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Nata

Client: NT

LumCAT: 2-3054-LM

Luminaire: 92.70.121.00 LED HOLDER

Report No: 20251014-B002

Ballast type: DC

Test No: 20251014-C002

Voltage(V): 34.810

LampCAT: PHILIPS SLM 1208 L15 1919 G8 Current(A): 0.571

Lamp flux(lm): 3497.8 Power (W): 19.870

Number of Lamps: 1 PF: 0.000

Length(mm): 65 Width(mm): 65

Phm Type: C Height(mm): 34

Photometric Results

Lumens(lm): 3375.72, Efficiency(%): 96.51% , Luminous Efficacy(lm/W): 169.89

Central intensity(cd): 4614.956, Maximum intensity(cd): 4614.956

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=52.4

[C90/270]Total=52.4

Field angle(10%Imax): [C0/180]Total=79.0

[C90/270]Total=79.0

Maximum s/h(1/2): C0_180=0.82 C90_270=0.82

Maximum s/h(1/4): C0_180=0.80 C90_270=0.80

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 96.51%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

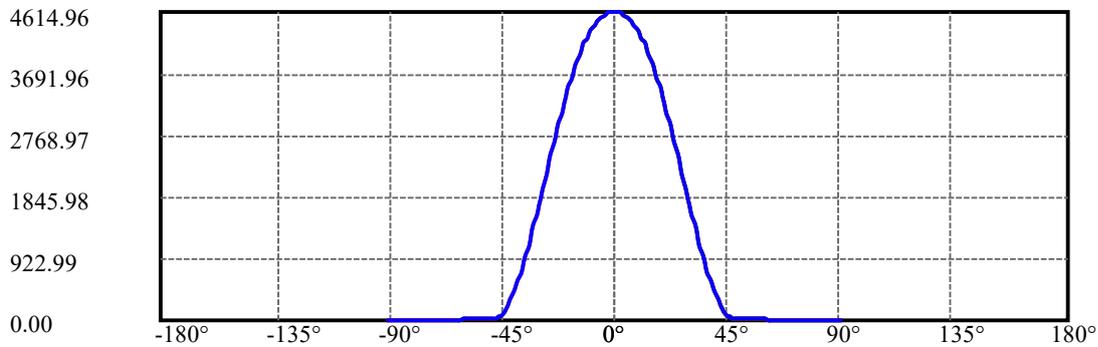
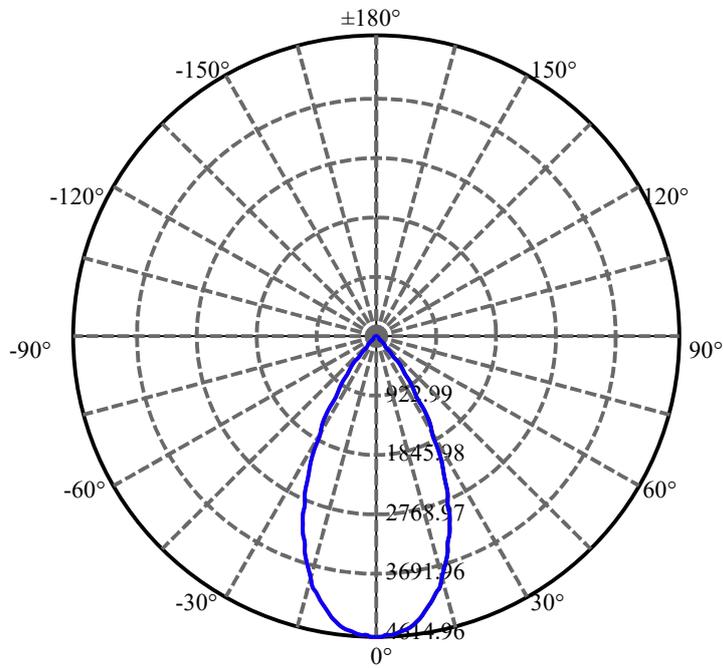
CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.100%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/10/14
Humidity(%): 60.0%

Operator: YZQ
Distance(m): 9.28



C0(Max): —————

C0/C180: —————

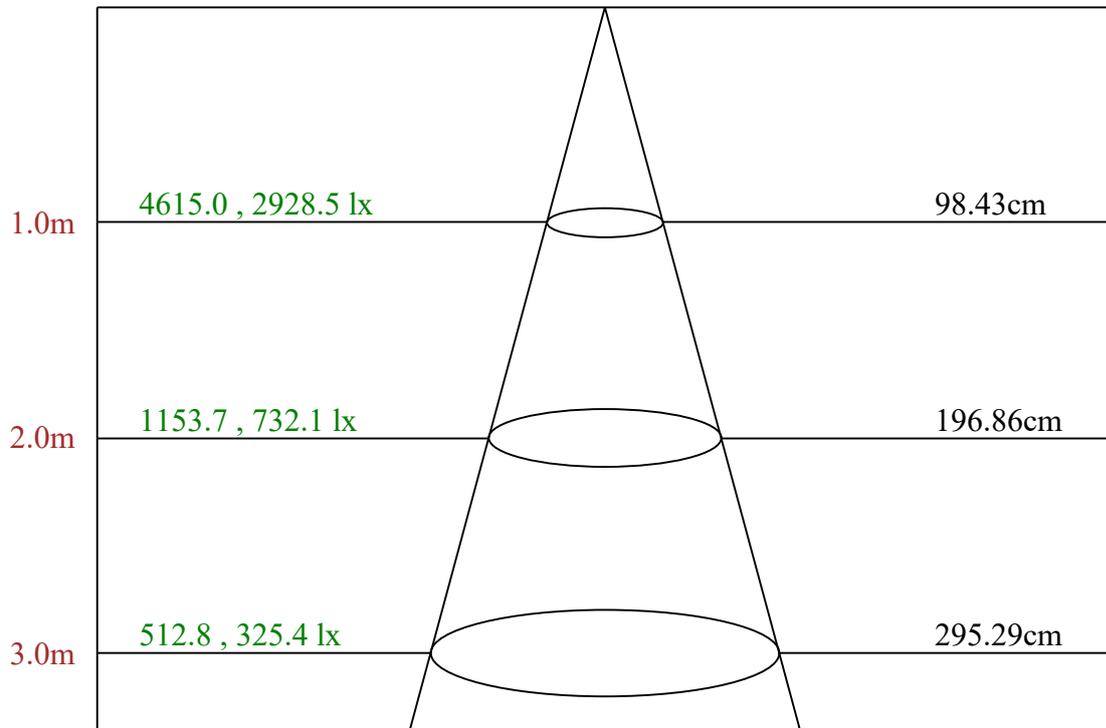
C90/C270: —————

Field angle(10%Imax):C0/180Left:39.5 Right:39.5

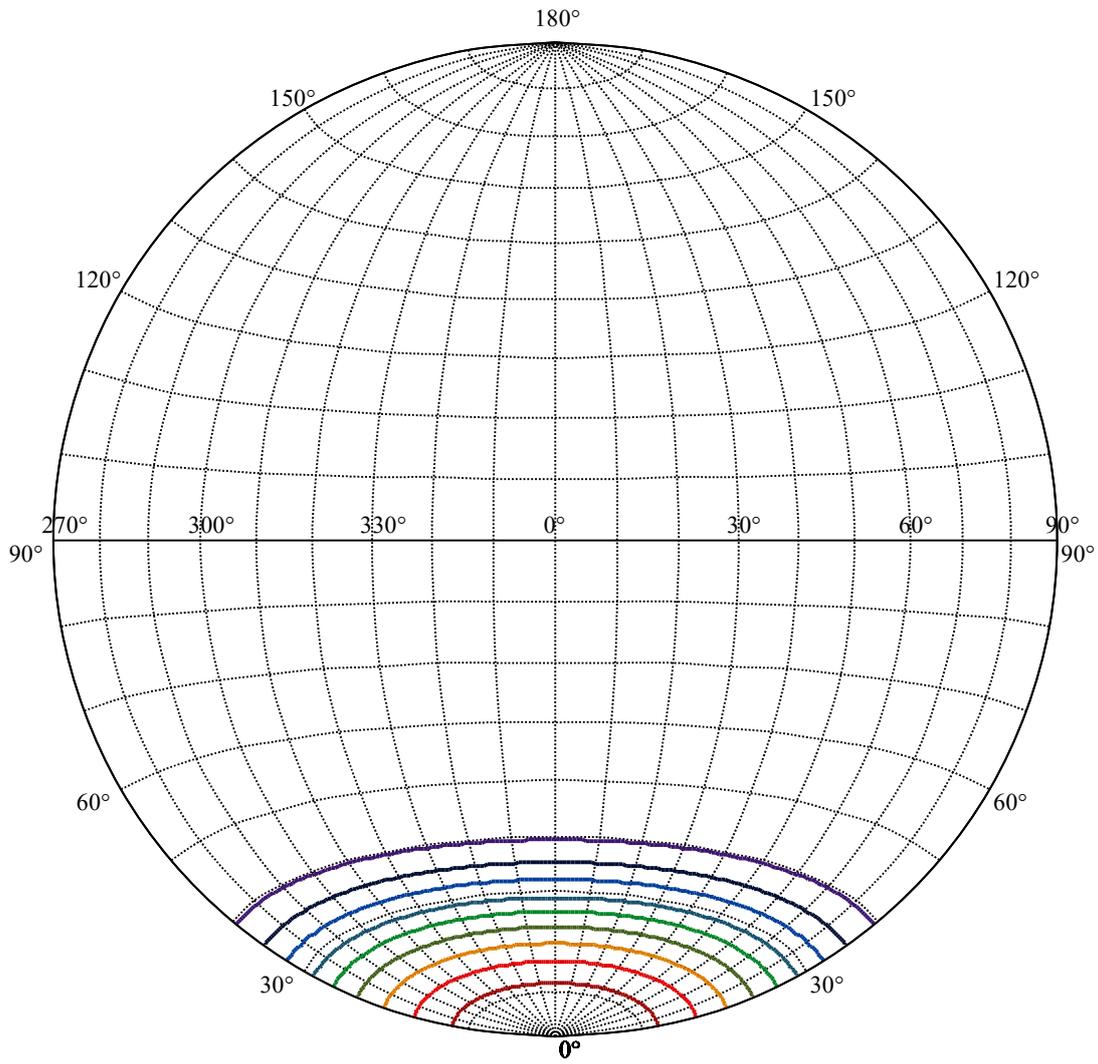
:C90/270Left:39.5 Right:39.5

Beam Angle(50%Imax):C0/180Left:26.2 Right:26.2

:C90/270Left:26.2 Right:26.2



Max , Ave Beam angle of C0 plane 52.41



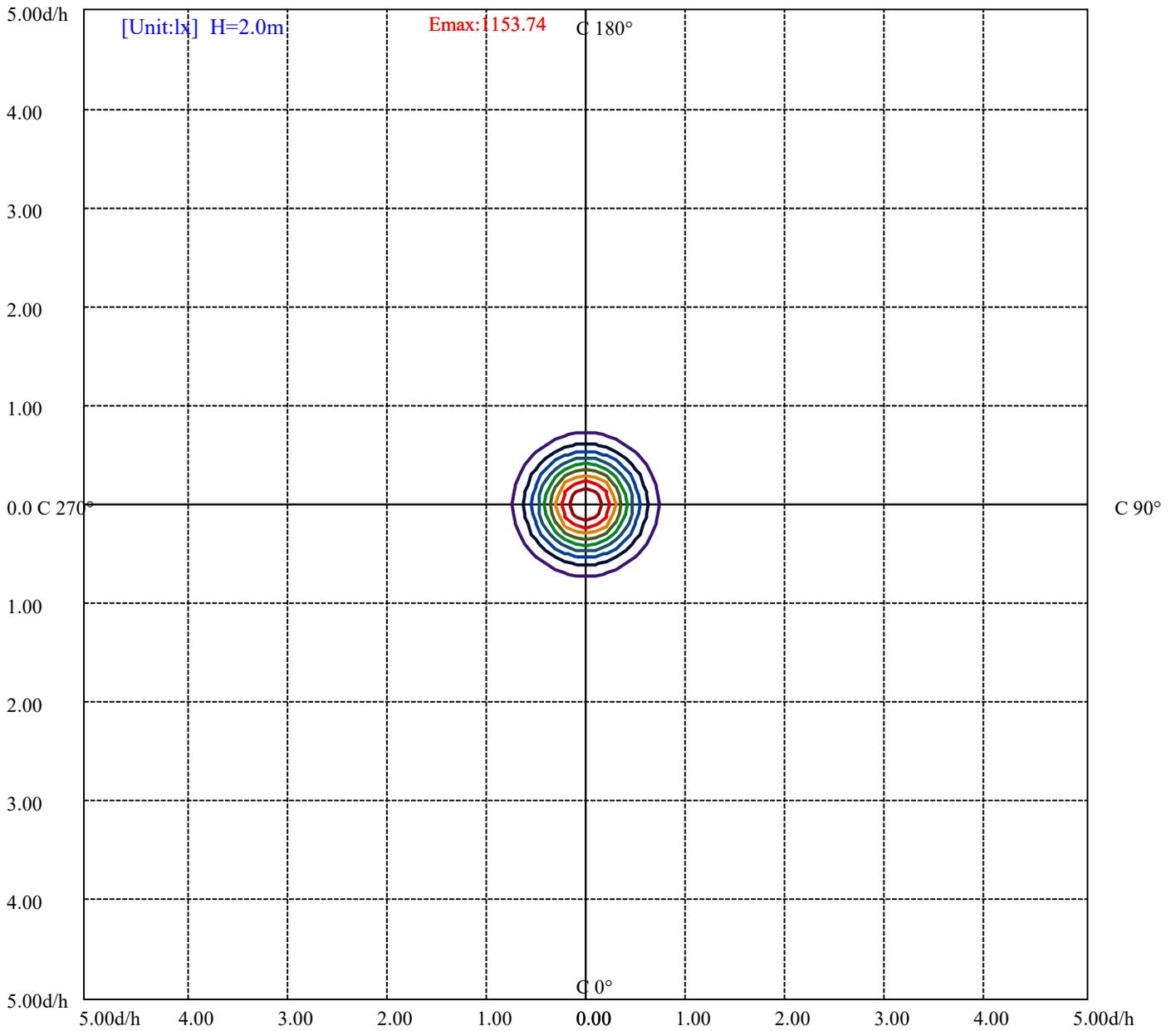
House

[Unit:cd]

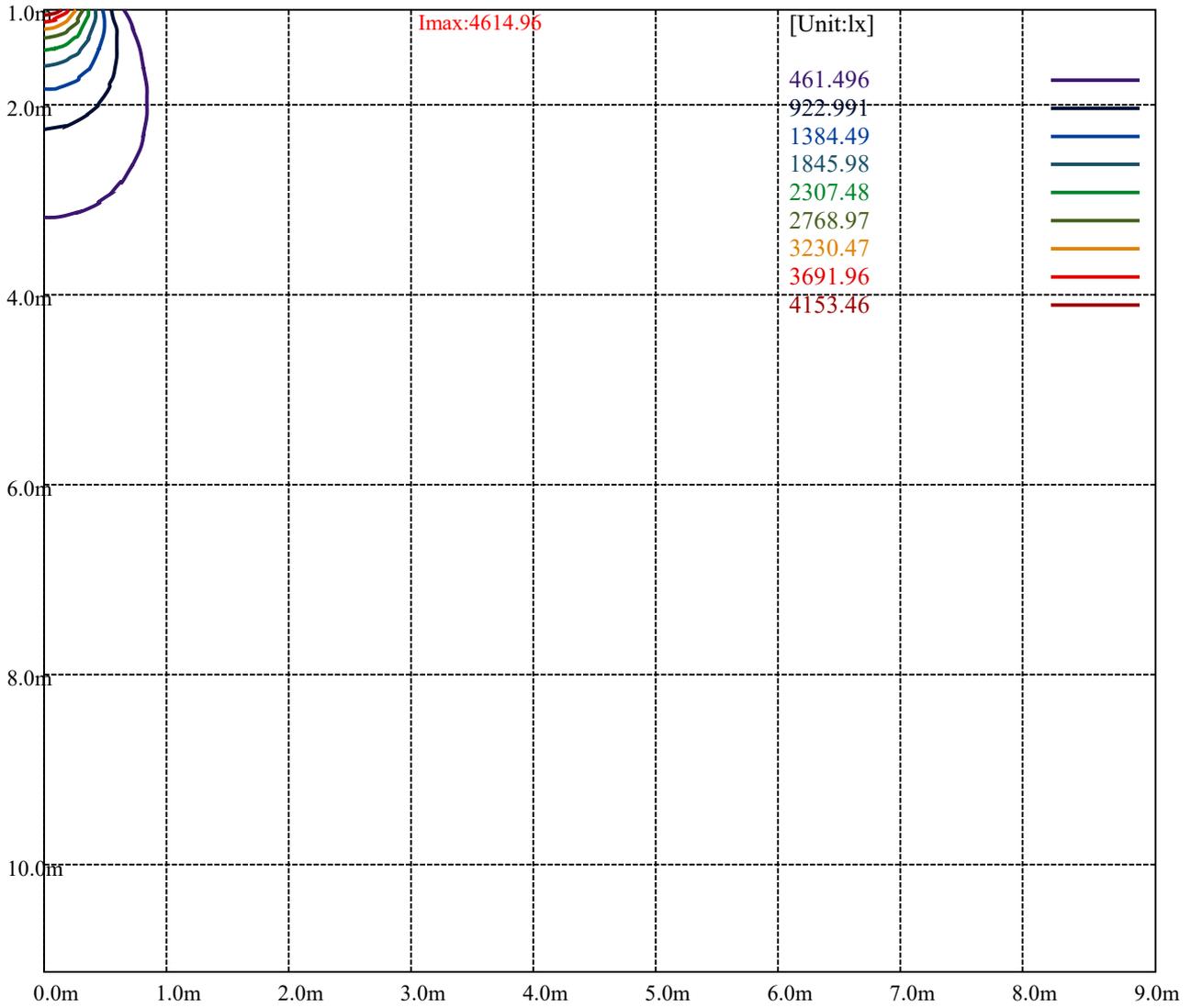
Road

Imax:4614.96

(10%Imax)	461.496	—
(20%Imax)	922.991	—
(30%Imax)	1384.49	—
(40%Imax)	1845.98	—
(50%Imax)	2307.48	—
(60%Imax)	2768.97	—
(70%Imax)	3230.47	—
(80%Imax)	3691.96	—
(90%Imax)	4153.46	—



- (10%Emax) 115.374
- (20%Emax) 230.7478
- (30%Emax) 346.1225
- (40%Emax) 461.495
- (50%Emax) 576.87
- (60%Emax) 692.2425
- (70%Emax) 807.6175
- (80%Emax) 922.99
- (90%Emax) 1038.365



Luminance Table

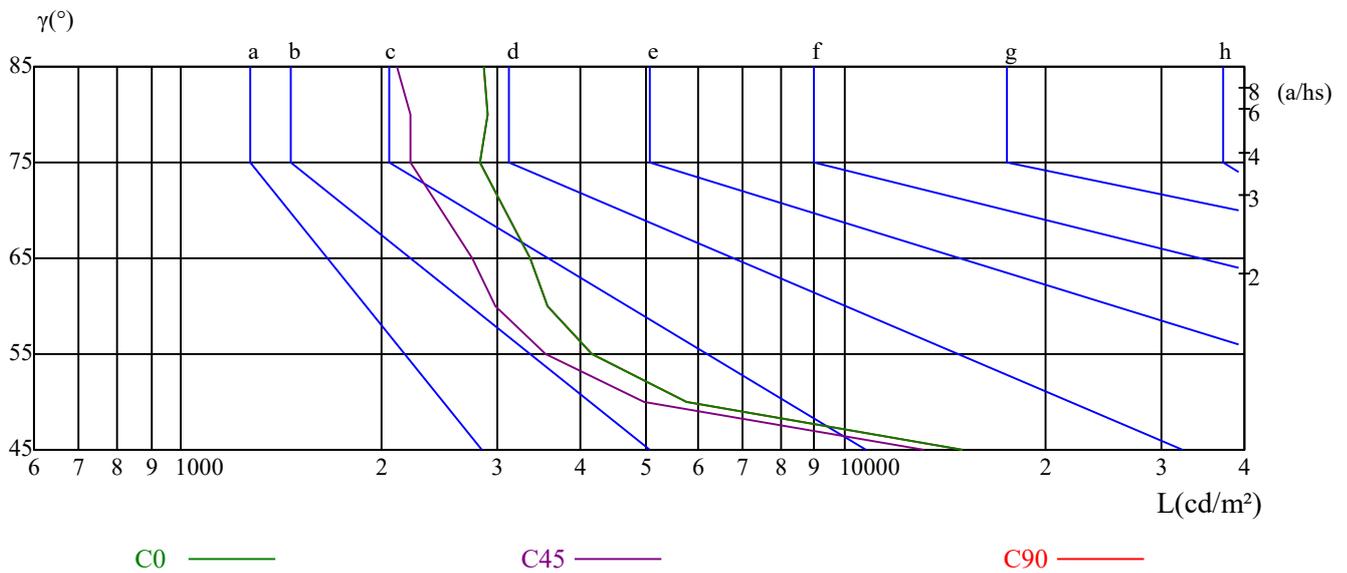
γ	45	50	55	60	65	70	75	80	85
C0	15056	5762	4165	3569	3347	3075	2821	2904	2857
C45	13181	4972	3538	2982	2746	2471	2215	2217	2109
C90	15056	5762	4165	3569	3347	3075	2821	2904	2857

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7102	7102	7102	8328	8328	8328	19937	19937	19937

Glare Table

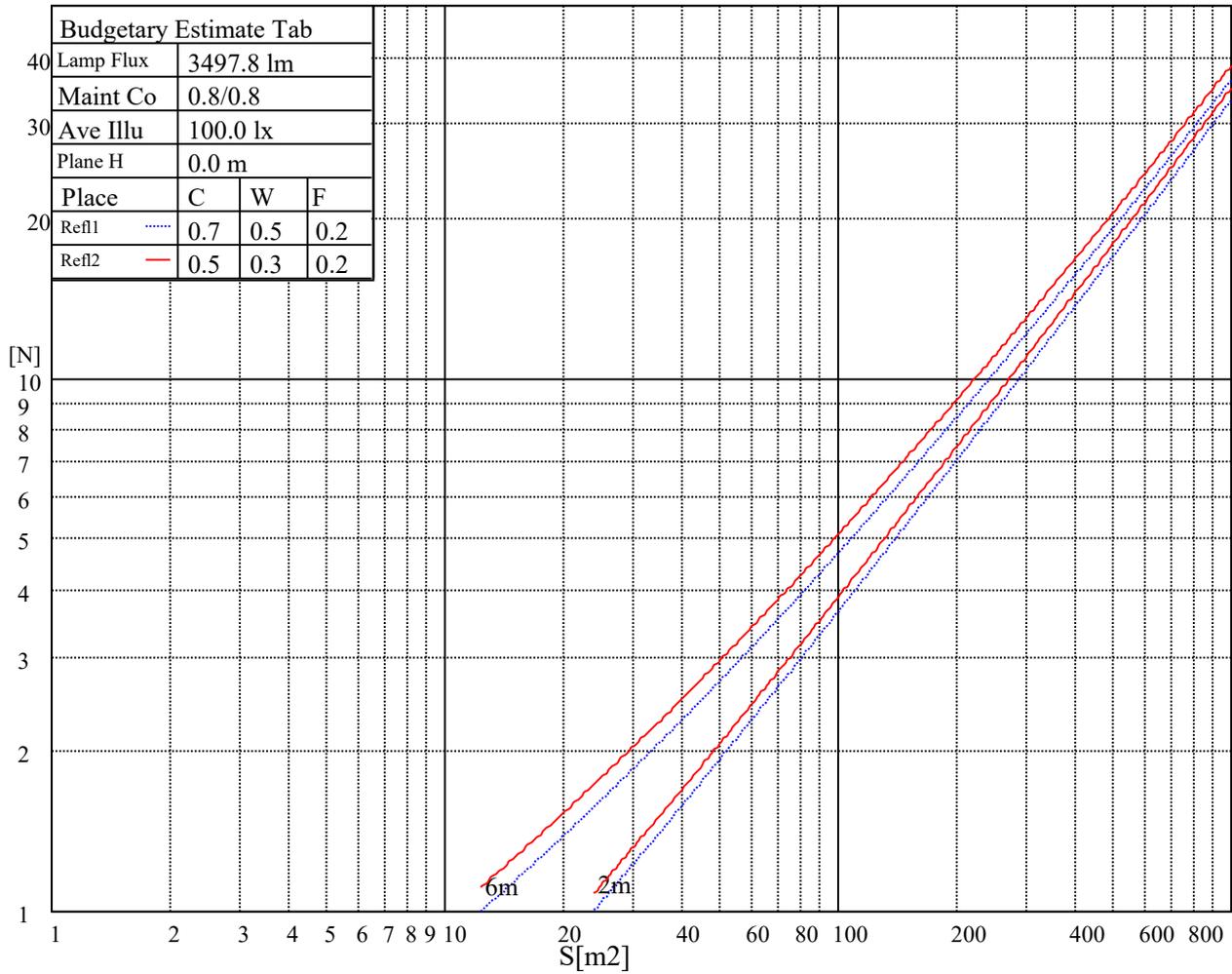
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

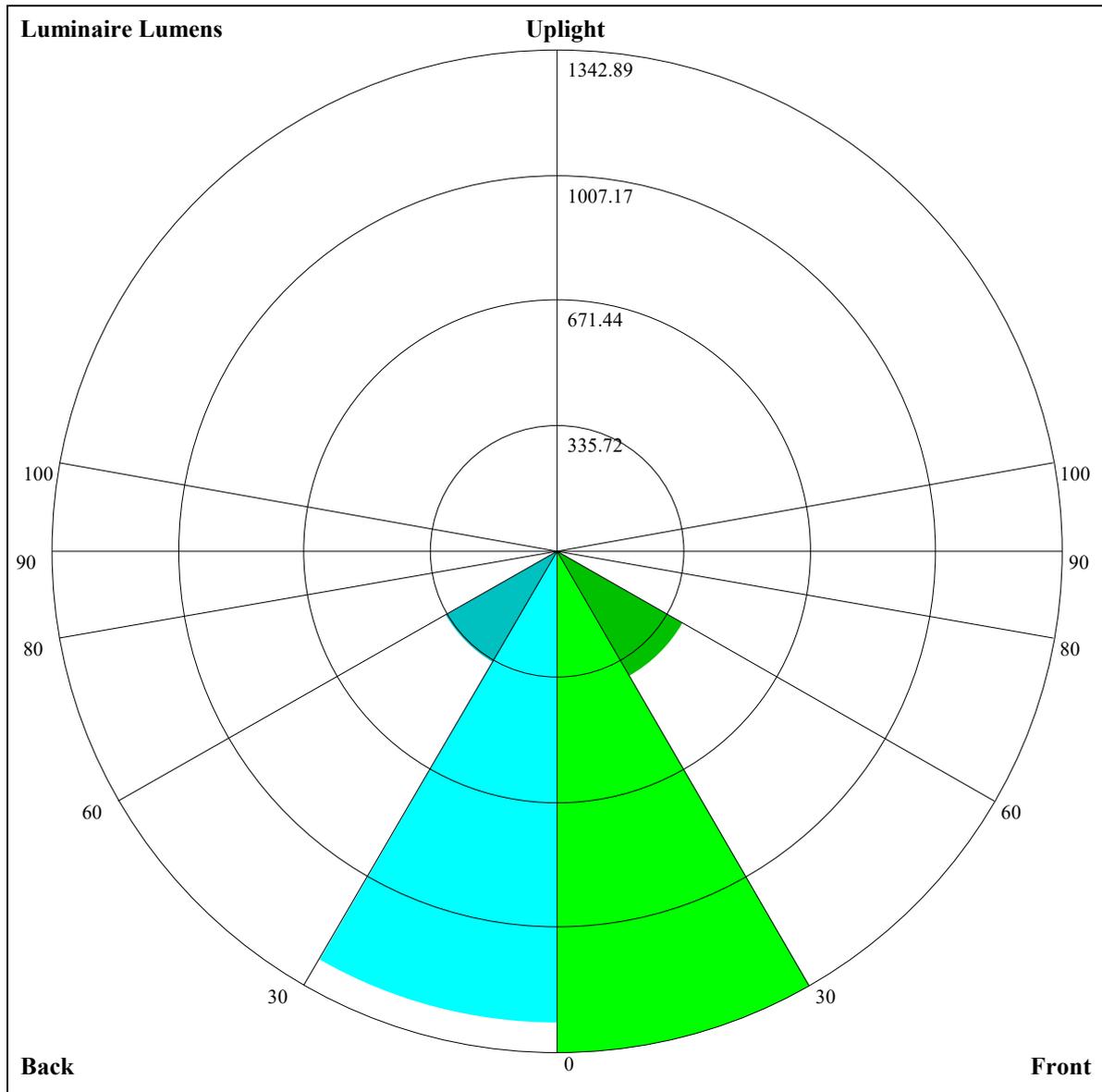


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	21.74	22.68	22.11	22.99	23.31	21.48	22.42	21.84	22.73	23.04
	3H	21.55	22.38	21.94	22.72	23.07	21.29	22.12	21.68	22.46	22.80
	4H	21.46	22.22	21.86	22.58	22.95	21.20	21.96	21.60	22.32	22.69
	6H	21.38	22.08	21.80	22.46	22.86	21.12	21.82	21.54	22.20	22.60
	8H	21.32	21.99	21.74	22.37	22.78	21.06	21.73	21.48	22.11	22.52
	12H	21.26	21.89	21.69	22.29	22.71	21.00	21.63	21.43	22.03	22.45
4H	2H	21.43	22.19	21.83	22.55	22.92	21.16	21.93	21.56	22.29	22.65
	3H	21.20	21.85	21.63	22.24	22.66	20.94	21.59	21.37	21.98	22.40
	4H	21.14	21.70	21.58	22.12	22.57	20.89	21.44	21.32	21.86	22.31
	6H	21.03	21.52	21.51	21.98	22.43	20.77	21.26	21.25	21.72	22.17
	8H	20.99	21.45	21.48	21.91	22.38	20.74	21.19	21.22	21.65	22.12
	12H	20.97	21.38	21.46	21.84	22.36	20.71	21.13	21.20	21.58	22.10
8H	4H	20.95	21.40	21.43	21.86	22.33	20.69	21.14	21.18	21.60	22.08
	6H	20.84	21.21	21.34	21.69	22.20	20.58	20.95	21.09	21.43	21.94
	8H	20.85	21.16	21.39	21.69	22.18	20.60	20.91	21.13	21.43	21.93
	12H	20.84	21.08	21.39	21.59	22.12	20.59	20.83	21.14	21.34	21.87
12H	4H	20.90	21.31	21.39	21.77	22.29	20.64	21.05	21.13	21.51	22.03
	6H	20.82	21.13	21.36	21.66	22.15	20.57	20.88	21.10	21.40	21.90
	8H	20.81	21.04	21.35	21.56	22.09	20.56	20.79	21.10	21.31	21.83
Variation with the observer position at spacings:											
S = 1.0H	5.5/-11.7					5.5/-11.7					
S = 1.5H	8.2/-10.4					8.2/-10.4					
S = 2.0H	10.2/-9.5					10.2/-9.5					
Standard tables:	BK0					BK0					
Uncorrected UGR	1.5					1.5					

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



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	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.03	1.03	1.03	0.98	0.98	0.98	0.97
1	1.07	1.05	1.03	1.05	1.03	1.01	1.01	0.99	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91
2	1.00	0.96	0.93	0.98	0.95	0.92	0.95	0.93	0.90	0.92	0.90	0.88	0.90	0.88	0.86	0.85
3	0.94	0.89	0.86	0.92	0.88	0.85	0.90	0.86	0.84	0.88	0.85	0.82	0.86	0.83	0.81	0.80
4	0.88	0.83	0.79	0.87	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.75
5	0.83	0.78	0.74	0.82	0.77	0.73	0.80	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.71	0.70
6	0.78	0.73	0.69	0.77	0.72	0.69	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.66
7	0.74	0.68	0.65	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.62
8	0.70	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.60	0.67	0.63	0.60	0.67	0.63	0.60	0.59
9	0.66	0.61	0.57	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.55
10	0.63	0.58	0.54	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.57	0.54	0.53



Luminaire Lumens:

FL=1342.89,FM=385.03,FH=11.15,FVH=3.94

BL=1265.8,BM=344.82,BH=11.3,BVH=4.06

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	4625.51	4640.15	4654.79	4672.87	4684.07	4687.51	4668.56	4665.98	4651.34
45.0	4585.03	4614.31	4634.98	4655.65	4674.59	4681.48	4685.79	4675.45	4651.34
90.0	4621.20	4631.53	4629.81	4626.37	4599.67	4597.95	4562.64	4538.53	4502.36
135.0	4628.09	4620.34	4605.70	4580.72	4564.36	4540.25	4504.94	4464.46	4418.82
180.0	4625.51	4603.11	4566.08	4544.55	4481.69	4428.29	4387.82	4320.65	4247.45
225.0	4585.03	4551.44	4498.05	4454.13	4393.85	4334.43	4252.61	4182.86	4082.96
270.0	4621.20	4590.20	4583.31	4560.92	4511.83	4462.74	4423.99	4369.73	4299.98
315.0	4628.09	4631.53	4635.84	4623.78	4615.17	4584.17	4572.97	4536.80	4486.85
360.0	4625.51	4640.15	4654.79	4672.87	4684.07	4687.51	4668.56	4665.98	4651.34
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4616.03	4577.28	4508.38	4448.10	4366.29	4275.86	4176.83	4067.46	3904.69
45.0	4636.70	4590.20	4566.94	4515.27	4436.91	4378.35	4287.92	4169.08	4066.60
90.0	4457.57	4378.35	4317.20	4249.17	4149.27	4063.15	3961.53	3822.88	3705.76
135.0	4372.32	4315.48	4235.39	4154.44	4045.07	3958.95	3856.47	3729.87	3628.25
180.0	4169.94	4103.63	4000.29	3897.80	3809.96	3674.76	3579.17	3477.55	3343.20
225.0	3995.12	3916.75	3797.05	3709.21	3609.31	3485.30	3389.71	3296.70	3181.30
270.0	4224.19	4147.55	4065.74	3953.78	3865.94	3773.79	3644.62	3543.86	3438.79
315.0	4439.49	4363.71	4292.23	4219.89	4122.57	4025.26	3898.67	3777.24	3654.09
360.0	4616.03	4577.28	4508.38	4448.10	4366.29	4275.86	4176.83	4067.46	3904.69
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3778.10	3638.59	3461.18	3299.28	3141.69	2925.53	2752.43	2586.22	2379.54
45.0	3944.31	3834.08	3670.45	3547.30	3404.35	3215.75	3069.35	2854.05	2682.67
90.0	3589.50	3433.63	3305.31	3166.66	3028.87	2843.72	2689.56	2538.00	2347.67
135.0	3526.63	3413.82	3260.53	3145.99	3030.59	2910.89	2748.99	2612.92	2482.02
180.0	3239.00	3128.77	3017.67	2884.19	2769.65	2643.06	2530.24	2364.04	2240.03
225.0	3057.29	2944.47	2849.74	2740.37	2609.47	2501.83	2385.57	2226.25	2104.82
270.0	3290.67	3176.99	3030.59	2914.33	2791.18	2673.20	2519.05	2382.12	2249.50
315.0	3482.71	3344.92	3208.00	3023.70	2878.16	2688.70	2537.13	2383.84	2234.00
360.0	3778.10	3638.59	3461.18	3299.28	3141.69	2925.53	2752.43	2586.22	2379.54
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	2206.44	2051.43	1702.30	1702.30	1615.75	1495.62	1371.69	1209.79	1070.37
45.0	2521.63	2306.34	2145.30	1988.56	1847.33	1675.95	1552.80	1425.35	1290.14
90.0	2188.35	2027.31	1715.22	1715.22	1589.66	1460.22	1287.99	1151.23	982.70
135.0	2300.31	2159.94	1985.12	1858.52	1730.20	1558.83	1417.59	1269.47	1123.07
180.0	2082.43	1954.97	1835.27	1659.59	1504.57	1356.45	1211.77	1021.45	875.05
225.0	1886.94	1696.88	1667.17	1514.13	1314.77	1159.50	1007.50	867.64	706.00
270.0	2112.57	1942.06	1809.43	1671.64	1530.41	1346.98	1203.16	1028.34	889.69
315.0	2054.01	1702.39	1702.39	1638.32	1472.80	1325.19	1182.84	1046.60	884.35
360.0	2206.44	2051.43	1702.30	1702.30	1615.75	1495.62	1371.69	1209.79	1070.37
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	948.94	807.96	701.09	596.89	480.11	394.77	289.01	210.65	143.65
45.0	1159.24	996.48	873.33	726.06	614.97	509.91	437.57	375.57	215.64
90.0	855.84	738.64	627.11	493.63	403.21	318.12	238.03	155.62	103.69
135.0	945.67	812.18	687.31	571.91	466.85	441.87	330.26	184.72	110.66
180.0	758.79	640.81	503.02	454.79	454.79	237.00	153.72	101.36	60.63
225.0	589.74	482.78	383.14	271.70	193.51	134.34	82.07	58.04	47.37
270.0	761.37	612.39	506.46	456.51	456.51	222.70	153.29	104.63	72.25
315.0	769.73	660.96	534.80	443.42	333.19	252.24	178.27	115.23	61.92
360.0	948.94	807.96	701.09	596.89	480.11	394.77	289.01	210.65	143.65

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	88.87	55.98	42.80	36.51	29.80	24.11	19.72	17.83	16.02
45.0	135.81	85.60	55.72	43.32	36.26	30.49	25.75	22.74	21.01
90.0	69.50	53.05	45.30	38.93	32.12	28.33	25.49	22.56	21.01
135.0	70.44	48.74	43.15	36.86	30.23	25.92	23.17	21.70	20.32
180.0	48.57	43.58	37.29	32.21	29.02	27.04	25.75	24.46	23.17
225.0	41.68	35.83	30.92	27.13	25.58	24.11	22.56	21.01	19.98
270.0	50.64	44.01	38.32	31.78	27.90	24.89	21.44	19.46	18.17
315.0	42.54	36.94	31.00	24.46	20.41	18.34	17.05	16.28	15.59
360.0	88.87	55.98	42.80	36.51	29.80	24.11	19.72	17.83	16.02
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	15.16	14.81	14.38	14.04	13.78	13.61	13.52	13.35	13.35
45.0	20.41	19.72	18.77	17.83	17.05	16.02	15.33	14.81	14.47
90.0	19.89	18.95	18.08	17.40	16.79	16.10	15.33	14.90	14.55
135.0	19.29	18.26	17.14	15.93	15.07	14.38	13.87	13.43	13.09
180.0	21.79	20.75	19.81	19.03	18.00	17.31	16.71	16.02	15.59
225.0	18.95	18.08	17.14	16.45	15.67	15.16	14.55	13.87	13.43
270.0	16.88	16.19	15.50	14.81	14.47	14.12	13.87	13.61	13.18
315.0	14.73	14.30	13.61	13.18	12.66	12.23	11.80	11.63	11.54
360.0	15.16	14.81	14.38	14.04	13.78	13.61	13.52	13.35	13.35
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.43	13.43	13.43	13.43	13.00	12.57	12.14	11.63	11.20
45.0	14.12	13.78	13.26	12.75	12.31	11.88	11.63	11.20	10.85
90.0	14.21	14.04	13.78	13.26	12.75	12.06	11.63	11.20	10.76
135.0	12.66	12.31	11.80	11.28	11.11	10.85	10.59	10.33	9.99
180.0	14.90	14.38	13.87	13.43	12.92	12.57	12.14	11.54	11.02
225.0	13.09	12.66	12.31	11.97	11.63	11.11	10.59	10.16	9.82
270.0	12.75	12.40	12.14	11.80	11.63	11.37	11.20	10.76	10.42
315.0	11.45	11.11	10.85	10.59	10.42	10.16	9.99	9.82	9.65
360.0	13.43	13.43	13.43	13.43	13.00	12.57	12.14	11.63	11.20
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.59	10.16	9.73	9.39	9.13	8.87	8.78	8.53	8.27
45.0	10.33	9.82	9.39	8.96	8.78	8.61	8.53	8.27	8.18
90.0	10.42	9.99	9.39	8.96	8.70	8.53	8.44	8.18	8.10
135.0	9.73	9.39	9.04	8.87	8.70	8.53	8.35	8.18	8.10
180.0	10.68	10.25	9.90	9.73	9.56	9.39	9.21	9.21	9.04
225.0	9.47	9.30	9.21	9.13	9.04	8.96	8.96	8.78	8.70
270.0	10.08	9.73	9.39	9.21	9.13	9.04	8.96	8.96	8.96
315.0	9.39	8.96	8.70	8.61	8.44	8.44	8.44	8.35	8.27
360.0	10.59	10.16	9.73	9.39	9.13	8.87	8.78	8.53	8.27
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.10	7.92	7.75	7.58	7.15	6.98	6.80	6.63	6.46
45.0	7.92	7.75	7.58	7.41	7.15	6.98	6.80	6.54	6.37
90.0	8.01	7.92	7.84	7.58	7.23	7.06	6.72	6.37	6.11
135.0	8.01	7.92	7.75	7.66	7.49	6.98	6.72	6.54	6.37
180.0	8.96	8.78	8.70	8.70	8.53	7.49	7.41	7.15	6.54
225.0	8.18	8.01	8.10	7.92	6.89	6.80	6.63	6.29	6.20
270.0	8.87	8.87	8.70	8.53	7.49	6.80	6.54	6.29	6.11
315.0	8.10	7.92	7.75	7.23	6.80	6.54	6.29	6.11	6.03
360.0	8.10	7.92	7.75	7.58	7.15	6.98	6.80	6.63	6.46

Intensity data(cd)

C/ γ (°)	90.0
0.0	6.29
45.0	6.20
90.0	6.11
135.0	6.03
180.0	6.29
225.0	6.11
270.0	6.11
315.0	6.03
360.0	6.29