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Nata

Client: NT

LumCAT: 1-1737-LM

Luminaire: 92.70.458.00 LED HOLDER

Report No: 20250927-B016

Ballast type: DC

Test No: 20250927-C016

Voltage(V): 34.070

LampCAT: PHILIPS SLM 1202 L06 1313

Current(A): 0.146

Lamp flux(lm): 850.0

Power (W): 4.974

Number of Lamps: 1

PF: 0.000

Length(mm): 35

Width(mm): 35

Phm Type: C

Height(mm): 15

Photometric Results

Lumens(lm): 809.93, Efficiency(%): 95.29% , Luminous Efficacy(lm/W): 162.83

Central intensity(cd): 861.938, Maximum intensity(cd): 861.938

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=60.8

[C90/270]Total=60.8

Field angle(10%Imax): [C0/180]Total=88.4

[C90/270]Total=88.4

Maximum s/h(1/2): C0_180=0.87 C90_270=0.87

Maximum s/h(1/4): C0_180=0.94 C90_270=0.94

Up flux rate of lamp(%): 0.00%

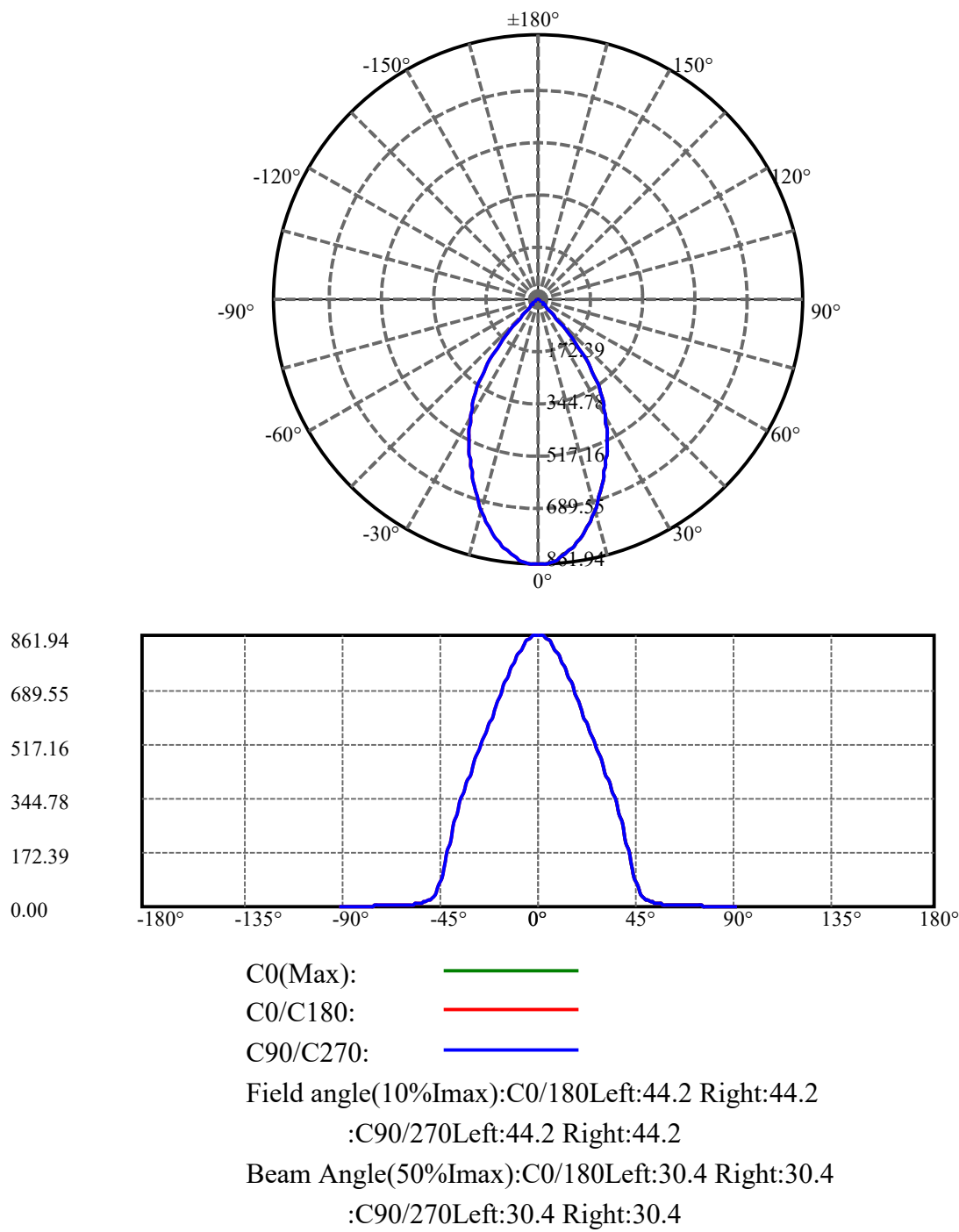
Down flux rate of lamp(%): 95.29%

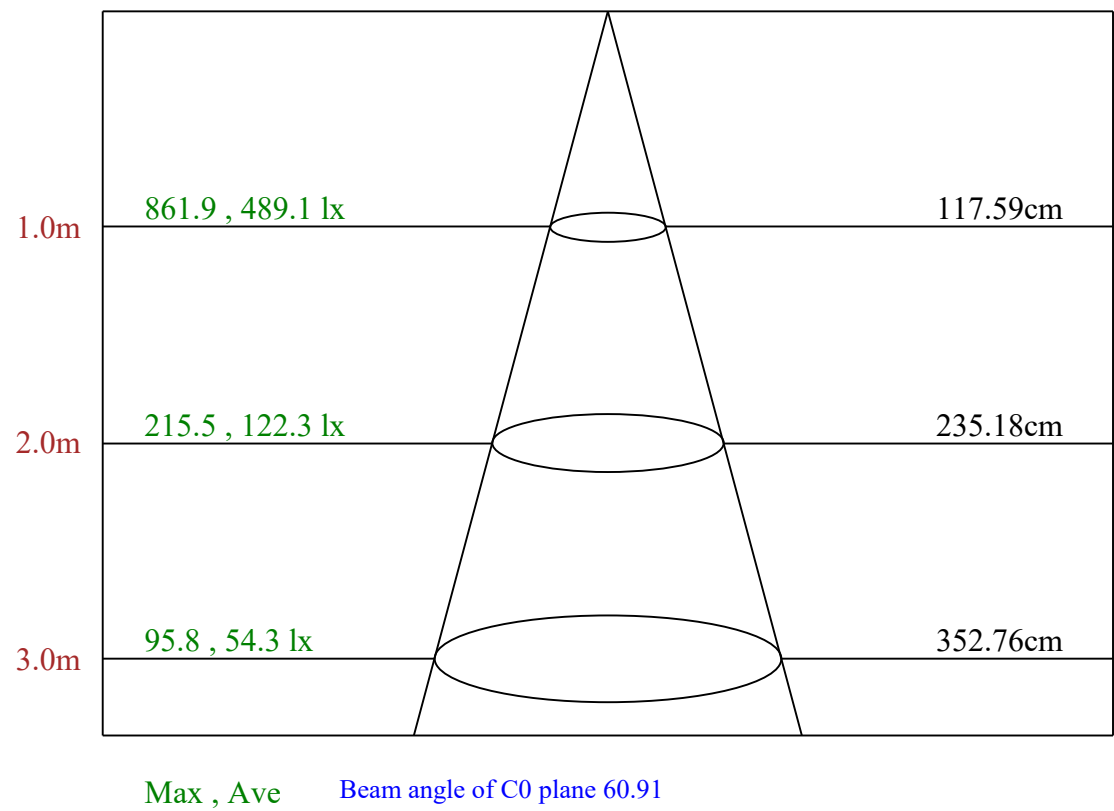
Up flux rate of LUM(%): - -

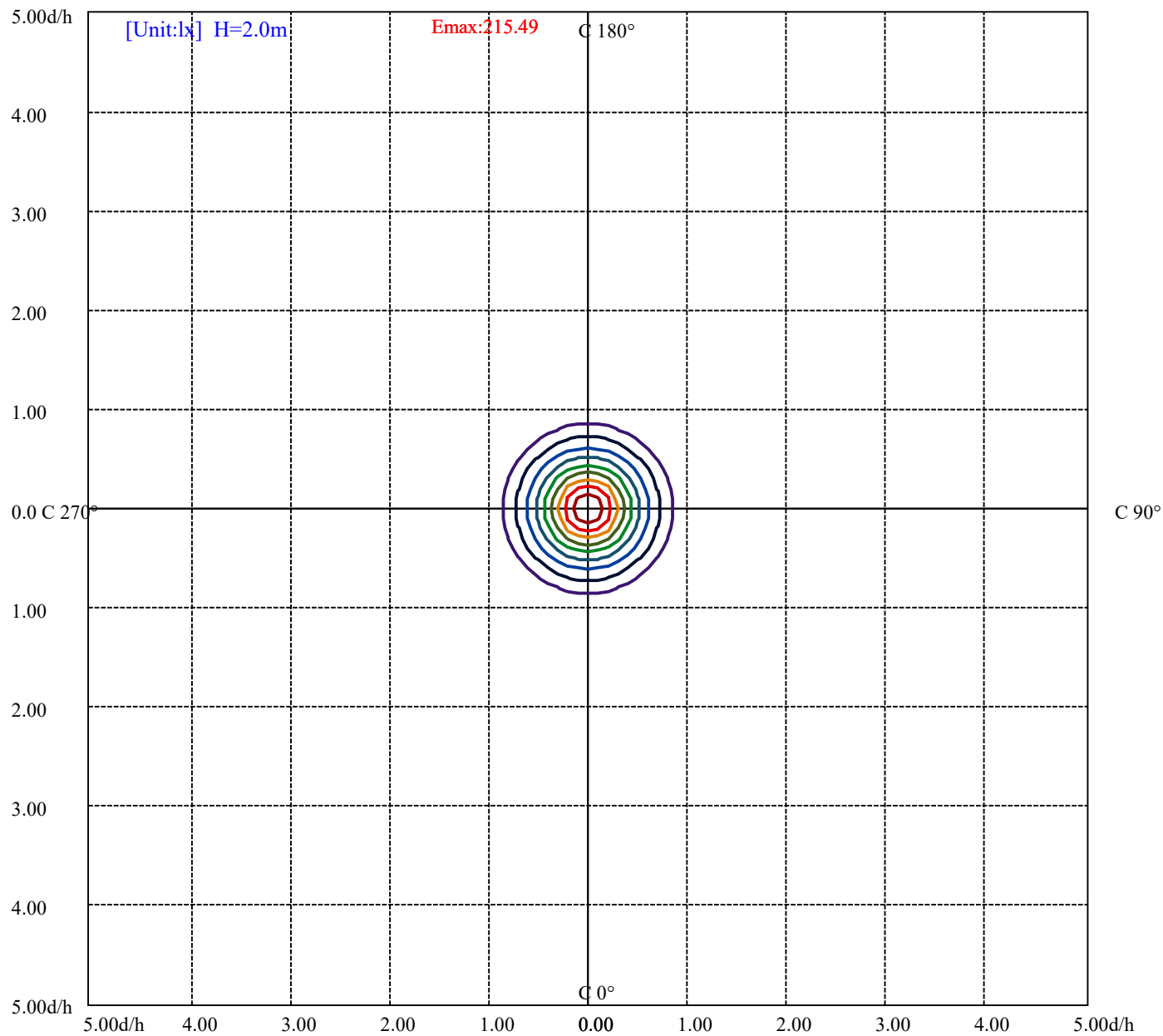
Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.927%







(10%Emax)	21.54845	—
(20%Emax)	43.097	—
(30%Emax)	64.64525	—
(40%Emax)	86.19375	—
(50%Emax)	107.7422	—
(60%Emax)	129.2908	—
(70%Emax)	150.839	—
(80%Emax)	172.3875	—
(90%Emax)	193.936	—

Luminance Table

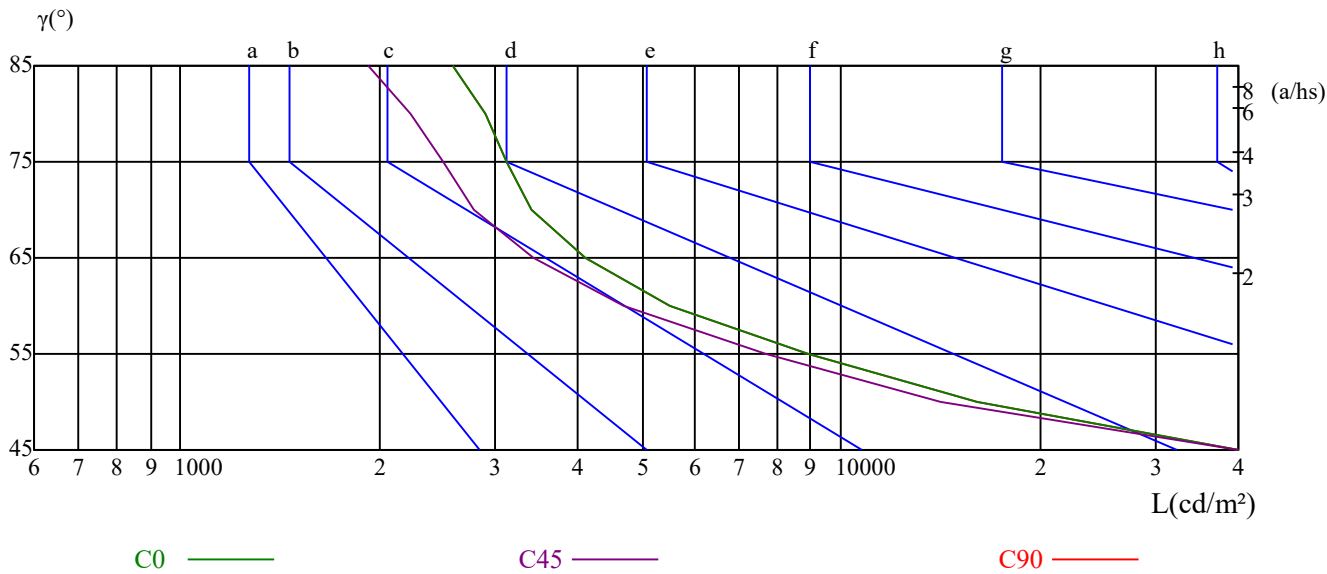
γ	45	50	55	60	65	70	75	80	85
C0	56298	16134	8901	5510	4091	3402	3125	2893	2582
C45	50076	14152	7691	4684	3414	2780	2491	2237	1921
C90	56298	16134	8901	5510	4091	3402	3125	2893	2582

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7851	7851	7851	8125	8125	8125	15228	15228	15228

Glare Table

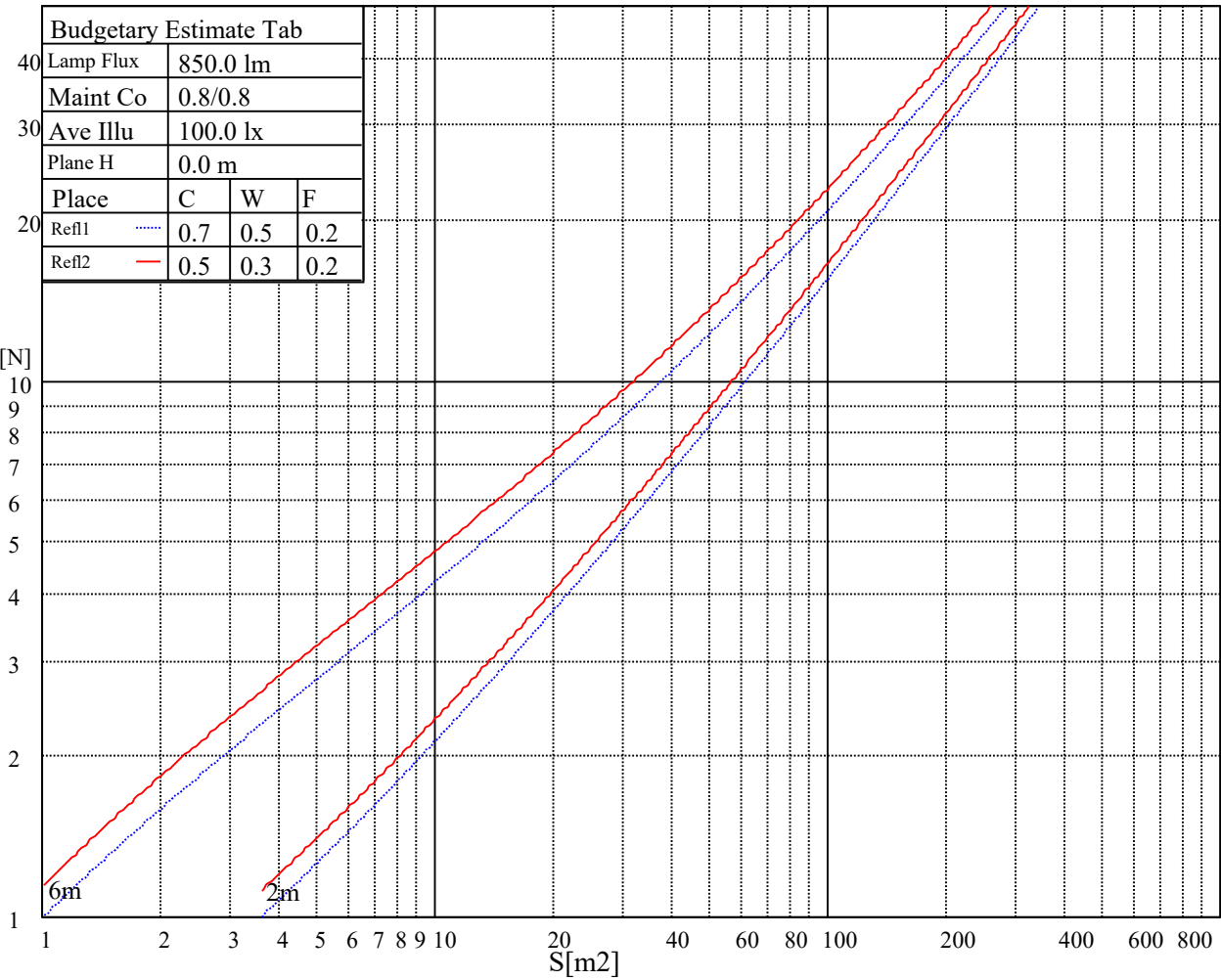
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	24.22	25.24	24.59	25.55	25.87	23.45	24.47	23.82	24.78	25.10
	3H	24.04	24.94	24.43	25.28	25.63	23.27	24.17	23.66	24.51	24.85
	4H	23.95	24.78	24.35	25.14	25.50	23.18	24.01	23.58	24.37	24.73
	6H	23.87	24.64	24.29	25.01	25.41	23.11	23.87	23.52	24.24	24.64
	8H	23.80	24.53	24.23	24.92	25.33	23.04	23.77	23.46	24.15	24.56
	12H	23.74	24.43	24.17	24.83	25.24	22.98	23.67	23.40	24.06	24.48
4H	2H	23.93	24.77	24.33	25.12	25.49	23.16	24.00	23.56	24.35	24.72
	3H	23.72	24.41	24.14	24.81	25.22	22.95	23.65	23.38	24.04	24.46
	4H	23.66	24.26	24.10	24.68	25.13	22.90	23.49	23.33	23.92	24.37
	6H	23.54	24.07	24.01	24.52	24.97	22.78	23.31	23.25	23.76	24.21
	8H	23.49	23.98	23.98	24.44	24.91	22.73	23.22	23.22	23.68	24.15
	12H	23.45	23.90	23.94	24.35	24.87	22.70	23.15	23.19	23.60	24.12
8H	4H	23.47	23.95	23.95	24.41	24.89	22.70	23.19	23.19	23.65	24.13
	6H	23.34	23.74	23.84	24.22	24.73	22.58	22.98	23.09	23.46	23.97
	8H	23.34	23.68	23.87	24.20	24.70	22.59	22.93	23.12	23.45	23.94
	12H	23.30	23.57	23.85	24.09	24.61	22.55	22.82	23.10	23.34	23.86
12H	4H	23.41	23.87	23.90	24.32	24.84	22.65	23.11	23.14	23.56	24.08
	6H	23.32	23.66	23.86	24.18	24.68	22.57	22.91	23.10	23.43	23.93
	8H	23.29	23.55	23.83	24.07	24.59	22.54	22.80	23.08	23.32	23.84
Variation with the observer position at spacings:											
S = 1.0H		3.9/-11.2					3.9/-11.2				
S = 1.5H		6.7/-11.6					6.7/-11.6				
S = 2.0H		8.6/-11.2					8.6/-11.2				
Standard tables:		BK0					BK0				
Uncorrected UGR		4.0					4.0				

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	0.85	0.81	0.89	0.84	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	0.74	0.83	0.78	0.74	0.81	0.77	0.73	0.79	0.75	0.72	0.77	0.74	0.71	0.70
5	0.78	0.73	0.68	0.77	0.72	0.68	0.76	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.65
6	0.73	0.67	0.63	0.72	0.67	0.63	0.71	0.66	0.62	0.70	0.65	0.62	0.68	0.65	0.62	0.60
7	0.69	0.63	0.58	0.68	0.62	0.58	0.67	0.62	0.58	0.66	0.61	0.58	0.64	0.60	0.57	0.56
8	0.64	0.58	0.54	0.64	0.58	0.54	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.52
9	0.61	0.55	0.51	0.60	0.54	0.51	0.59	0.54	0.50	0.58	0.54	0.50	0.57	0.53	0.50	0.49
10	0.57	0.51	0.47	0.57	0.51	0.47	0.56	0.51	0.47	0.55	0.50	0.47	0.54	0.50	0.47	0.46

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	860.52	859.00	855.46	850.22	842.96	832.15	822.10	810.53	798.36
45.0	858.24	861.62	864.41	867.03	866.44	864.66	857.48	851.32	839.32
90.0	867.03	872.26	877.92	879.19	878.77	876.06	872.01	866.35	859.17
135.0	861.96	868.63	872.85	876.32	880.12	880.12	878.51	875.56	871.25
180.0	860.52	861.20	862.55	862.63	859.59	857.23	851.57	845.91	838.40
225.0	858.24	854.27	849.37	842.37	833.92	823.36	808.75	795.75	783.67
270.0	867.03	859.34	853.60	842.11	830.37	817.70	803.43	790.76	775.39
315.0	861.96	852.58	842.20	831.55	818.46	806.22	788.65	772.86	755.54
360.0	860.52	859.00	855.46	850.22	842.96	832.15	822.10	810.53	798.36
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	781.98	769.40	750.81	734.94	718.13	697.10	679.62	663.15	645.33
45.0	828.18	817.03	801.40	787.89	773.62	752.50	735.02	718.21	695.83
90.0	848.36	837.04	819.14	803.18	786.46	764.92	747.61	728.52	708.42
135.0	864.49	856.05	842.37	829.36	817.45	801.83	788.57	772.69	748.37
180.0	828.85	819.82	809.68	797.43	779.78	766.95	752.42	735.95	715.26
225.0	771.25	755.46	742.71	729.70	715.09	696.34	679.70	662.81	642.46
270.0	760.87	745.24	728.86	709.26	694.57	680.04	664.67	645.75	628.35
315.0	740.43	720.41	704.96	690.43	675.99	658.67	644.06	628.86	608.25
360.0	781.98	769.40	750.81	734.94	718.13	697.10	679.62	663.15	645.33
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	625.74	610.87	597.70	583.08	565.94	554.12	542.55	528.10	516.96
45.0	679.62	662.64	640.43	622.86	607.58	592.12	573.96	558.00	542.46
90.0	683.25	663.06	642.71	624.22	599.64	581.06	561.72	535.62	514.68
135.0	726.66	705.46	679.70	659.10	640.26	622.19	597.19	576.08	554.71
180.0	696.76	680.63	659.52	642.37	620.08	602.17	583.51	559.61	540.86
225.0	626.33	609.94	590.43	575.40	555.81	540.35	524.13	509.52	492.29
270.0	611.29	595.08	576.33	559.78	538.66	522.70	506.57	485.88	469.91
315.0	593.30	579.28	562.65	550.74	538.75	523.71	512.14	499.56	486.80
360.0	625.74	610.87	597.70	583.08	565.94	554.12	542.55	528.10	516.96
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	505.22	490.69	478.27	464.00	444.07	430.39	415.78	396.69	380.90
45.0	526.33	506.48	491.37	475.57	454.71	438.41	418.56	403.02	387.48
90.0	493.31	468.73	447.03	423.89	394.75	372.87	351.93	332.67	308.60
135.0	532.58	507.24	487.57	467.63	443.56	424.65	400.32	381.74	364.17
180.0	520.84	500.23	476.42	455.73	436.98	419.75	402.43	381.15	364.26
225.0	470.59	452.77	435.71	418.99	398.21	381.83	365.53	340.95	317.89
270.0	453.19	434.53	411.13	392.13	374.48	356.57	335.71	318.82	299.73
315.0	470.76	455.22	439.68	423.72	404.46	388.41	372.62	349.65	326.51
360.0	505.22	490.69	478.27	464.00	444.07	430.39	415.78	396.69	380.90
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	361.81	339.43	305.65	275.66	246.11	215.36	177.10	147.12	112.33
45.0	372.54	350.92	329.72	305.56	276.34	240.36	210.97	178.88	140.11
90.0	289.26	267.39	242.39	209.03	184.11	158.36	128.96	106.92	84.88
135.0	346.27	320.09	294.25	265.70	235.46	198.47	171.11	142.65	112.83
180.0	338.25	312.91	283.43	244.42	214.10	183.86	144.25	116.72	91.63
225.0	291.46	255.40	225.41	186.39	155.31	126.52	100.00	70.86	51.77
270.0	271.02	245.51	220.09	187.91	163.17	131.33	107.01	86.23	66.47
315.0	293.40	265.87	237.58	201.85	171.95	142.98	115.96	90.45	63.68
360.0	361.81	339.43	305.65	275.66	246.11	215.36	177.10	147.12	112.33

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	86.82	65.62	47.13	37.25	31.00	27.45	23.73	20.95	18.58
45.0	112.58	87.50	61.82	45.35	34.46	24.66	21.45	19.09	17.06
90.0	69.51	53.97	34.71	25.08	18.66	16.13	13.77	12.33	11.40
135.0	91.55	70.01	45.10	30.83	21.79	16.55	14.78	13.18	11.74
180.0	69.25	49.24	38.43	29.98	26.86	23.73	21.54	19.42	16.64
225.0	38.09	28.04	21.71	19.26	17.14	14.78	12.92	11.23	9.21
270.0	44.00	32.01	23.31	18.75	16.13	14.61	13.18	11.99	10.30
315.0	45.52	33.19	23.39	20.35	18.33	15.62	14.02	12.42	10.73
360.0	86.82	65.62	47.13	37.25	31.00	27.45	23.73	20.95	18.58

C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	16.38	13.94	11.99	10.22	8.78	7.85	7.09	6.42	5.91
45.0	14.70	12.92	11.40	9.88	8.11	7.18	6.50	5.74	5.24
90.0	10.05	9.04	7.69	6.84	6.17	5.66	5.15	4.73	4.39
135.0	10.05	8.61	7.26	6.50	5.83	5.41	4.98	4.65	4.39
180.0	14.70	13.18	11.99	10.98	10.13	8.95	8.28	7.60	6.93
225.0	8.28	7.52	6.84	6.33	6.00	5.66	5.24	4.81	4.56
270.0	9.12	7.77	7.18	6.50	5.91	5.57	5.15	4.73	4.39
315.0	9.21	7.69	6.59	6.00	5.49	5.07	4.65	4.39	4.14
360.0	16.38	13.94	11.99	10.22	8.78	7.85	7.09	6.42	5.91

C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	5.32	4.98	4.65	4.39	4.14	3.80	3.63	3.38	3.21
45.0	4.81	4.56	4.22	3.97	3.72	3.55	3.38	3.21	3.04
90.0	4.14	3.88	3.72	3.55	3.46	3.29	3.12	3.04	2.96
135.0	3.97	3.80	3.63	3.38	3.29	3.21	3.04	2.96	2.87
180.0	6.25	5.74	5.32	4.81	4.39	4.14	3.72	3.46	3.29
225.0	4.22	3.97	3.63	3.38	3.21	3.12	3.04	2.87	2.79
270.0	4.22	4.05	3.88	3.72	3.55	3.38	3.21	3.12	3.04
315.0	3.88	3.63	3.46	3.29	3.12	3.04	2.87	2.79	2.70
360.0	5.32	4.98	4.65	4.39	4.14	3.80	3.63	3.38	3.21

C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	3.04	2.96	2.87	2.70	2.62	2.53	2.45	2.28	2.20
45.0	2.96	2.87	2.79	2.70	2.62	2.53	2.36	2.36	2.20
90.0	2.87	2.79	2.70	2.53	2.45	2.36	2.28	2.20	2.11
135.0	2.79	2.70	2.62	2.53	2.45	2.36	2.28	2.20	2.11
180.0	3.21	3.04	2.96	2.79	2.70	2.53	2.45	2.36	2.20
225.0	2.70	2.62	2.53	2.45	2.36	2.20	2.20	2.11	2.03
270.0	2.87	2.79	2.70	2.53	2.53	2.45	2.28	2.20	2.11
315.0	2.62	2.62	2.45	2.36	2.36	2.20	2.20	2.11	1.94
360.0	3.04	2.96	2.87	2.70	2.62	2.53	2.45	2.28	2.20

C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.11	2.03	1.94	1.86	1.77	1.60	1.52	1.52	1.35
45.0	2.11	2.03	1.94	1.86	1.77	1.69	1.52	1.44	1.35
90.0	2.03	1.94	1.86	1.77	1.69	1.44	1.44	1.35	1.27
135.0	2.03	1.94	1.86	1.77	1.69	1.52	1.44	1.35	1.27
180.0	2.20	2.03	2.03	1.94	1.60	1.52	1.44	1.27	1.18
225.0	1.94	1.86	1.77	1.60	1.44	1.35	1.27	1.27	1.18
270.0	2.03	1.94	1.77	1.69	1.52	1.44	1.27	1.27	1.27
315.0	1.86	1.77	1.77	1.69	1.52	1.44	1.35	1.27	1.27
360.0	2.11	2.03	1.94	1.86	1.77	1.60	1.52	1.52	1.35

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	1.35
45.0	1.27
90.0	1.27
135.0	1.18
180.0	1.18
225.0	1.18
270.0	1.18
315.0	1.18
360.0	1.35