Luminaire Property

Luminaire: RH-CL0321 6W 2700K

Report NO.:
Test NO.:
Lamp:
Sum Lumens: 522.72 lm
Number of Lamps: 1
Diameter: 88mm
Length: mm
Photometric Type: Type C

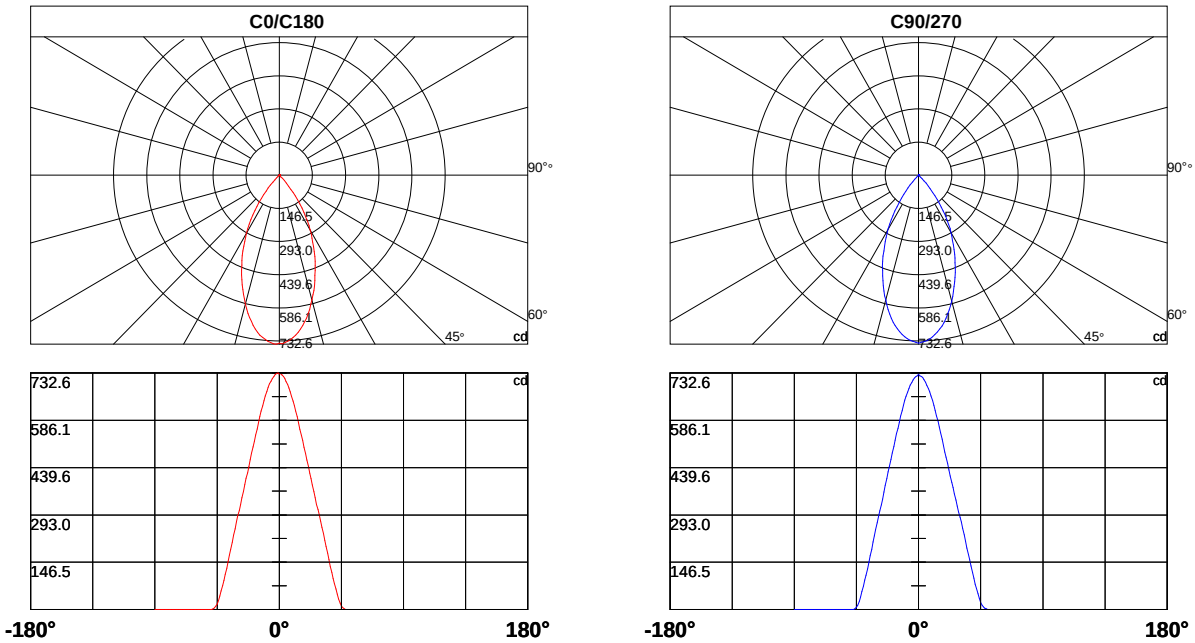
Voltage: 220.4 V
Current: 0.029 A
Power: 6.1 W
Power Factor: 0.931
Ballast Type:
Width: 88mm
Height: 32mm
Remark: CREE 1507

Photometric Results

Lumens: 522.72 lm
Efficiency: 85.6918 lm/W
Central Intensity: 729.109cd
Maximum Intensity: 732.637cd

Beam Angle(10%): Left: -41.4 Right:40.1

Angle of maximum intensity: C:135.0 G:1.0
Half Peak Side Angle(50%): Left: -26.0 Right:25.0
Light Out Rate(LOR) : 100.00%
Up Flux Rate: 0.0%
Down Flux Rate: 100.0%



Photometric Data Table [cd]

C\G	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
0.0	729.1	731.1	727.1	721.8	715.6	706.1	697.1	686.4	674.4	660.4
45.0	729.1	724.5	722.0	718.4	712.3	703.7	694.6	684.5	674.3	661.8
90.0	729.1	724.5	722.0	718.4	712.3	703.7	694.6	684.5	674.3	661.8
135.0	729.1	732.6	731.3	727.5	722.1	715.2	707.3	699.2	687.9	675.5
180.0	729.1	732.6	731.3	727.5	722.1	715.2	707.3	699.2	687.9	675.5
225.0	729.1	723.9	720.8	717.0	711.4	703.4	695.2	684.0	673.2	660.6
270.0	729.1	723.9	720.8	717.0	711.4	703.4	695.2	684.0	673.2	660.6
315.0	729.1	731.1	727.1	721.8	715.6	706.1	697.1	686.4	674.4	660.4
360.0	729.1	731.1	727.1	721.8	715.6	706.1	697.1	686.4	674.4	660.4

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	645.9	632.1	614.4	596.7	578.2	558.7	539.7	523.5	503.1	483.2
45.0	648.0	632.7	616.2	599.6	583.7	565.2	547.3	527.8	508.1	488.3
90.0	648.0	632.7	616.2	599.6	583.7	565.2	547.3	527.8	508.1	488.3
135.0	661.3	646.3	630.5	615.3	597.9	579.0	559.1	540.6	521.0	503.8
180.0	661.3	646.3	630.5	615.3	597.9	579.0	559.1	540.6	521.0	503.8
225.0	648.1	632.5	615.7	599.0	579.2	561.1	544.6	524.9	504.6	484.8
270.0	648.1	632.5	615.7	599.0	579.2	561.1	544.6	524.9	504.6	484.8
315.0	645.9	632.1	614.4	596.7	578.2	558.7	539.7	523.5	503.1	483.2
360.0	645.9	632.1	614.4	596.7	578.2	558.7	539.7	523.5	503.1	483.2

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	462.7	442.7	422.6	405.6	385.5	365.3	345.8	325.1	309.1	292.3
45.0	471.7	451.9	432.4	413.5	393.7	377.8	358.3	339.6	320.6	302.2
90.0	471.7	451.9	432.4	413.5	393.7	377.8	358.3	339.6	320.6	302.2
135.0	483.8	464.3	443.8	423.8	406.1	386.8	366.2	345.8	325.7	306.7
180.0	483.8	464.3	443.8	423.8	406.1	386.8	366.2	345.8	325.7	306.7
225.0	464.6	443.3	426.6	405.6	384.8	363.3	342.2	324.0	305.3	287.5
270.0	464.6	443.3	426.6	405.6	384.8	363.3	342.2	324.0	305.3	287.5
315.0	462.7	442.7	422.6	405.6	385.5	365.3	345.8	325.1	309.1	292.3
360.0	462.7	442.7	422.6	405.6	385.5	365.3	345.8	325.1	309.1	292.3

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	273.9	255.2	234.9	214.4	195.9	174.7	154.9	134.1	114.7	96.3
45.0	285.7	270.8	251.1	231.2	211.2	190.3	170.6	153.1	134.5	114.2
90.0	285.7	270.8	251.1	231.2	211.2	190.3	170.6	153.1	134.5	114.2
135.0	290.9	271.7	250.3	229.7	208.6	186.9	168.5	148.7	128.1	109.1
180.0	290.9	271.7	250.3	229.7	208.6	186.9	168.5	148.7	128.1	109.1
225.0	268.9	248.4	227.5	209.1	186.7	166.8	145.5	125.8	106.1	91.0
270.0	268.9	248.4	227.5	209.1	186.7	166.8	145.5	125.8	106.1	91.0
315.0	273.9	255.2	234.9	214.4	195.9	174.7	154.9	134.1	114.7	96.3
360.0	273.9	255.2	234.9	214.4	195.9	174.7	154.9	134.1	114.7	96.3

Photometric Data Table [cd]

C\G	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	80.5	63.7	47.4	32.5	20.1	11.0	5.9	2.4	0.0	0.0
45.0	97.5	78.2	65.4	48.2	34.0	21.5	13.0	7.7	4.1	1.5
90.0	97.5	78.2	65.4	48.2	34.0	21.5	13.0	7.7	4.1	1.5
135.0	90.1	74.3	57.8	41.3	27.8	17.3	9.7	5.4	2.2	0.0
180.0	90.1	74.3	57.8	41.3	27.8	17.3	9.7	5.4	2.2	0.0
225.0	72.5	55.6	38.9	24.7	13.3	7.5	2.7	0.0	0.0	0.0
270.0	72.5	55.6	38.9	24.7	13.3	7.5	2.7	0.0	0.0	0.0
315.0	80.5	63.7	47.4	32.5	20.1	11.0	5.9	2.4	0.0	0.0
360.0	80.5	63.7	47.4	32.5	20.1	11.0	5.9	2.4	0.0	0.0

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
225.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
225.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

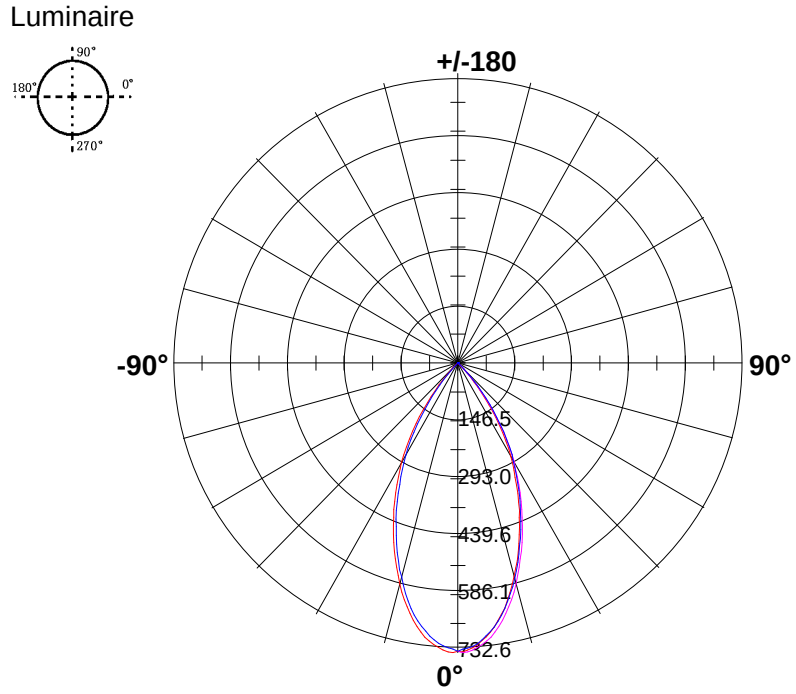
C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
225.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

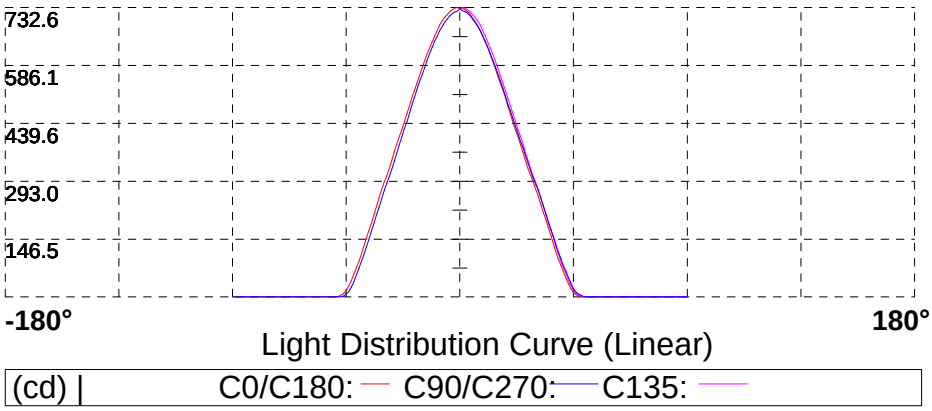
Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
225.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C\G	90.0
0.0	0.0
45.0	0.0
90.0	0.0
135.0	0.0
180.0	0.0
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

Light Distribution Curve [Unit: cd]

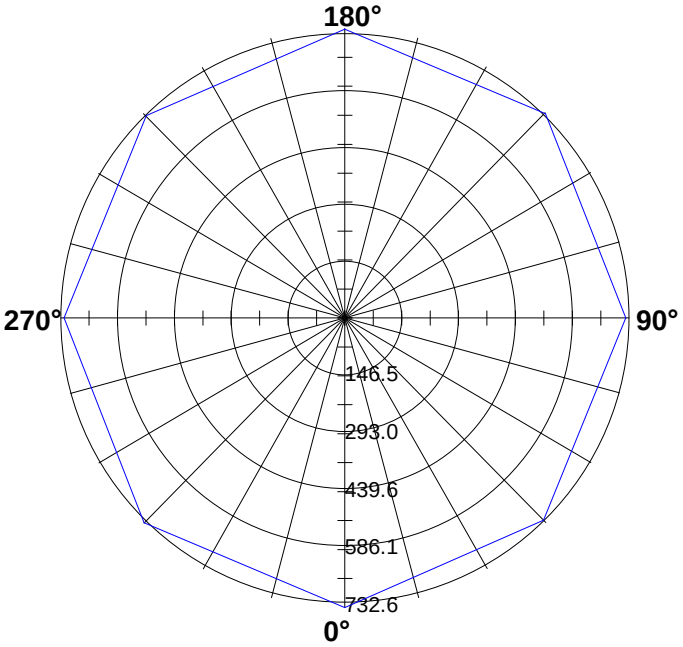


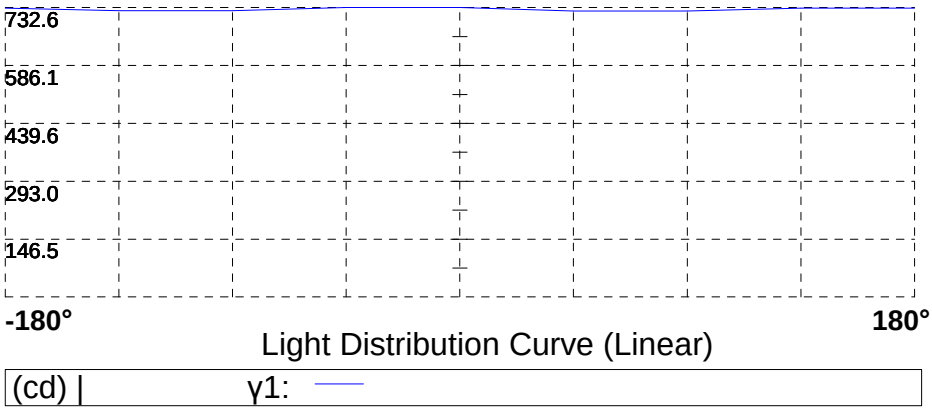


Light Distribution Curve (Linear)

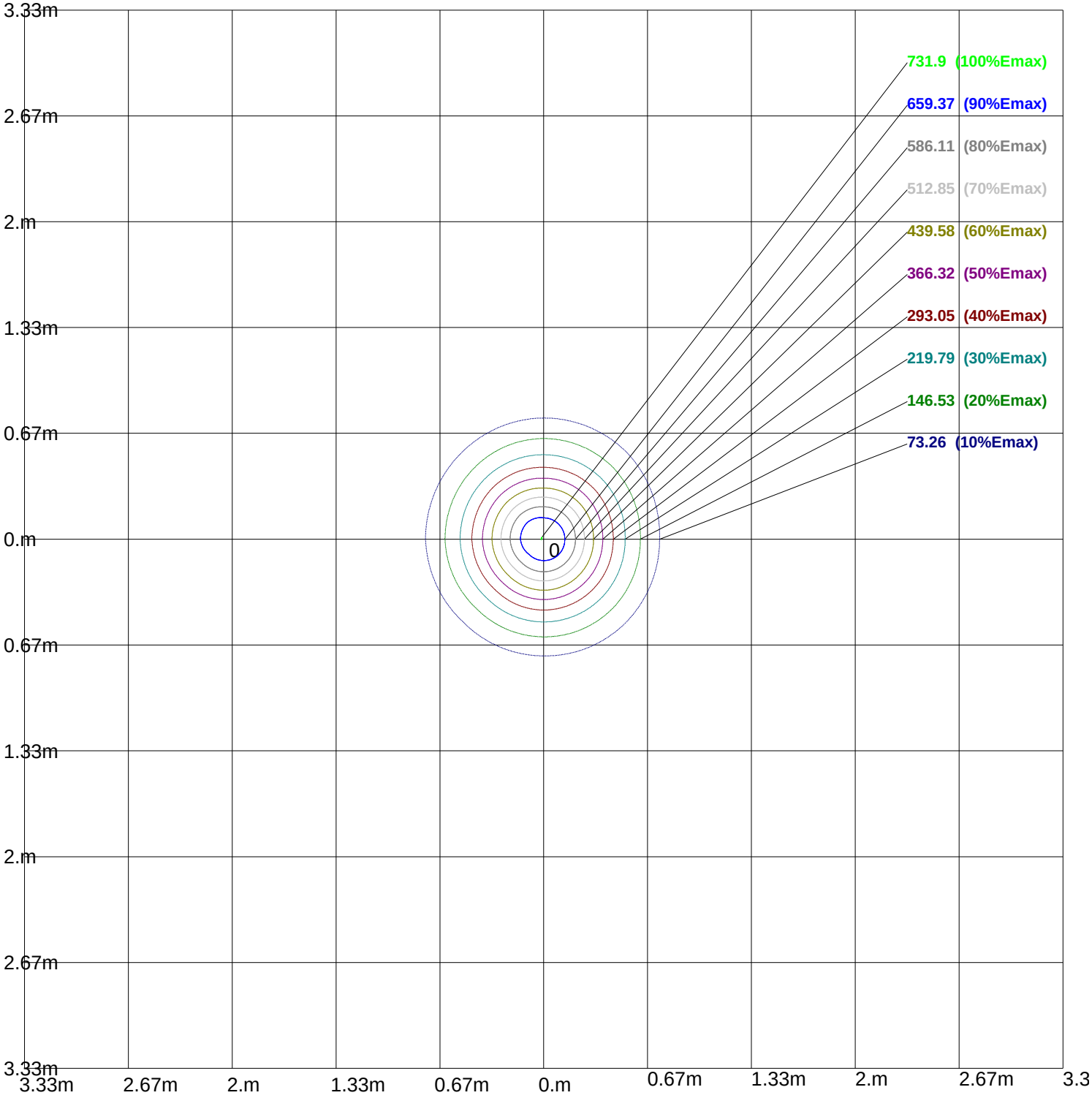
(cd) | C0/C180: C90/C270: C135:

Max Plane Light Distribution Curve [Unit: cd]





Iso-Lux[lx]



Height: 1 m
Max Illuminance : 732.64lx

Luminance Limitting Curve

Diameter: 88mm

Length: mm

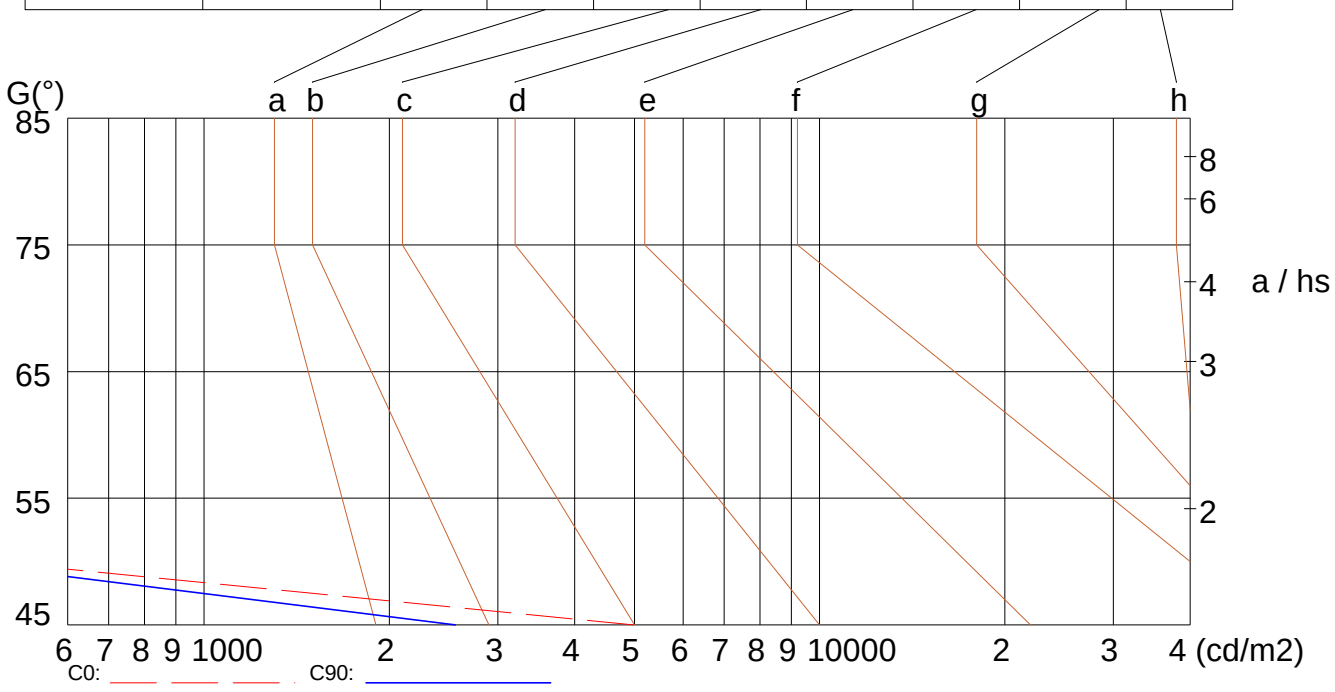
Width: 88mm

Height: 32mm

(cd/m2)

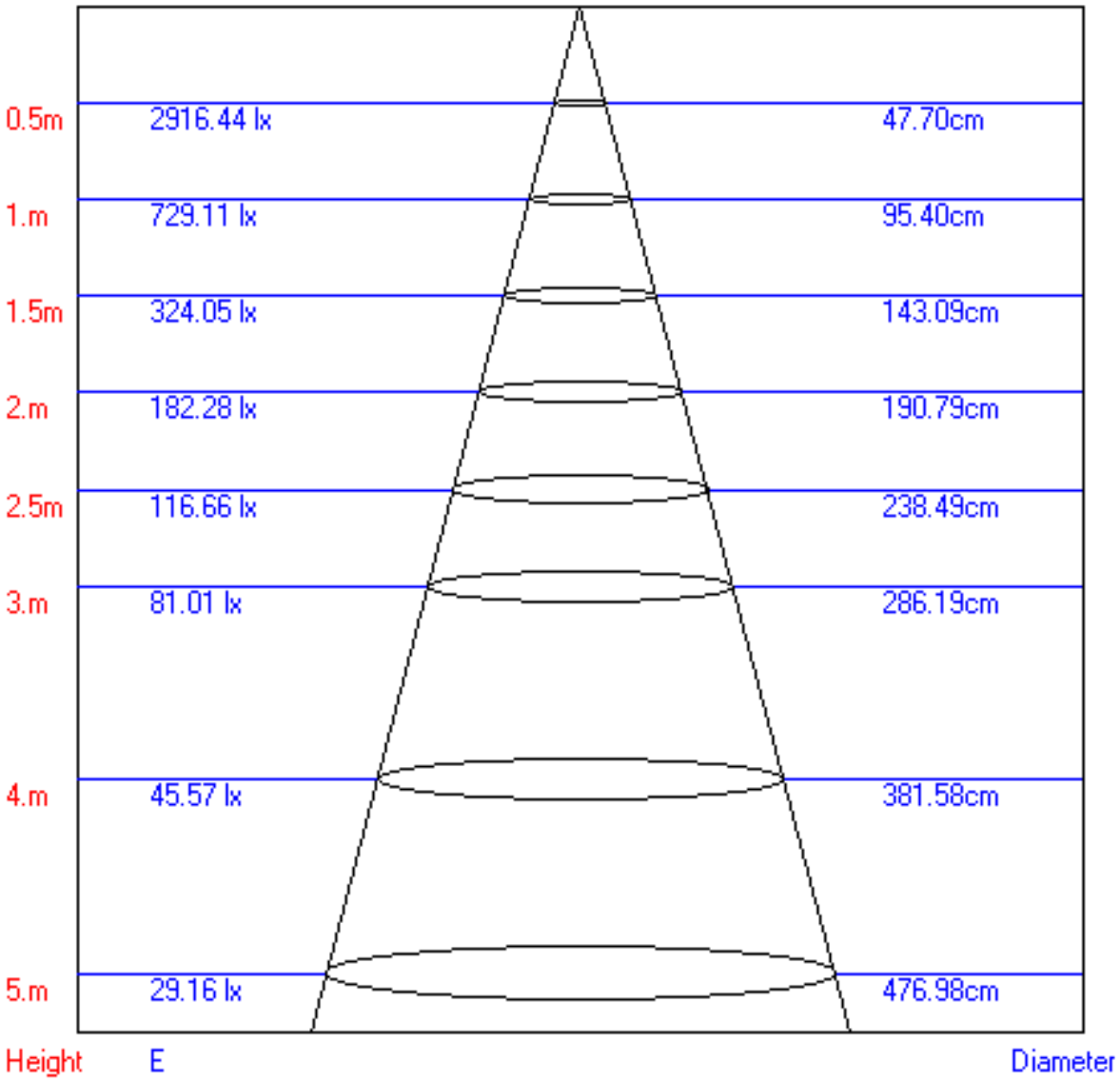
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	4978								
C90	2560								

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



Lum. Limitting Curve (C0/C90)

Lux-Distance Curve



Beam Angle:51.00°

Utilization Coefficient Table

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 FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.14	1.13	1.13	1.12	1.11	1.08	1.07	1.06	1.03	1.02	1.01	0.96	0.94	0.93	0.88
2	1.08	1.07	1.06	1.06	1.05	1.04	1.02	1.00	0.99	0.97	0.95	0.94	0.91	0.89	0.87	0.83
3	1.01	1.00	0.99	1.00	0.98	0.97	0.96	0.94	0.92	0.92	0.90	0.87	0.87	0.84	0.82	0.77
4	0.95	0.93	0.92	0.94	0.92	0.90	0.91	0.88	0.86	0.87	0.84	0.82	0.83	0.80	0.77	0.73
5	0.89	0.88	0.87	0.88	0.86	0.85	0.86	0.83	0.81	0.83	0.79	0.77	0.79	0.75	0.72	0.68
6	0.84	0.82	0.81	0.83	0.81	0.80	0.81	0.78	0.76	0.78	0.75	0.72	0.75	0.71	0.68	0.64
7	0.79	0.77	0.77	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.68	0.71	0.67	0.64	0.60
8	0.75	0.73	0.72	0.74	0.72	0.70	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57
9	0.70	0.69	0.68	0.70	0.68	0.66	0.68	0.65	0.63	0.67	0.63	0.60	0.65	0.60	0.57	0.53
10	0.67	0.65	0.64	0.66	0.64	0.63	0.65	0.62	0.60	0.63	0.60	0.57	0.62	0.57	0.54	0.51

Budgetary Estimate Chart			
Light Flux	522.72 lmlm		
Maintenance	0.8/0.8		
Aver E	200lx		
Work Plane H	0		
Place Name	Cel	Wall	Floor
Reflect1	0.7	0.5	0.2
Reflect2	0.5	0.3	0.2

