

## Luminaire Property

Luminaire: 140-075

Report NO.:

Test NO.:

Lamp: CREE XP-G2 3000K

Sum Lumens: 920 lm

Number of Lamps: 8

Diameter: 200mm

Length: mm

Photometric Type: Type C

Voltage: 220.3 V

Current: 0.092 A

Power: 19.1 W

Power Factor: 0.943

Ballast Type: KEDW018S0700NR26

Width: 200mm

Height: mm

Remark:

## Photometric Results

Lumens: 590.50 lm

Efficiency: 30.4381 lm/W

Central Intensity: 297.591cd

Maximum Intensity: 784.63cd

Beam Angle(10%): Left: -31.4 Right:49.7

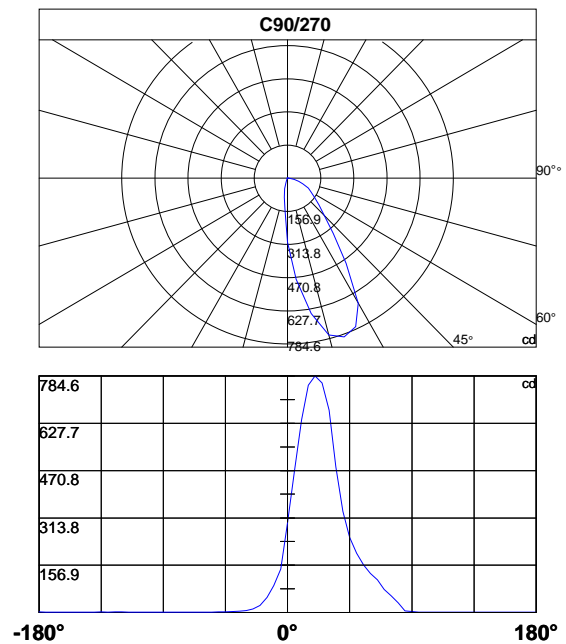
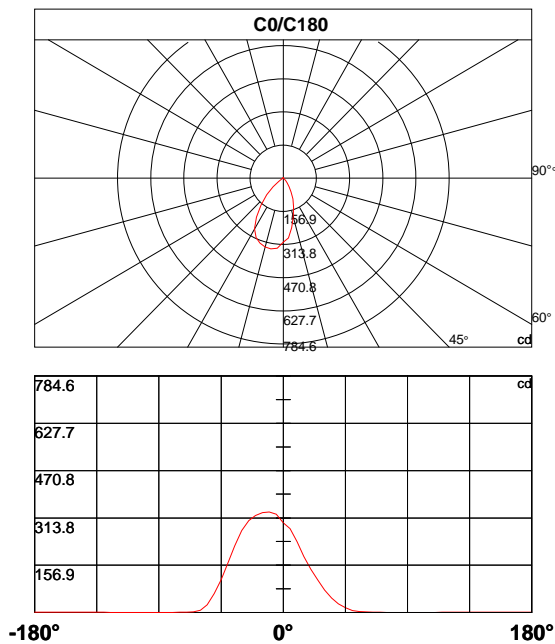
Angle of maximum intensity: C:90.0 G:20.0

Half Peak Side Angle(50%): Left: -38.1 Right:18.1

Light Out Rate(LOR) : 64.1848%

Up Flux Rate: 0.73%

Down Flux Rate: 99.27%



**Photometric Data Table [cd]**

C\G	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
0.0	297.6	278.3	234.4	186.0	143.6	106.9	74.1	48.1	29.1	15.4
45.0	297.6	419.7	509.7	586.4	664.1	690.1	652.5	539.3	400.5	267.0
90.0	297.6	471.5	638.9	754.4	784.6	761.3	670.7	482.8	335.5	249.4
135.0	297.6	433.9	554.3	671.2	718.5	709.2	643.8	505.7	364.0	251.1
180.0	297.6	326.3	333.1	331.3	321.7	305.0	271.5	220.8	164.2	109.5
225.0	297.6	187.8	109.6	60.7	30.1	11.9	5.9	3.7	2.3	1.8
270.0	297.6	144.6	89.4	50.0	22.9	11.8	6.5	4.1	3.3	2.6
315.0	297.6	166.1	101.8	62.6	31.6	11.8	6.1	3.3	2.7	2.0
360.0	297.6	278.3	234.4	186.0	143.6	106.9	74.1	48.1	29.1	15.4

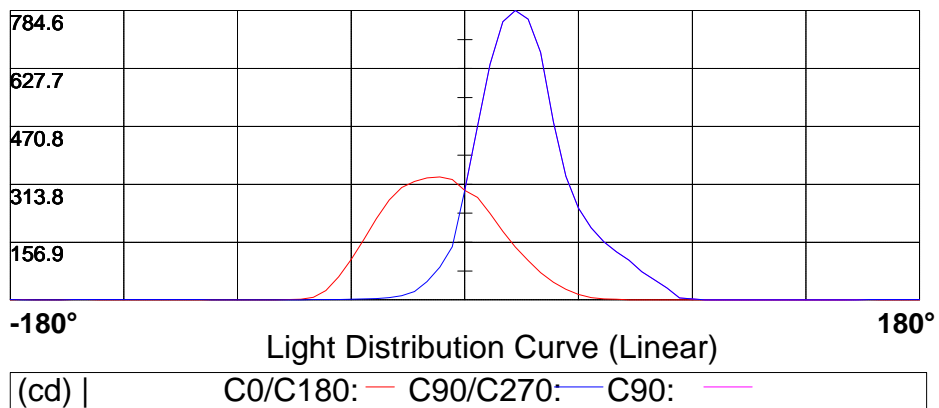
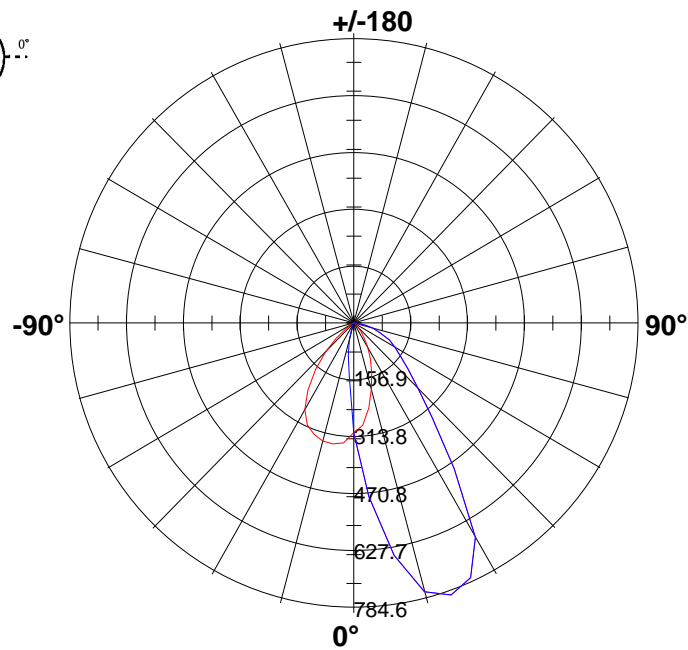
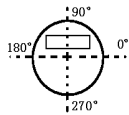
C\G	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0
0.0	6.6	3.0	1.8	0.9	0.5	0.5	0.3	0.1	0.1	0.4
45.0	163.8	97.7	56.5	29.5	13.5	6.2	2.3	1.4	0.5	0.3
90.0	195.7	157.5	130.1	107.7	76.8	55.2	32.3	5.6	3.1	0.7
135.0	170.6	115.0	76.3	49.3	27.1	11.9	5.9	1.4	1.0	0.6
180.0	62.8	25.4	7.1	2.3	1.0	0.8	0.5	0.2	0.3	0.3
225.0	1.3	1.1	0.9	0.7	0.5	0.5	0.5	0.3	0.3	0.4
270.0	1.6	1.2	1.0	0.8	0.7	0.7	0.7	0.7	0.8	0.8
315.0	1.8	1.3	1.1	0.8	0.5	0.6	0.6	0.4	0.4	0.4
360.0	6.6	3.0	1.8	0.9	0.5	0.5	0.3	0.1	0.1	0.4

C\G	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0
0.0	0.4	0.3	0.4	0.8	0.7	0.6	0.7	0.8	1.0	0.9
45.0	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.7	0.7
90.0	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7
135.0	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5
180.0	0.4	0.2	0.2	0.3	0.3	0.3	0.5	0.5	0.5	0.6
225.0	0.4	0.5	0.6	0.7	0.8	0.8	0.9	0.9	1.0	1.1
270.0	1.0	1.1	1.2	1.4	1.4	1.5	1.3	1.5	1.3	1.3
315.0	0.4	0.5	0.6	0.8	1.0	1.0	1.4	1.2	1.1	1.1
360.0	0.4	0.3	0.4	0.8	0.7	0.6	0.7	0.8	1.0	0.9

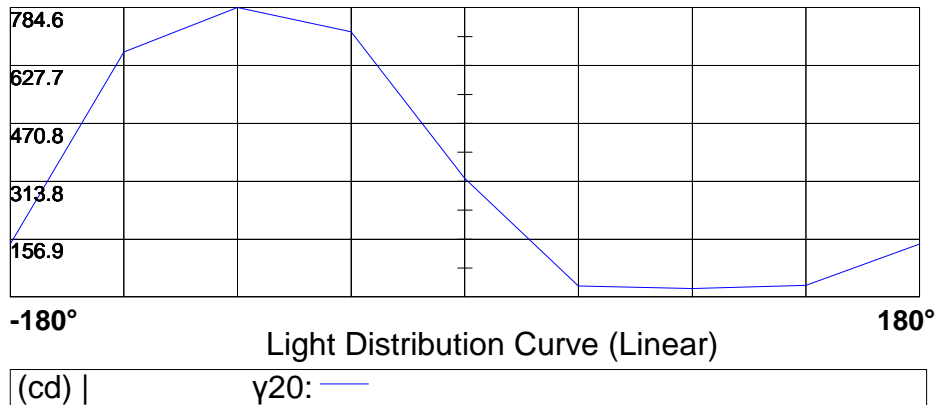
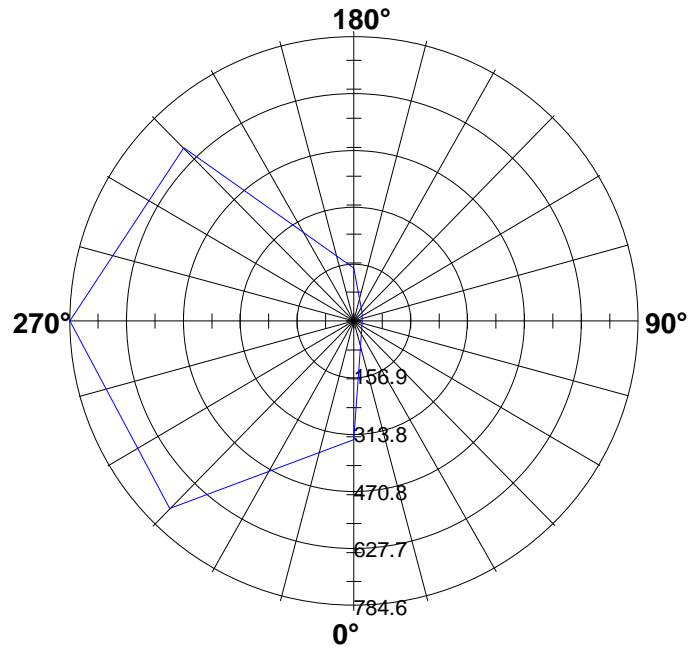
C\G	150.0	155.0	160.0	165.0	170.0	175.0	180.0
0.0	0.9	1.0	1.1	0.9	0.9	0.9	0.9
45.0	0.7	0.9	1.1	1.3	1.1	1.0	1.3
90.0	0.6	0.9	1.0	1.2	1.4	1.3	1.1
135.0	0.7	0.8	0.9	1.0	1.1	1.1	1.0
180.0	1.1	1.1	0.8	0.8	0.9	1.0	0.9
225.0	1.2	1.1	0.9	1.1	1.1	1.0	0.9
270.0	1.1	1.0	1.0	0.9	0.9	0.9	1.5
315.0	1.0	0.9	1.0	1.0	1.1	1.0	1.0
360.0	0.9	1.0	1.1	0.9	0.9	0.9	0.9

### Light Distribution Curve [Unit: cd]

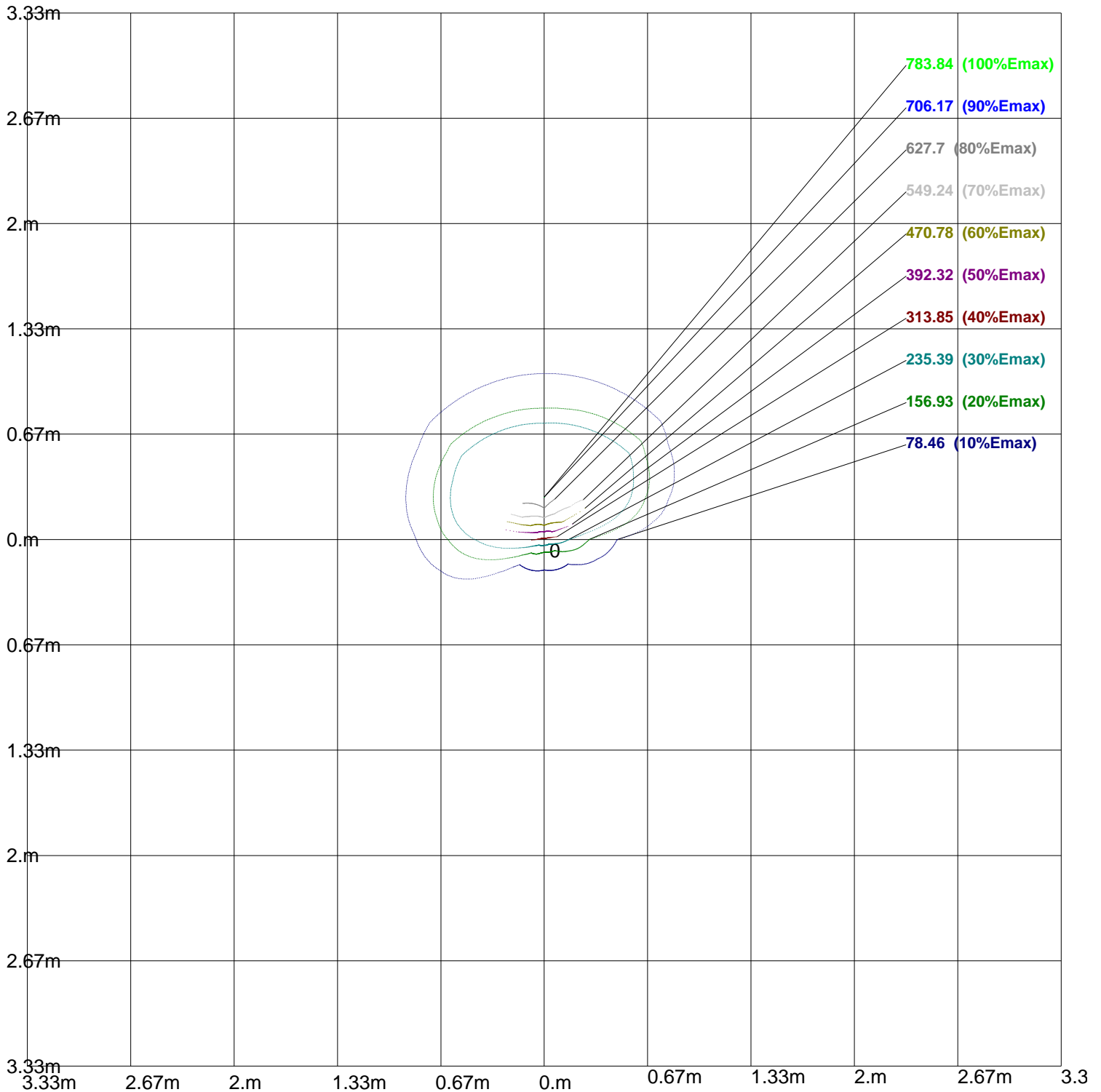
Luminaire



**Max Plane Light Distribution Curve [Unit: cd]**



### Iso-Lux[lx]



Height: 1 m  
Max Illuminance : 784.63lx

## Luminance Limiting Curve

Diameter: 200mm

Length: mm

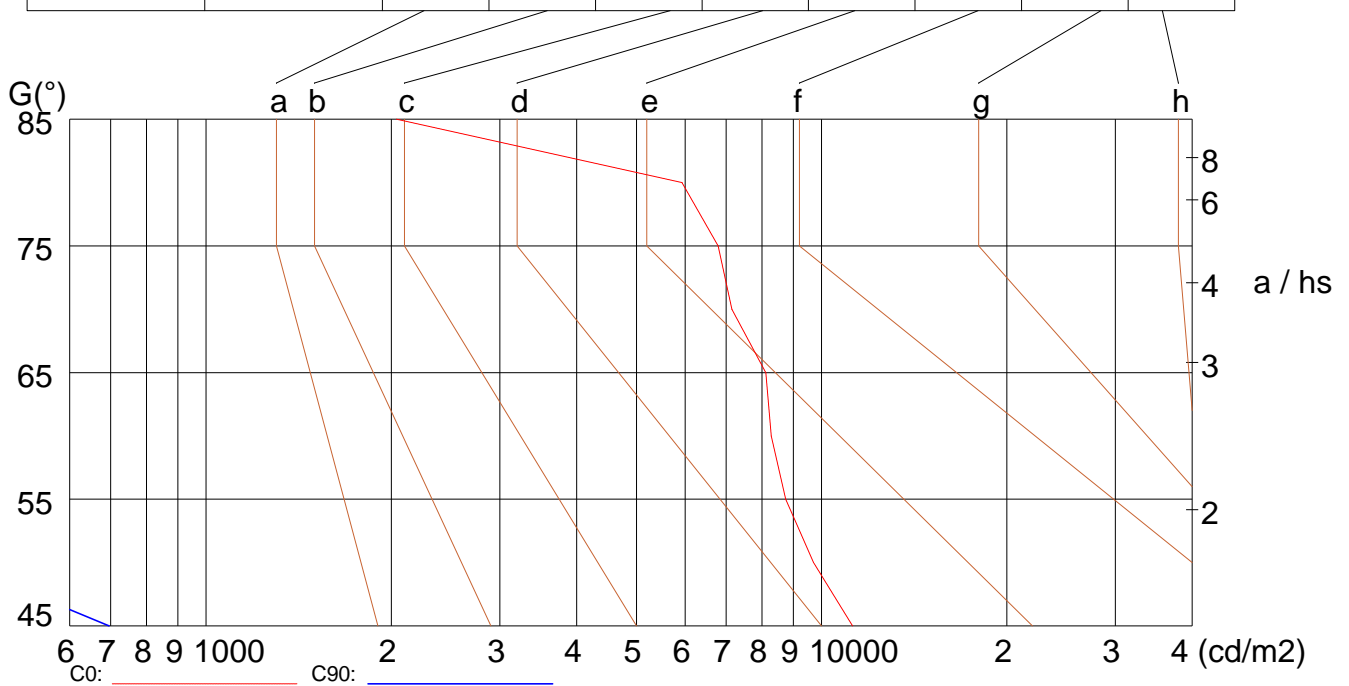
Width: 200mm

Height: mm

(cd/m<sup>2</sup>)

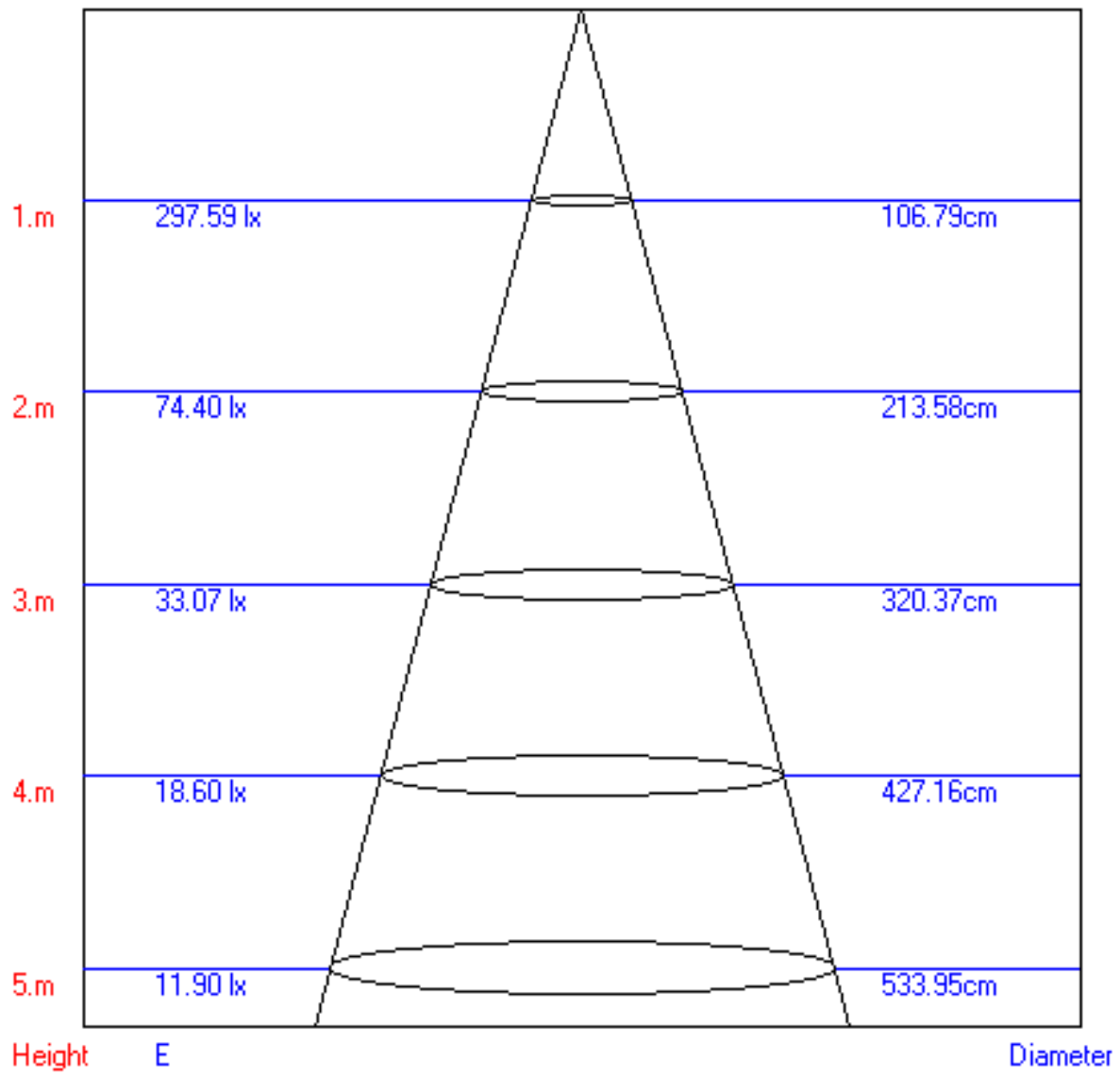
$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	11232	9698	8744	8286	8114	7152	6787	5931	2039
C90	695	328	169	115	70	50	62	55	37

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. Limiting Curve (C0/C90)

### Lux-Distance Curve



Beam Angle:56.20°

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	COEFFICIENTS OF UTILIZATION FOR RHOF=20															
0	0.76	0.76	0.76	0.75	0.75	0.75	0.71	0.71	0.71	0.68	0.68	0.68	0.65	0.65	0.65	0.64
1	0.71	0.70	0.69	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.59	0.58	0.57	0.54
2	0.64	0.62	0.62	0.63	0.61	0.60	0.61	0.59	0.58	0.58	0.56	0.55	0.55	0.53	0.51	0.48
3	0.57	0.56	0.55	0.57	0.55	0.54	0.55	0.53	0.51	0.53	0.51	0.49	0.51	0.48	0.46	0.43
4	0.52	0.50	0.49	0.51	0.49	0.48	0.50	0.48	0.46	0.49	0.46	0.44	0.47	0.44	0.41	0.38
5	0.47	0.45	0.44	0.47	0.45	0.43	0.46	0.43	0.41	0.45	0.42	0.39	0.43	0.40	0.37	0.35
6	0.42	0.41	0.40	0.42	0.41	0.39	0.42	0.39	0.38	0.41	0.38	0.36	0.40	0.37	0.34	0.31
7	0.39	0.37	0.37	0.39	0.37	0.36	0.39	0.36	0.34	0.38	0.35	0.33	0.37	0.34	0.31	0.29
8	0.36	0.34	0.33	0.36	0.34	0.33	0.36	0.33	0.31	0.35	0.32	0.30	0.35	0.31	0.28	0.26
9	0.33	0.32	0.31	0.33	0.31	0.30	0.33	0.31	0.29	0.33	0.30	0.27	0.32	0.29	0.26	0.24
10	0.30	0.29	0.28	0.31	0.29	0.28	0.31	0.28	0.27	0.31	0.28	0.25	0.30	0.27	0.24	0.22



