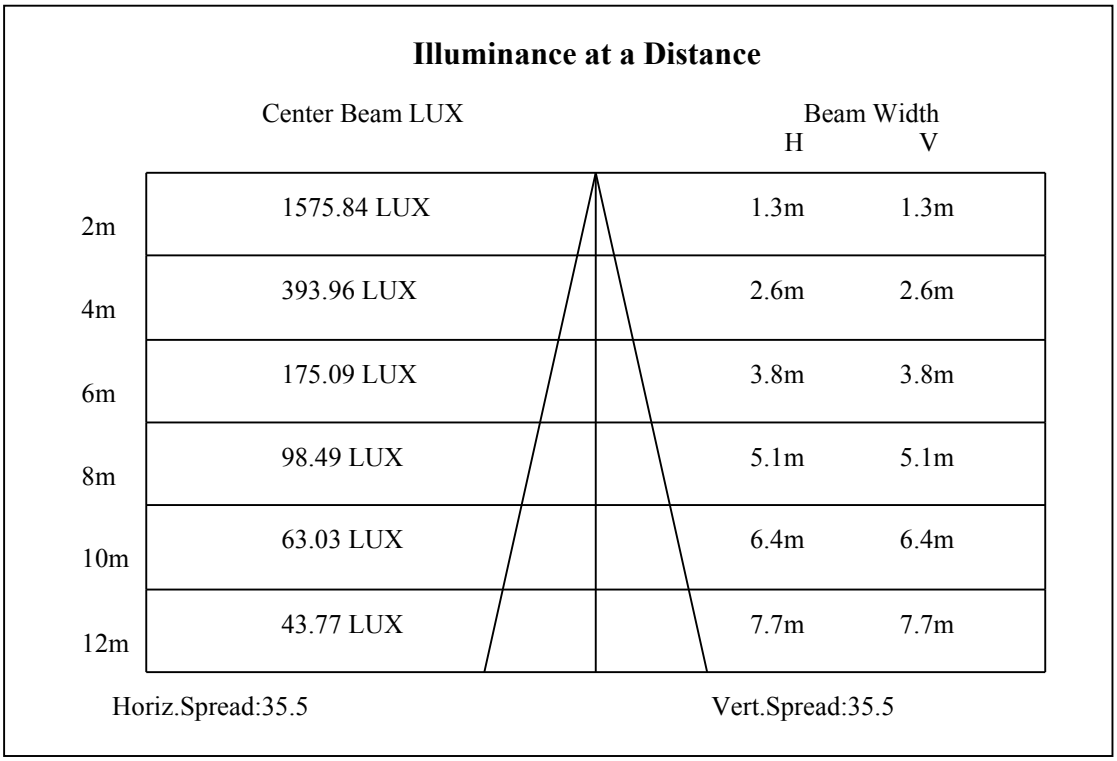
C0/C180:

C90/C270:

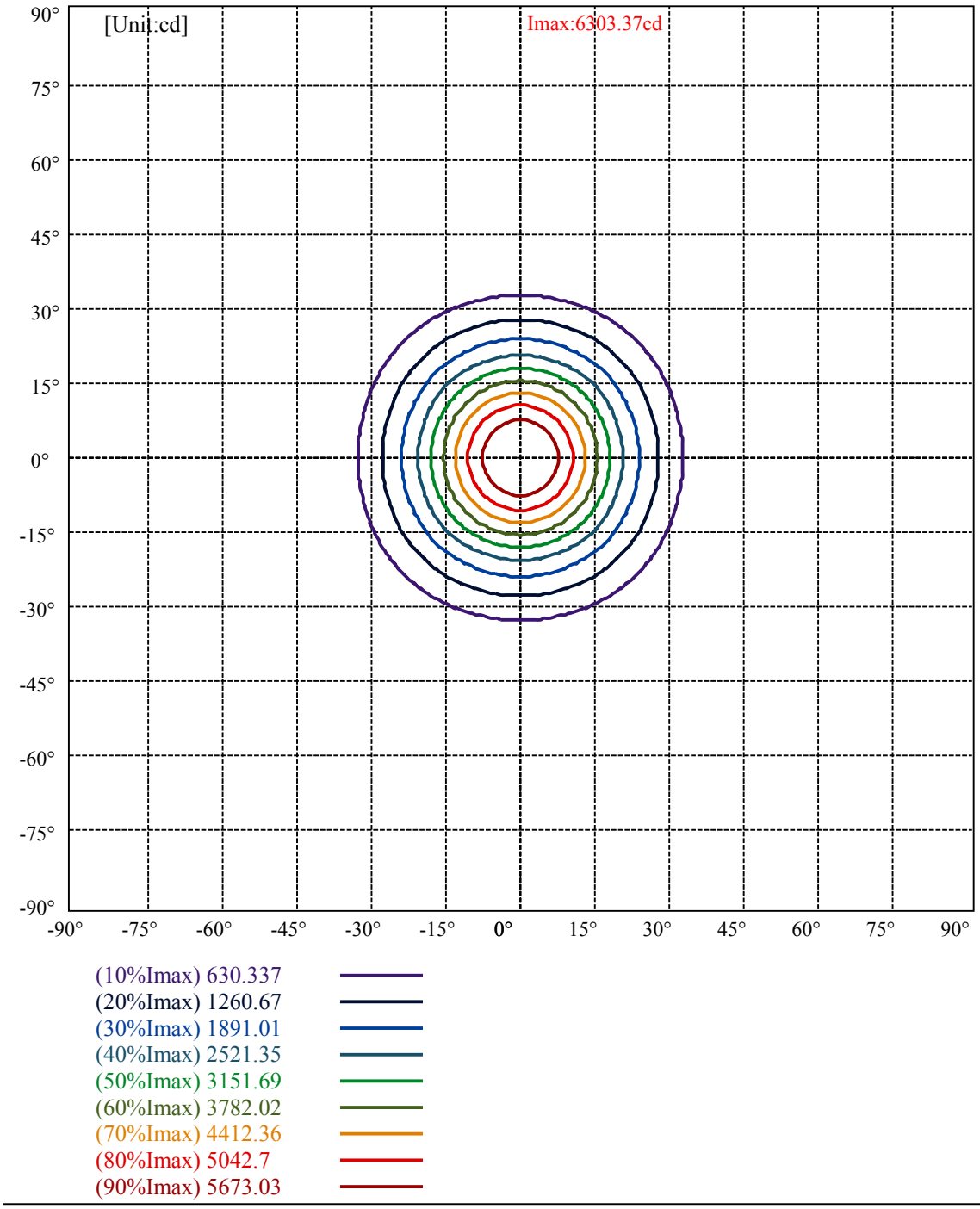
Field angle(10%Imax):C0/180Left:32.3 Right:32.3
:C90/270Left:32.3 Right:32.3

Beam Angle(50%Imax):C0/180Left:17.8 Right:17.8
:C90/270Left:17.8 Right:17.8

Lux distance Curve



ISO-Intensity(V-H)

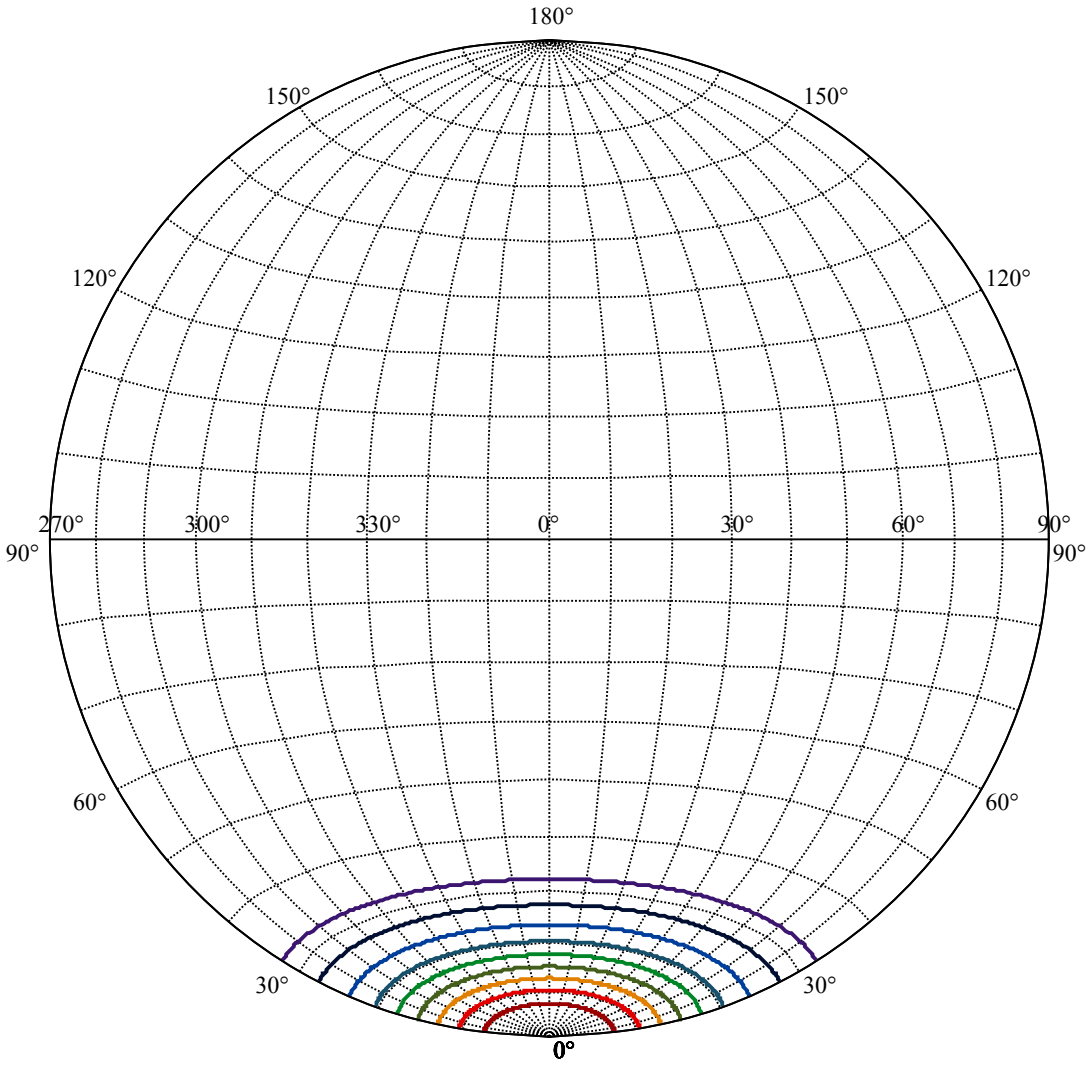


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



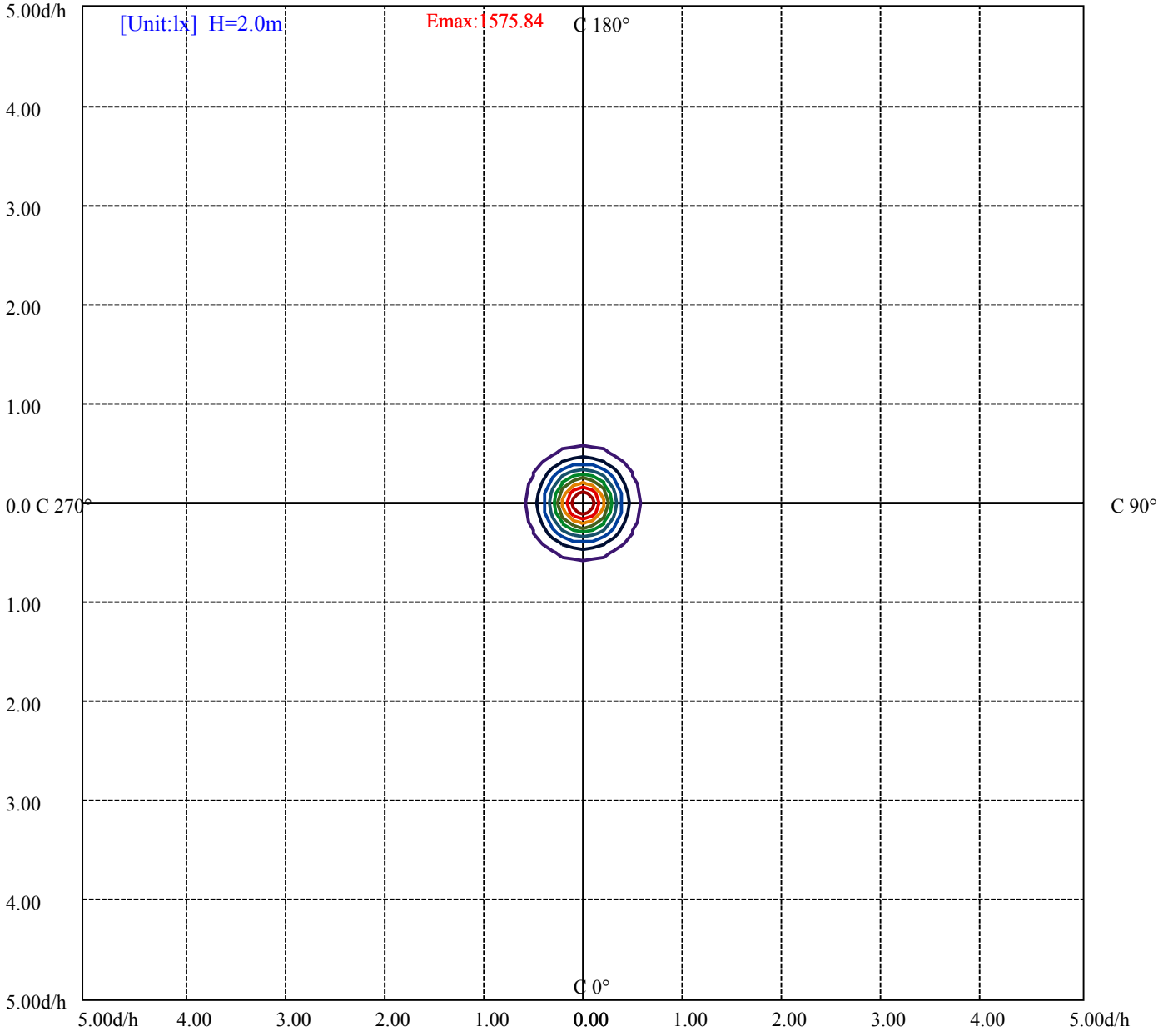
House [Unit:cd] Road

Imax:6303.37

(10%Imax) 630.337
(20%Imax) 1260.67
(30%Imax) 1891.01
(40%Imax) 2521.35
(50%Imax) 3151.69
(60%Imax) 3782.02
(70%Imax) 4412.36
(80%Imax) 5042.7
(90%Imax) 5673.03

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

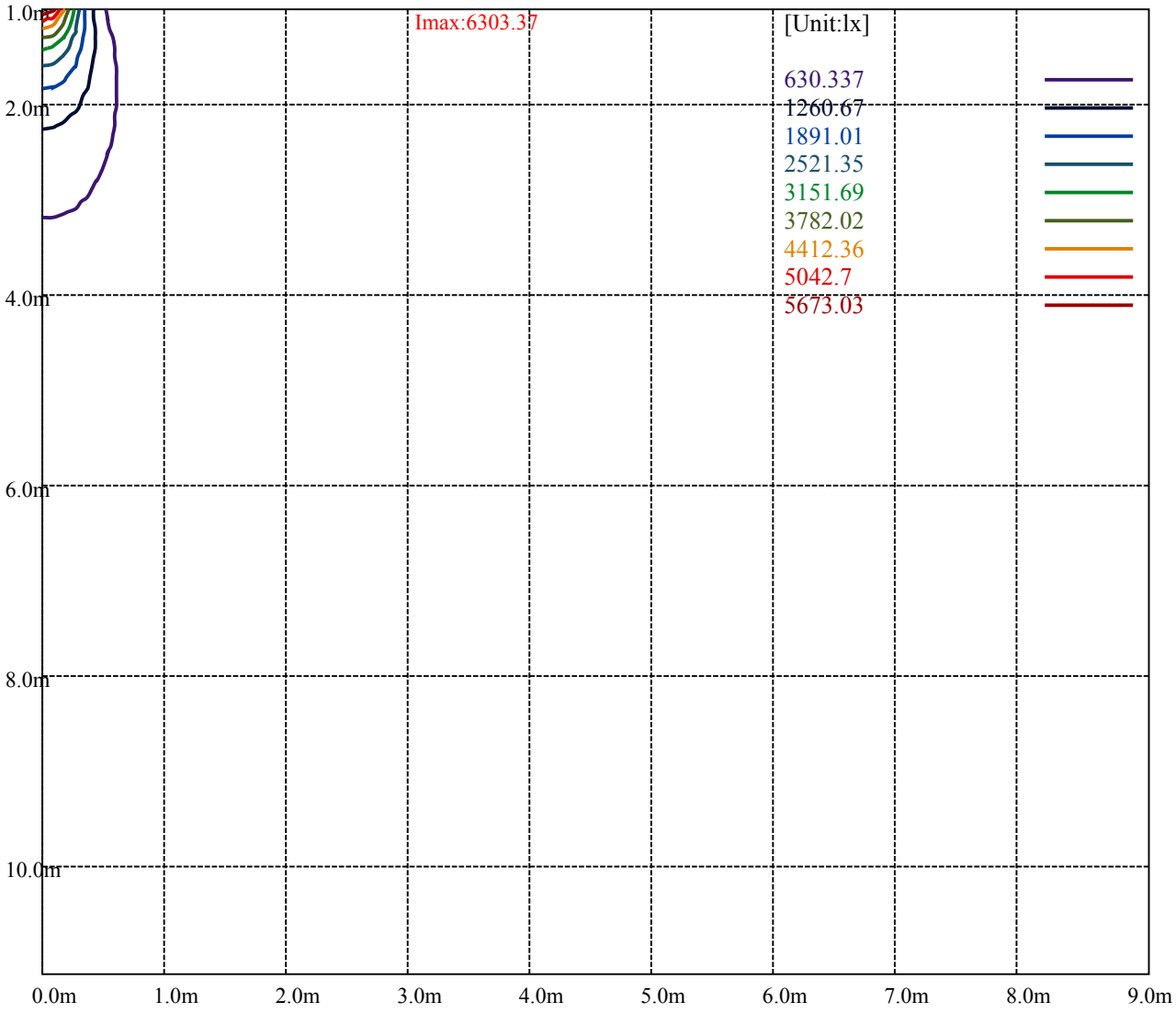
ISO illuminance diagram



(10%Emax) 157.5842
(20%Emax) 315.1675
(30%Emax) 472.7525
(40%Emax) 630.3375
(50%Emax) 787.92
(60%Emax) 945.505
(70%Emax) 1103.09
(80%Emax) 1260.672
(90%Emax) 1418.257

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

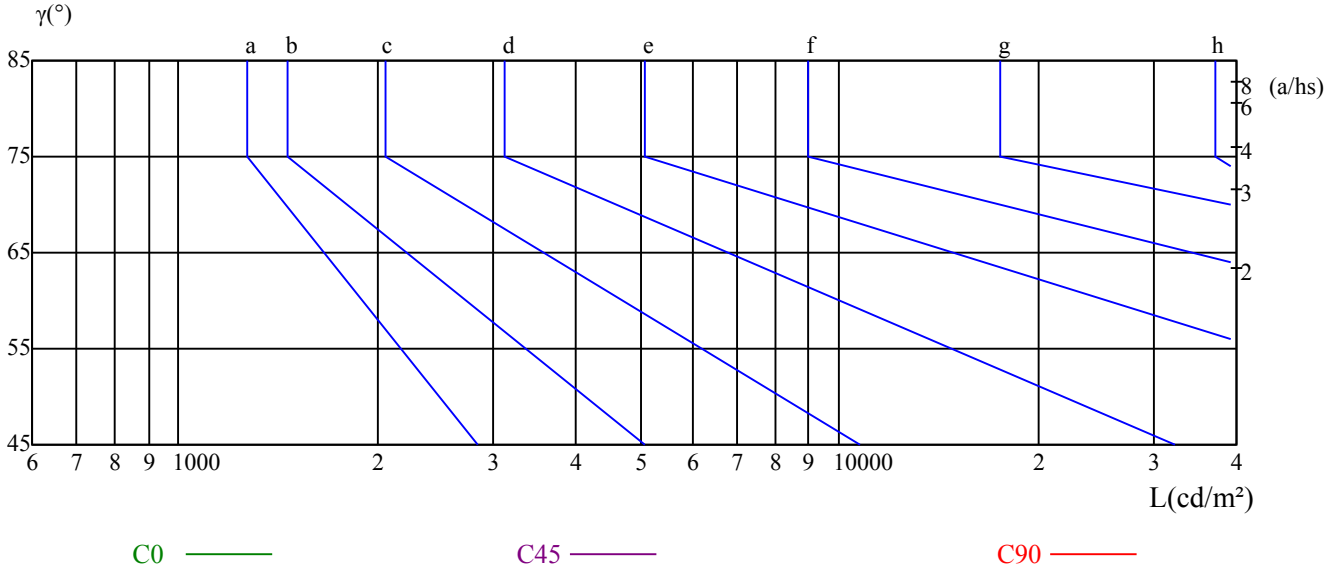
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

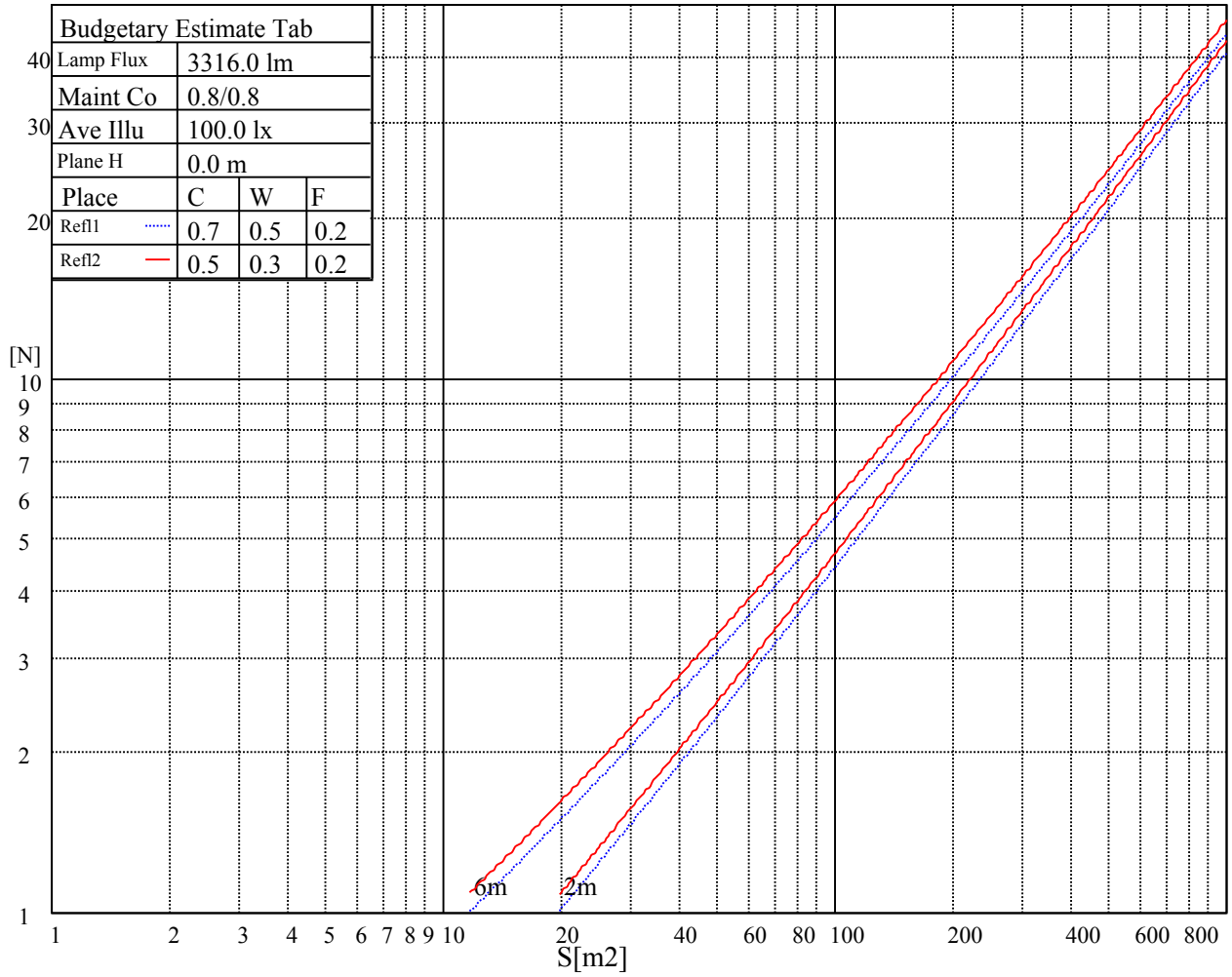
Luminance Limitting Curve



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		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

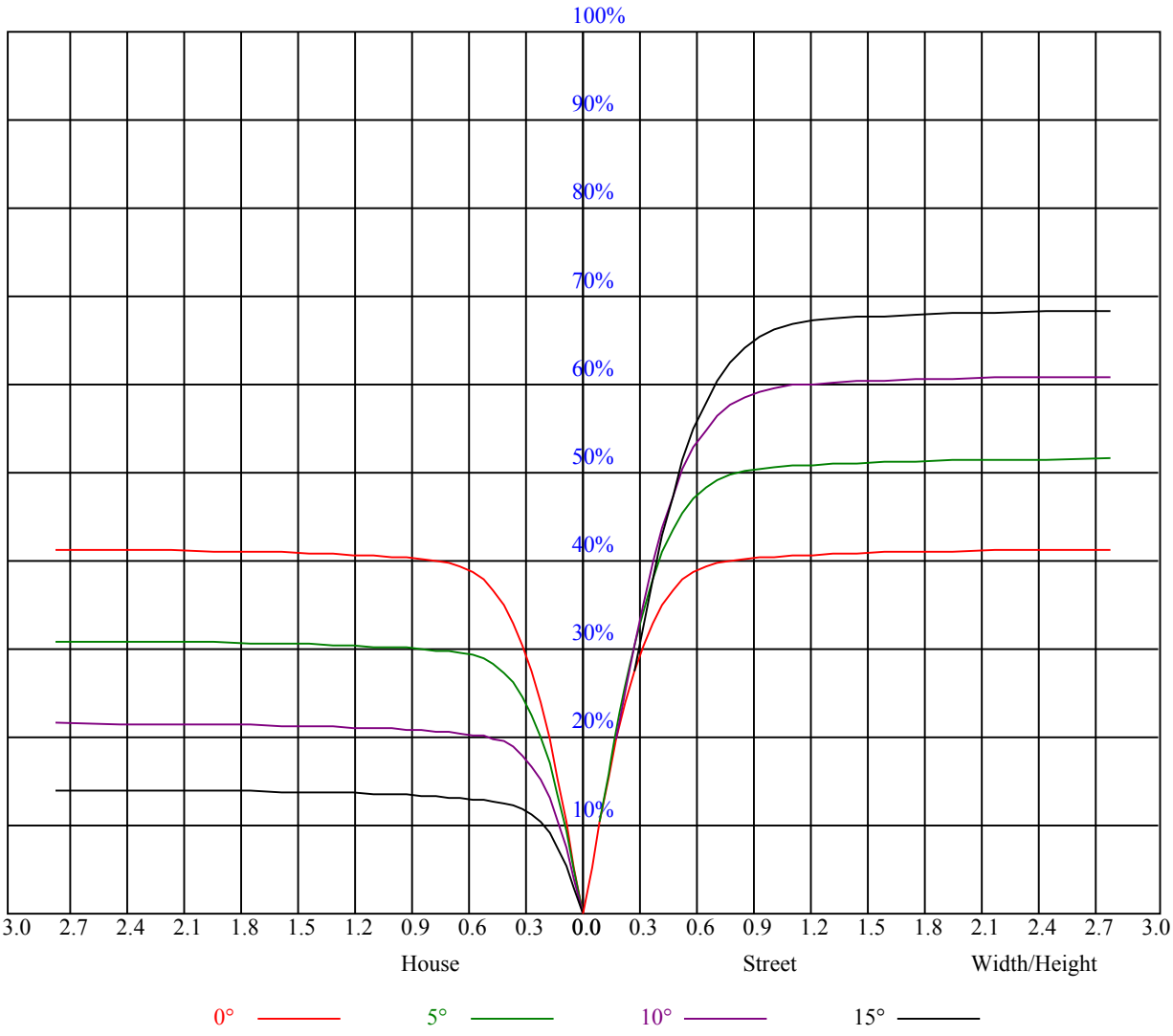


Equipment: GMS1980 Date: 2024/2/27 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

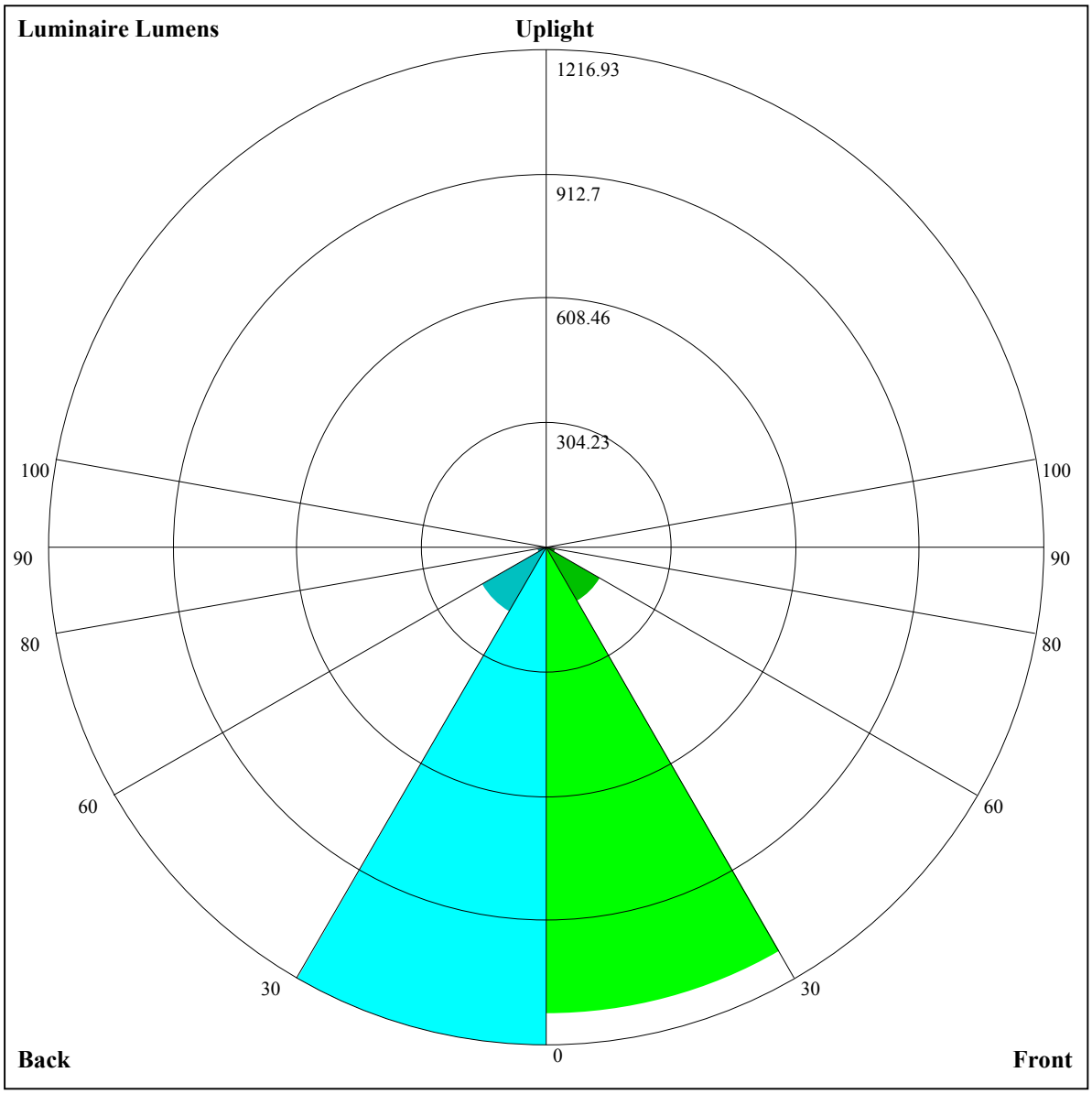
Utilization factor table for indoor luminaire

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	0.99	0.99	0.99	0.97	0.97	0.97	0.92	0.92	0.92	0.89	0.89	0.89	0.85	0.85	0.85	0.83
1	0.93	0.91	0.89	0.91	0.89	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.78
2	0.87	0.84	0.81	0.86	0.83	0.80	0.83	0.81	0.79	0.80	0.79	0.77	0.78	0.77	0.75	0.74
3	0.82	0.78	0.75	0.81	0.77	0.75	0.79	0.76	0.74	0.77	0.74	0.72	0.75	0.73	0.71	0.70
4	0.78	0.74	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.68	0.72	0.70	0.68	0.67
5	0.74	0.70	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.70	0.67	0.65	0.69	0.66	0.64	0.63
6	0.70	0.66	0.63	0.70	0.66	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.64	0.61	0.60
7	0.67	0.63	0.60	0.67	0.62	0.60	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.58
8	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.61	0.58	0.56	0.55
9	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.53
10	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.57	0.54	0.52	0.51

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=1143.62,FM=154.55,FH=23.87,FVH=7.39
BL=1216.93,BM=184.35,BH=24.86,BVH=7.55
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	6278.94	6228.02	6173.01	6102.20	5968.77	5817.78	5650.99	5450.84	5183.98
45.0	6311.71	6303.52	6278.35	6219.83	6156.63	6062.40	5937.17	5779.16	5555.60
90.0	6311.71	6279.52	6231.53	6175.94	6101.03	5964.09	5828.31	5652.75	5403.44
135.0	6311.12	6297.08	6281.28	6233.29	6185.30	6095.76	5988.67	5859.92	5644.55
180.0	6278.94	6298.84	6296.49	6264.31	6221.59	6172.43	6109.22	6034.31	5915.51
225.0	6311.71	6286.55	6249.09	6188.81	6129.71	6060.65	5932.48	5795.54	5625.24
270.0	6311.71	6314.64	6292.40	6243.24	6187.06	6129.12	6049.53	5907.90	5758.09
315.0	6311.12	6289.47	6240.90	6196.42	6133.22	6042.51	5906.15	5741.70	5557.36
360.0	6278.94	6228.02	6173.01	6102.20	5968.77	5817.78	5650.99	5450.84	5183.98

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4960.43	4734.53	4492.25	4190.85	3944.48	3629.04	3380.90	3143.89	2864.73
45.0	5354.28	5136.58	4916.53	4623.34	4380.47	4132.92	3821.58	3574.03	3270.30
90.0	5195.10	4915.36	4667.81	4417.92	4171.54	3859.03	3611.48	3364.52	3129.26
135.0	5445.58	5234.90	5012.51	4718.14	4474.10	4224.21	3970.81	3651.86	3399.05
180.0	5725.31	5546.82	5341.41	5117.27	4815.88	4571.84	4327.80	4076.74	3768.91
225.0	5423.92	5158.23	4928.82	4692.39	4455.96	4155.16	3915.21	3678.78	3379.15
270.0	5581.35	5340.24	5124.87	4831.68	4592.90	4341.84	4102.49	3797.58	3559.40
315.0	5354.28	5073.37	4838.11	4539.06	4299.71	4057.42	3756.62	3515.51	3286.10
360.0	4960.43	4734.53	4492.25	4190.85	3944.48	3629.04	3380.90	3143.89	2864.73

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2649.96	2450.98	2259.61	2036.64	1866.93	1696.63	1538.62	1155.18	1155.18
45.0	3044.40	2820.26	2551.64	2354.42	2167.15	1988.65	1780.31	1618.79	1467.22
90.0	2898.09	2629.47	2425.23	2183.53	2005.62	1834.15	1628.15	1486.53	1138.20
135.0	3158.52	2873.51	2654.05	2403.58	2218.65	2040.74	1871.02	1665.02	1511.69
180.0	3528.97	3219.38	2976.51	2749.45	2505.41	2309.36	2113.89	1957.64	1761.59
225.0	3143.30	2857.13	2642.93	2439.86	2204.02	2024.94	1859.90	1702.48	1508.18
270.0	3328.23	3097.65	2807.38	2595.53	2404.75	2213.96	1982.22	1827.13	1628.74
315.0	2995.83	2770.51	2557.49	2359.10	2132.03	1960.56	1793.77	1629.91	1440.88
360.0	2649.96	2450.98	2259.61	2036.64	1866.93	1696.63	1538.62	1155.18	1155.18

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1121.23	945.96	819.78	696.18	580.60	442.90	343.41	231.75	161.93
45.0	1343.74	1217.91	1045.86	915.35	753.83	631.52	520.32	389.23	316.08
90.0	1138.20	1074.00	935.37	808.49	658.20	542.62	434.24	334.63	224.90
135.0	1383.53	1271.75	1105.55	975.63	842.78	719.89	574.75	463.56	364.07
180.0	1601.23	1463.12	1341.39	1195.67	1061.66	914.18	759.68	635.61	524.42
225.0	1298.09	1144.76	1144.76	1012.21	845.12	718.89	571.71	465.37	366.35
270.0	1471.31	1351.93	1209.13	1082.14	939.34	774.90	649.66	535.54	426.69
315.0	1134.05	1134.05	1037.37	902.48	741.71	616.65	502.24	399.88	286.23
360.0	1121.23	945.96	819.78	696.18	580.60	442.90	343.41	231.75	161.93

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	123.13	106.69	97.09	89.60	83.28	77.89	71.98	67.83	63.38
45.0	316.08	133.49	113.59	102.65	94.22	85.50	80.12	75.44	71.10
90.0	159.24	122.14	106.75	97.67	90.48	83.10	78.13	73.74	68.82
135.0	314.91	314.91	125.41	109.14	99.72	90.77	85.03	79.77	75.32
180.0	391.57	299.69	299.69	141.62	116.64	105.40	96.15	87.32	81.52
225.0	255.63	181.07	127.40	105.63	96.04	88.60	82.69	76.20	71.81
270.0	307.30	307.30	207.46	115.11	102.36	91.24	84.68	79.18	73.27
315.0	207.75	146.60	115.11	100.42	91.70	84.86	79.24	73.09	68.94
360.0	123.13	106.69	97.09	89.60	83.28	77.89	71.98	67.83	63.38

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	60.22	57.41	55.07	52.49	50.56	48.46	46.88	45.41	43.83
45.0	66.25	63.03	60.10	56.94	54.54	52.44	50.15	48.63	46.64
90.0	65.37	62.21	59.40	56.59	54.37	52.32	50.39	48.11	46.47
135.0	70.34	66.83	63.56	60.69	58.23	55.25	53.20	50.97	49.04
180.0	76.43	71.98	67.01	63.56	60.57	57.35	55.19	53.02	50.74
225.0	68.06	64.55	60.80	58.41	56.18	53.67	51.79	49.86	48.22
270.0	69.17	64.73	61.74	59.11	56.18	54.31	52.44	50.80	48.81
315.0	64.32	61.27	58.70	55.77	53.84	51.91	50.21	48.22	46.64
360.0	60.22	57.41	55.07	52.49	50.56	48.46	46.88	45.41	43.83

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	41.67	40.03	38.22	36.34	34.29	32.66	30.49	29.20	27.92
45.0	45.12	43.42	41.55	39.56	37.57	35.70	34.18	32.30	30.31
90.0	44.77	42.43	40.67	38.22	36.46	34.88	33.12	31.13	29.85
135.0	47.46	45.30	43.37	41.61	39.33	37.22	35.58	33.71	31.60
180.0	48.98	46.82	45.12	43.48	41.61	39.44	37.51	35.64	34.06
225.0	46.58	45.18	43.01	41.26	39.62	37.75	35.58	34.06	32.30
270.0	47.29	45.82	44.36	42.19	40.50	38.86	36.58	35.00	33.01
315.0	45.24	43.37	41.55	39.91	38.22	35.99	34.41	32.30	30.84
360.0	41.67	40.03	38.22	36.34	34.29	32.66	30.49	29.20	27.92

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	26.45	25.16	24.23	23.12	22.00	21.24	20.48	19.61	18.79
45.0	29.09	27.39	26.22	25.28	23.99	23.00	22.30	21.71	21.30
90.0	28.50	27.15	25.93	25.16	24.70	24.58	25.34	26.28	24.99
135.0	30.31	28.91	27.39	26.16	25.28	24.05	22.94	22.06	21.13
180.0	32.36	30.37	29.09	27.74	26.10	25.11	23.82	22.88	22.00
225.0	30.90	29.20	27.74	26.22	25.34	24.29	23.00	22.18	21.65
270.0	31.37	30.14	28.79	27.15	27.15	27.39	26.69	26.10	26.86
315.0	29.50	27.74	26.51	25.52	24.58	23.35	22.59	21.89	21.13
360.0	26.45	25.16	24.23	23.12	22.00	21.24	20.48	19.61	18.79

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.14	17.62	17.15	16.62	16.21	15.68	15.22	14.81	14.40
45.0	20.83	20.13	19.20	19.02	18.38	18.20	17.67	17.21	16.68
90.0	22.71	22.12	21.77	19.90	19.96	19.02	17.97	17.38	16.44
135.0	20.31	19.72	19.20	18.55	17.97	17.44	16.91	16.39	15.92
180.0	21.01	20.13	19.37	18.67	17.97	17.50	17.15	16.62	16.04
225.0	21.24	20.78	20.01	19.14	18.90	18.38	18.02	17.50	17.09
270.0	28.44	27.74	24.76	23.06	23.35	21.13	21.01	19.20	18.73
315.0	20.31	19.72	19.14	18.55	17.79	17.26	16.56	16.09	15.68
360.0	18.14	17.62	17.15	16.62	16.21	15.68	15.22	14.81	14.40

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.99	13.58	13.23	12.93	12.64	12.29	12.52	11.94	12.06
45.0	15.45	14.63	13.93	13.58	13.05	12.64	12.41	12.52	11.94
90.0	14.86	14.22	13.87	13.28	12.82	12.52	12.29	12.06	12.29
135.0	15.45	14.92	14.46	13.87	13.34	12.87	12.58	12.29	12.06
180.0	15.51	14.92	14.51	14.10	13.75	13.28	12.93	12.64	12.41
225.0	16.39	15.39	14.57	13.99	13.58	13.17	12.64	12.35	12.41
270.0	17.79	16.68	15.22	14.40	13.87	13.40	12.87	12.47	12.23
315.0	15.22	14.81	14.34	13.81	13.34	12.99	12.52	12.23	12.00
360.0	13.99	13.58	13.23	12.93	12.64	12.29	12.52	11.94	12.06

Intensity data(cd)

C/γ(°)	90.0
0.0	12.06
45.0	12.06
90.0	12.06
135.0	12.52
180.0	12.52
225.0	11.94
270.0	11.94
315.0	12.00
360.0	12.06