

Luminaire Property

Luminaire: 140-074

Report NO.:

Test NO.:

Lamp: OSRAM SSL 150 3000K

Sum Lumens: 452 lm

Number of Lamps: 1

Diameter: 200mm

Length: mm

Photometric Type: Type C

Voltage: 220.9 V

Current: 0.05 A

Power: 10.6 W

Power Factor: 0.948

Ballast Type: KEDW009S0350NR25

Width: 200mm

Height: mm

Remark:

Photometric Results

Lumens: 347.27 lm

Efficiency: 32.4551 lm/W

Central Intensity: 241.702cd

Maximum Intensity: 364.987cd

Beam Angle(10%): Left: -38.9 Right:46.5

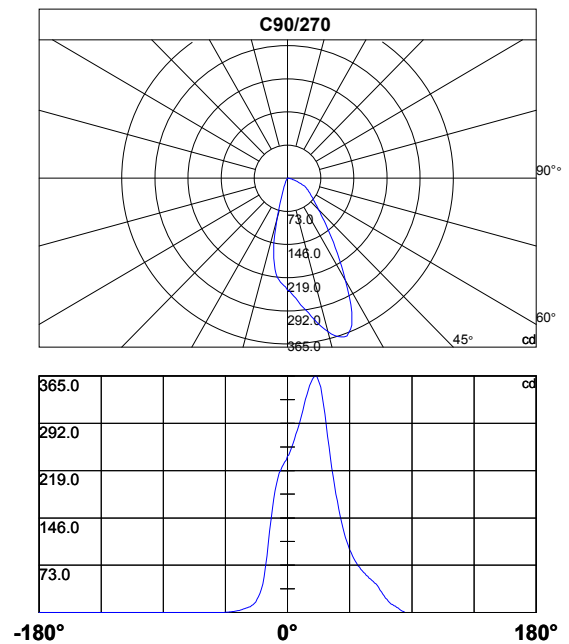
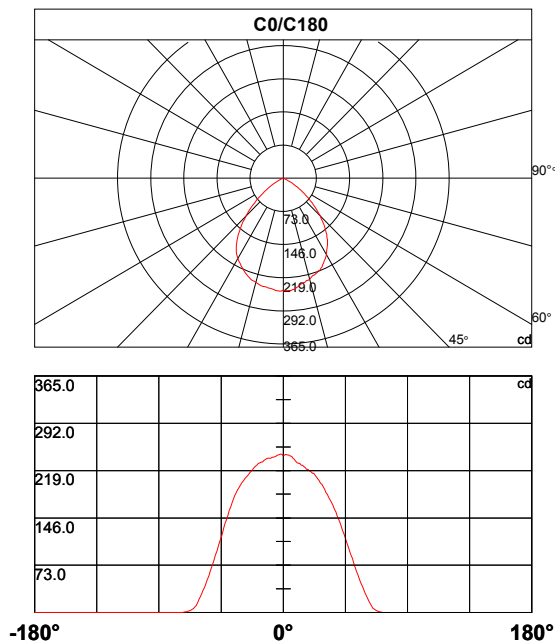
Angle of maximum intensity: C:90.0 G:20.0

Half Peak Side Angle(50%): Left: -29.4 Right:15.0

Light Out Rate(LOR) : 76.8296%

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	241.7	243.1	243.9	243.0	243.3	241.6	241.0	238.3	236.5	233.6
45.0	241.7	242.9	248.2	251.3	255.1	258.1	263.2	266.3	270.1	273.6
90.0	241.7	243.1	249.6	254.9	260.1	267.9	275.1	281.5	288.0	295.0
135.0	241.7	244.4	248.1	250.7	254.4	256.7	260.8	264.0	270.4	273.8
180.0	241.7	244.0	244.3	243.5	243.3	241.3	240.8	239.3	239.7	237.9
225.0	241.7	238.1	234.2	231.2	228.0	225.5	221.7	219.0	214.7	211.4
270.0	241.7	235.1	232.4	228.4	224.9	220.1	215.2	207.6	199.1	187.8
315.0	241.7	237.3	236.5	233.9	230.7	227.2	223.3	218.4	212.8	207.1
360.0	241.7	243.1	243.9	243.0	243.3	241.6	241.0	238.3	236.5	233.6

C/G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	231.3	230.4	230.1	227.5	227.5	225.3	223.3	220.6	220.6	218.5
45.0	276.5	279.8	282.0	285.7	288.1	292.5	296.0	300.4	303.3	307.4
90.0	304.2	311.9	320.7	328.9	336.5	343.1	350.2	356.0	360.3	362.8
135.0	278.6	280.3	286.0	289.0	293.1	296.5	299.7	303.2	305.6	308.1
180.0	238.0	238.3	237.5	235.9	234.5	232.3	232.0	230.9	230.3	227.7
225.0	205.5	200.1	192.2	184.4	174.4	164.5	152.3	140.1	126.3	112.0
270.0	175.6	160.8	145.0	125.9	107.1	87.1	70.1	55.2	44.0	35.2
315.0	200.3	192.7	183.8	174.1	163.3	151.7	139.2	126.7	112.8	99.3
360.0	231.3	230.4	230.1	227.5	227.5	225.3	223.3	220.6	220.6	218.5

C/G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	217.6	214.9	214.8	211.8	209.5	205.8	203.5	199.7	197.4	193.5
45.0	310.2	314.0	315.6	316.0	316.2	314.3	312.7	307.7	304.0	296.9
90.0	365.0	365.0	360.2	354.6	347.7	335.1	322.3	306.4	289.6	272.2
135.0	309.3	310.7	310.6	310.8	309.2	307.9	304.7	301.5	298.0	291.3
180.0	225.7	223.9	221.2	218.5	216.5	213.4	210.9	208.3	205.7	203.1
225.0	97.3	82.7	68.7	56.1	45.5	36.0	29.5	23.4	19.6	15.4
270.0	29.4	24.0	20.4	16.3	13.9	11.6	10.7	9.0	8.6	7.2
315.0	85.0	72.1	58.9	48.5	39.1	32.0	25.3	21.5	17.3	15.3
360.0	217.6	214.9	214.8	211.8	209.5	205.8	203.5	199.7	197.4	193.5

C/G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	190.3	185.1	181.9	177.3	174.0	169.3	165.3	159.8	155.5	149.4
45.0	289.1	279.2	268.9	256.1	243.2	229.8	215.3	202.7	188.8	176.2
90.0	255.5	238.9	223.8	209.0	196.1	183.0	171.8	160.0	150.1	139.5
135.0	282.8	275.0	263.5	251.7	238.2	225.5	209.9	195.8	182.7	169.7
180.0	200.1	196.5	193.2	189.4	185.0	180.1	175.0	169.4	163.7	157.6
225.0	13.2	10.2	9.2	7.1	6.5	5.1	4.9	3.8	3.7	3.0
270.0	6.9	5.7	5.4	4.3	3.9	3.0	2.9	2.2	2.0	1.6
315.0	12.5	11.0	9.0	8.2	6.6	6.0	4.9	4.6	3.7	3.5
360.0	190.3	185.1	181.9	177.3	174.0	169.3	165.3	159.8	155.5	149.4

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	144.9	138.9	133.0	126.6	120.6	114.5	108.0	101.2	95.0	88.9
45.0	163.3	151.7	139.6	129.8	119.8	111.5	102.8	95.9	89.0	82.9
90.0	131.2	122.9	115.6	108.6	103.1	96.9	92.1	87.2	83.3	79.0
135.0	155.3	143.7	132.4	122.4	113.4	105.1	97.6	90.9	84.5	78.8
180.0	150.1	143.7	137.8	130.7	122.6	116.1	109.2	102.6	95.5	89.1
225.0	2.8	2.2	2.0	1.5	1.2	1.1	0.9	0.7	0.5	0.3
270.0	1.4	1.0	0.9	0.6	0.5	0.3	0.2	0.1	0.1	0.0
315.0	2.8	2.6	2.1	1.9	1.4	1.2	1.0	0.8	0.7	0.5
360.0	144.9	138.9	133.0	126.6	120.6	114.5	108.0	101.2	95.0	88.9

C/G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	83.3	75.9	70.2	64.1	58.4	52.4	47.2	41.6	36.8	31.5
45.0	77.0	71.7	66.9	61.9	58.1	53.8	50.7	46.7	44.1	40.5
90.0	76.0	72.2	69.9	66.5	64.7	61.7	60.1	57.3	55.7	53.2
135.0	73.5	68.3	63.3	59.1	54.7	50.8	47.1	43.7	40.4	37.5
180.0	82.1	75.6	68.8	62.6	56.0	50.1	44.3	39.1	34.0	29.1
225.0	0.1	0.1	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	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	83.3	75.9	70.2	64.1	58.4	52.4	47.2	41.6	36.8	31.5

C/G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	27.1	21.9	17.6	13.0	9.8	6.6	4.7	3.1	2.4	1.4
45.0	38.5	35.1	33.1	29.8	27.7	24.4	22.0	18.8	16.6	13.7
90.0	51.5	49.1	47.8	45.7	44.1	41.4	38.6	34.3	31.5	27.9
135.0	34.5	31.9	29.3	26.3	24.1	21.4	19.1	16.3	14.3	12.0
180.0	24.6	19.8	15.0	11.1	8.2	6.0	4.7	3.5	2.6	1.8
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	27.1	21.9	17.6	13.0	9.8	6.6	4.7	3.1	2.4	1.4

C/G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	0.9	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	11.8	9.7	8.2	7.1	6.0	5.5	4.5	3.8	2.6	2.1
90.0	25.4	22.0	20.0	17.0	15.4	12.9	12.2	10.5	9.6	7.7
135.0	10.8	9.2	8.5	6.9	6.4	4.7	4.0	2.7	1.1	0.0
180.0	1.2	0.7	0.6	0.1	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	0.9	0.3	0.2	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	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	6.7	4.7	3.6	2.0	1.3	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	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0	99.0
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	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0	108.0	109.0
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	110.0	111.0	112.0	113.0	114.0	115.0	116.0	117.0	118.0	119.0
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	120.0	121.0	122.0	123.0	124.0	125.0	126.0	127.0	128.0	129.0
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	130.0	131.0	132.0	133.0	134.0	135.0	136.0	137.0	138.0	139.0
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	140.0	141.0	142.0	143.0	144.0	145.0	146.0	147.0	148.0	149.0
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	150.0	151.0	152.0	153.0	154.0	155.0	156.0	157.0	158.0	159.0
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]

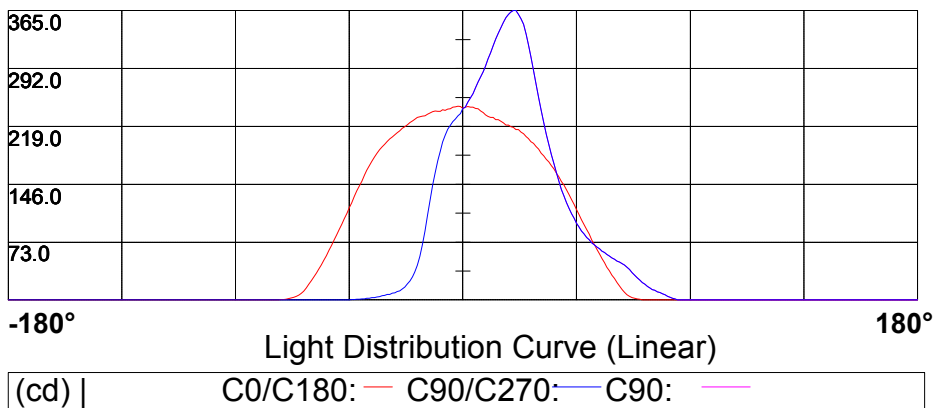
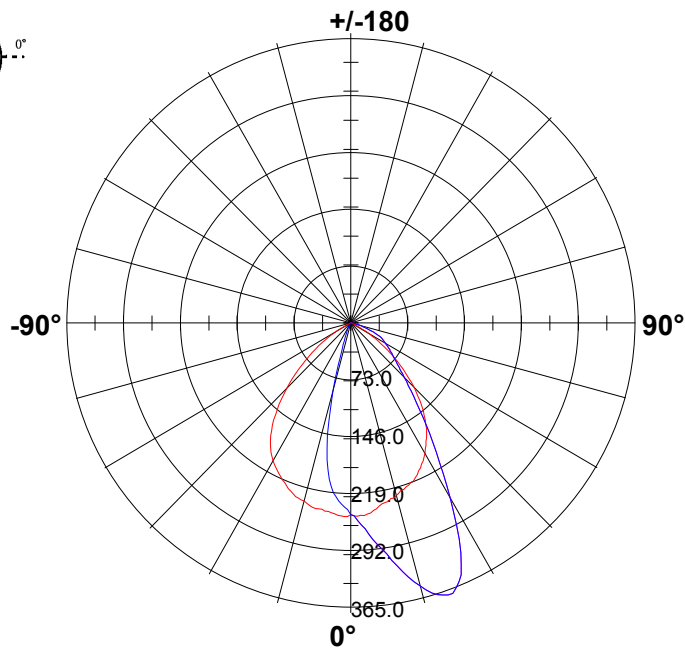
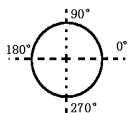
C\G	160.0	161.0	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
225.0	0.0	0.0	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	170.0	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
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

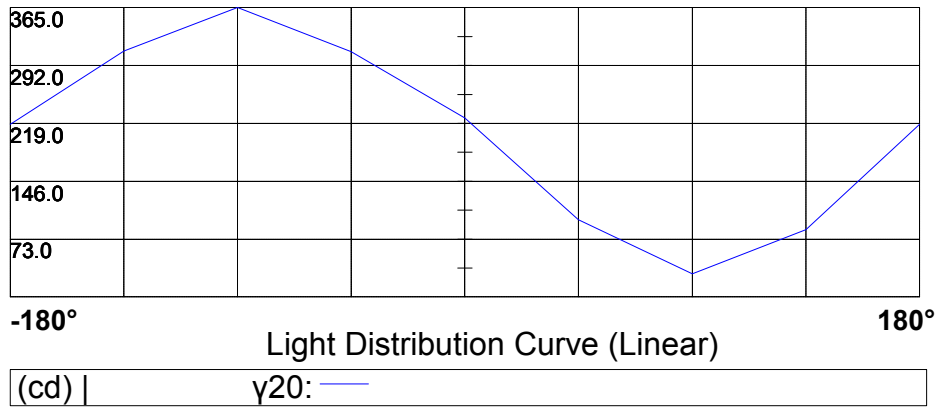
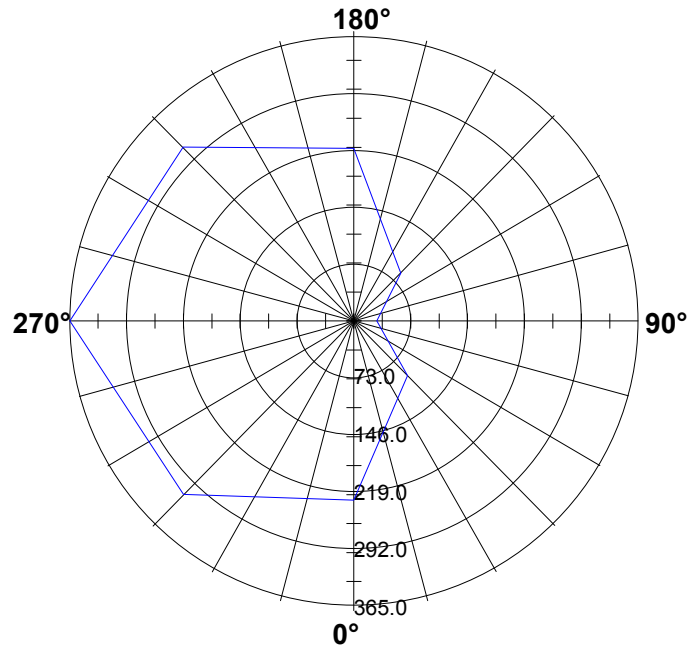
C\G	180.0
0.0	0.0
45.0	0.0
90.0	0.0
135.0	0.0
180.0	0.0
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

Light Distribution Curve [Unit: cd]

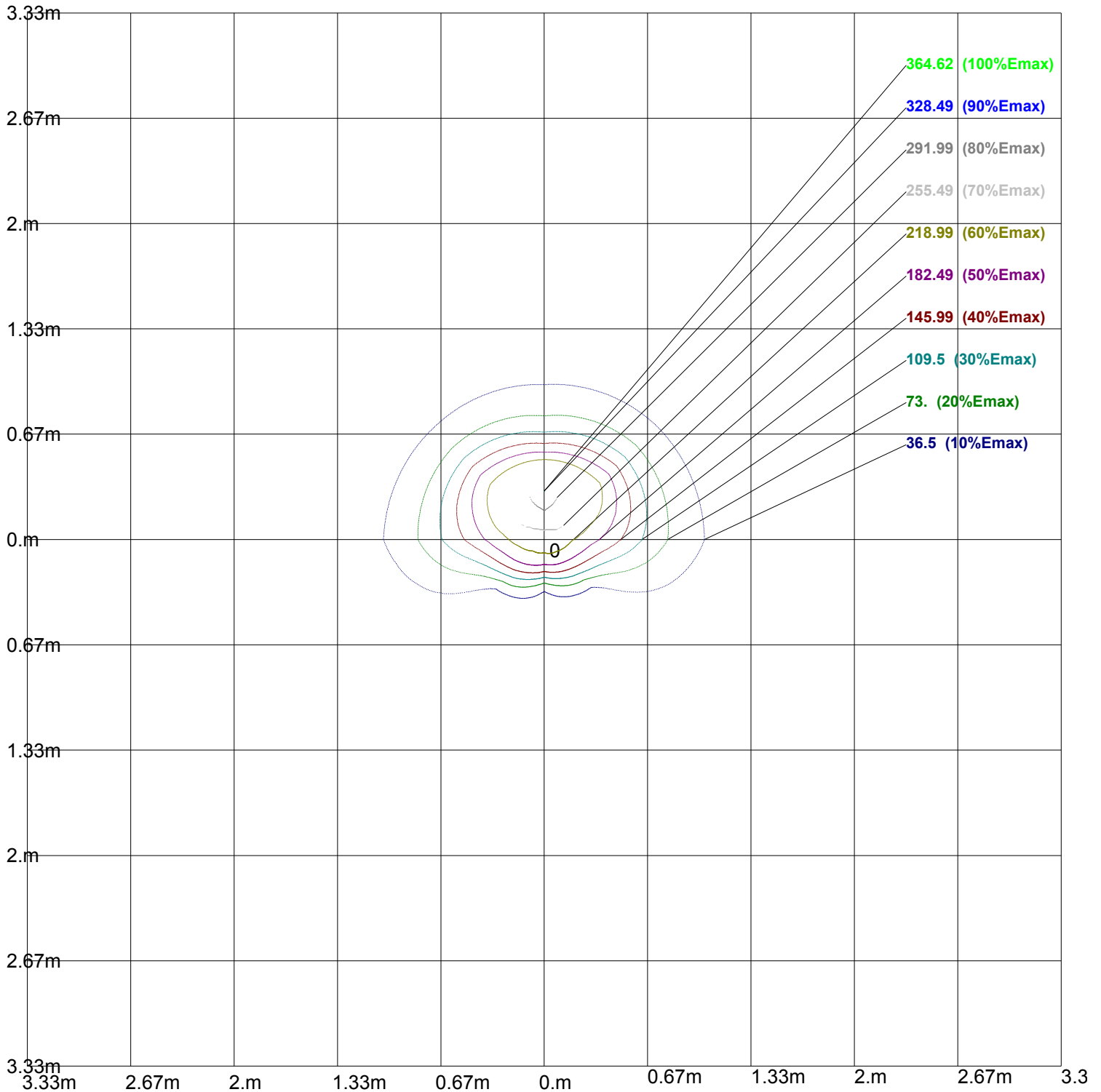
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 364.99lx

Luminance Limiting Curve

Diameter: 200mm

Length: mm

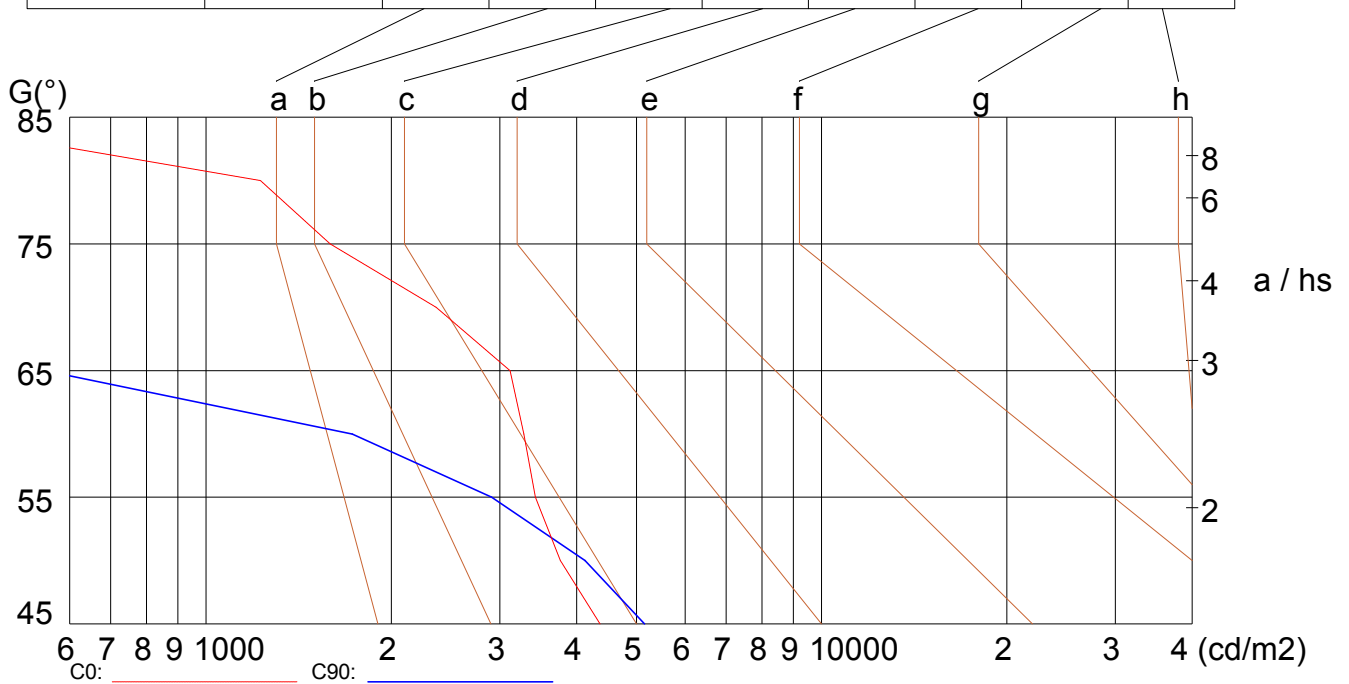
Width: 200mm

Height: mm

(cd/m²)

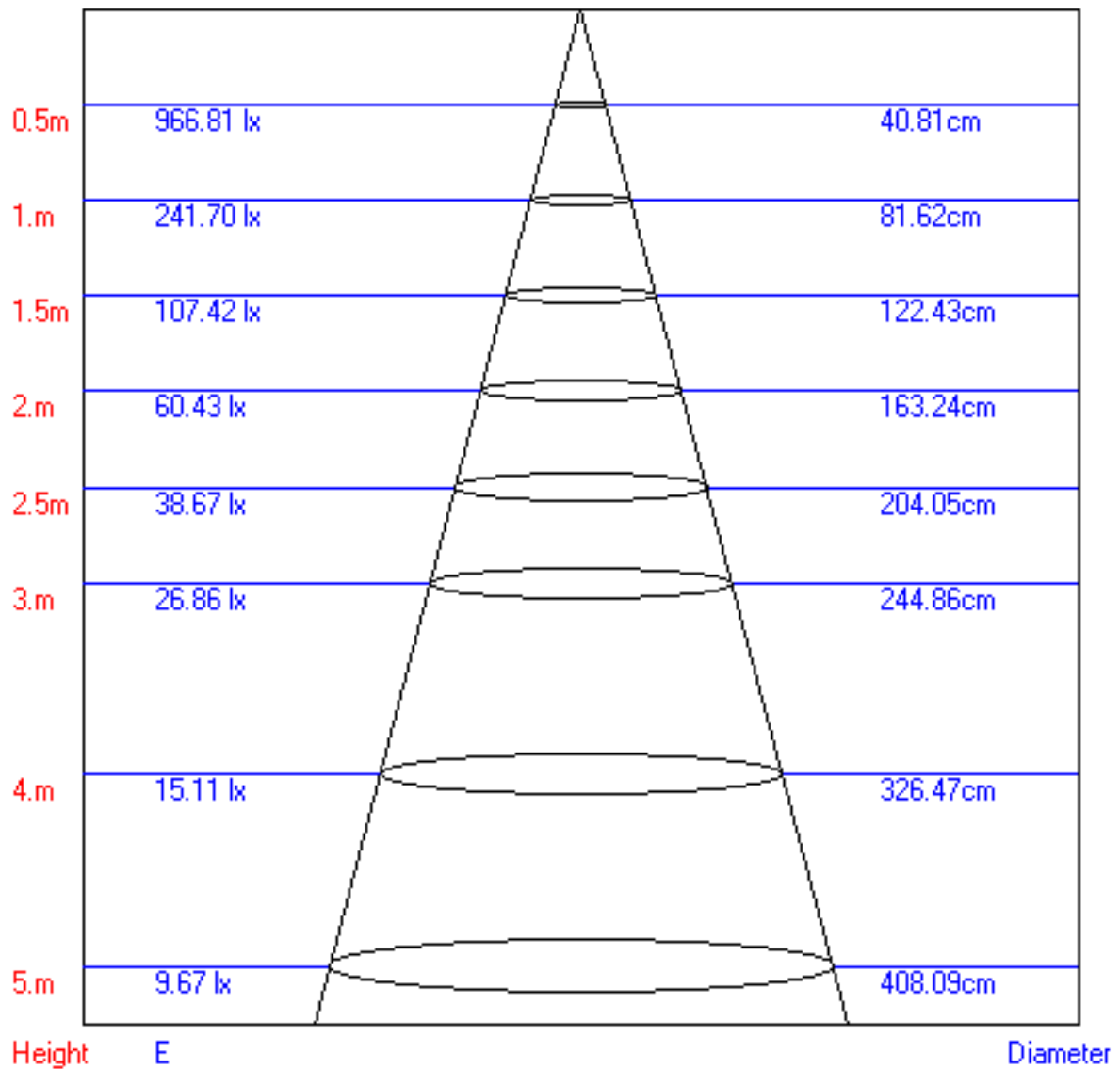
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	4365	3764	3426	3283	3119	2364			
C90	5157	4125	2907	1728	498	81			

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:44.40°

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	0.91	0.91	0.91	0.89	0.89	0.89	0.85	0.85	0.85	0.82	0.82	0.82	0.78	0.78	0.78	0.77
1	0.85	0.84	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.77	0.76	0.75	0.72	0.70	0.69	0.65
2	0.77	0.76	0.75	0.76	0.74	0.73	0.74	0.72	0.70	0.70	0.68	0.66	0.66	0.64	0.62	0.58
3	0.69	0.68	0.67	0.69	0.67	0.65	0.67	0.65	0.63	0.64	0.62	0.59	0.61	0.58	0.56	0.52
4	0.63	0.61	0.60	0.62	0.60	0.59	0.61	0.58	0.56	0.59	0.56	0.53	0.57	0.53	0.50	0.47
5	0.57	0.55	0.54	0.57	0.55	0.53	0.56	0.53	0.51	0.54	0.51	0.48	0.52	0.49	0.45	0.42
6	0.52	0.50	0.49	0.52	0.50	0.48	0.51	0.48	0.46	0.50	0.47	0.44	0.49	0.45	0.41	0.39
7	0.48	0.46	0.45	0.48	0.45	0.44	0.47	0.44	0.42	0.47	0.43	0.40	0.45	0.41	0.38	0.35
8	0.44	0.42	0.41	0.44	0.42	0.40	0.44	0.41	0.39	0.43	0.40	0.37	0.42	0.38	0.35	0.32
9	0.41	0.39	0.38	0.41	0.39	0.37	0.41	0.38	0.36	0.40	0.37	0.34	0.40	0.35	0.32	0.30
10	0.38	0.36	0.35	0.38	0.36	0.35	0.38	0.35	0.33	0.38	0.34	0.31	0.37	0.33	0.30	0.28

