

## Luminaire Property

Luminaire: RH-RUS18 9W+9W

Report NO.:

Test NO.:

Lamp:

Sum Lumens: 988.74 lm

Number of Lamps: 1

Diameter: 150 mm

Length: mm

Photometric Type: Type C

Voltage: 219.8 V

Current: 0.135 A

Power: 16.9 W

Power Factor: 0.567

Ballast Type:

Width: 150 mm

Height: 40mm

Remark:

## Photometric Results

Lumens: 988.74 lm

Efficiency: 58.5053 lm/W

Central Intensity: 590.022cd

Maximum Intensity: 596.548cd

Angle of maximum intensity: C:135.0 G:3.0

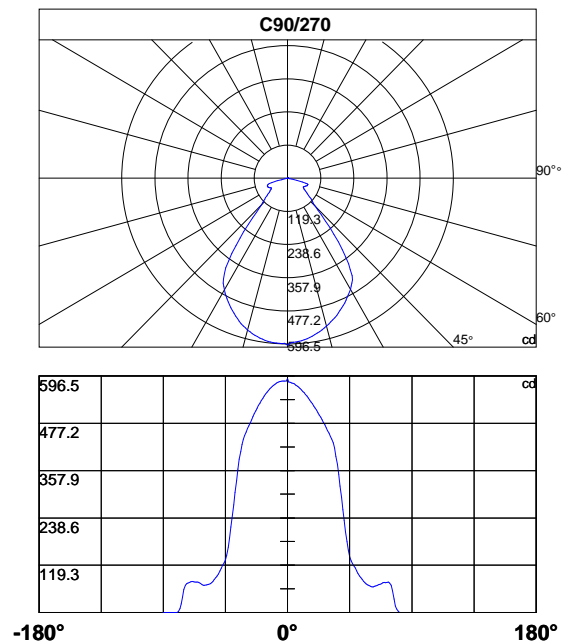
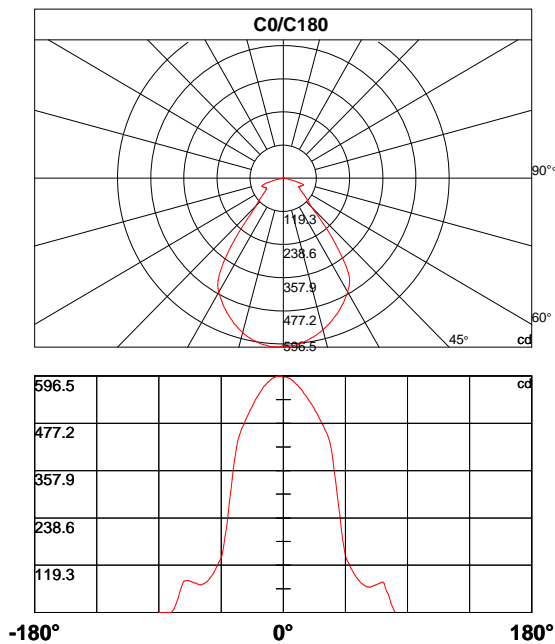
Half Peak Side Angle(50%): Left: -42.0 Right:35.3

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -77.2 Right:71.2



### 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	590.0	594.9	594.0	592.8	591.2	589.4	586.9	584.4	581.1	578.1
45.0	590.0	581.8	580.7	579.3	577.9	576.2	573.1	571.1	568.1	564.7
90.0	590.0	581.8	580.7	579.3	577.9	576.2	573.1	571.1	568.1	564.7
135.0	590.0	596.0	596.5	596.5	595.7	595.0	593.3	591.9	589.9	587.3
180.0	590.0	596.0	596.5	596.5	595.7	595.0	593.3	591.9	589.9	587.3
225.0	590.0	583.5	584.0	583.9	583.9	583.4	581.9	580.6	578.8	576.1
270.0	590.0	583.5	584.0	583.9	583.9	583.4	581.9	580.6	578.8	576.1
315.0	590.0	594.9	594.0	592.8	591.2	589.4	586.9	584.4	581.1	578.1
360.0	590.0	594.9	594.0	592.8	591.2	589.4	586.9	584.4	581.1	578.1

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	574.4	570.6	567.3	562.7	558.4	553.5	548.4	544.3	538.9	533.2
45.0	561.5	557.1	554.5	549.9	545.5	541.2	536.2	530.8	526.2	521.2
90.0	561.5	557.1	554.5	549.9	545.5	541.2	536.2	530.8	526.2	521.2
135.0	584.1	581.1	577.2	573.7	569.8	564.7	559.6	553.7	547.9	543.3
180.0	584.1	581.1	577.2	573.7	569.8	564.7	559.6	553.7	547.9	543.3
225.0	573.7	570.5	567.8	563.6	559.5	555.4	550.4	545.6	540.1	534.5
270.0	573.7	570.5	567.8	563.6	559.5	555.4	550.4	545.6	540.1	534.5
315.0	574.4	570.6	567.3	562.7	558.4	553.5	548.4	544.3	538.9	533.2
360.0	574.4	570.6	567.3	562.7	558.4	553.5	548.4	544.3	538.9	533.2

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	527.9	521.8	516.8	510.5	504.2	497.8	491.3	484.4	477.0	471.1
45.0	515.9	510.0	503.8	498.0	492.7	486.0	479.4	473.0	465.5	459.0
90.0	515.9	510.0	503.8	498.0	492.7	486.0	479.4	473.0	465.5	459.0
135.0	536.6	530.3	523.2	516.5	510.3	502.7	495.6	487.8	479.5	471.3
180.0	536.6	530.3	523.2	516.5	510.3	502.7	495.6	487.8	479.5	471.3
225.0	528.3	522.2	515.2	508.7	501.7	494.1	486.5	478.9	471.0	463.8
270.0	528.3	522.2	515.2	508.7	501.7	494.1	486.5	478.9	471.0	463.8
315.0	527.9	521.8	516.8	510.5	504.2	497.8	491.3	484.4	477.0	471.1
360.0	527.9	521.8	516.8	510.5	504.2	497.8	491.3	484.4	477.0	471.1

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	463.5	455.9	447.9	438.4	426.9	407.4	383.6	356.8	327.9	299.0
45.0	452.6	444.5	437.3	428.0	415.1	394.3	374.1	348.6	319.4	289.5
90.0	452.6	444.5	437.3	428.0	415.1	394.3	374.1	348.6	319.4	289.5
135.0	463.8	454.9	444.8	431.6	411.8	386.7	364.4	334.9	306.1	275.4
180.0	463.8	454.9	444.8	431.6	411.8	386.7	364.4	334.9	306.1	275.4
225.0	455.0	446.4	436.6	423.9	406.2	387.0	361.4	332.4	302.8	271.5
270.0	455.0	446.4	436.6	423.9	406.2	387.0	361.4	332.4	302.8	271.5
315.0	463.5	455.9	447.9	438.4	426.9	407.4	383.6	356.8	327.9	299.0
360.0	463.5	455.9	447.9	438.4	426.9	407.4	383.6	356.8	327.9	299.0

### 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	272.6	242.7	212.6	185.9	161.5	143.7	133.5	126.1	119.5	112.3
45.0	258.9	232.8	204.2	178.3	157.4	140.8	130.3	123.6	117.8	112.2
90.0	258.9	232.8	204.2	178.3	157.4	140.8	130.3	123.6	117.8	112.2
135.0	245.2	215.9	193.2	169.1	149.6	137.7	130.3	123.9	116.8	108.8
180.0	245.2	215.9	193.2	169.1	149.6	137.7	130.3	123.9	116.8	108.8
225.0	246.0	215.4	188.4	164.4	144.7	132.5	125.5	118.4	111.3	104.6
270.0	246.0	215.4	188.4	164.4	144.7	132.5	125.5	118.4	111.3	104.6
315.0	272.6	242.7	212.6	185.9	161.5	143.7	133.5	126.1	119.5	112.3
360.0	272.6	242.7	212.6	185.9	161.5	143.7	133.5	126.1	119.5	112.3

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	105.2	99.2	93.8	88.7	84.0	79.5	75.5	72.6	69.8	67.5
45.0	104.5	98.5	92.1	87.9	83.5	78.3	75.0	71.6	69.5	67.6
90.0	104.5	98.5	92.1	87.9	83.5	78.3	75.0	71.6	69.5	67.6
135.0	102.2	96.5	91.2	87.2	82.5	78.6	76.0	73.6	71.6	70.2
180.0	102.2	96.5	91.2	87.2	82.5	78.6	76.0	73.6	71.6	70.2
225.0	97.3	92.0	87.9	83.2	78.8	75.4	73.0	70.8	69.9	69.3
270.0	97.3	92.0	87.9	83.2	78.8	75.4	73.0	70.8	69.9	69.3
315.0	105.2	99.2	93.8	88.7	84.0	79.5	75.5	72.6	69.8	67.5
360.0	105.2	99.2	93.8	88.7	84.0	79.5	75.5	72.6	69.8	67.5

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	66.3	64.3	64.1	63.9	65.6	67.2	68.1	69.5	71.0	72.8
45.0	66.3	64.8	64.8	65.9	67.2	68.8	70.2	71.1	72.7	74.9
90.0	66.3	64.8	64.8	65.9	67.2	68.8	70.2	71.1	72.7	74.9
135.0	69.7	69.8	71.8	73.8	74.7	76.0	76.6	78.1	79.8	81.0
180.0	69.7	69.8	71.8	73.8	74.7	76.0	76.6	78.1	79.8	81.0
225.0	68.2	68.6	70.2	73.2	75.0	76.3	76.7	77.0	77.4	77.8
270.0	68.2	68.6	70.2	73.2	75.0	76.3	76.7	77.0	77.4	77.8
315.0	66.3	64.3	64.1	63.9	65.6	67.2	68.1	69.5	71.0	72.8
360.0	66.3	64.3	64.1	63.9	65.6	67.2	68.1	69.5	71.0	72.8

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	74.4	75.5	76.6	73.6	61.9	52.5	45.7	35.2	24.0	14.3
45.0	75.5	75.3	75.8	76.4	74.5	68.1	55.1	33.4	15.7	8.5
90.0	75.5	75.3	75.8	76.4	74.5	68.1	55.1	33.4	15.7	8.5
135.0	81.0	80.1	78.3	72.5	62.3	51.2	38.1	26.7	17.4	9.7
180.0	81.0	80.1	78.3	72.5	62.3	51.2	38.1	26.7	17.4	9.7
225.0	77.6	75.9	74.1	72.7	68.4	58.3	38.6	21.8	9.7	2.6
270.0	77.6	75.9	74.1	72.7	68.4	58.3	38.6	21.8	9.7	2.6
315.0	74.4	75.5	76.6	73.6	61.9	52.5	45.7	35.2	24.0	14.3
360.0	74.4	75.5	76.6	73.6	61.9	52.5	45.7	35.2	24.0	14.3

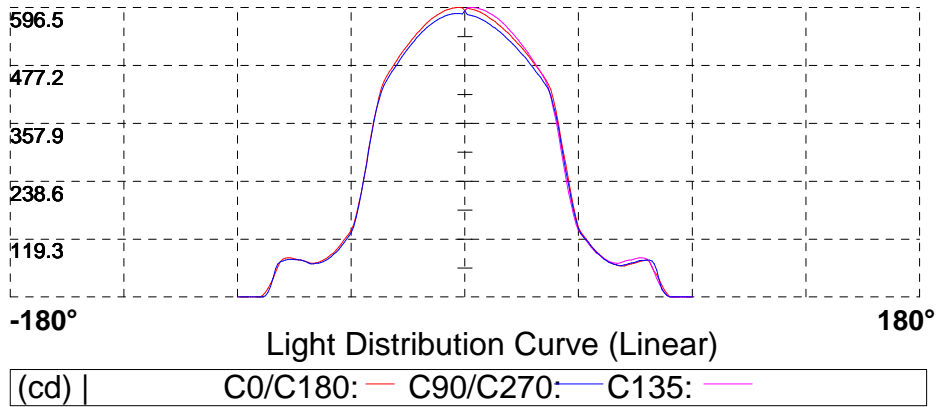
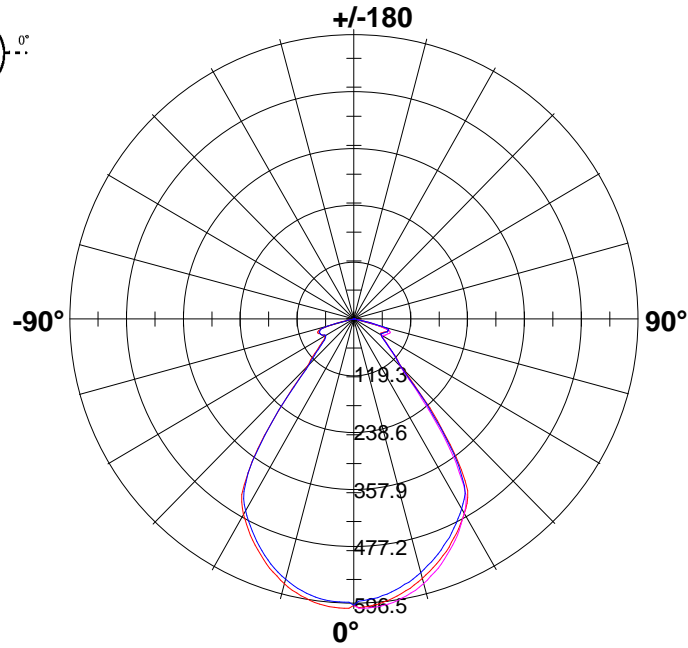
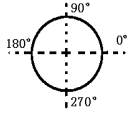
### Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	3.8	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	6.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	6.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

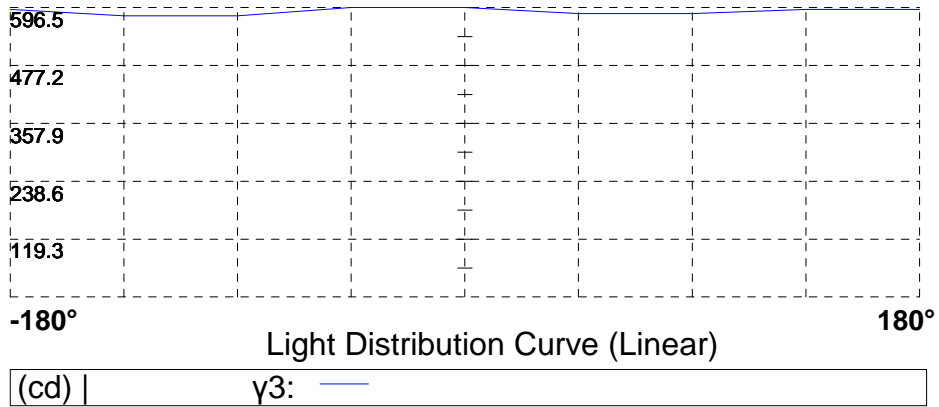
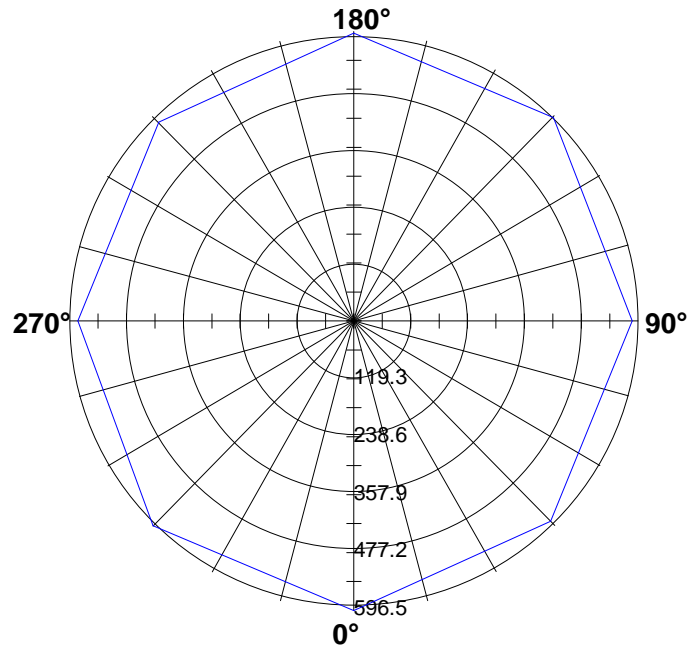
C\G	90.0
0.0	0.0
45.0	0.0
90.0	0.0
135.0	0.0
180.0	0.0
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

Light Distribution Curve [Unit: cd]

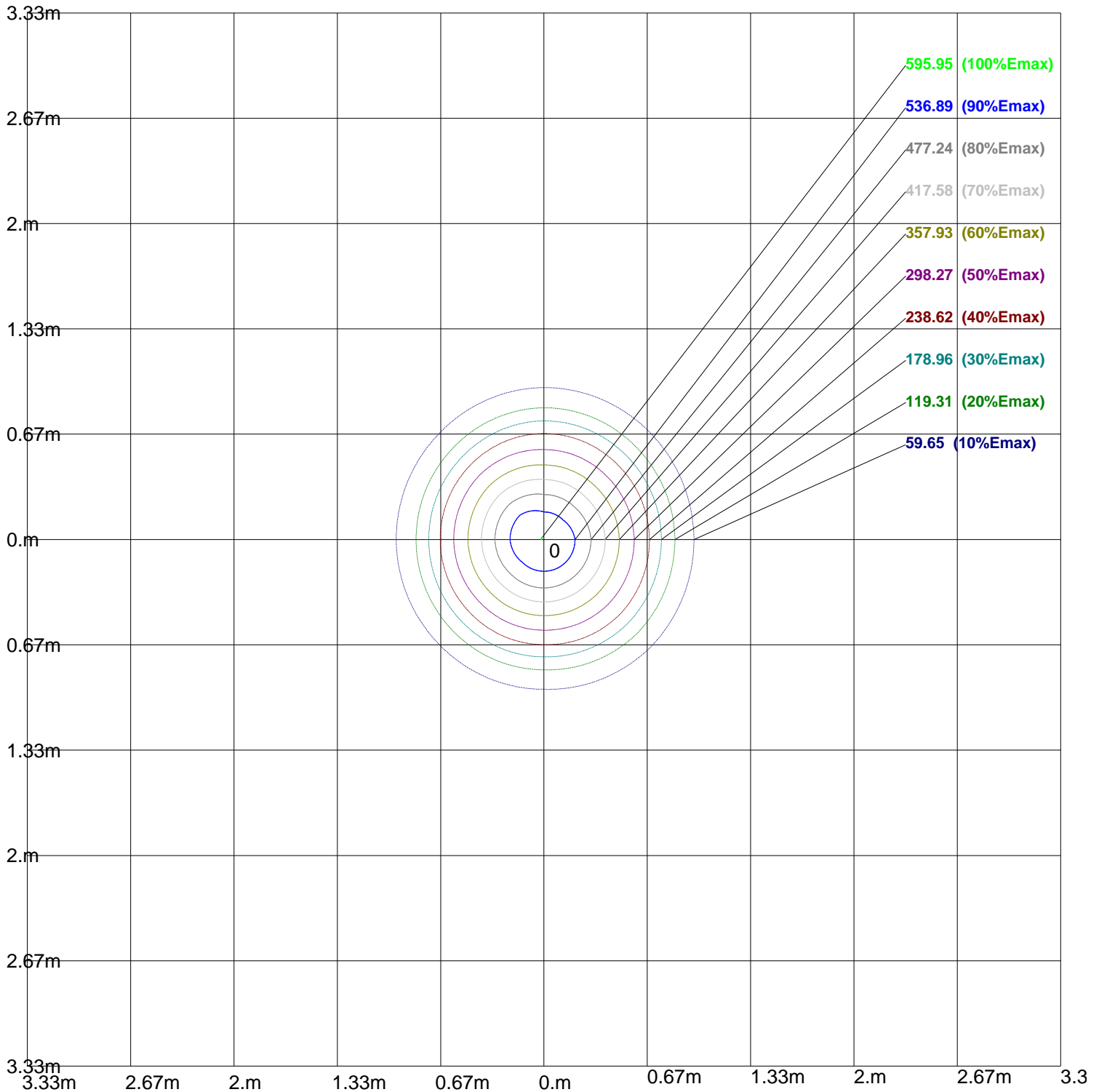
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



### Iso-Lux[lx]



Height: 1 m  
Max Illuminance : 596.55lx

## Luminance Limiting Curve

Diameter: 150 mm

Length: mm

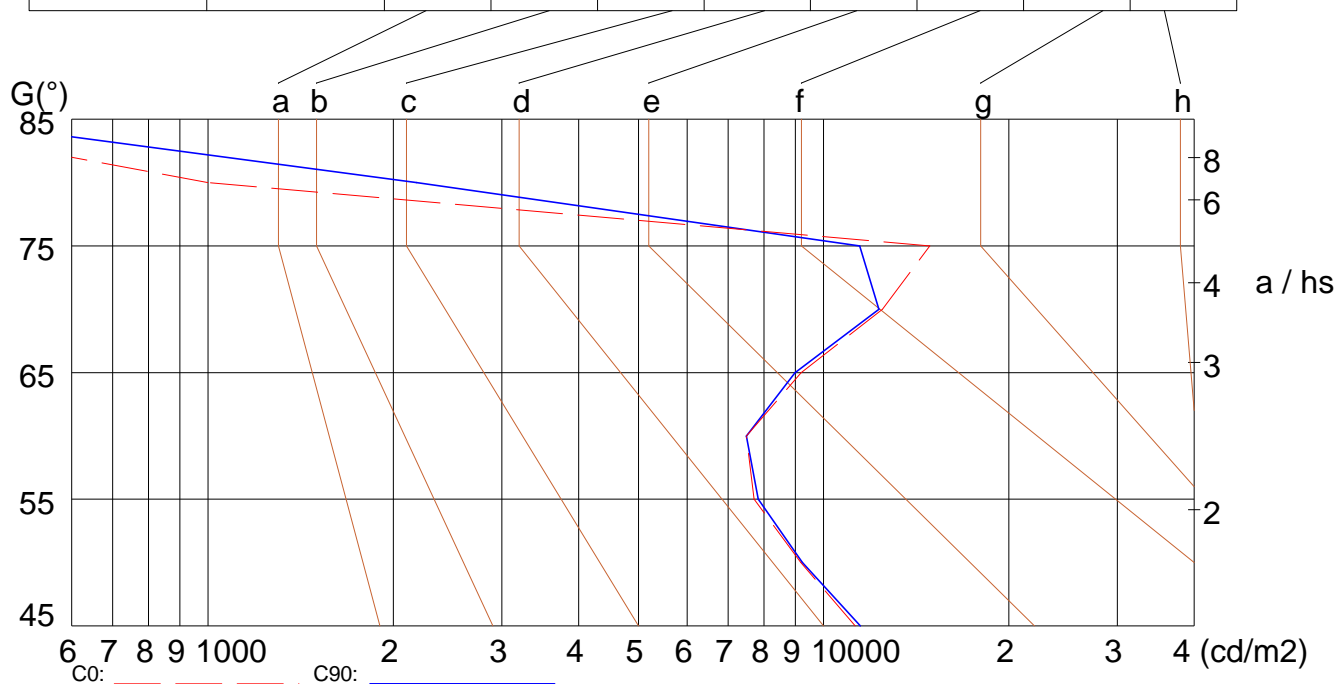
Width: 150 mm

Height: 40mm

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

$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	11253	9184	7709	7492	9192	12464	14876	998	
C90	11478	9243	7830	7486	8987	12296	11450	2179	

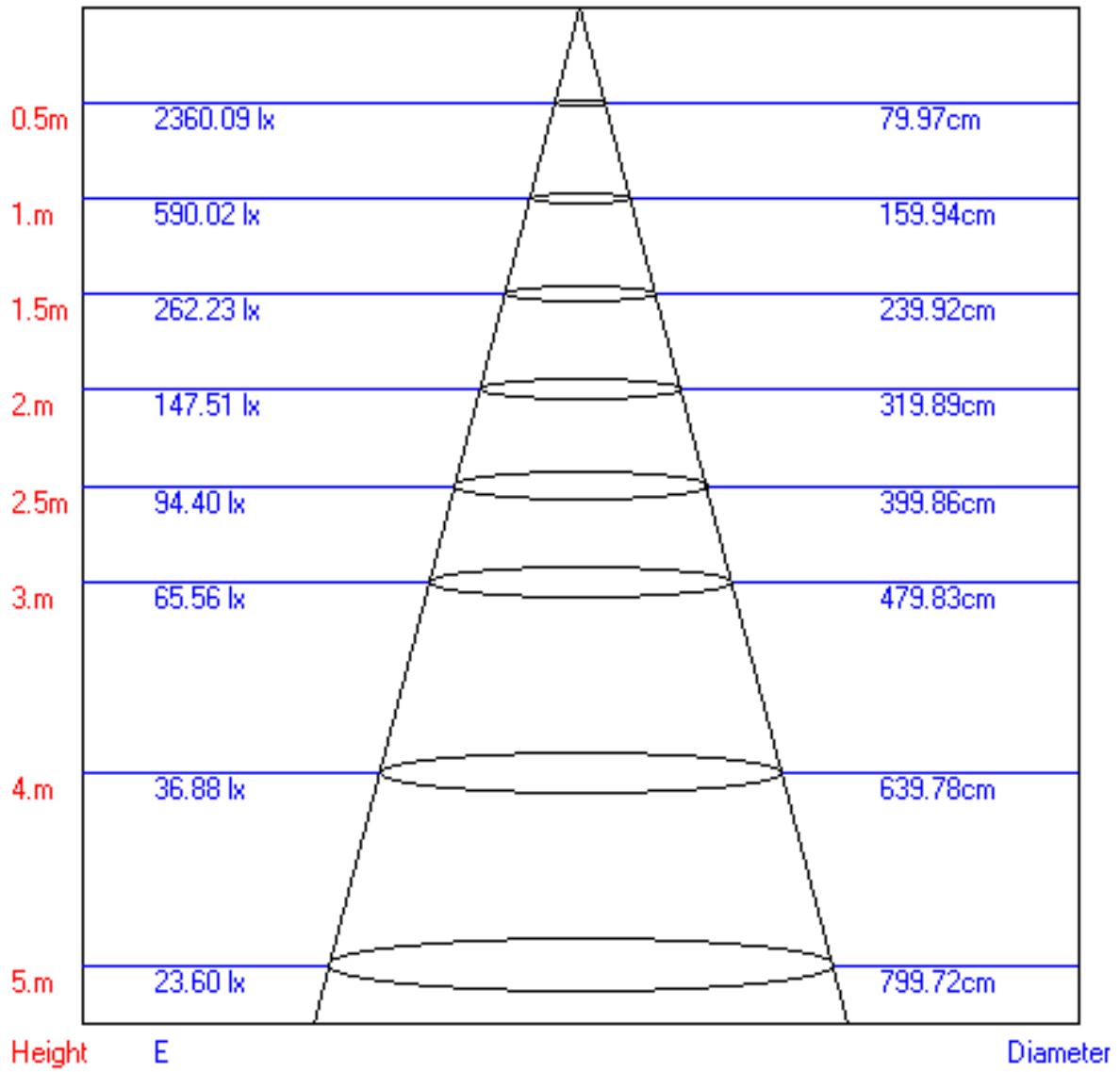
Glare	Quality	Service Values Illuminance (lx)							
1.15	A	2000	1000	500	≤300				
1.5	B		2000	1000	500	≤300			
1.85	C			2000	1000	500	≤300		
2.2	D				2000	1000	500	≤300	
2.55	E					2000	1000	500	≤300



Lum. Limiting Curve (C0/C90)



### Lux-Distance Curve



Beam Angle:77.30°

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 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	1.09	1.08	1.06	1.07	1.06	1.04	1.03	1.02	1.00	0.98	0.96	0.95	0.92	0.90	0.88	0.83
2	0.96	0.94	0.93	0.95	0.93	0.91	0.93	0.90	0.87	0.89	0.85	0.83	0.83	0.80	0.77	0.72
3	0.86	0.84	0.82	0.85	0.82	0.80	0.83	0.80	0.77	0.80	0.76	0.73	0.76	0.72	0.68	0.64
4	0.77	0.75	0.73	0.77	0.74	0.72	0.75	0.71	0.68	0.73	0.69	0.65	0.70	0.65	0.61	0.57
5	0.70	0.67	0.66	0.70	0.66	0.64	0.69	0.65	0.62	0.67	0.62	0.59	0.65	0.60	0.55	0.51
6	0.63	0.61	0.60	0.63	0.60	0.58	0.63	0.59	0.56	0.62	0.57	0.53	0.60	0.55	0.50	0.47
7	0.58	0.56	0.54	0.58	0.55	0.53	0.58	0.54	0.51	0.57	0.52	0.48	0.56	0.50	0.46	0.42
8	0.53	0.51	0.50	0.53	0.50	0.49	0.54	0.49	0.46	0.53	0.48	0.44	0.52	0.46	0.42	0.39
9	0.49	0.47	0.46	0.49	0.46	0.45	0.50	0.46	0.43	0.50	0.44	0.41	0.49	0.43	0.39	0.36
10	0.45	0.43	0.42	0.46	0.43	0.41	0.46	0.42	0.40	0.46	0.41	0.38	0.46	0.40	0.36	0.33

