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Nata

Client: NT

LumCAT: 1-1735-LM

Luminaire: 92.70.458.00 LED HOLDER

Report No: 20250927-B004

Ballast type: DC

Test No: 20250927-C004

Voltage(V): 34.100

LampCAT: PHILIPS SLM 1202 L06 1313

Current(A): 0.146

Lamp flux(lm): 850.0

Power (W): 4.978

Number of Lamps: 1

PF: 0.000

Length(mm): 35

Width(mm): 35

Phm Type: C

Height(mm): 15

Photometric Results

Lumens(lm): 810.84, Efficiency(%): 95.39% , Luminous Efficacy(lm/W): 162.88

Central intensity(cd): 1454.207, Maximum intensity(cd): 1454.207

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=37.0

[C90/270]Total=37.0

Field angle(10%Imax): [C0/180]Total=81.0

[C90/270]Total=81.0

Maximum s/h(1/2): C0_180=0.60 C90_270=0.60

Maximum s/h(1/4): C0_180=0.64 C90_270=0.64

Up flux rate of lamp(%): 0.00%

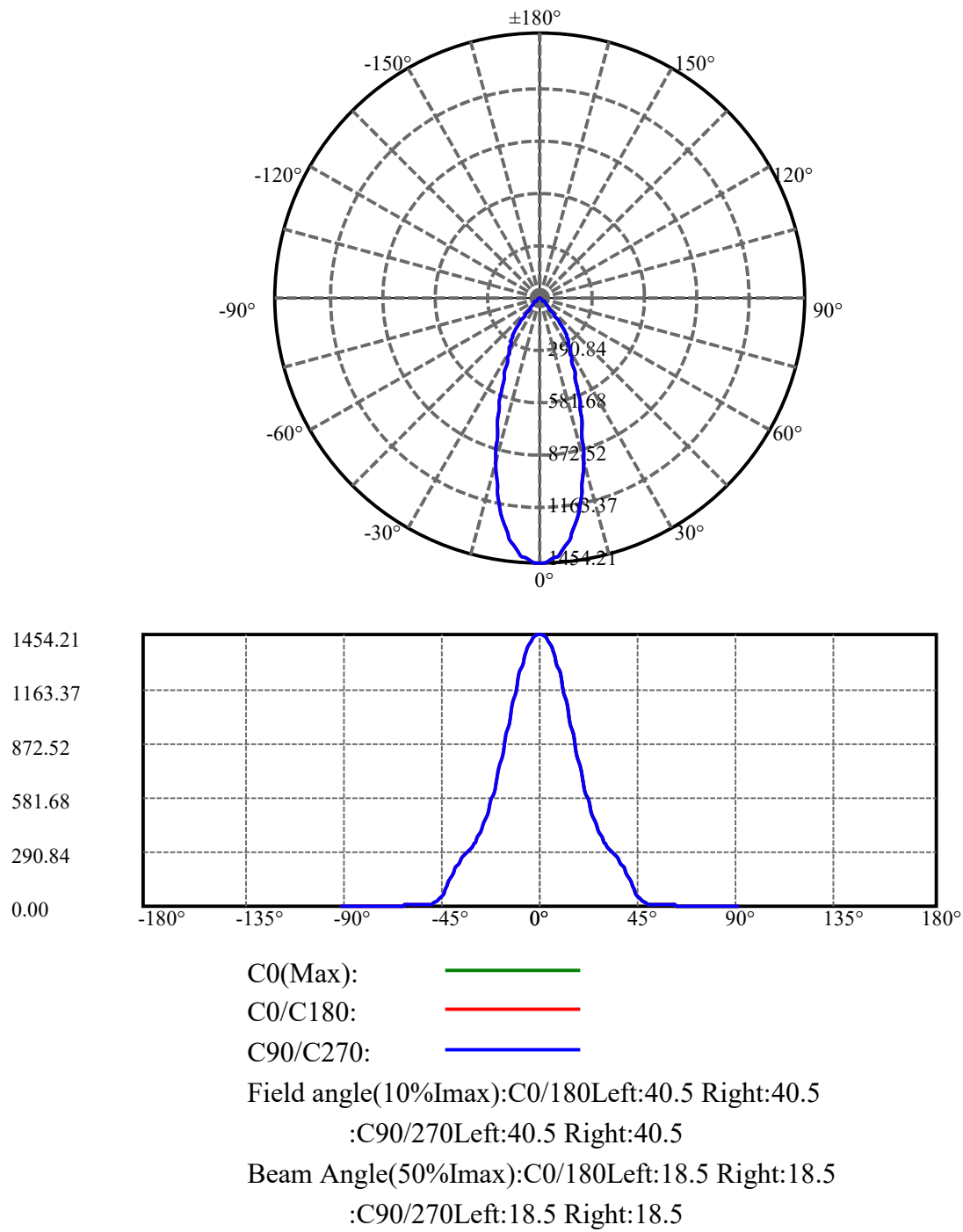
Down flux rate of lamp(%): 95.39%

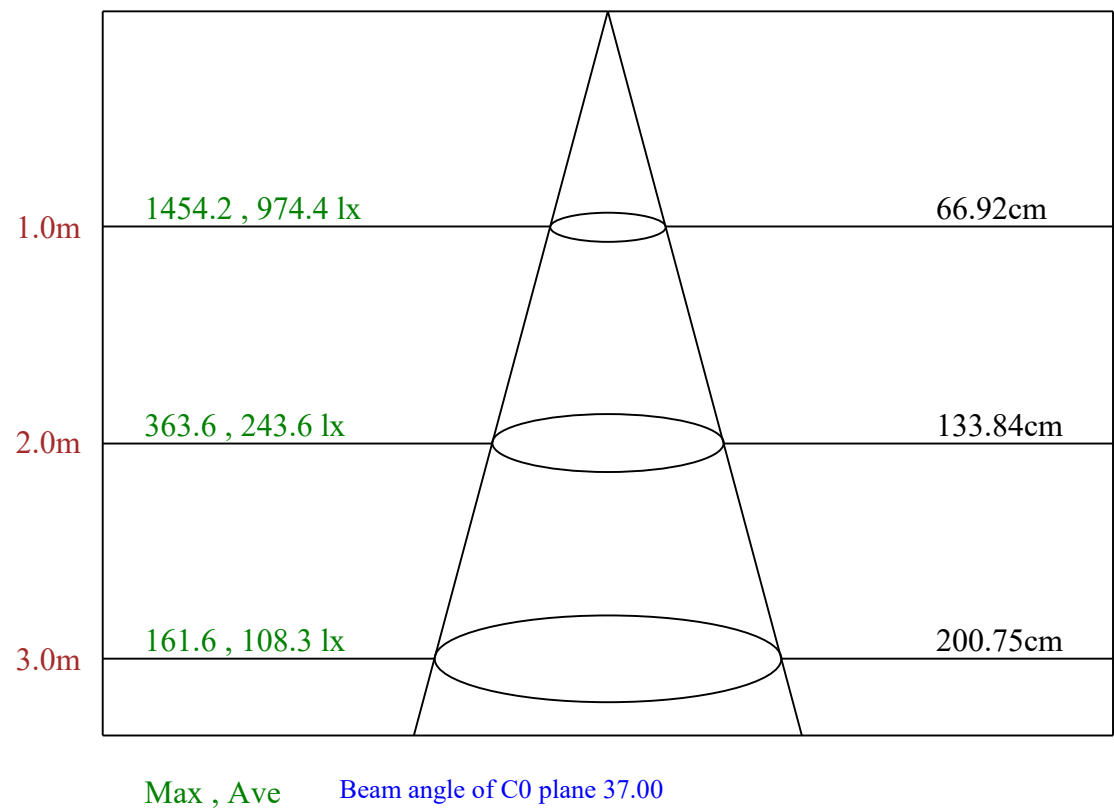
Up flux rate of LUM(%): - -

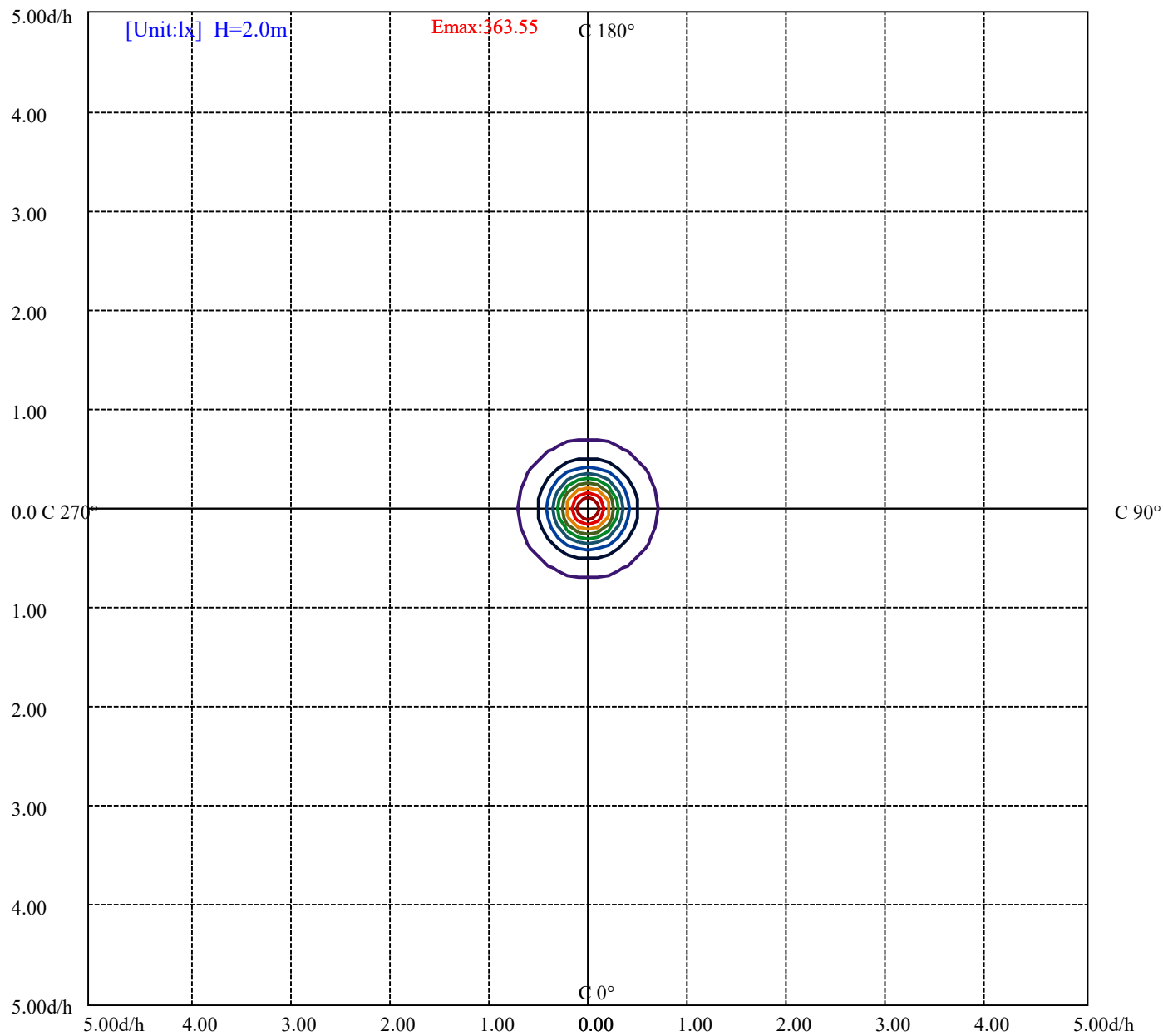
Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.936%







(10%Emax)	36.35525	—
(20%Emax)	72.71025	—
(30%Emax)	109.0655	—
(40%Emax)	145.4207	—
(50%Emax)	181.7758	—
(60%Emax)	218.131	—
(70%Emax)	254.485	—
(80%Emax)	290.8425	—
(90%Emax)	327.1975	—

Luminance Table

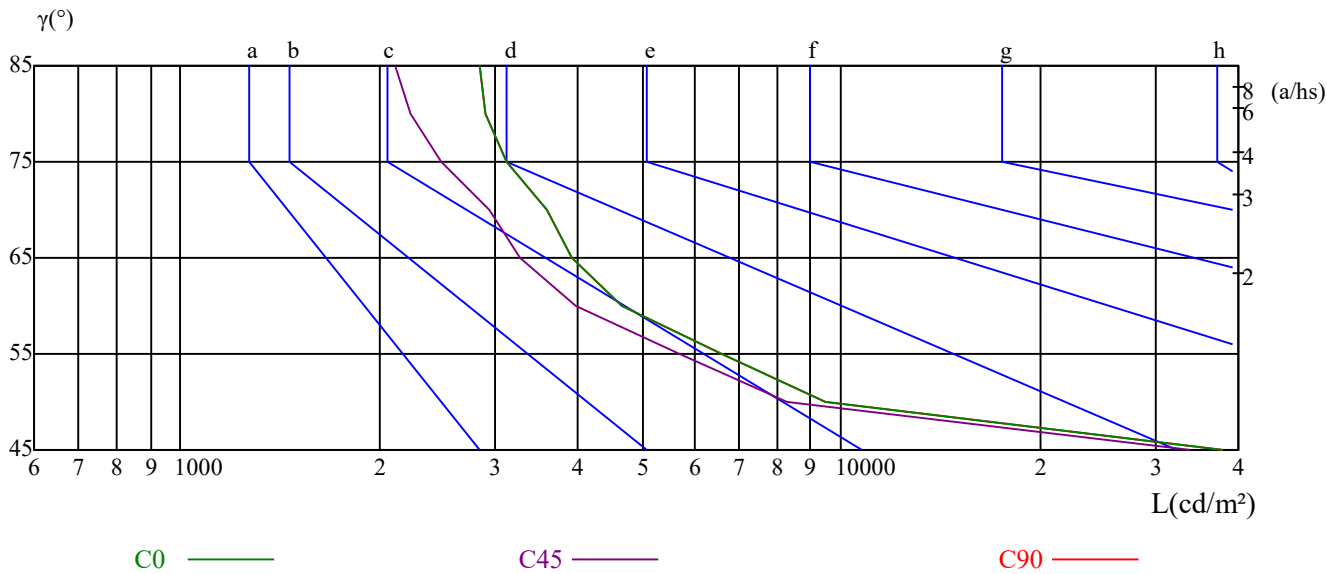
γ	45	50	55	60	65	70	75	80	85
C0	37930	9460	6608	4659	3910	3587	3113	2893	2833
C45	33738	8298	5710	3960	3263	2931	2480	2237	2108
C90	37930	9460	6608	4659	3910	3587	3113	2893	2833

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7504	7504	7504	8091	8091	8091	16711	16711	16711

Glare Table

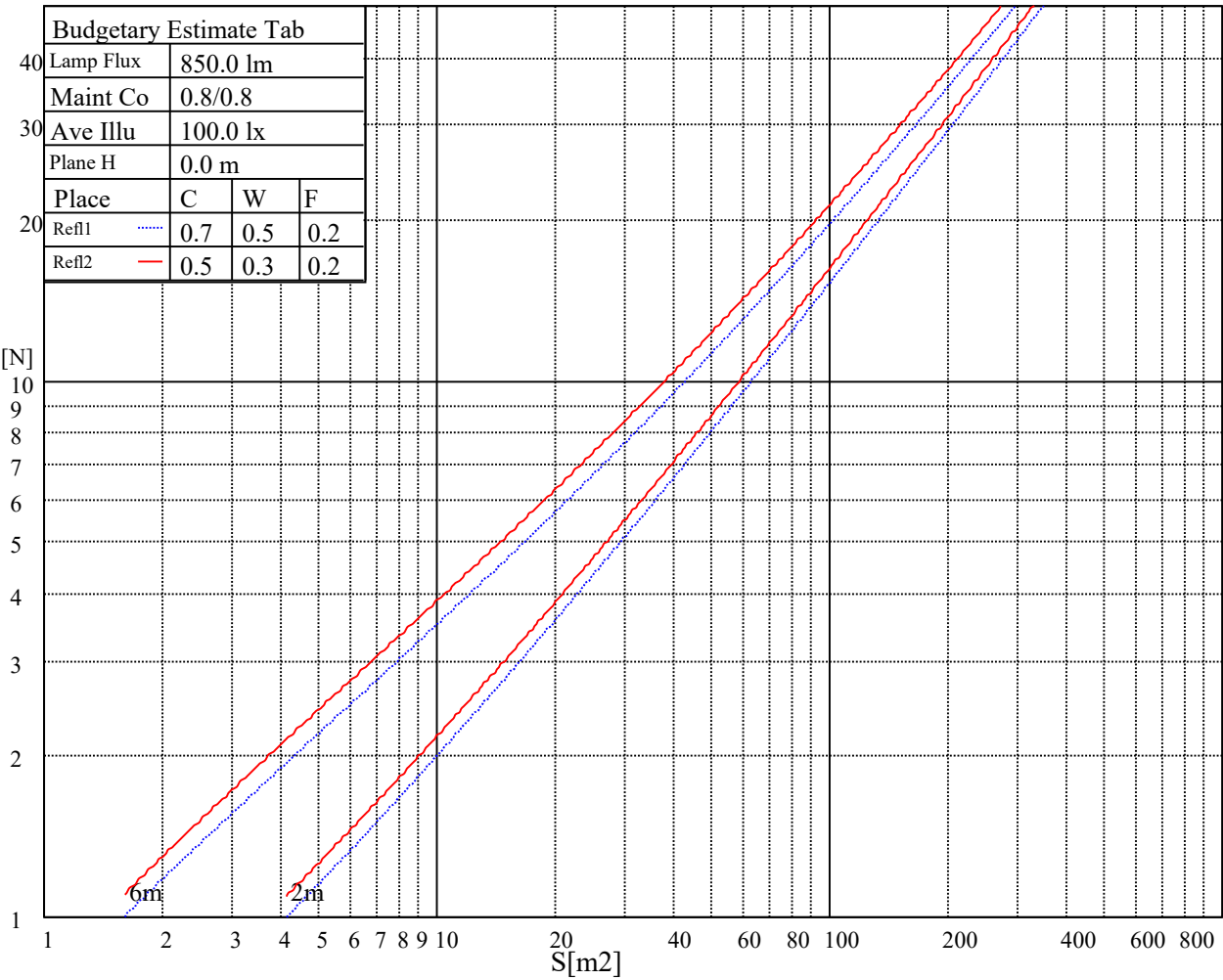
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	20.48	21.46	20.84	21.77	22.09	21.21	22.19	21.57	22.50	22.82
	3H	20.31	21.18	20.69	21.52	21.86	21.04	21.91	21.42	22.25	22.59
	4H	20.23	21.03	20.63	21.39	21.75	20.96	21.76	21.36	22.12	22.49
	6H	20.17	20.90	20.58	21.28	21.68	20.90	21.63	21.32	22.01	22.41
	8H	20.11	20.81	20.53	21.20	21.61	20.84	21.54	21.26	21.93	22.34
	12H	20.06	20.72	20.49	21.12	21.54	20.79	21.45	21.21	21.85	22.27
4H	2H	20.18	20.99	20.58	21.34	21.71	20.91	21.71	21.31	22.07	22.44
	3H	19.99	20.66	20.42	21.06	21.48	20.72	21.39	21.14	21.79	22.20
	4H	19.95	20.53	20.39	20.96	21.41	20.68	21.26	21.12	21.68	22.13
	6H	19.86	20.37	20.34	20.83	21.28	20.58	21.10	21.06	21.55	22.00
	8H	19.84	20.31	20.32	20.77	21.24	20.56	21.03	21.04	21.49	21.96
	12H	19.82	20.26	20.31	20.71	21.23	20.54	20.98	21.03	21.43	21.95
8H	4H	19.77	20.25	20.26	20.71	21.18	20.49	20.97	20.98	21.43	21.90
	6H	19.69	20.08	20.20	20.56	21.07	20.40	20.79	20.91	21.27	21.78
	8H	19.73	20.05	20.26	20.57	21.07	20.44	20.76	20.97	21.28	21.78
	12H	19.74	19.99	20.28	20.51	21.03	20.44	20.69	20.98	21.21	21.73
12H	4H	19.72	20.16	20.22	20.61	21.13	20.44	20.88	20.93	21.33	21.85
	6H	19.68	20.01	20.22	20.53	21.03	20.39	20.72	20.93	21.24	21.74
	8H	19.69	19.94	20.23	20.46	20.98	20.40	20.65	20.94	21.17	21.69
Variation with the observer position at spacings:											
S = 1.0H		3.9/-10.3					3.9/-10.3				
S = 1.5H		6.6/-10.0					6.6/-10.0				
S = 2.0H		8.5/-9.4					8.5/-9.4				
Standard tables:		BK0					BK0				
Uncorrected UGR		2.1					2.1				

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	1.14	1.14	1.14	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	1.06	1.03	1.01	1.04	1.02	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.99	0.95	0.92	0.97	0.94	0.91	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.84
3	0.93	0.88	0.84	0.91	0.87	0.84	0.89	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.78
4	0.87	0.82	0.78	0.86	0.81	0.78	0.84	0.80	0.77	0.82	0.78	0.76	0.80	0.77	0.75	0.73
5	0.82	0.76	0.73	0.81	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.70	0.69
6	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.72	0.69	0.66	0.65
7	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.61
8	0.69	0.64	0.60	0.69	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.59	0.66	0.62	0.59	0.58
9	0.66	0.60	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.59	0.56	0.63	0.59	0.56	0.55
10	0.63	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.56	0.53	0.60	0.56	0.53	0.52

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	1456.28	1458.39	1452.39	1443.69	1429.34	1402.22	1378.41	1350.12	1305.94
45.0	1453.83	1451.80	1447.24	1440.74	1426.89	1410.75	1388.37	1355.18	1322.41
90.0	1453.74	1447.75	1435.16	1422.49	1405.60	1378.91	1354.17	1323.43	1278.67
135.0	1452.98	1455.35	1450.62	1442.09	1432.04	1417.34	1398.26	1361.69	1328.07
180.0	1456.28	1454.08	1442.68	1428.07	1405.35	1383.48	1351.30	1312.19	1276.39
225.0	1453.83	1447.66	1432.04	1415.48	1392.77	1364.56	1323.85	1288.29	1250.71
270.0	1453.74	1454.00	1451.63	1442.76	1431.53	1413.71	1394.71	1364.05	1329.85
315.0	1452.98	1446.73	1439.47	1425.87	1412.02	1388.88	1353.75	1320.05	1276.55
360.0	1456.28	1458.39	1452.39	1443.69	1429.34	1402.22	1378.41	1350.12	1305.94

C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1263.46	1217.10	1149.87	1091.43	1024.79	936.53	869.98	801.24	740.26
45.0	1288.97	1248.01	1206.46	1144.13	1096.58	1040.25	967.87	906.30	846.76
90.0	1238.80	1193.62	1130.19	1083.99	1031.63	965.67	912.80	863.39	813.90
135.0	1289.73	1250.63	1193.28	1147.08	1099.28	1048.61	983.24	936.45	890.59
180.0	1226.22	1180.95	1137.37	1080.19	1034.42	991.35	947.34	906.97	859.51
225.0	1206.79	1163.13	1105.70	1059.25	1010.18	945.65	900.13	841.61	795.66
270.0	1293.36	1237.70	1187.37	1119.47	1060.52	999.71	939.24	863.56	805.37
315.0	1229.17	1160.26	1101.81	1039.99	973.69	890.00	824.97	748.70	689.75
360.0	1263.46	1217.10	1149.87	1091.43	1024.79	936.53	869.98	801.24	740.26

C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	665.09	607.58	554.03	493.05	451.25	414.51	373.80	348.97	329.97
45.0	779.02	727.93	680.72	622.44	576.16	530.13	477.77	439.09	404.46
90.0	770.66	714.92	674.80	635.28	585.20	547.70	505.98	473.88	444.32
135.0	837.30	799.97	751.91	717.96	684.60	652.68	615.09	583.51	550.48
180.0	821.93	788.06	754.87	711.80	678.27	633.93	595.84	558.76	507.67
225.0	753.35	700.06	658.67	616.45	576.16	526.25	485.28	447.79	413.50
270.0	747.86	695.92	634.35	587.31	542.12	491.79	454.54	421.18	384.53
315.0	634.35	571.60	525.57	485.28	448.38	406.49	379.55	358.94	340.95
360.0	665.09	607.58	554.03	493.05	451.25	414.51	373.80	348.97	329.97

C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	312.74	301.34	292.89	284.53	277.27	270.77	264.35	252.78	236.65
45.0	373.89	345.93	328.45	315.02	304.30	292.39	283.69	275.75	268.23
90.0	411.81	387.40	367.64	349.14	332.17	318.06	304.04	286.98	263.59
135.0	518.48	476.50	447.20	420.17	394.24	366.96	349.82	330.05	316.63
180.0	470.42	434.78	392.97	364.26	341.79	323.38	305.65	293.32	283.27
225.0	374.22	348.89	329.13	310.63	298.13	285.80	277.52	269.41	258.69
270.0	360.46	339.60	319.24	305.06	292.22	281.49	269.92	261.31	250.50
315.0	323.04	311.05	300.66	289.60	282.17	275.66	262.24	246.87	228.96
360.0	312.74	301.34	292.89	284.53	277.27	270.77	264.35	252.78	236.65

C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	218.91	199.57	170.52	146.19	122.55	93.24	71.37	50.84	29.64
45.0	256.66	236.39	215.03	192.73	169.50	138.93	115.87	92.39	70.18
90.0	245.09	224.32	197.12	173.22	150.33	122.71	101.60	76.69	59.12
135.0	303.62	287.66	271.61	251.68	229.30	200.33	177.36	153.37	127.53
180.0	272.79	257.25	242.05	223.13	196.87	172.12	142.31	119.59	93.49
225.0	243.82	225.16	205.14	181.92	153.20	128.71	104.98	82.26	56.50
270.0	234.03	210.80	190.53	167.98	142.06	120.18	99.57	75.50	55.74
315.0	203.03	180.23	156.92	132.26	102.78	81.33	60.72	42.65	25.25
360.0	218.91	199.57	170.52	146.19	122.55	93.24	71.37	50.84	29.64

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	18.07	11.40	7.94	7.69	7.52	7.26	6.84	6.42	5.74
45.0	46.62	31.16	19.85	11.82	9.97	9.63	9.29	8.95	8.45
90.0	44.42	33.44	26.01	21.45	19.00	16.98	15.12	13.18	11.91
135.0	97.46	76.01	56.67	36.23	25.42	16.64	14.53	14.02	13.51
180.0	72.13	47.80	31.59	20.69	13.18	9.12	8.45	7.94	7.35
225.0	39.61	24.07	16.47	11.40	10.47	10.13	9.71	9.04	8.45
270.0	40.12	24.91	16.98	12.42	10.89	10.05	9.37	8.61	7.60
315.0	17.06	11.65	11.32	11.15	10.73	10.22	9.54	8.45	7.94
360.0	18.07	11.40	7.94	7.69	7.52	7.26	6.84	6.42	5.74
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	5.41	4.98	4.65	4.31	4.05	3.72	3.55	3.46	3.38
45.0	7.85	7.09	6.42	6.00	5.57	5.15	4.81	4.39	4.14
90.0	10.56	8.95	8.19	7.26	6.67	6.08	5.49	5.15	4.81
135.0	13.18	12.50	11.74	10.64	9.46	8.61	8.02	7.52	7.09
180.0	6.84	6.42	5.83	4.81	4.56	4.22	4.05	3.80	3.55
225.0	7.69	6.67	6.00	5.57	5.15	4.73	4.31	4.05	3.80
270.0	6.76	6.25	5.66	5.32	4.90	4.65	4.39	4.22	3.97
315.0	7.52	7.01	6.42	6.17	5.83	5.49	5.15	4.81	4.56
360.0	5.41	4.98	4.65	4.31	4.05	3.72	3.55	3.46	3.38
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3.38	3.38	3.38	3.38	3.29	3.21	3.12	3.04	2.96
45.0	3.88	3.63	3.55	3.46	3.38	3.38	3.29	3.21	3.21
90.0	4.56	4.31	4.14	3.97	3.80	3.72	3.55	3.46	3.21
135.0	6.67	6.17	5.74	5.41	4.98	4.65	4.48	4.22	3.97
180.0	3.46	3.38	3.29	3.21	3.21	3.12	3.12	3.04	3.04
225.0	3.63	3.46	3.38	3.21	3.21	3.12	3.04	2.96	2.87
270.0	3.80	3.63	3.55	3.38	3.29	3.21	3.12	2.96	2.87
315.0	4.39	4.22	4.05	3.97	3.80	3.72	3.46	3.29	3.04
360.0	3.38	3.38	3.38	3.38	3.29	3.21	3.12	3.04	2.96
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.70	2.53	2.45	2.36	2.28	2.20	2.20	2.20	2.11
45.0	3.12	2.96	2.79	2.62	2.45	2.28	2.28	2.20	2.11
90.0	3.12	2.96	2.79	2.70	2.62	2.45	2.45	2.36	2.28
135.0	3.80	3.63	3.38	3.12	2.87	2.62	2.36	2.28	2.20
180.0	2.96	2.87	2.79	2.70	2.53	2.45	2.36	2.28	2.20
225.0	2.79	2.62	2.45	2.28	2.20	2.11	2.03	2.03	1.94
270.0	2.79	2.70	2.62	2.45	2.36	2.28	2.20	2.11	2.11
315.0	2.79	2.45	2.36	2.28	2.20	2.11	2.11	2.03	1.94
360.0	2.70	2.53	2.45	2.36	2.28	2.20	2.20	2.20	2.11
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.03	1.94	1.94	1.86	1.86	1.60	1.52	1.52	1.44
45.0	2.03	2.03	1.94	1.94	1.86	1.77	1.60	1.52	1.52
90.0	2.20	2.20	2.11	1.94	1.86	1.69	1.69	1.52	1.44
135.0	2.20	2.11	2.03	1.94	1.94	1.77	1.69	1.60	1.60
180.0	2.20	2.11	2.11	2.03	1.94	1.86	1.77	1.77	1.69
225.0	1.94	1.86	1.77	1.77	1.60	1.60	1.60	1.52	1.44
270.0	2.03	1.94	1.86	1.77	1.69	1.60	1.52	1.52	1.44
315.0	1.94	1.86	1.86	1.77	1.52	1.52	1.52	1.44	1.44
360.0	2.03	1.94	1.94	1.86	1.86	1.60	1.52	1.52	1.44

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	1.44
45.0	1.44
90.0	1.44
135.0	1.52
180.0	1.44
225.0	1.44
270.0	1.44
315.0	1.44
360.0	1.44