



Luminaire Name: APLIQUE CAMIL CIRCULAR 13.AA94.0__0.05

Report NO.: 01313223122601A

Test NO.:

Lamp: LUMINUS CXM-6-30-90-18-TE60-F7-2 350mA

Sum Lumens: 834.341 lm

Number of Lamps: 1

Diameter: 0mm

Length: 28mm

Photometric Type: Type C

Voltage: 230.63 V

Current: 0.0397 A

Power: 7.69 W

Power Factor: 0.8394

Ballast Type: ACTEC MINI-10-350

Width: 20mm

Height: 0mm

Optical Component: DC(V: 16.92V I: 0.351A P: 5.93W)

Photometric Results

Lumens: 378.42 lm

Efficiency: 45.36%

Central Intensity: 2.326cd

Maximum Intensity: 234.708cd

Beam Angle(10%): Left: -63.0 Right:89.8

Maximum s/h: C0_180: 0.42 C90_270: 0.18

Effective Luminous Flux: 355.75 lm

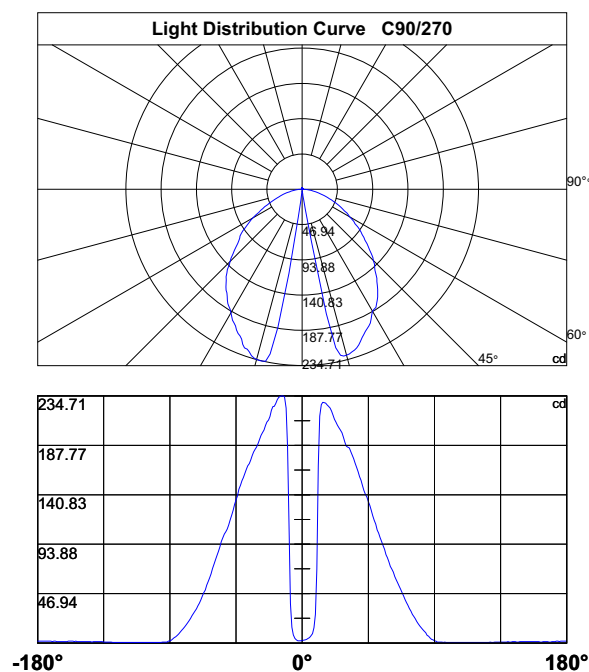
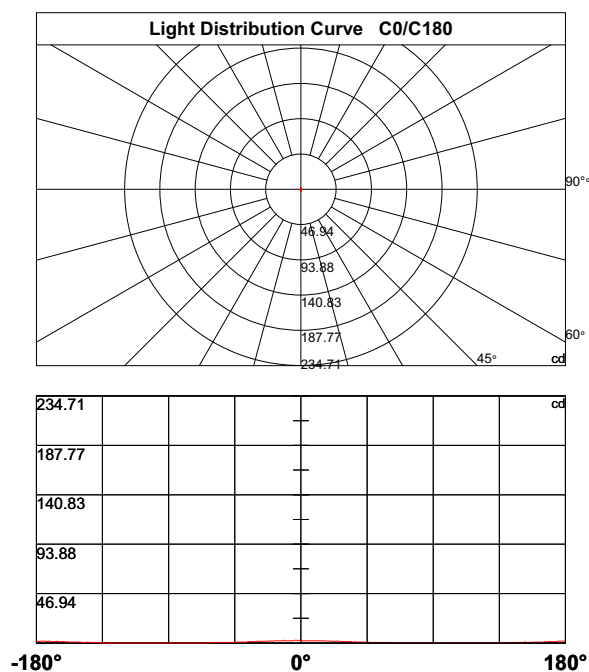
Angle of maximum intensity: C:270.0 G:13.0

Half Peak Side Angle(50%): Left: -35.9 Right:61.9

Up Flux Rate: 0.44%

Down Flux Rate: 44.92%

CIE Classification: Direct





Intensity Data [cd]

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Cly	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
0.0	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
30.0	2.3	2.1	2.1	2.1	2.6	2.6	2.6	3.0	3.0	3.4
60.0	2.3	2.6	3.0	3.0	3.4	4.3	5.1	7.2	8.9	12.4
90.0	2.3	2.6	3.0	3.4	4.3	5.1	6.8	8.9	14.5	27.3
120.0	2.3	2.1	2.1	2.1	2.1	2.6	3.8	5.5	8.1	12.8
150.0	2.3	2.1	2.1	2.1	2.1	2.6	2.6	2.6	3.0	3.4
180.0	2.3	2.6	2.1	2.6	2.6	2.1	2.1	2.1	2.1	2.1
210.0	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.6	3.0	3.4
240.0	2.3	2.1	1.7	2.1	2.6	3.4	5.1	7.2	13.2	27.3
270.0	2.3	2.1	2.1	2.1	3.0	4.3	7.7	14.9	37.5	112.9
300.0	2.3	2.6	3.0	3.8	4.7	5.5	7.7	10.6	15.3	37.9
330.0	2.3	2.1	2.6	2.6	2.6	2.6	2.6	3.4	4.3	5.1
360.0	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

Cly	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.7	1.7
30.0	4.3	4.7	5.5	6.8	7.2	8.5	10.2	11.9	15.8	18.7
60.0	19.6	37.1	79.7	158.5	201.1	217.2	221.5	222.8	222.4	221.1
90.0	70.3	168.7	215.5	226.6	228.7	228.3	227.9	226.2	224.9	223.2
120.0	22.6	69.9	121.8	182.3	217.2	222.4	224.5	224.1	221.9	218.9
150.0	4.3	5.1	5.5	6.8	8.1	10.6	13.6	20.0	29.4	49.4
180.0	2.1	2.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.7
210.0	4.3	5.1	6.0	7.2	10.2	12.8	17.5	26.4	40.0	59.2
240.0	66.9	140.6	193.4	217.7	225.3	227.5	227.5	225.8	223.6	221.1
270.0	186.1	223.2	233.9	234.7	234.7	234.3	233.4	231.3	227.5	224.9
300.0	86.5	152.5	207.0	221.1	226.2	227.0	226.2	226.2	225.3	223.2
330.0	6.0	7.2	8.5	12.8	16.6	23.9	39.6	61.3	88.6	122.3
360.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.7	1.7

Cly	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	1.7	1.7	1.7	1.3	1.7	1.7	1.7	1.3	1.3	1.3
30.0	26.4	35.8	49.0	69.0	87.3	112.5	127.8	143.1	154.6	157.6
60.0	219.8	215.1	211.3	208.7	205.3	202.8	199.8	198.1	193.8	186.1
90.0	220.2	216.4	212.6	210.0	207.0	204.5	202.3	199.8	195.5	190.8
120.0	216.0	215.5	212.6	205.3	201.5	198.9	195.5	190.8	186.1	183.2
150.0	73.7	100.5	129.1	148.2	162.3	172.9	173.8	171.7	170.4	168.7
180.0	1.7	2.1	1.7	1.7	1.7	1.7	1.7	1.3	1.7	1.3
210.0	91.2	115.0	137.6	153.3	165.7	173.4	174.6	173.8	173.4	169.5
240.0	220.7	218.1	210.9	207.4	205.7	201.9	197.2	193.4	189.6	184.4
270.0	224.5	221.1	215.1	211.7	210.0	206.6	202.3	199.8	197.2	193.4
300.0	218.5	215.1	213.0	209.6	206.6	204.9	202.8	198.1	191.3	187.4
330.0	147.8	166.6	182.7	188.3	189.6	190.0	190.4	187.9	182.7	177.2
360.0	1.7	1.7	1.7	1.3	1.7	1.7	1.7	1.3	1.3	1.3



Intensity Data [cd]

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Cly	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	1.3	1.3	1.3	1.3	1.3	0.9	0.9	1.3	0.9	0.9
30.0	158.9	160.2	159.7	157.2	152.9	149.9	147.0	141.0	136.3	131.2
60.0	181.5	179.3	176.8	173.4	168.7	164.4	160.6	155.5	150.8	145.7
90.0	187.0	186.1	185.3	181.9	178.5	175.1	170.8	167.0	162.7	158.0
120.0	177.6	172.1	168.3	164.8	161.9	158.0	150.8	148.7	145.7	140.1
150.0	162.7	158.9	154.6	149.9	147.4	141.8	136.3	134.6	129.1	125.2
180.0	1.7	1.3	1.3	1.3	1.3	1.3	1.3	0.9	0.9	0.9
210.0	165.3	161.4	158.5	155.5	150.8	144.8	141.8	139.3	134.6	129.9
240.0	179.8	175.5	172.5	170.0	165.7	160.2	156.3	153.8	149.1	143.6
270.0	189.6	186.1	184.0	181.5	178.1	173.8	170.4	168.3	164.8	161.0
300.0	186.1	183.6	180.6	176.8	172.1	168.7	162.3	157.2	151.6	146.5
330.0	174.6	172.5	168.7	164.0	160.2	154.6	150.8	145.3	138.0	134.2
360.0	1.3	1.3	1.3	1.3	1.3	0.9	0.9	1.3	0.9	0.9

Cly	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	0.9	0.9	0.9	0.9	0.4	0.9	0.9	0.4	0.4	0.4
30.0	127.4	122.7	116.7	113.3	109.9	106.1	102.2	98.8	93.7	89.9
60.0	140.6	136.3	131.6	126.5	122.7	118.8	114.2	110.3	106.1	101.0
90.0	154.6	149.5	144.8	141.4	138.4	134.2	130.8	126.1	121.0	116.7
120.0	135.5	132.5	126.9	122.7	119.3	113.7	109.0	104.4	99.3	94.6
150.0	121.4	116.3	112.9	109.0	104.8	100.5	96.7	91.2	86.9	83.5
180.0	0.9	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4
210.0	126.1	122.7	117.6	113.7	109.5	104.8	100.5	95.8	91.6	87.3
240.0	139.7	135.9	131.2	126.5	121.4	115.0	110.3	106.5	100.5	95.8
270.0	157.2	154.2	149.9	146.1	139.7	135.9	131.6	126.1	121.4	116.7
300.0	141.8	136.3	132.1	128.2	123.5	118.0	113.7	108.6	103.9	99.7
330.0	129.5	123.5	119.7	115.0	111.2	107.3	103.5	98.8	94.6	90.3
360.0	0.9	0.9	0.9	0.9	0.4	0.9	0.9	0.4	0.4	0.4

Cly	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
30.0	84.8	81.4	78.8	75.4	72.4	69.0	65.6	61.8	57.5	54.5
60.0	97.1	92.0	88.6	85.6	81.8	79.7	76.7	72.8	69.9	65.6
90.0	112.9	107.3	104.4	100.1	96.7	92.9	89.0	83.9	80.9	77.1
120.0	89.0	86.0	82.2	80.1	78.0	75.8	73.3	70.3	66.5	63.0
150.0	79.7	76.7	73.3	70.3	68.6	66.0	63.5	60.9	57.1	54.1
180.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
210.0	82.6	80.1	77.1	75.0	73.3	70.3	67.3	63.9	59.2	55.8
240.0	91.6	87.3	85.2	83.1	81.4	78.8	75.8	72.4	68.2	65.6
270.0	112.0	108.2	105.6	103.5	100.1	96.3	91.2	86.9	83.1	79.2
300.0	94.6	91.2	88.6	83.9	80.9	78.4	74.5	71.1	68.6	65.6
330.0	86.0	81.8	79.7	76.2	73.3	69.4	66.0	62.6	59.6	57.1
360.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4



Intensity Data [cd]

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Cly	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	52.4	49.0	45.6	42.6	38.8	35.4	31.9	28.1	25.1	22.2
60.0	63.0	60.5	57.5	54.9	52.8	49.8	47.7	43.9	42.2	39.6
90.0	72.8	70.3	67.3	63.0	60.1	57.1	54.1	51.1	47.7	44.7
120.0	60.9	56.7	53.7	50.7	47.3	44.7	42.6	39.6	37.1	34.9
150.0	51.5	48.1	45.2	41.7	38.8	36.6	33.7	31.1	28.5	25.6
180.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.0	52.8	49.0	45.6	41.7	38.3	34.9	31.9	27.7	24.7	21.7
240.0	62.2	57.5	54.5	52.0	49.0	46.9	43.9	40.5	37.9	34.5
270.0	75.0	70.7	65.6	61.8	58.4	54.9	50.3	47.7	44.3	40.9
300.0	63.0	59.2	56.7	54.1	51.5	48.6	46.0	43.4	40.9	38.3
330.0	53.7	51.1	47.7	45.2	42.2	39.2	36.6	33.7	30.7	27.7
360.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cly	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
30.0	17.5	14.5	12.4	9.8	8.1	6.4	5.5	4.7	3.4	3.0
60.0	36.6	34.1	31.9	29.0	26.8	25.1	22.6	20.4	18.7	16.2
90.0	41.3	38.3	35.8	32.8	30.2	27.3	25.1	23.0	20.4	18.3
120.0	31.5	29.4	27.3	25.6	23.4	21.3	19.6	17.9	15.3	14.1
150.0	23.0	20.4	17.9	15.3	12.4	10.6	8.9	6.4	5.1	4.3
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.0	17.9	14.9	11.9	10.2	8.5	6.8	5.5	4.7	3.4	3.0
240.0	32.4	30.7	28.1	26.4	24.3	22.2	20.4	18.3	16.2	14.9
270.0	37.9	35.4	32.4	30.2	28.1	26.0	23.4	21.3	19.2	17.0
300.0	35.4	33.2	31.1	28.1	26.4	23.9	22.2	20.0	17.9	16.2
330.0	24.7	20.9	17.9	15.3	12.4	9.8	7.7	6.4	5.5	3.8
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cly	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
30.0	2.6	2.1	1.7	1.3	1.3	0.9	0.9	0.9	0.9	0.9
60.0	14.1	12.4	10.6	8.5	6.8	5.1	4.3	3.0	2.6	1.7
90.0	16.2	14.5	12.8	11.1	9.8	7.2	6.4	4.7	3.4	3.0
120.0	12.8	10.6	9.4	7.7	6.4	5.1	3.8	2.6	2.6	1.7
150.0	3.4	2.6	2.1	1.7	1.7	1.3	0.9	0.9	0.9	0.4
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.0	2.6	2.1	1.7	1.7	1.3	0.9	0.9	0.9	0.9	0.9
240.0	13.6	11.1	9.8	8.5	6.4	5.5	4.3	3.0	2.1	1.7
270.0	15.3	13.6	11.9	10.2	8.5	7.2	6.0	5.1	3.8	2.6
300.0	14.5	12.4	11.1	9.4	7.7	6.0	4.7	3.4	2.6	2.1
330.0	3.4	2.6	2.1	1.7	1.7	1.3	0.9	0.9	0.9	0.9
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Intensity Data [cd]

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C\y	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
30.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60.0	1.3	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4
90.0	2.1	1.7	0.9	0.9	0.9	0.9	0.4	0.9	0.4	0.4
120.0	1.3	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
150.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.0	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
240.0	1.3	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
270.0	2.1	1.7	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4
300.0	1.3	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4
330.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C\y	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
30.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
90.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
120.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
150.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
240.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
270.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
300.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
330.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C\y	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
30.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
90.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
120.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
150.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
240.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
270.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
300.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
330.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Intensity Data [cd]

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C\y	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
30.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
90.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.4
120.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
150.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.4	0.4
240.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.4	0.9
270.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
300.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.4
330.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C\y	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	0.4	0.0	0.0	0.0
30.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60.0	0.4	0.4	0.9	0.4	0.9	0.9	0.9	0.9	0.9	0.9
90.0	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
120.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	0.9
150.0	0.9	0.9	0.9	0.4	0.9	0.9	0.9	0.4	0.9	0.9
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.4
210.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
240.0	0.9	0.4	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3
270.0	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.3	1.3
300.0	0.9	0.9	0.9	0.4	0.9	0.9	0.9	0.9	0.9	0.9
330.0	0.9	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0

C\y	140.0	141.0	142.0	143.0	144.0	145.0	146.0	147.0	148.0	149.0
0.0	0.4	0.0	0.4	0.4	0.4	0.4	0.0	0.4	0.4	0.4
30.0	0.4	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60.0	0.9	0.9	0.9	0.9	0.9	1.3	0.9	0.9	1.3	0.9
90.0	1.3	0.9	0.9	1.3	1.3	1.3	0.9	0.9	1.3	1.3
120.0	1.3	1.3	1.3	1.3	1.3	0.9	1.3	1.3	1.3	1.3
150.0	0.9	0.9	0.9	0.9	0.9	0.4	0.9	0.4	0.9	0.9
180.0	0.4	0.4	0.4	0.4	0.4	0.9	0.4	0.4	0.4	0.4
210.0	0.9	0.9	0.9	0.9	0.9	0.4	0.9	0.9	0.9	0.9
240.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
270.0	1.3	1.3	1.3	0.9	1.3	1.3	1.3	1.3	1.3	1.3
300.0	1.3	1.3	0.9	0.9	0.9	0.9	0.9	0.9	1.3	0.9
330.0	0.9	0.9	0.9	0.4	0.9	0.4	0.4	0.9	0.4	0.4
360.0	0.4	0.0	0.4	0.4	0.4	0.4	0.0	0.4	0.4	0.4



Intensity Data [cd]

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C\y	150.0	151.0	152.0	153.0	154.0	155.0	156.0	157.0	158.0	159.0
0.0	0.4	0.4	0.9	0.9	0.4	0.4	0.9	0.4	0.9	0.9
30.0	0.4	0.9	0.9	0.9	0.4	0.4	0.9	0.4	0.9	0.9
60.0	0.9	0.9	1.3	0.9	1.3	1.3	1.3	0.9	0.9	1.3
90.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
120.0	1.3	1.3	1.7	1.3	1.3	1.3	1.3	1.3	1.7	1.3
150.0	0.9	0.9	0.9	0.9	0.9	0.9	1.3	0.9	1.3	1.3
180.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3
210.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.3
240.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
270.0	1.3	1.3	1.3	1.3	1.7	1.3	1.7	1.7	1.7	1.7
300.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.9	0.9	0.9
330.0	0.9	0.9	0.4	0.4	0.9	0.9	0.9	0.9	1.3	0.9
360.0	0.4	0.4	0.9	0.9	0.4	0.4	0.9	0.4	0.9	0.9

C\y	160.0	161.0	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0
0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.3	0.9	1.3	1.3
30.0	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	0.9	1.3
60.0	0.9	1.3	0.9	0.9	0.9	1.3	0.9	1.3	1.3	1.3
90.0	1.3	1.3	0.9	0.9	1.3	1.3	1.3	1.3	0.9	0.9
120.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
150.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
180.0	0.9	1.3	1.3	1.3	1.3	1.3	1.7	1.3	1.3	1.3
210.0	1.3	1.3	1.3	1.7	1.3	1.7	1.3	1.7	1.3	1.7
240.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7
270.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7
300.0	0.9	0.9	1.3	0.9	1.3	1.3	1.3	1.3	1.3	1.3
330.0	0.9	0.9	1.3	0.9	1.3	0.9	1.3	1.3	1.3	1.3
360.0	0.9	0.9	0.9	0.9	0.9	0.9	1.3	0.9	1.3	1.3

C\y	170.0	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	1.3	1.3	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7
30.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	1.7
60.0	1.3	1.3	1.3	1.3	1.3	1.7	1.3	1.7	1.7	1.7
90.0	1.3	1.3	1.3	1.7	1.7	1.3	1.7	1.7	1.7	1.7
120.0	1.7	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.7
150.0	1.3	1.3	1.7	1.3	1.7	1.7	1.7	1.7	1.3	1.7
180.0	1.3	1.7	1.7	1.3	1.7	1.7	1.7	1.7	1.3	1.7
210.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.3
240.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
270.0	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
300.0	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7
330.0	1.3	1.3	1.7	1.3	1.3	1.3	1.3	1.7	1.7	1.3
360.0	1.3	1.3	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7



Intensity Data [cd]

C\γ	180.0
0.0	1.7
30.0	1.3
60.0	1.7
90.0	1.7
120.0	1.7
150.0	1.7
180.0	1.7
210.0	1.3
240.0	1.7
270.0	1.7
300.0	1.7
330.0	1.7
360.0	1.7



Zonal flux distribution table

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Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
0	2.33	0.00	0.00	0.00	0.00
1	2.27	0.00	0.00	0.00	0.00
2	2.34	0.01	0.01	0.00	0.00
3	2.52	0.01	0.02	0.00	0.00
4	2.84	0.02	0.04	0.00	0.00
5	3.27	0.03	0.06	0.00	0.00
6	4.19	0.04	0.10	0.00	0.00
7	5.86	0.06	0.17	0.00	0.00
8	9.58	0.11	0.28	0.00	0.00
9	20.84	0.25	0.52	0.13	0.13
10	39.58	0.55	1.07	0.50	0.63
11	68.23	1.08	2.15	1.03	1.65
12	90.09	1.73	3.88	1.70	3.36
13	106.56	2.33	6.21	2.30	5.65
14	114.98	2.84	9.05	2.79	8.44
15	118.06	3.20	12.25	3.13	11.57
16	120.51	3.50	15.74	3.40	14.97
17	123.35	3.80	19.54	3.72	18.70
18	126.94	4.13	23.67	4.02	22.72
19	132.12	4.51	28.17	4.42	27.14
20	138.51	4.95	33.13	4.92	32.05
21	143.59	5.42	38.54	5.36	37.42
22	148.10	5.86	44.41	5.79	43.21
23	151.22	6.28	50.69	6.28	49.49
24	153.70	6.67	57.35	6.67	56.15
25	155.98	7.04	64.39	7.04	63.19
26	155.83	7.36	71.75	7.36	70.55
27	154.91	7.60	79.36	7.60	78.16
28	153.14	7.80	87.16	7.80	85.96
29	150.08	7.93	95.09	7.93	93.89
30	147.17	8.03	103.11	8.03	101.91
31	144.86	8.13	111.24	8.13	110.04
32	142.63	8.24	119.48	8.24	118.28
33	139.79	8.32	127.80	8.32	126.60
34	136.56	8.36	136.16	8.36	134.96
35	132.80	8.37	144.53	8.37	143.33
36	129.10	8.34	152.87	8.34	151.67
37	126.05	8.32	161.19	8.32	159.99
38	122.04	8.28	169.47	8.28	168.27
39	118.10	8.20	177.66	8.20	176.46
40	114.62	8.12	185.78	8.12	184.58



Zonal flux distribution table

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Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
41	110.96	8.03	193.81	8.03	192.61
42	107.10	7.92	201.74	7.92	200.54
43	103.69	7.81	209.54	7.81	208.34
44	100.14	7.69	217.24	7.69	216.04
45	96.34	7.55	224.79	7.55	223.59
46	92.83	7.40	232.19	7.40	230.99
47	88.96	7.23	239.42	7.23	238.22
48	84.98	7.03	246.45	7.03	245.25
49	81.36	6.83	253.28	6.83	252.08
50	77.60	6.63	259.91	6.63	258.71
51	74.40	6.43	266.34	6.43	265.14
52	72.02	6.28	272.62	6.28	271.42
53	69.50	6.16	278.78	6.16	277.58
54	67.27	6.03	284.81	6.03	283.61
55	64.78	5.89	290.70	5.89	289.50
56	61.98	5.73	296.43	5.73	295.23
57	58.96	5.53	301.96	5.53	300.76
58	55.94	5.31	307.27	5.31	306.07
59	53.21	5.10	312.37	5.10	311.17
60	50.69	4.91	317.28	4.91	316.08
61	47.74	4.70	321.98	4.70	320.78
62	44.98	4.47	326.45	4.47	325.25
63	42.31	4.25	330.69	3.52	328.77
64	39.76	4.03	334.72	3.35	332.13
65	37.34	3.82	338.54	3.19	335.31
66	34.89	3.60	342.14	3.02	338.34
67	32.23	3.38	345.52	2.84	341.18
68	29.92	3.15	348.66	2.66	343.84
69	27.51	2.93	351.59	2.49	346.33
70	24.85	2.69	354.28	2.30	348.64
71	22.65	2.45	356.74	2.12	350.76
72	20.55	2.25	358.98	1.58	352.34
73	18.57	2.05	361.03	1.07	353.40
74	16.72	1.85	362.88	0.99	354.40
75	14.94	1.67	364.56	0.92	355.31
76	13.42	1.51	366.06	0.43	355.74
77	11.93	1.35	367.41	0.00	355.74
78	10.44	1.20	368.61	0.00	355.74
79	9.23	1.06	369.67	0.00	355.74
80	8.20	0.94	370.61	0.00	355.74
81	6.99	0.82	371.43	0.00	355.74



Zonal flux distribution table

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Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
82	6.11	0.71	372.14	0.00	355.74
83	5.15	0.61	372.75	0.00	355.74
84	4.30	0.51	373.27	0.00	355.74
85	3.37	0.42	373.68	0.00	355.74
86	2.73	0.33	374.02	0.00	355.74
87	2.09	0.26	374.28	0.00	355.74
88	1.70	0.21	374.49	0.00	355.74
89	1.31	0.17	374.66	0.00	355.74
90	0.96	0.12	374.78	0.00	355.74
91	0.71	0.09	374.87	0.00	355.74
92	0.50	0.07	374.94	0.00	355.74
93	0.46	0.05	374.99	0.00	355.74
94	0.43	0.05	375.04	0.00	355.74
95	0.43	0.05	375.09	0.00	355.74
96	0.35	0.04	375.13	0.00	355.74
97	0.39	0.04	375.17	0.00	355.74
98	0.35	0.04	375.21	0.00	355.74
99	0.35	0.04	375.25	0.00	355.74
100	0.35	0.04	375.29	0.00	355.74
101	0.35	0.04	375.32	0.00	355.74
102	0.35	0.04	375.36	0.00	355.74
103	0.35	0.04	375.40	0.00	355.74
104	0.35	0.04	375.44	0.00	355.74
105	0.35	0.04	375.48	0.00	355.74
106	0.35	0.04	375.51	0.00	355.74
107	0.35	0.04	375.55	0.00	355.74
108	0.35	0.04	375.59	0.00	355.74
109	0.35	0.04	375.62	0.00	355.74
110	0.35	0.04	375.66	0.00	355.74
111	0.35	0.04	375.70	0.00	355.74
112	0.35	0.04	375.73	0.00	355.74
113	0.35	0.04	375.77	0.00	355.74
114	0.35	0.04	375.81	0.00	355.74
115	0.35	0.04	375.84	0.00	355.74
116	0.35	0.04	375.88	0.00	355.74
117	0.35	0.03	375.91	0.00	355.74
118	0.35	0.03	375.95	0.00	355.74
119	0.35	0.03	375.98	0.00	355.74
120	0.35	0.03	376.01	0.00	355.74
121	0.35	0.03	376.05	0.00	355.74
122	0.35	0.03	376.08	0.00	355.74



Zonal flux distribution table

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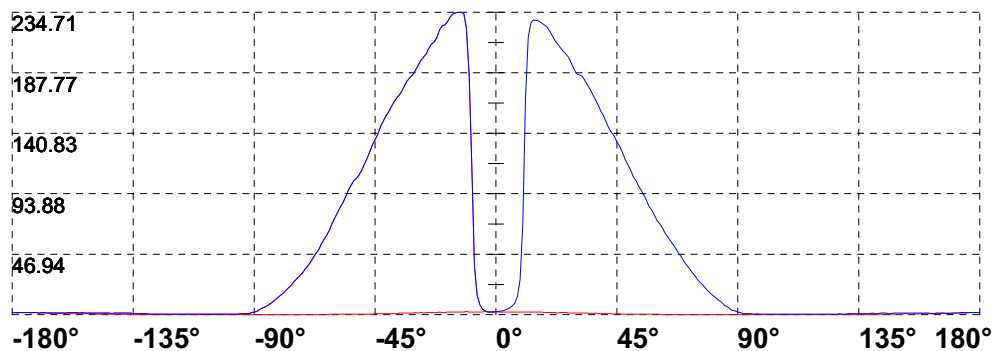
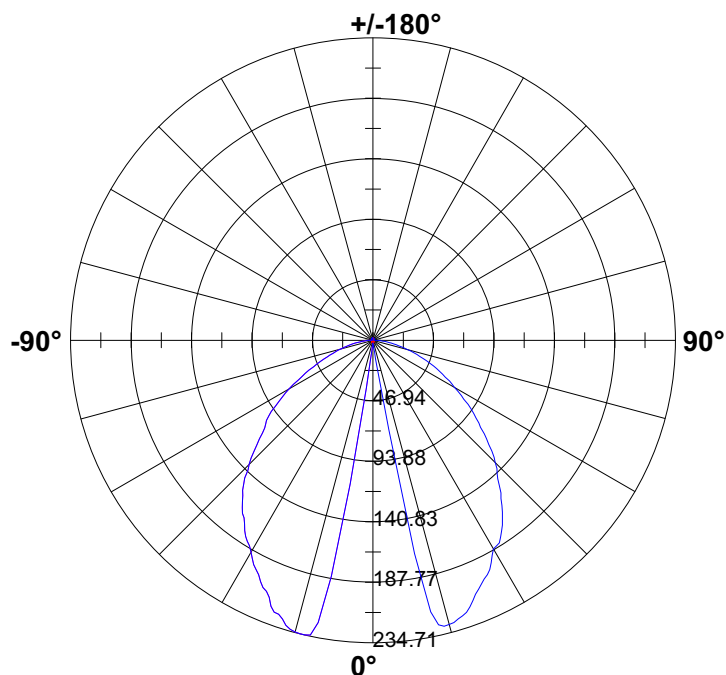
Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
123	0.35	0.03	376.11	0.00	355.74
124	0.35	0.03	376.15	0.00	355.74
125	0.35	0.03	376.18	0.00	355.74
126	0.35	0.03	376.21	0.00	355.74
127	0.46	0.04	376.25	0.00	355.74
128	0.43	0.04	376.28	0.00	355.74
129	0.46	0.04	376.32	0.00	355.74
130	0.60	0.05	376.37	0.00	355.74
131	0.57	0.05	376.42	0.00	355.74
132	0.67	0.05	376.47	0.00	355.74
133	0.57	0.05	376.52	0.00	355.74
134	0.67	0.05	376.57	0.00	355.74
135	0.67	0.05	376.62	0.00	355.74
136	0.78	0.06	376.68	0.00	355.74
137	0.71	0.06	376.73	0.00	355.74
138	0.82	0.06	376.79	0.00	355.74
139	0.78	0.06	376.85	0.00	355.74
140	0.92	0.06	376.91	0.00	355.74
141	0.89	0.06	376.97	0.00	355.74
142	0.85	0.06	377.03	0.00	355.74
143	0.82	0.06	377.09	0.00	355.74
144	0.89	0.06	377.14	0.00	355.74
145	0.82	0.05	377.20	0.00	355.74
146	0.78	0.05	377.24	0.00	355.74
147	0.82	0.05	377.29	0.00	355.74
148	0.92	0.05	377.34	0.00	355.74
149	0.85	0.05	377.40	0.00	355.74
150	0.96	0.05	377.45	0.00	355.74
151	0.99	0.05	377.50	0.00	355.74
152	1.06	0.05	377.55	0.00	355.74
153	0.99	0.05	377.60	0.00	355.74
154	1.03	0.05	377.65	0.00	355.74
155	0.99	0.05	377.70	0.00	355.74
156	1.14	0.05	377.75	0.00	355.74
157	0.99	0.05	377.80	0.00	355.74
158	1.17	0.05	377.84	0.00	355.74
159	1.17	0.05	377.89	0.00	355.74
160	1.06	0.04	377.93	0.00	355.74
161	1.14	0.04	377.97	0.00	355.74
162	1.14	0.04	378.01	0.00	355.74
163	1.10	0.04	378.05	0.00	355.74

[illegible]



Light Distribution Curve [Unit: cd]

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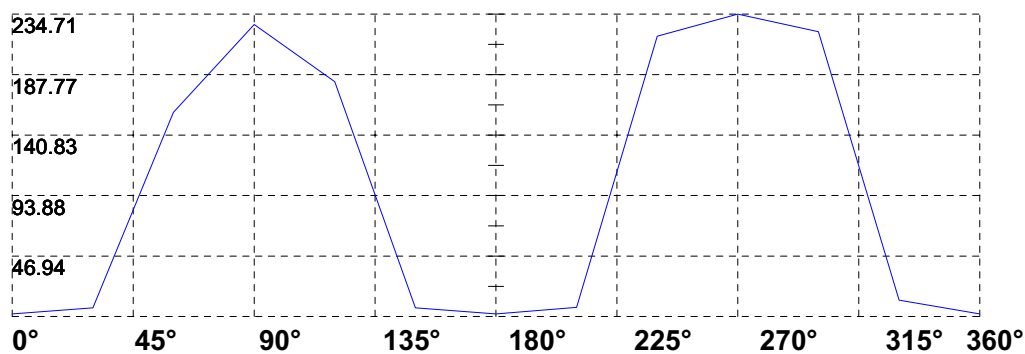
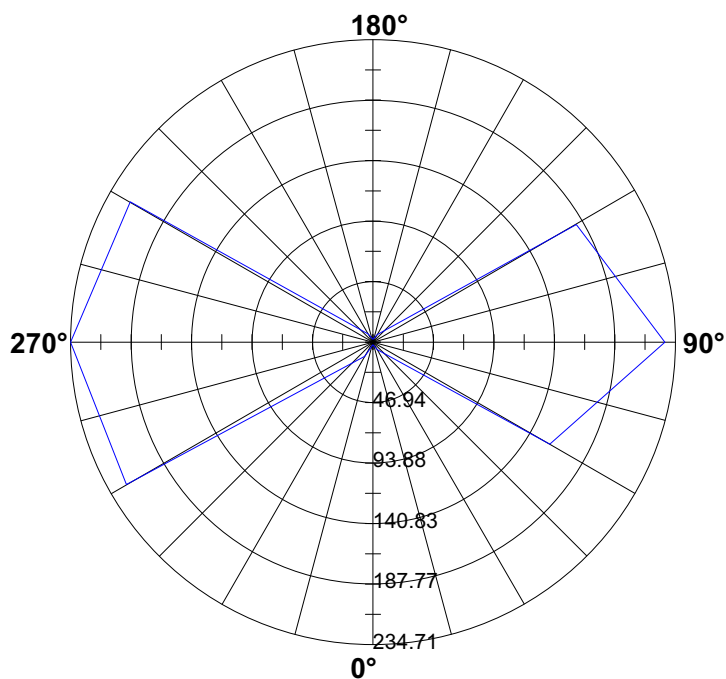
Light Distribution Curve (Linear)

(cd) | C0/C180: — C90/C270: — C270: —



Horizontal cone through Max.cd [Unit: cd]

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Light Distribution Curve (Linear)

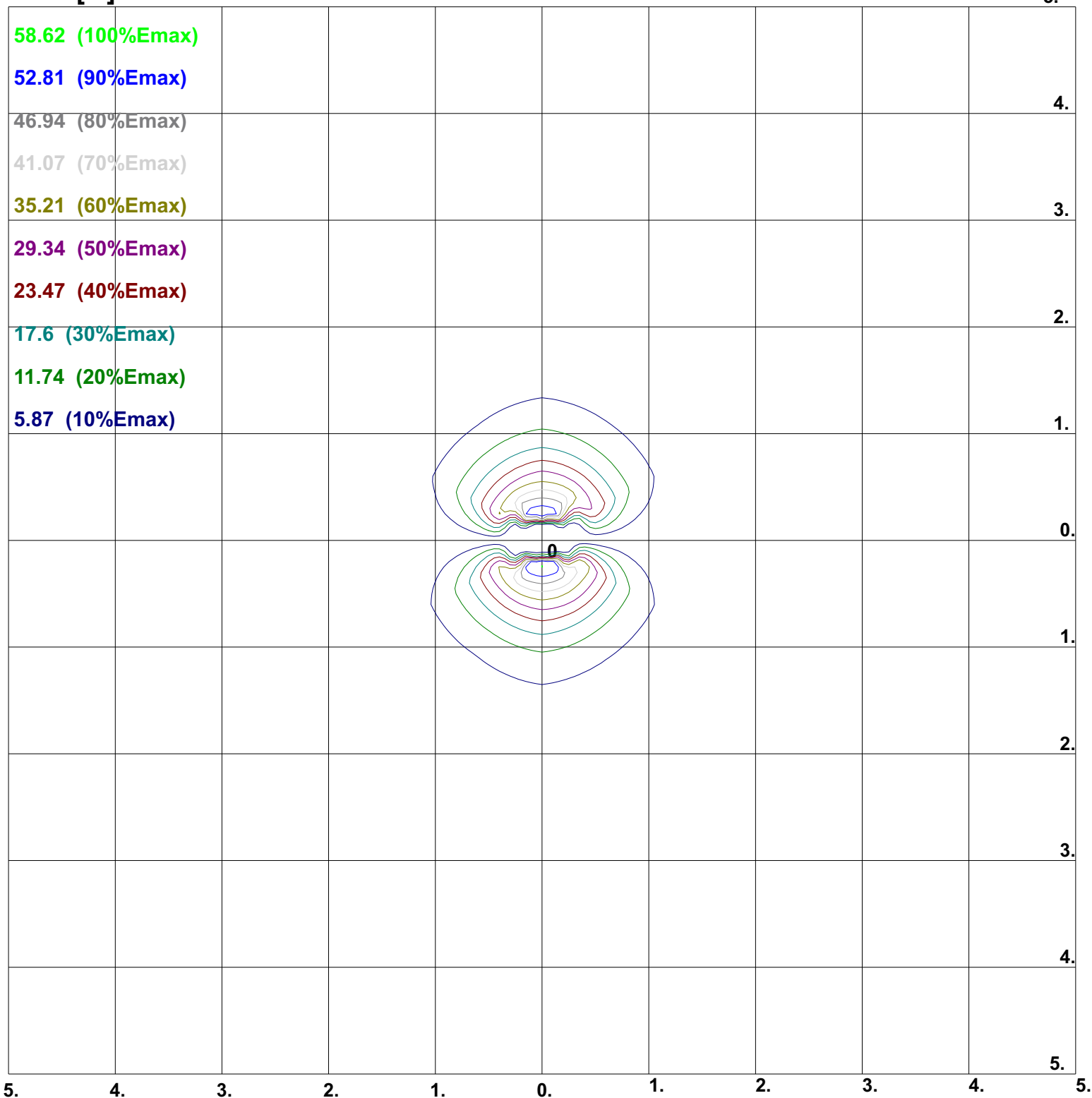
(cd) | γ13: —



ISO-Illuminance

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Unit: [lx]



Coordinate Scale: d/h

Height: 2 m

Max Illuminance : 58.68lx



Space ISO-lx

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Unit: [lx]

Illuminance

58.62

52.81

46.94

41.07

35.21

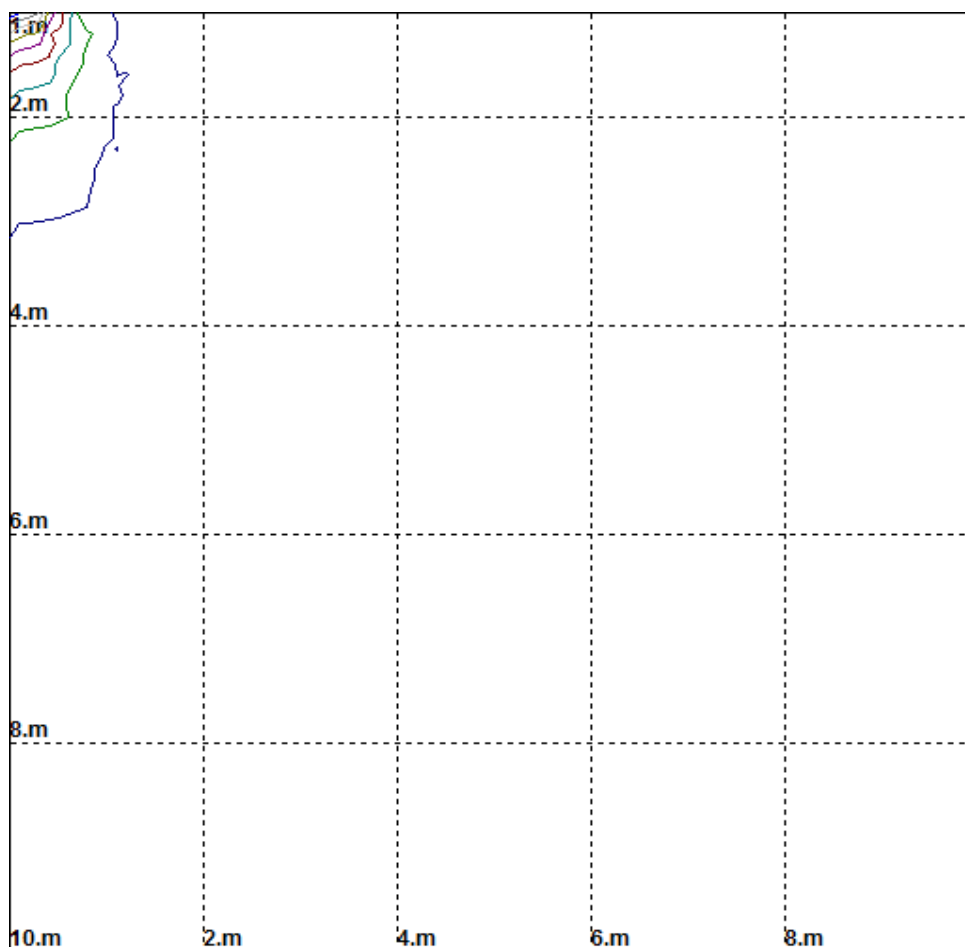
29.34

23.47

17.6

11.74

5.87





Luminance Limiting Curve (There is not luminous side)

Diameter: 0mm

Length: 28mm

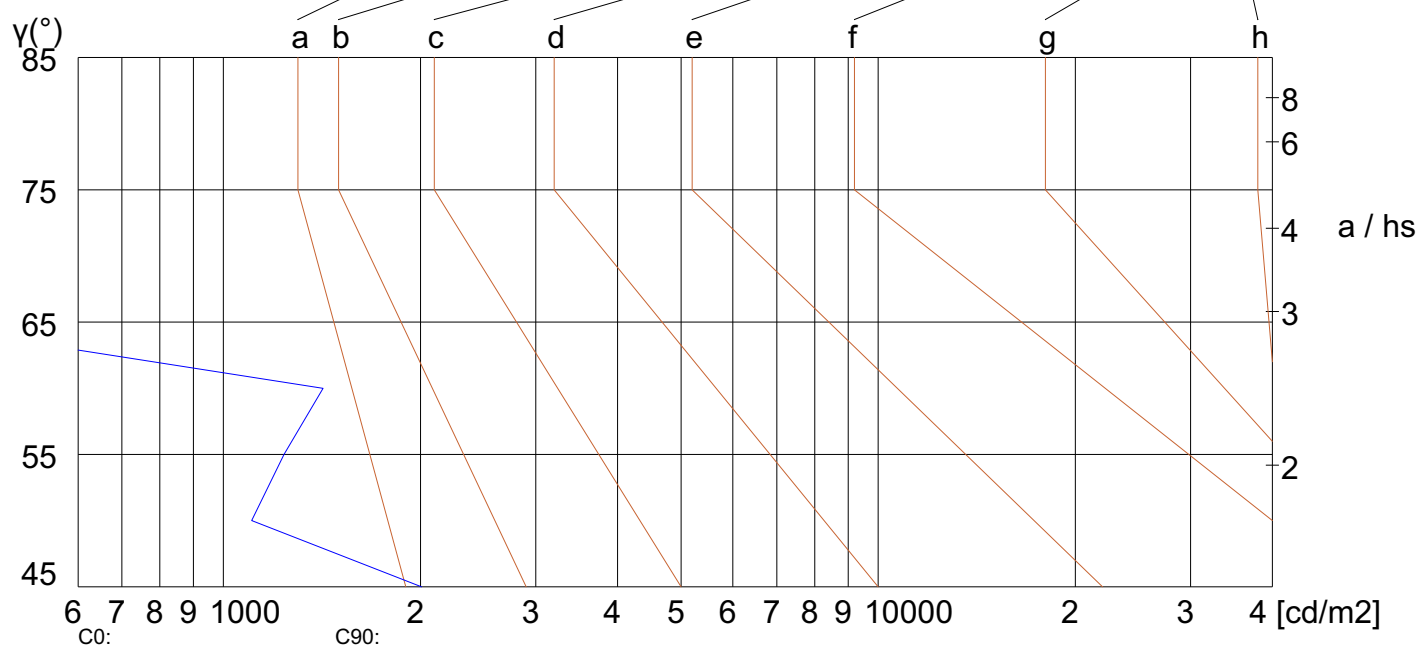
Width: 20mm

Height: 0mm

(cd/m²)

γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	316265	292688	269831	242802					
C90	2008	1104	1238	1420					

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



Luminance Limiting Curve (C0/C90)



utilization factor table for indoor luminaire

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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	0.54	0.54	0.54	0.53	0.53	0.53	0.50	0.50	0.50	0.48	0.48	0.48	0.46	0.46	0.46	0.45
1	0.48	0.47	0.47	0.48	0.47	0.46	0.46	0.45	0.44	0.44	0.43	0.42	0.41	0.40	0.39	0.36
2	0.41	0.40	0.39	0.41	0.40	0.39	0.40	0.38	0.37	0.38	0.37	0.35	0.36	0.34	0.33	0.31
3	0.36	0.34	0.34	0.36	0.34	0.33	0.35	0.33	0.32	0.34	0.32	0.30	0.32	0.30	0.28	0.26
4	0.31	0.30	0.29	0.31	0.29	0.28	0.31	0.29	0.27	0.30	0.28	0.26	0.29	0.26	0.24	0.22
5	0.27	0.26	0.25	0.27	0.26	0.24	0.27	0.25	0.23	0.27	0.24	0.22	0.26	0.23	0.21	0.19
6	0.24	0.22	0.22	0.24	0.22	0.21	0.24	0.22	0.20	0.24	0.21	0.19	0.24	0.21	0.18	0.17
7	0.21	0.20	0.19	0.21	0.20	0.19	0.22	0.20	0.18	0.22	0.19	0.17	0.22	0.19	0.16	0.15
8	0.19	0.18	0.17	0.19	0.18	0.17	0.20	0.17	0.16	0.20	0.17	0.15	0.20	0.17	0.15	0.13
9	0.17	0.16	0.15	0.17	0.16	0.15	0.18	0.16	0.14	0.18	0.15	0.14	0.18	0.15	0.13	0.12
10	0.15	0.14	0.13	0.16	0.14	0.13	0.16	0.14	0.13	0.17	0.14	0.12	0.17	0.14	0.12	0.10

