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Nata

Client: NT

LumCAT: 1-1809-LM

Luminaire: 92.70.458.00 LED HOLDER

Report No: 20251218-B005

Ballast type: DC

Test No: 20251218-C005

Voltage(V): 33.930

LampCAT: PHILIPS SLM 1202 L06 1313

Current(A): 0.144

Lamp flux(lm): 854.6

Power (W): 4.885

Number of Lamps: 1

PF: 0.000

Length(mm): 35

Width(mm): 35

Phm Type: C

Height(mm): 15

Photometric Results

Lumens(lm): 814.05, Efficiency(%): 95.26% , Luminous Efficacy(lm/W): 166.64

Central intensity(cd): 960.134, Maximum intensity(cd): 960.134

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=54.4

[C90/270]Total=54.4

Field angle(10%Imax): [C0/180]Total=87.6

[C90/270]Total=87.6

Maximum s/h(1/2): C0_180=0.78 C90_270=0.78

Maximum s/h(1/4): C0_180=0.88 C90_270=0.88

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 95.26%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.800%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	960.134	0.000	0	0.00%	0.00%
1.0	958.379	0.918	0.918	0.11%	0.11%
2.0	954.343	2.745	3.663	0.32%	0.45%
3.0	946.689	4.547	8.21	0.53%	1.01%
4.0	937.808	6.308	14.518	0.74%	1.78%
5.0	926.914	8.022	22.54	0.94%	2.77%
6.0	912.737	9.668	32.208	1.13%	3.96%
7.0	897.138	11.234	43.442	1.31%	5.34%
8.0	880.787	12.724	56.166	1.49%	6.90%
9.0	861.776	14.123	70.288	1.65%	8.63%
10.0	842.281	15.421	85.709	1.80%	10.53%
11.0	820.138	16.611	102.32	1.94%	12.57%
12.0	798.554	17.695	120.015	2.07%	14.74%
13.0	776.992	18.698	138.713	2.19%	17.04%
14.0	752.750	19.581	158.293	2.29%	19.45%
15.0	730.790	20.367	178.66	2.38%	21.95%
16.0	707.872	21.080	199.741	2.47%	24.54%
17.0	683.942	21.674	221.415	2.54%	27.20%
18.0	662.111	22.193	243.608	2.60%	29.93%
19.0	640.570	22.664	266.272	2.65%	32.71%
20.0	616.888	23.015	289.287	2.69%	35.54%
21.0	596.919	23.308	312.595	2.73%	38.40%
22.0	577.219	23.595	336.19	2.76%	41.30%
23.0	557.498	23.809	359.999	2.79%	44.22%
24.0	538.628	23.965	383.964	2.80%	47.17%
25.0	519.294	24.055	408.019	2.81%	50.12%
26.0	501.866	24.105	432.124	2.82%	53.08%
27.0	483.372	24.104	456.228	2.82%	56.04%
28.0	463.758	23.979	480.207	2.81%	58.99%
29.0	445.028	23.776	503.983	2.78%	61.91%
30.0	426.351	23.527	527.51	2.75%	64.80%
31.0	407.114	23.194	550.705	2.71%	67.65%
32.0	390.106	22.839	573.544	2.67%	70.46%
33.0	372.118	22.455	595.999	2.63%	73.21%
34.0	353.613	21.963	617.962	2.57%	75.91%
35.0	333.816	21.349	639.311	2.50%	78.53%
36.0	309.800	20.493	659.804	2.40%	81.05%
37.0	286.839	19.459	679.263	2.28%	83.44%

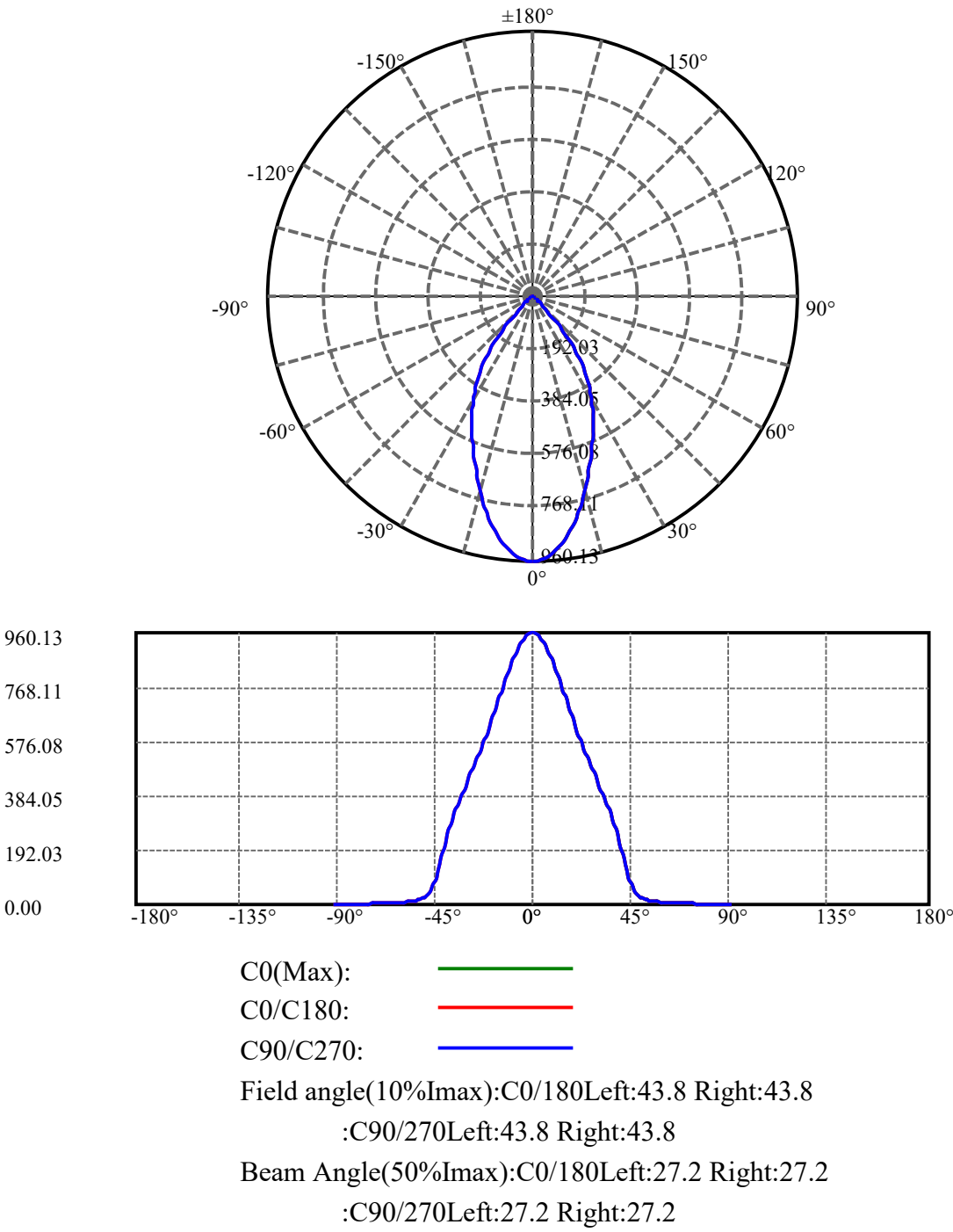
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	260.584	18.272	697.535	2.14%	85.69%
39.0	231.368	16.792	714.327	1.96%	87.75%
40.0	200.753	15.071	729.398	1.76%	89.60%
41.0	171.472	13.255	742.652	1.55%	91.23%
42.0	143.290	11.436	754.088	1.34%	92.63%
43.0	118.305	9.690	763.779	1.13%	93.82%
44.0	91.027	7.901	771.679	0.92%	94.80%
45.0	70.434	6.205	777.885	0.73%	95.56%
46.0	53.716	4.855	782.74	0.57%	96.15%
47.0	39.022	3.688	786.428	0.43%	96.61%
48.0	30.680	2.818	789.246	0.33%	96.95%
49.0	24.490	2.266	791.512	0.27%	97.23%
50.0	21.024	1.898	793.409	0.22%	97.46%
51.0	18.569	1.675	795.084	0.20%	97.67%
52.0	16.406	1.501	796.585	0.18%	97.85%
53.0	14.446	1.342	797.927	0.16%	98.02%
54.0	12.821	1.202	799.129	0.14%	98.17%
55.0	11.454	1.084	800.213	0.13%	98.30%
56.0	10.184	0.978	801.19	0.11%	98.42%
57.0	9.107	0.882	802.072	0.10%	98.53%
58.0	8.181	0.799	802.872	0.09%	98.63%
59.0	7.471	0.732	803.603	0.09%	98.72%
60.0	6.857	0.677	804.28	0.08%	98.80%
61.0	6.276	0.627	804.907	0.07%	98.88%
62.0	5.781	0.581	805.488	0.07%	98.95%
63.0	5.339	0.541	806.029	0.06%	99.01%
64.0	5.006	0.508	806.537	0.06%	99.08%
65.0	4.693	0.480	807.017	0.06%	99.14%
66.0	4.349	0.451	807.468	0.05%	99.19%
67.0	4.101	0.425	807.893	0.05%	99.24%
68.0	3.886	0.405	808.297	0.05%	99.29%
69.0	3.682	0.386	808.683	0.05%	99.34%
70.0	3.499	0.369	809.052	0.04%	99.39%
71.0	3.369	0.355	809.407	0.04%	99.43%
72.0	3.219	0.343	809.75	0.04%	99.47%
73.0	3.057	0.328	810.078	0.04%	99.51%
74.0	2.950	0.316	810.394	0.04%	99.55%
75.0	2.820	0.305	810.698	0.04%	99.59%

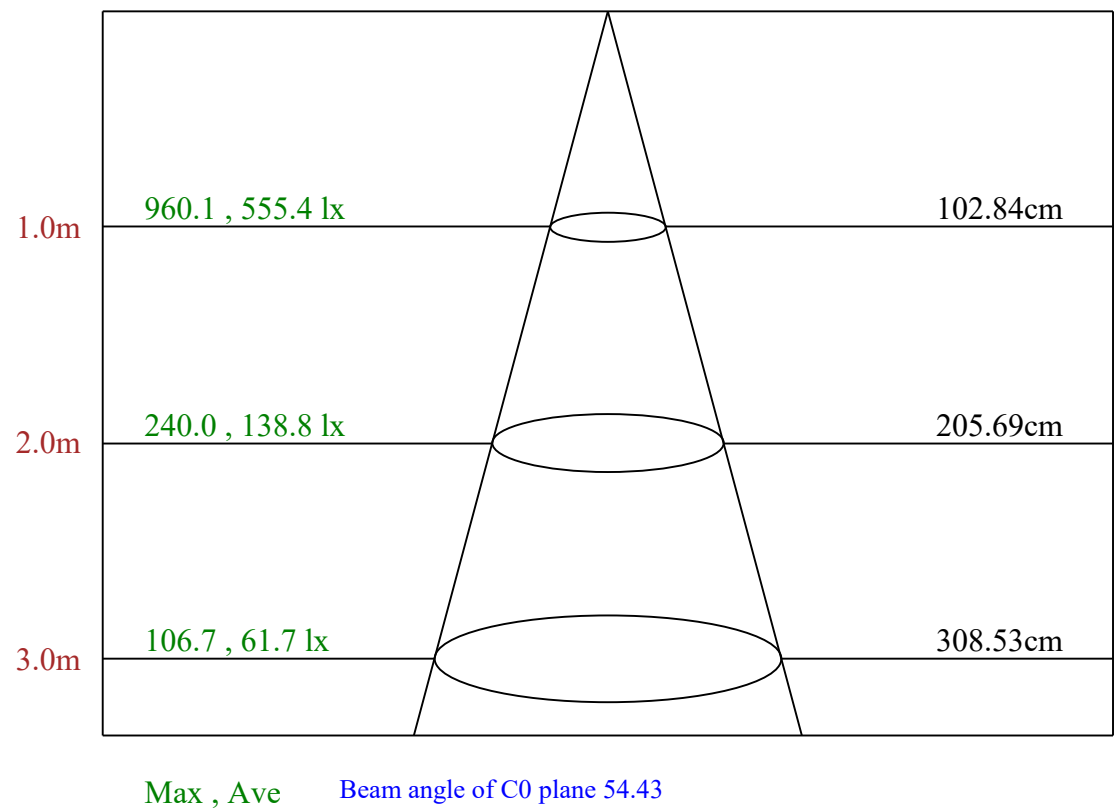
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.702	0.293	810.992	0.03%	99.62%
77.0	2.584	0.282	811.273	0.03%	99.66%
78.0	2.487	0.271	811.545	0.03%	99.69%
79.0	2.411	0.263	811.808	0.03%	99.72%
80.0	2.336	0.256	812.064	0.03%	99.76%
81.0	2.218	0.246	812.31	0.03%	99.79%
82.0	2.099	0.234	812.544	0.03%	99.82%
83.0	2.013	0.224	812.768	0.03%	99.84%
84.0	1.895	0.213	812.981	0.02%	99.87%
85.0	1.787	0.201	813.182	0.02%	99.89%
86.0	1.690	0.190	813.372	0.02%	99.92%
87.0	1.604	0.180	813.552	0.02%	99.94%
88.0	1.529	0.172	813.723	0.02%	99.96%
89.0	1.496	0.166	813.889	0.02%	99.98%
90.0	1.432	0.161	814.05	0.02%	100.00%

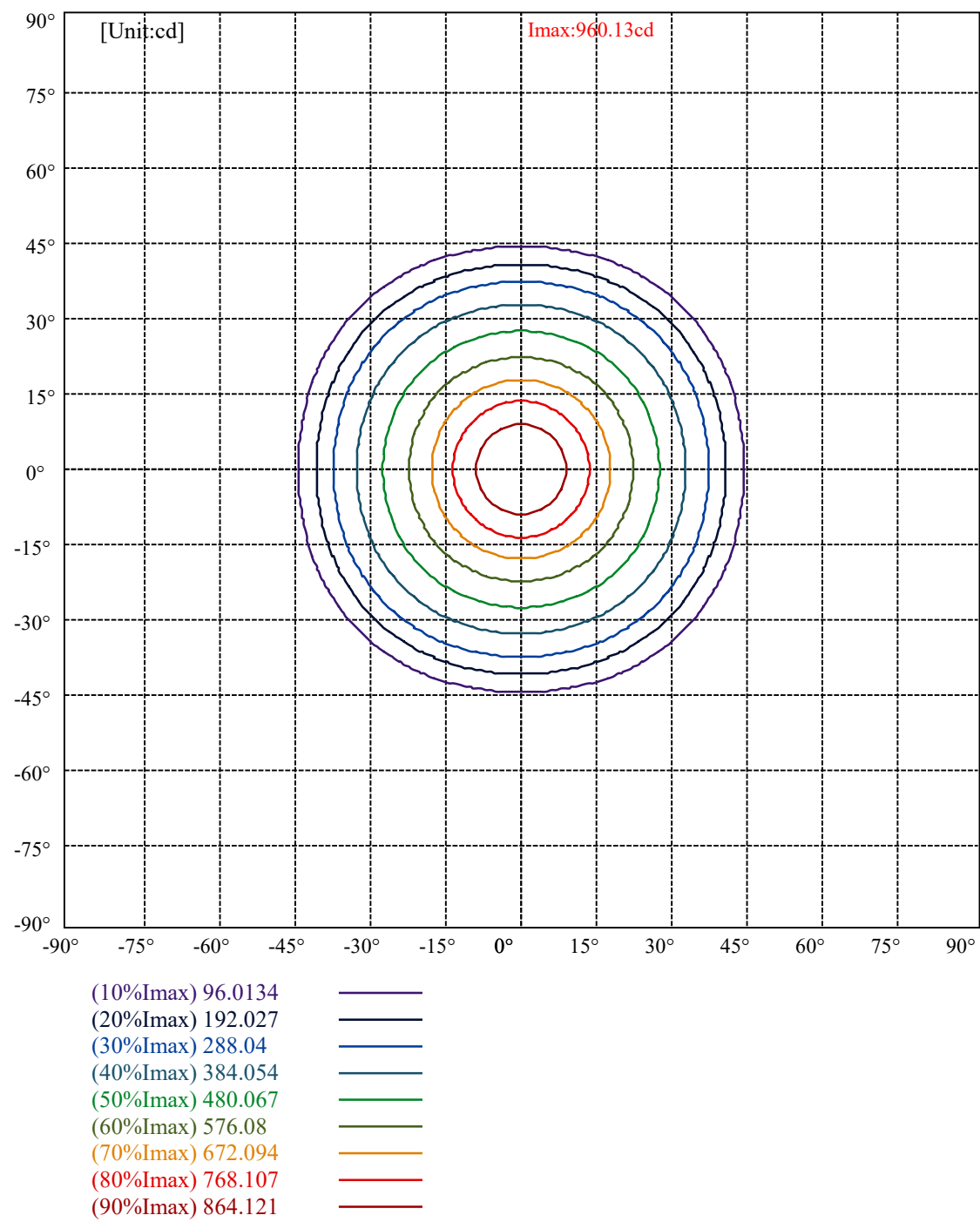
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	527.51	61.73%	64.80%
0-40	729.40	85.35%	89.60%
0-60	804.28	94.11%	98.80%
0-90	813.89	95.24%	99.98%
0-120	813.89	95.24%	99.98%
0-180	814.05	95.26%	100.00%
60-90	9.61	1.12%	1.18%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-35.58	651.24	76.20%	80.00%

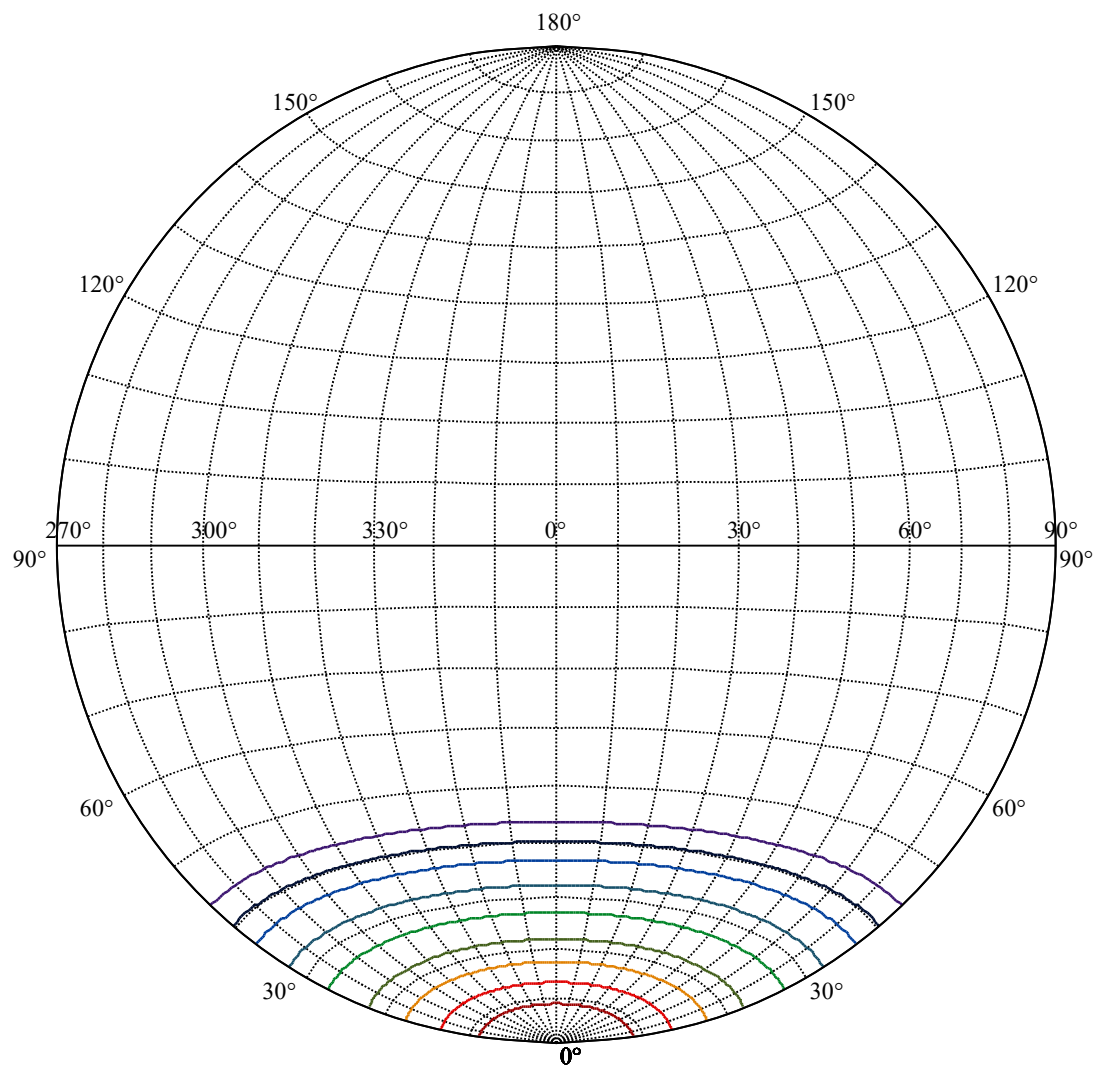
ZONAL LUMEN SUMMARY

0-10	85.71
10-20	203.58
20-30	238.22
30-40	201.89
40-50	64.01
50-60	10.87
60-70	4.77
70-80	3.01
80-90	1.83
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







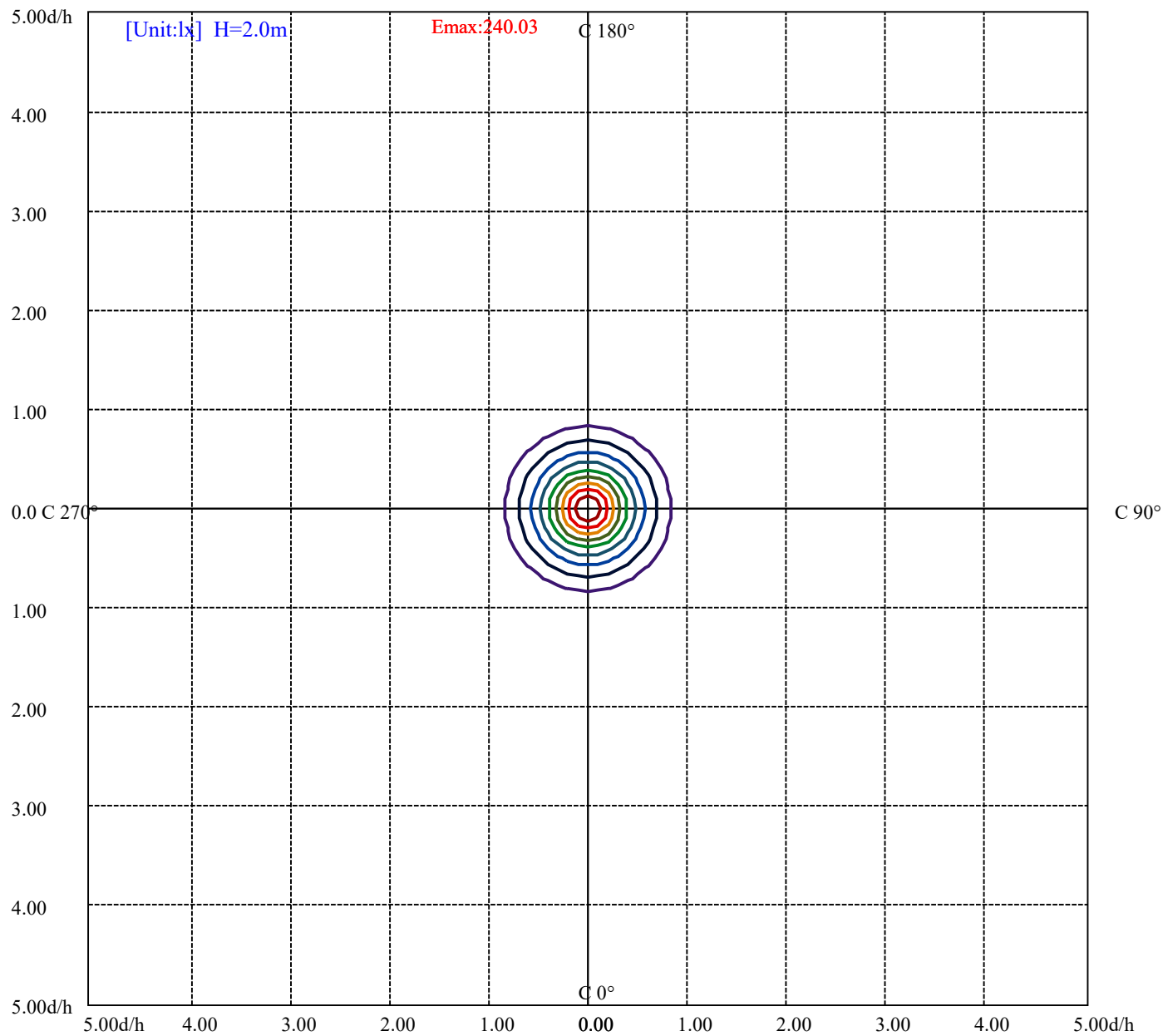


House

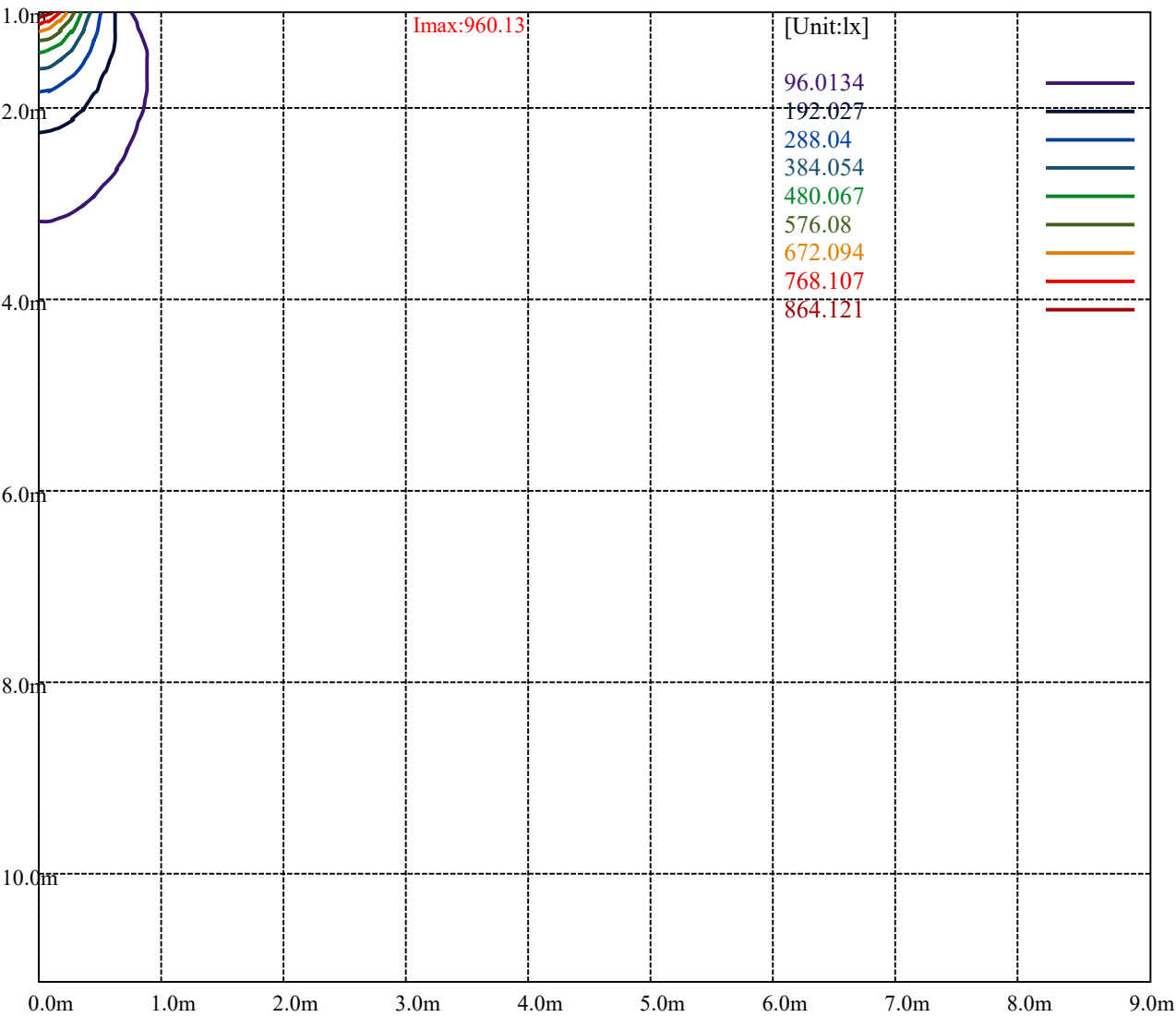
[Unit:cd]

Road

Imax:960.13	
(10%Imax) 96.0134	
(20%Imax) 192.027	
(30%Imax) 288.04	
(40%Imax) 384.054	
(50%Imax) 480.067	
(60%Imax) 576.08	
(70%Imax) 672.094	
(80%Imax) 768.107	
(90%Imax) 864.121	



(10%Emax) 24.00335	—
(20%Emax) 48.00675	—
(30%Emax) 72.01	—
(40%Emax) 96.0135	—
(50%Emax) 120.0167	—
(60%Emax) 144.02	—
(70%Emax) 168.0235	—
(80%Emax) 192.0267	—
(90%Emax) 216.03	—



Luminance Table

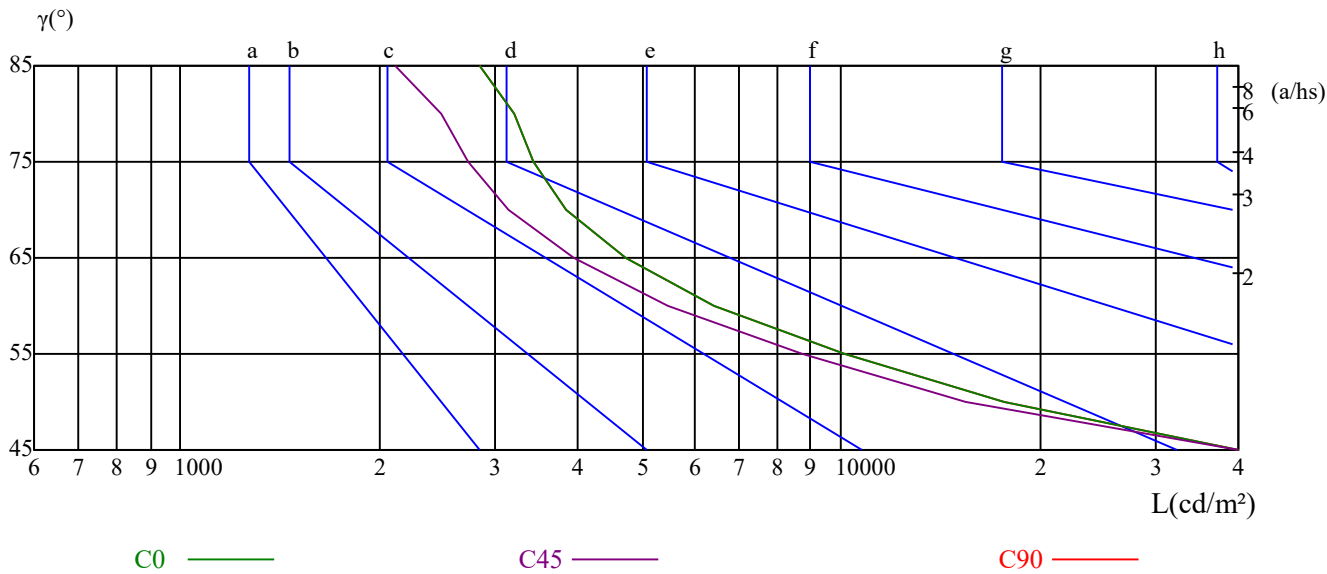
γ	45	50	55	60	65	70	75	80	85
C0	56919	17673	10112	6426	4724	3835	3422	3201	2837
C45	50628	15502	8738	5462	3942	3133	2727	2475	2111
C90	56919	17673	10112	6426	4724	3835	3422	3201	2837

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9066	9066	9066	8896	8896	8896	16737	16737	16737

Glare Table

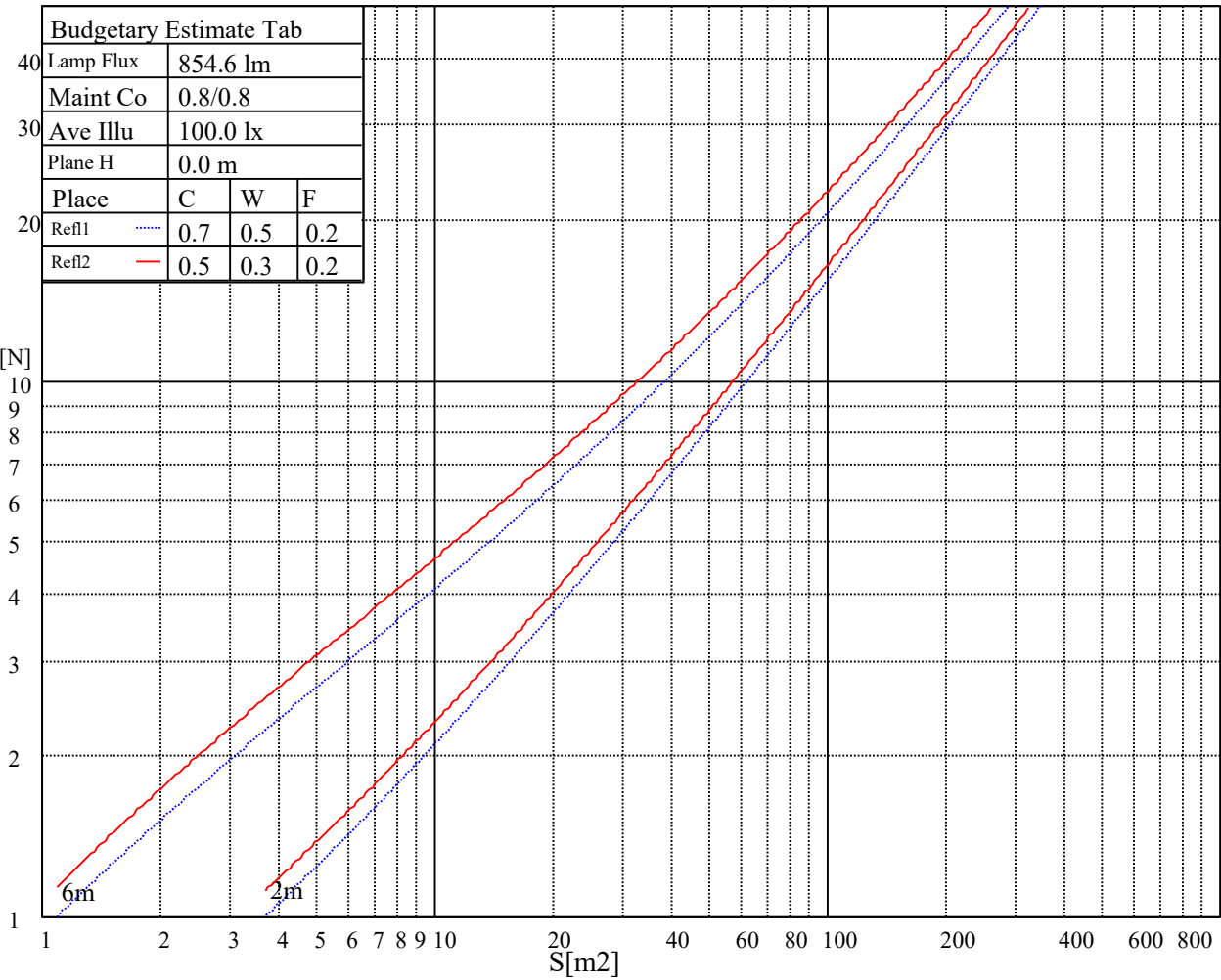
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

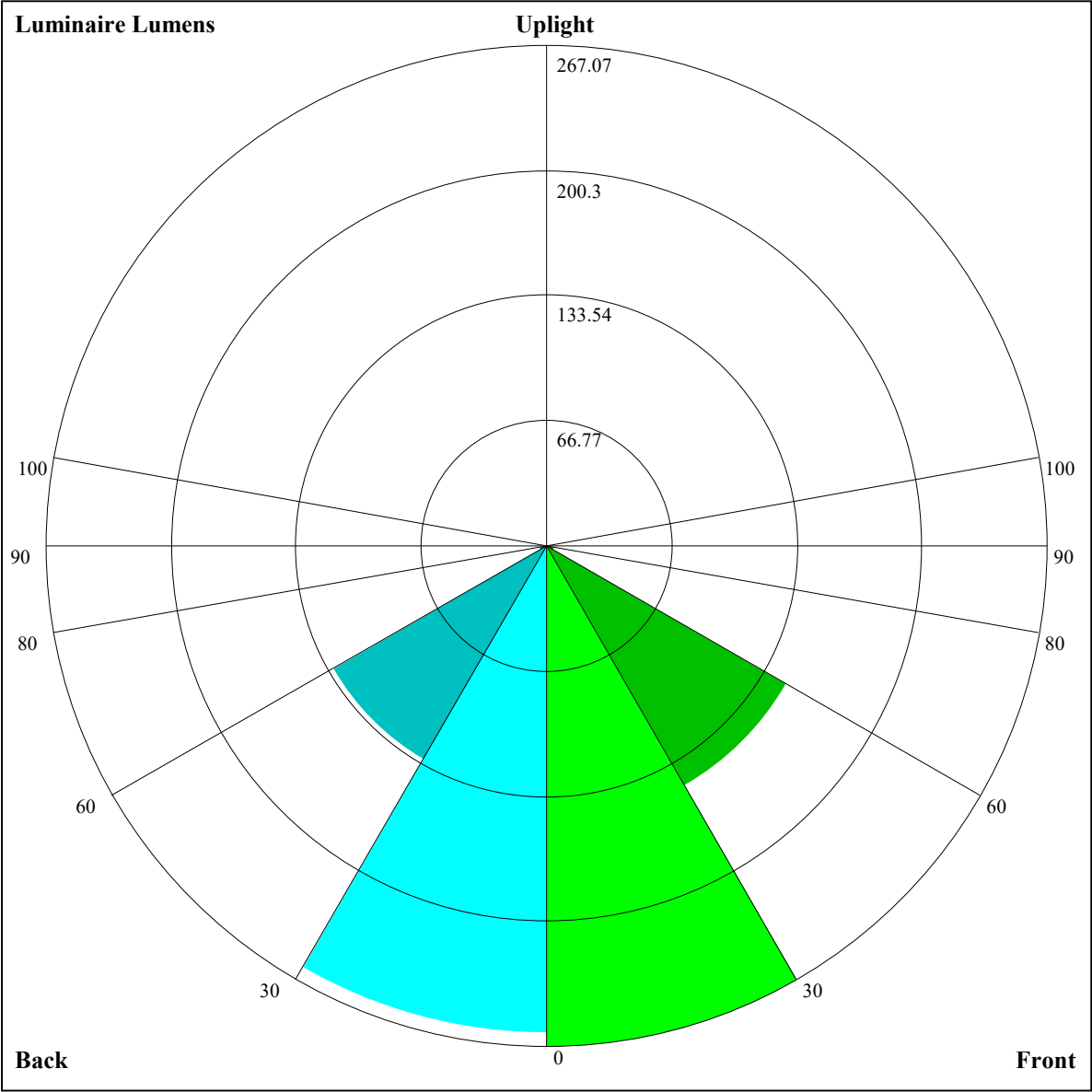


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	24.15	25.17	24.51	25.48	25.80	24.21	25.23	24.57	25.54	25.86
	3H	23.97	24.88	24.36	25.22	25.56	24.04	24.94	24.42	25.28	25.63
	4H	23.88	24.72	24.28	25.07	25.44	23.95	24.79	24.35	25.14	25.51
	6H	23.81	24.58	24.23	24.95	25.35	23.88	24.65	24.30	25.02	25.42
	8H	23.74	24.47	24.16	24.86	25.27	23.81	24.54	24.23	24.93	25.34
	12H	23.68	24.37	24.11	24.77	25.19	23.75	24.44	24.18	24.84	25.25
4H	2H	23.87	24.71	24.27	25.06	25.43	23.93	24.77	24.33	25.12	25.49
	3H	23.67	24.36	24.09	24.76	25.17	23.73	24.43	24.16	24.82	25.24
	4H	23.61	24.21	24.05	24.64	25.08	23.68	24.28	24.12	24.70	25.15
	6H	23.49	24.03	23.97	24.48	24.93	23.56	24.09	24.04	24.55	25.00
	8H	23.45	23.94	23.94	24.40	24.87	23.52	24.01	24.00	24.47	24.94
	12H	23.41	23.87	23.90	24.32	24.84	23.48	23.94	23.97	24.39	24.91
8H	4H	23.42	23.91	23.91	24.37	24.85	23.49	23.98	23.97	24.44	24.91
	6H	23.30	23.71	23.81	24.18	24.70	23.37	23.77	23.88	24.25	24.76
	8H	23.31	23.65	23.84	24.17	24.67	23.38	23.72	23.91	24.24	24.74
	12H	23.28	23.55	23.82	24.06	24.58	23.34	23.61	23.89	24.13	24.65
12H	4H	23.37	23.83	23.86	24.28	24.80	23.44	23.89	23.93	24.35	24.86
	6H	23.29	23.63	23.82	24.15	24.65	23.36	23.70	23.89	24.22	24.72
	8H	23.26	23.53	23.80	24.04	24.57	23.33	23.60	23.87	24.11	24.63
Variation with the observer position at spacings:											
S = 1.0H		3.9/-10.3					3.9/-10.3				
S = 1.5H		6.6/-10.8					6.6/-10.8				
S = 2.0H		8.5/-10.5					8.5/-10.5				
Standard tables:		BK0					BK0				
Uncorrected UGR		3.9					3.9				

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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.13	1.13	1.13	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.05	1.03	1.00	1.03	1.01	0.99	0.99	0.97	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.88
2	0.97	0.93	0.90	0.96	0.92	0.89	0.93	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.82
3	0.90	0.86	0.82	0.89	0.85	0.81	0.87	0.83	0.80	0.84	0.81	0.78	0.82	0.79	0.77	0.76
4	0.84	0.79	0.75	0.83	0.78	0.74	0.81	0.77	0.73	0.79	0.75	0.72	0.77	0.74	0.72	0.70
5	0.79	0.73	0.69	0.78	0.72	0.68	0.76	0.71	0.68	0.74	0.70	0.67	0.73	0.69	0.66	0.65
6	0.74	0.68	0.63	0.73	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.62	0.69	0.65	0.62	0.60
7	0.69	0.63	0.59	0.68	0.63	0.59	0.67	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.56
8	0.65	0.59	0.55	0.64	0.59	0.55	0.63	0.58	0.54	0.62	0.58	0.54	0.61	0.57	0.54	0.53
9	0.61	0.55	0.51	0.60	0.55	0.51	0.60	0.54	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.49
10	0.58	0.52	0.48	0.57	0.52	0.48	0.56	0.51	0.48	0.56	0.51	0.48	0.55	0.51	0.48	0.46



Luminaire Lumens:

FL=267.07,FM=147.47,FH=4.21,FVH=1.01

BL=260.01,BM=131.3,BH=3.81,BVH=0.96

UL=0,UH=0

BUG Rating:B1-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	961.43	962.80	961.43	956.52	949.37	936.54	923.53	907.69	891.67
45.0	955.48	960.13	962.03	960.65	956.69	949.97	940.59	927.32	915.09
90.0	959.88	961.60	960.48	956.60	950.66	942.91	931.11	919.92	906.57
135.0	963.75	965.04	964.35	959.10	951.78	942.57	932.49	918.02	905.53
180.0	961.43	955.83	947.13	935.07	924.39	912.77	895.37	877.37	858.60
225.0	955.48	946.10	935.33	920.26	906.74	892.01	871.52	854.29	835.35
270.0	959.88	956.69	951.35	941.70	932.49	920.52	903.64	888.57	867.99
315.0	963.75	958.84	952.64	943.60	930.34	918.02	903.64	883.92	865.49
360.0	961.43	962.80	961.43	956.52	949.37	936.54	923.53	907.69	891.67
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	867.47	848.70	824.50	802.11	781.18	756.55	736.74	717.11	698.59
45.0	900.45	883.92	860.93	841.64	822.60	797.46	777.05	756.64	730.71
90.0	887.88	871.60	853.69	830.44	809.86	784.02	762.75	740.19	717.37
135.0	891.15	873.41	849.13	829.15	808.05	781.96	760.77	734.42	712.63
180.0	834.32	814.25	794.10	774.12	748.97	728.99	709.27	690.24	665.95
225.0	814.85	787.64	766.37	744.67	722.19	695.15	673.36	650.88	623.93
270.0	850.16	830.96	811.15	785.06	762.75	740.19	717.19	687.91	665.01
315.0	847.92	827.77	801.25	781.27	760.34	737.69	709.19	685.59	657.34
360.0	867.47	848.70	824.50	802.11	781.18	756.55	736.74	717.11	698.59
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	676.12	657.26	638.83	618.16	601.54	585.61	569.93	550.81	535.31
45.0	710.13	688.60	661.91	640.29	621.00	601.88	578.97	560.98	543.58
90.0	694.20	665.01	642.01	619.71	598.52	573.38	553.91	530.14	511.97
135.0	690.76	669.48	643.22	622.55	603.60	585.00	562.44	545.13	527.56
180.0	646.40	627.72	605.33	587.50	565.54	547.71	529.11	506.55	487.26
225.0	603.60	584.40	561.32	543.15	525.84	504.40	487.34	471.33	453.67
270.0	641.50	619.11	594.22	573.63	549.52	531.52	514.30	493.11	475.89
315.0	634.18	612.99	588.27	570.36	552.19	530.49	513.01	496.30	479.68
360.0	676.12	657.26	638.83	618.16	601.54	585.61	569.93	550.81	535.31
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	520.76	500.52	482.87	460.99	441.53	421.38	401.74	377.80	359.72
45.0	526.44	505.08	487.60	470.64	449.62	433.09	412.68	396.92	381.76
90.0	494.66	473.05	456.08	438.77	418.36	401.66	386.41	370.57	352.05
135.0	510.17	488.03	470.64	447.39	429.47	408.37	392.01	376.34	360.23
180.0	466.07	446.61	420.95	400.36	380.64	363.42	343.70	325.44	303.05
225.0	432.06	415.69	399.50	384.43	366.35	351.62	330.44	309.42	285.14
270.0	458.84	441.18	419.83	402.69	385.98	371.34	353.69	337.33	315.62
315.0	457.98	439.89	422.76	405.53	384.95	369.96	356.27	335.09	312.95
360.0	520.76	500.52	482.87	460.99	441.53	421.38	401.74	377.80	359.72
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	341.37	320.53	289.70	262.14	233.47	197.64	168.28	139.34	105.50
45.0	367.81	350.24	332.24	311.32	281.95	253.88	225.97	198.50	161.56
90.0	335.78	315.62	292.11	259.39	233.21	206.00	172.84	146.83	115.74
135.0	340.60	319.15	292.11	264.81	230.19	201.43	173.96	145.28	114.02
180.0	273.34	248.28	219.86	185.93	158.20	129.78	95.07	73.11	53.65
225.0	252.33	224.86	196.61	167.41	131.16	104.55	80.69	60.20	41.25
270.0	284.54	260.42	235.19	202.12	174.91	142.70	118.76	95.94	75.18
315.0	282.64	255.60	226.84	197.81	162.94	135.81	110.75	87.24	61.32
360.0	341.37	320.53	289.70	262.14	233.47	197.64	168.28	139.34	105.50

Intensity data(cd)

Appendix Page: 18 Total:19

C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	81.38	60.11	39.18	28.85	21.53	18.86	16.45	14.81	13.26
45.0	132.88	105.67	76.39	57.53	41.94	32.72	28.33	25.49	22.13
90.0	93.52	73.11	56.15	42.28	35.05	31.26	28.07	24.46	21.87
135.0	89.65	67.43	43.15	31.61	21.96	19.20	16.97	15.07	12.83
180.0	36.86	24.20	17.83	15.59	13.95	12.06	10.59	9.47	8.27
225.0	31.09	24.54	21.10	18.77	16.71	14.47	12.92	11.02	9.73
270.0	53.65	41.68	33.33	29.45	25.66	22.99	20.41	17.74	15.93
315.0	44.44	32.98	25.06	21.36	19.12	16.62	14.81	13.18	11.54
360.0	81.38	60.11	39.18	28.85	21.53	18.86	16.45	14.81	13.26
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.80	10.33	9.21	8.35	7.58	6.89	6.29	5.86	5.60
45.0	19.72	17.57	15.67	13.61	12.06	10.76	9.65	8.53	7.75
90.0	19.55	17.57	15.33	13.87	12.14	10.94	9.82	8.78	7.84
135.0	11.37	10.16	8.96	7.84	7.06	6.37	5.86	5.51	5.17
180.0	7.15	6.46	5.86	5.43	4.99	4.82	4.65	4.48	4.22
225.0	8.70	7.92	6.98	6.46	6.03	5.60	5.25	4.82	4.48
270.0	14.12	12.40	11.11	9.99	8.87	8.10	7.41	6.80	6.11
315.0	10.16	9.21	8.35	7.32	6.72	6.29	5.94	5.43	5.08
360.0	11.80	10.33	9.21	8.35	7.58	6.89	6.29	5.86	5.60
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	5.17	4.99	4.65	4.39	4.13	3.96	3.79	3.62	3.53
45.0	6.98	6.54	6.03	5.43	4.99	4.65	4.39	4.05	3.79
90.0	7.32	6.54	6.03	5.68	5.25	4.82	4.56	4.22	4.05
135.0	4.65	4.48	4.22	3.96	3.79	3.62	3.44	3.27	3.19
180.0	3.96	3.79	3.62	3.36	3.27	3.19	3.10	3.01	2.93
225.0	4.31	4.13	3.88	3.62	3.44	3.36	3.19	3.10	3.01
270.0	5.60	5.25	4.99	4.48	4.22	4.05	3.70	3.44	3.36
315.0	4.74	4.31	4.13	3.88	3.70	3.44	3.27	3.27	3.10
360.0	5.17	4.99	4.65	4.39	4.13	3.96	3.79	3.62	3.53
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	3.27	3.19	3.10	2.93	2.76	2.67	2.58	2.58	2.33
45.0	3.70	3.44	3.36	3.10	3.10	2.84	2.76	2.67	2.58
90.0	3.79	3.53	3.36	3.19	3.01	2.84	2.76	2.58	2.50
135.0	3.10	2.93	2.93	2.76	2.67	2.58	2.58	2.41	2.33
180.0	2.84	2.84	2.67	2.67	2.50	2.41	2.33	2.33	2.41
225.0	2.93	2.76	2.67	2.58	2.50	2.41	2.33	2.33	2.33
270.0	3.10	2.93	2.84	2.76	2.50	2.41	2.24	2.15	2.07
315.0	3.01	2.84	2.67	2.58	2.58	2.50	2.33	2.24	2.15
360.0	3.27	3.19	3.10	2.93	2.76	2.67	2.58	2.58	2.33
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.33	2.24	2.07	1.98	1.98	1.89	1.81	1.81	1.81
45.0	2.50	2.33	2.33	2.24	2.07	1.89	1.72	1.72	1.72
90.0	2.33	2.15	2.07	1.89	1.81	1.72	1.64	1.55	1.38
135.0	2.15	2.07	2.07	1.98	1.89	1.81	1.64	1.55	1.46
180.0	2.33	2.15	1.98	1.89	1.72	1.64	1.55	1.46	1.46
225.0	2.15	1.98	1.89	1.64	1.55	1.46	1.38	1.38	1.29
270.0	1.98	1.89	1.89	1.72	1.55	1.46	1.46	1.29	1.38
315.0	1.98	1.98	1.81	1.81	1.72	1.64	1.64	1.46	1.46
360.0	2.33	2.24	2.07	1.98	1.98	1.89	1.81	1.81	1.81

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	1.72
45.0	1.64
90.0	1.38
135.0	1.38
180.0	1.38
225.0	1.29
270.0	1.29
315.0	1.38
360.0	1.72