

## Luminaire Property

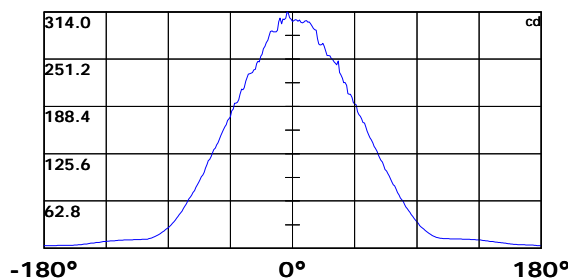
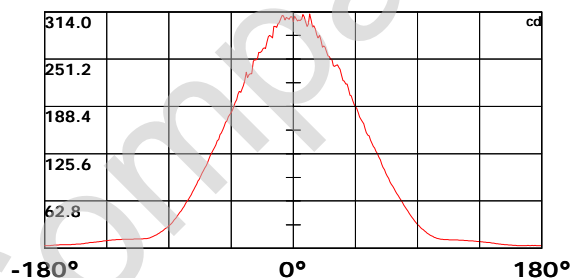
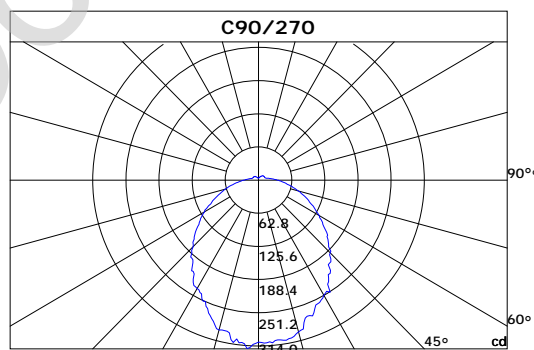
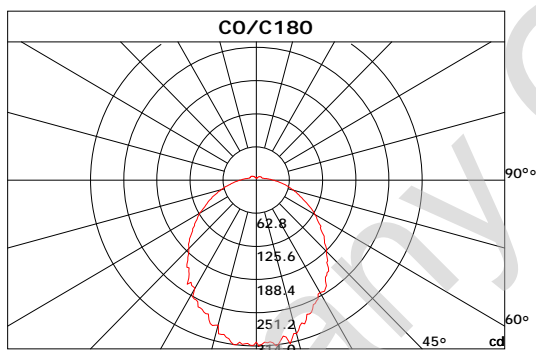
Luminaire Description: 20470LEDD  
 Luminaire Category:  
 Lamp Category:  
 Lamp Description:  
 Number of Lamp:  
 Lamp Lumens (lm): 945.63 Luminous  
 Length(m): 0.0  
 Luminous Width(m): 0.0  
 Luminous Height(m): 0.0

Voltage: 120.1 V  
 Current: 0.131 A  
 Power: 14.85 W  
 Power Factor: 0.939  
 Test Lab:  
 Photometric Type: Type C  
 Manufacture:

## Photometric Results

CIE Class: Direct  
 Luminaire Lumens: 945.63 lm  
 Efficiency: 63.6788 lm/W  
 Central Intensity: 301.331cd  
 Max. Intensity: 314.022cd  
 Field Angle(10%Imax): NA

Max.Intensity Angle: C:270.0 G:4.0  
 Beam Angle(50%Imax): 100.67, 97.65  
 Luminaire Efficacy Rating(LER) : 100.00%  
 Upward Ratio: NA  
 Downward Ratio: NA  
 Beamwidth(50%Imax): H=100.67V=97.65



## Light intensity data Unit[cd]

C\G	G0.0	G1.0	G2.0	G3.0	G4.0	G5.0	G6.0	G7.0	G8.0	G9.0
C0.0	301.3	308.2	305.4	301.7	303.4	302.2	304.5	310.5	307.6	301.0
C45.0	301.3	297.0	302.4	300.3	296.4	304.6	306.8	302.3	300.2	302.3
C90.0	301.3	302.2	303.6	303.3	301.6	303.5	300.1	299.2	300.3	301.9
C135.0	301.3	303.9	299.3	304.9	301.1	295.7	306.2	294.9	288.9	295.5
C180.0	301.3	307.7	307.6	304.0	305.2	306.6	303.0	308.6	309.1	305.3
C225.0	301.3	311.2	312.1	302.8	306.0	310.0	308.4	301.0	305.5	313.2
C270.0	301.3	304.0	306.0	312.1	314.0	305.8	303.6	304.5	298.3	305.7
C315.0	301.3	302.2	308.1	302.5	298.7	309.9	310.6	303.7	308.9	307.7
C360.0	301.3	308.2	305.4	301.7	303.4	302.2	304.5	310.5	307.6	301.0
C\G	G10.0	G11.0	G12.0	G13.0	G14.0	G15.0	G16.0	G17.0	G18.0	G19.0
C0.0	294.5	297.7	311.1	302.1	294.1	295.5	290.8	283.8	279.4	282.6
C45.0	300.5	295.3	289.5	279.4	278.6	281.3	281.4	271.1	272.7	267.0
C90.0	302.6	300.4	300.5	298.4	295.1	292.2	290.6	289.6	278.7	271.6
C135.0	297.4	290.0	289.2	284.2	279.3	279.0	277.7	275.2	266.8	262.6
C180.0	299.8	297.9	293.5	294.6	294.9	279.5	280.9	282.7	280.9	274.6
C225.0	307.7	300.1	298.0	300.3	297.3	302.7	298.5	292.9	299.7	293.3
C270.0	301.3	289.6	287.3	287.3	287.4	288.6	287.8	282.5	276.4	273.0
C315.0	305.7	296.2	295.3	302.6	303.9	304.8	298.8	291.5	289.9	285.9
C360.0	294.5	297.7	311.1	302.1	294.1	295.5	290.8	283.8	279.4	282.6
C\G	G20.0	G21.0	G22.0	G23.0	G24.0	G25.0	G26.0	G27.0	G28.0	G29.0
C0.0	276.7	267.4	268.6	267.1	262.1	255.6	254.9	251.8	250.2	242.5
C45.0	258.4	265.5	262.1	252.9	249.1	244.9	242.7	243.1	234.6	235.0
C90.0	269.9	270.2	272.3	268.2	261.4	256.2	256.1	255.5	252.2	250.8
C135.0	257.0	252.0	252.5	249.1	246.5	247.0	245.1	237.7	229.7	227.4
C180.0	265.3	266.2	264.8	261.5	260.0	260.2	252.2	250.2	250.5	248.5
C225.0	284.5	280.4	278.8	276.8	264.4	262.8	266.0	263.0	254.9	254.4
C270.0	268.4	265.0	257.6	255.0	247.4	248.3	245.3	237.8	236.9	233.7
C315.0	284.8	279.1	285.7	279.0	275.2	274.2	274.9	268.6	258.3	262.1
C360.0	276.7	267.4	268.6	267.1	262.1	255.6	254.9	251.8	250.2	242.5
C\G	G30.0	G31.0	G32.0	G33.0	G34.0	G35.0	G36.0	G37.0	G38.0	G39.0
C0.0	241.4	242.8	243.9	240.4	237.7	229.2	223.0	221.9	218.3	218.0
C45.0	234.1	234.2	222.9	217.7	216.6	212.9	209.1	203.6	198.1	194.6
C90.0	247.7	245.7	243.5	248.8	233.6	230.7	225.7	219.8	220.2	216.4
C135.0	223.3	223.0	213.2	211.6	210.5	207.1	202.0	195.9	191.7	189.1
C180.0	231.7	231.7	231.1	226.7	233.8	222.6	216.2	211.9	207.0	208.4
C225.0	247.5	247.4	241.7	239.7	245.0	237.0	230.5	226.7	227.5	222.9
C270.0	232.7	231.9	231.4	226.6	221.9	213.1	210.4	211.3	204.5	197.5
C315.0	254.1	245.5	245.4	253.4	240.9	232.2	234.5	233.5	233.6	227.8
C360.0	241.4	242.8	243.9	240.4	237.7	229.2	223.0	221.9	218.3	218.0

## Light intensity data Unit[cd]

C\G	G40.0	G41.0	G42.0	G43.0	G44.0	G45.0	G46.0	G47.0	G48.0	G49.0
C0.0	212.2	203.2	202.3	196.7	191.2	188.0	185.9	180.1	174.5	171.6
C45.0	191.9	191.7	187.4	182.1	176.9	174.1	168.7	164.6	161.7	158.9
C90.0	205.6	204.8	204.4	200.3	193.5	191.7	190.3	181.6	178.1	175.2
C135.0	186.0	185.4	183.1	176.2	170.9	166.0	162.5	159.7	157.7	153.0
C180.0	204.5	197.2	193.4	188.2	183.7	180.4	177.4	175.1	169.9	167.2
C225.0	224.4	215.3	208.2	203.4	198.9	195.8	194.8	193.7	191.0	184.8
C270.0	193.9	192.5	192.5	184.9	182.6	174.8	172.3	169.9	164.0	161.7
C315.0	222.3	218.7	217.7	207.8	202.6	196.7	195.4	191.4	185.7	181.9
C360.0	212.2	203.2	202.3	196.7	191.2	188.0	185.9	180.1	174.5	171.6
C\G	G50.0	G51.0	G52.0	G53.0	G54.0	G55.0	G56.0	G57.0	G58.0	G59.0
C0.0	168.0	165.4	159.0	153.6	150.1	149.5	143.7	139.3	135.3	133.4
C45.0	153.2	150.2	145.9	141.0	138.4	134.1	130.9	126.1	122.5	117.4
C90.0	172.0	167.0	166.4	161.2	155.7	150.7	146.9	144.3	139.9	135.3
C135.0	148.1	145.4	142.6	137.9	136.3	134.3	128.4	124.3	118.6	114.4
C180.0	161.8	157.8	153.1	150.9	144.5	142.5	137.7	133.9	130.4	126.9
C225.0	178.2	173.7	168.4	167.1	163.0	159.2	154.9	150.0	147.4	141.6
C270.0	157.4	153.7	149.7	144.3	140.0	137.4	133.3	131.1	127.0	122.2
C315.0	182.0	177.4	174.8	168.9	166.1	159.0	154.2	149.5	146.8	143.8
C360.0	168.0	165.4	159.0	153.6	150.1	149.5	143.7	139.3	135.3	133.4
C\G	G60.0	G61.0	G62.0	G63.0	G64.0	G65.0	G66.0	G67.0	G68.0	G69.0
C0.0	128.8	125.5	121.2	117.2	112.1	107.6	104.3	99.6	96.0	92.6
C45.0	113.3	109.2	106.7	104.3	101.7	95.5	91.8	88.4	84.3	81.2
C90.0	132.8	128.8	124.1	120.3	117.1	114.4	109.6	104.9	102.8	99.4
C135.0	111.9	107.6	103.1	99.9	98.4	93.9	88.6	84.5	82.3	80.3
C180.0	123.6	118.5	113.6	109.6	106.3	102.8	100.1	96.4	91.5	89.2
C225.0	136.9	134.6	131.3	130.4	122.3	117.7	115.0	112.8	107.9	104.0
C270.0	117.8	116.5	111.6	106.3	101.0	97.5	94.9	91.0	87.8	83.9
C315.0	140.3	137.9	133.1	131.0	127.6	122.2	117.0	111.8	109.7	106.2
C360.0	128.8	125.5	121.2	117.2	112.1	107.6	104.3	99.6	96.0	92.6
C\G	G70.0	G71.0	G72.0	G73.0	G74.0	G75.0	G76.0	G77.0	G78.0	G79.0
C0.0	88.0	85.2	82.2	79.2	75.9	72.8	69.8	66.7	64.4	60.7
C45.0	77.4	73.2	69.2	66.8	65.2	61.2	58.7	54.7	51.2	48.6
C90.0	96.1	92.2	87.9	84.1	82.8	78.3	74.3	70.5	66.9	64.9
C135.0	76.7	74.2	70.4	67.0	62.7	62.0	58.0	54.5	52.2	49.3
C180.0	84.9	81.4	77.8	75.0	70.9	67.9	64.7	62.0	59.3	55.9
C225.0	99.8	98.2	95.0	91.8	84.7	80.9	77.6	75.3	70.1	67.6
C270.0	80.9	76.7	74.0	70.7	68.1	65.6	62.0	59.0	56.2	52.8
C315.0	101.8	97.2	92.9	90.8	88.0	82.4	77.0	72.6	70.3	67.7
C360.0	88.0	85.2	82.2	79.2	75.9	72.8	69.8	66.7	64.4	60.7

## Light intensity data Unit[cd]

C\G	G80.0	G81.0	G82.0	G83.0	G84.0	G85.0	G86.0	G87.0	G88.0	G89.0
C0.0	57.4	55.2	52.4	49.5	46.4	43.7	41.0	38.8	36.2	33.8
C45.0	46.3	43.7	40.8	38.2	35.1	33.0	30.6	28.5	26.5	25.0
C90.0	61.9	58.2	54.8	52.6	49.9	47.6	44.9	42.4	39.6	37.3
C135.0	46.3	42.9	40.8	38.1	35.5	33.0	30.9	29.1	27.6	26.1
C180.0	52.8	49.7	47.9	45.1	42.6	40.0	38.0	35.7	33.2	31.5
C225.0	62.1	60.2	56.1	54.2	51.2	46.9	44.9	41.6	38.6	36.5
C270.0	49.6	47.5	44.9	42.2	40.0	37.4	35.1	33.4	31.1	28.9
C315.0	64.0	60.7	57.8	55.3	51.9	48.8	45.4	42.8	40.0	37.6
C360.0	57.4	55.2	52.4	49.5	46.4	43.7	41.0	38.8	36.2	33.8
C\G	G90.0	G91.0	G92.0	G93.0	G94.0	G95.0	G96.0	G97.0	G98.0	G99.0
C0.0	31.7	29.8	27.8	26.1	24.5	23.0	21.6	20.2	19.0	17.7
C45.0	23.4	22.0	20.6	19.4	18.3	17.2	16.4	15.6	14.9	14.4
C90.0	35.0	33.1	30.5	28.7	27.1	25.5	23.8	22.3	21.1	19.5
C135.0	24.6	23.4	22.1	20.9	19.8	18.8	18.0	17.2	16.6	16.0
C180.0	29.8	28.4	26.8	25.5	24.1	22.9	21.6	20.1	19.1	18.0
C225.0	34.0	31.7	29.4	27.4	25.8	24.4	22.9	21.4	20.1	18.9
C270.0	27.3	25.9	24.6	23.0	21.6	20.4	19.2	18.1	16.9	16.0
C315.0	34.7	32.2	30.0	27.3	25.5	23.9	22.4	20.9	19.5	18.4
C360.0	31.7	29.8	27.8	26.1	24.5	23.0	21.6	20.2	19.0	17.7
C\G	G100.0	G101.0	G102.0	G103.0	G104.0	G105.0	G106.0	G107.0	G108.0	G109.0
C0.0	16.7	15.7	14.7	14.0	13.2	12.7	12.3	12.0	11.9	11.7
C45.0	13.9	13.5	13.0	12.8	12.4	12.2	12.0	11.7	11.6	11.5
C90.0	18.2	17.1	16.2	15.4	14.6	13.9	13.6	13.4	13.1	13.0
C135.0	15.5	14.9	14.5	14.2	13.9	13.7	13.5	13.4	13.3	13.2
C180.0	17.0	16.0	15.2	14.5	13.8	13.2	12.9	12.8	12.7	12.6
C225.0	17.8	16.8	15.9	15.2	14.6	14.0	13.4	13.1	12.6	12.2
C270.0	15.3	14.5	13.8	13.1	12.7	12.3	12.1	11.9	11.8	11.8
C315.0	17.3	16.2	15.2	14.5	13.8	13.2	12.7	12.2	11.8	11.5
C360.0	16.7	15.7	14.7	14.0	13.2	12.7	12.3	12.0	11.9	11.7
C\G	G110.0	G111.0	G112.0	G113.0	G114.0	G115.0	G116.0	G117.0	G118.0	G119.0
C0.0	11.7	11.5	11.5	11.3	11.3	11.2	11.1	11.0	11.0	10.9
C45.0	11.4	11.4	11.4	11.4	11.4	11.3	11.2	11.2	11.2	11.3
C90.0	13.0	12.8	12.7	12.7	12.6	12.5	12.5	12.5	12.4	12.4
C135.0	13.2	13.1	13.1	13.0	13.0	13.0	12.9	13.0	12.9	12.9
C180.0	12.6	12.6	12.5	12.4	12.4	12.4	12.3	12.2	12.3	12.2
C225.0	11.9	11.6	11.4	11.2	11.2	11.1	11.0	11.0	10.9	10.9
C270.0	11.7	11.6	11.6	11.5	11.5	11.4	11.3	11.4	11.2	11.2
C315.0	11.2	10.9	10.6	10.4	10.2	10.1	10.0	10.0	10.0	9.9
C360.0	11.7	11.5	11.5	11.3	11.3	11.2	11.1	11.0	11.0	10.9

## Light intensity data Unit[cd]

C\G	G120.0	G121.0	G122.0	G123.0	G124.0	G125.0	G126.0	G127.0	G128.0	G129.0
C0.0	10.8	10.7	10.6	10.5	10.4	10.4	10.3	10.2	10.0	9.9
C45.0	11.1	11.1	11.0	10.9	11.0	10.8	10.8	10.7	10.6	10.5
C90.0	12.4	12.3	12.3	12.2	12.2	12.1	12.1	11.9	11.9	11.7
C135.0	12.9	12.9	12.8	12.7	12.6	12.5	12.4	12.4	12.2	12.2
C180.0	12.1	12.1	11.9	11.9	11.8	11.7	11.6	11.5	11.4	11.3
C225.0	10.9	10.8	10.8	10.8	10.7	10.7	10.6	10.7	10.6	10.6
C270.0	11.1	11.0	10.9	10.8	10.8	10.6	10.5	10.4	10.3	10.2
C315.0	9.9	9.9	9.9	9.8	9.8	9.7	9.7	9.7	9.6	9.6
C360.0	10.8	10.7	10.6	10.5	10.4	10.4	10.3	10.2	10.0	9.9
C\G	G130.0	G131.0	G132.0	G133.0	G134.0	G135.0	G136.0	G137.0	G138.0	G139.0
C0.0	9.7	9.6	9.4	9.3	9.1	8.9	8.7	8.6	8.4	8.1
C45.0	10.5	10.4	10.3	10.3	10.2	10.0	10.0	9.9	9.7	9.7
C90.0	11.7	11.6	11.4	11.3	11.2	11.1	10.9	10.8	10.5	10.3
C135.0	12.0	11.9	11.7	11.6	11.5	11.3	11.1	10.9	10.7	10.5
C180.0	11.1	11.0	10.9	10.7	10.5	10.2	10.0	9.8	9.5	9.3
C225.0	10.5	10.5	10.4	10.4	10.4	10.3	10.3	10.3	10.2	10.2
C270.0	10.0	9.9	9.7	9.6	9.4	9.2	9.1	8.8	8.6	8.3
C315.0	9.6	9.6	9.5	9.5	9.5	9.5	9.5	9.5	9.4	9.4
C360.0	9.7	9.6	9.4	9.3	9.1	8.9	8.7	8.6	8.4	8.1
C\G	G140.0	G141.0	G142.0	G143.0	G144.0	G145.0	G146.0	G147.0	G148.0	G149.0
C0.0	8.0	7.8	7.6	7.4	7.1	6.9	6.6	6.2	6.0	5.7
C45.0	9.4	9.3	9.1	8.8	8.6	8.3	7.9	7.6	7.4	7.1
C90.0	10.0	9.8	9.4	9.2	9.0	8.8	8.6	8.4	8.2	7.9
C135.0	10.2	10.0	9.7	9.4	9.0	8.7	8.3	8.0	7.6	7.2
C180.0	9.0	8.7	8.6	8.3	8.1	7.9	7.8	7.6	7.3	7.1
C225.0	10.1	10.0	9.8	9.7	9.5	9.4	9.1	8.9	8.6	8.4
C270.0	8.0	7.8	7.6	7.4	7.1	6.8	6.6	6.3	6.1	5.9
C315.0	9.4	9.3	9.2	9.1	9.0	8.8	8.7	8.4	8.3	8.0
C360.0	8.0	7.8	7.6	7.4	7.1	6.9	6.6	6.2	6.0	5.7
C\G	G150.0	G151.0	G152.0	G153.0	G154.0	G155.0	G156.0	G157.0	G158.0	G159.0
C0.0	5.5	5.3	5.1	4.9	4.8	4.6	4.5	4.3	4.2	4.1
C45.0	6.8	6.3	6.0	5.8	5.6	5.3	5.1	4.9	4.7	4.5
C90.0	7.7	7.4	7.2	6.9	6.6	6.3	6.2	6.0	5.7	5.5
C135.0	6.8	6.4	6.1	5.8	5.6	5.4	5.1	4.9	4.7	4.6
C180.0	6.8	6.6	6.3	6.1	5.9	5.7	5.5	5.4	5.2	5.2
C225.0	8.2	7.9	7.7	7.4	7.1	6.8	6.5	6.2	5.9	5.7
C270.0	5.7	5.4	5.2	5.0	4.8	4.6	4.4	4.3	4.2	4.1
C315.0	7.8	7.6	7.3	7.1	6.8	6.6	6.4	6.1	5.9	5.6
C360.0	5.5	5.3	5.1	4.9	4.8	4.6	4.5	4.3	4.2	4.1

## Light intensity data Unit[cd]

C\G	G160.0	G161.0	G162.0	G163.0	G164.0	G165.0	G166.0	G167.0	G168.0	G169.0
C0.0	4.0	3.9	3.8	3.7	3.7	3.6	3.7	3.7	3.7	3.8
C45.0	4.4	4.3	4.3	4.2	4.1	4.1	4.1	4.1	4.0	4.0
C90.0	5.3	5.2	5.1	4.9	4.8	4.8	4.7	4.6	4.6	4.5
C135.0	4.5	4.3	4.2	4.2	4.1	4.1	4.1	4.0	4.0	4.0
C180.0	5.1	5.0	4.9	4.9	4.8	4.7	4.7	4.6	4.6	4.5
C225.0	5.4	5.1	4.9	4.6	4.5	4.2	4.1	4.0	3.9	3.8
C270.0	4.1	4.0	4.0	3.9	4.0	3.9	3.9	3.9	3.9	3.9
C315.0	5.4	5.3	5.0	4.8	4.6	4.4	4.2	4.1	3.9	3.8
C360.0	4.0	3.9	3.8	3.7	3.7	3.6	3.7	3.7	3.7	3.8
C\G	G170.0	G171.0	G172.0	G173.0	G174.0	G175.0	G176.0	G177.0	G178.0	G179.0
C0.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.6	3.5
C45.0	4.0	3.8	3.8	3.5	3.4	3.4	3.4	3.3	3.3	3.3
C90.0	4.4	4.4	4.4	4.3	4.2	4.1	3.9	3.7	3.6	3.5
C135.0	3.9	3.9	3.6	3.5	3.4	3.4	3.4	3.4	3.4	3.4
C180.0	4.4	4.4	4.3	4.2	4.1	4.0	3.8	3.6	3.6	3.5
C225.0	3.8	3.8	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6
C270.0	3.9	3.8	3.8	3.8	3.7	3.5	3.5	3.5	3.5	3.5
C315.0	3.7	3.7	3.6	3.7	3.6	3.7	3.7	3.7	3.7	3.8
C360.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.6	3.5
C\G	G180.0									
C0.0	3.5									
C45.0	3.4									
C90.0	3.5									
C135.0	3.4									
C180.0	3.5									
C225.0	3.4									
C270.0	3.5									
C315.0	3.8									
C360.0	3.5									

## Zonal Luminous Flux Data

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0.0	301.33	0.00	0.00	0.00	0.00
0.0-1.0	304.56	0.29	0.29	0.03	0.03
1.0-2.0	305.57	0.88	1.17	0.09	0.12
2.0-3.0	303.97	1.46	2.62	0.15	0.28
3.0-4.0	303.29	2.03	4.66	0.21	0.49
4.0-5.0	304.80	2.62	7.27	0.28	0.77
5.0-6.0	305.41	3.21	10.48	0.34	1.11
6.0-7.0	303.09	3.78	14.26	0.40	1.51
7.0-8.0	302.34	4.33	18.59	0.46	1.97
8.0-9.0	304.07	4.91	23.50	0.52	2.49
9.0-10.0	301.19	5.48	28.98	0.58	3.06
10.0-11.0	295.89	5.97	34.95	0.63	3.70
11.0-12.0	295.53	6.47	41.41	0.68	4.38
12.0-13.0	293.62	6.99	48.40	0.74	5.12
13.0-14.0	291.32	7.49	55.89	0.79	5.91
14.0-15.0	290.45	7.99	63.88	0.84	6.76
15.0-16.0	288.33	8.48	72.36	0.90	7.65
16.0-17.0	283.66	8.91	81.27	0.94	8.59
17.0-18.0	280.56	9.30	90.57	0.98	9.58
18.0-19.0	276.33	9.69	100.26	1.02	10.60
19.0-20.0	270.63	10.01	110.27	1.06	11.66
20.0-21.0	268.21	10.35	120.62	1.09	12.76
21.0-22.0	267.79	10.77	131.39	1.14	13.89
22.0-23.0	263.68	11.15	142.54	1.18	15.07
23.0-24.0	258.27	11.41	153.95	1.21	16.28
24.0-25.0	256.15	11.70	165.65	1.24	17.52
25.0-26.0	254.65	12.06	177.70	1.28	18.79
26.0-27.0	250.97	12.37	190.07	1.31	20.10
27.0-28.0	245.91	12.58	202.65	1.33	21.43
28.0-29.0	244.31	12.83	215.48	1.36	22.79
29.0-30.0	239.05	13.05	228.53	1.38	24.17
30.0-31.0	237.77	13.27	241.80	1.40	25.57
31.0-32.0	234.15	13.52	255.32	1.43	27.00
32.0-33.0	233.10	13.77	269.09	1.46	28.46
33.0-34.0	229.99	14.01	283.10	1.48	29.94
34.0-35.0	223.09	14.07	297.17	1.49	31.43
35.0-36.0	218.94	14.07	311.24	1.49	32.91
36.0-37.0	215.56	14.17	325.42	1.50	34.41
37.0-38.0	212.61	14.29	339.71	1.51	35.92
38.0-39.0	209.32	14.40	354.11	1.52	37.45
39.0-40.0	205.08	14.45	368.56	1.53	38.98



## Zonal Luminous Flux Data

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
40.0-41.0	201.09	14.46	383.03	1.53	40.50
41.0-42.0	198.63	14.52	397.55	1.54	42.04
42.0-43.0	192.46	14.49	412.03	1.53	43.57
43.0-44.0	187.53	14.34	426.38	1.52	45.09
44.0-45.0	183.42	14.26	440.63	1.51	46.60
45.0-46.0	180.93	14.25	454.88	1.51	48.10
46.0-47.0	177.02	14.24	469.12	1.51	49.61
47.0-48.0	172.82	14.14	483.26	1.50	51.10
48.0-49.0	169.29	14.05	497.31	1.49	52.59
49.0-50.0	165.10	13.94	511.25	1.47	54.06
50.0-51.0	161.30	13.81	525.06	1.46	55.53
51.0-52.0	157.48	13.68	538.74	1.45	56.97
52.0-53.0	153.12	13.51	552.25	1.43	58.40
53.0-54.0	149.27	13.33	565.58	1.41	59.81
54.0-55.0	145.84	13.17	578.75	1.39	61.20
55.0-56.0	141.23	12.97	591.72	1.37	62.57
56.0-57.0	137.31	12.74	604.46	1.35	63.92
57.0-58.0	133.47	12.52	616.98	1.32	65.25
58.0-59.0	129.39	12.29	629.27	1.30	66.55
59.0-60.0	125.67	12.05	641.32	1.27	67.82
60.0-61.0	122.33	11.83	653.16	1.25	69.07
61.0-62.0	118.10	11.59	664.74	1.23	70.30
62.0-63.0	114.87	11.33	676.07	1.20	71.49
63.0-64.0	110.81	11.07	687.14	1.17	72.67
64.0-65.0	106.46	10.75	697.90	1.14	73.80
65.0-66.0	102.66	10.43	708.33	1.10	74.91
66.0-67.0	98.67	10.12	718.45	1.07	75.98
67.0-68.0	95.28	9.82	728.28	1.04	77.02
68.0-69.0	92.11	9.56	737.84	1.01	78.03
69.0-70.0	88.22	9.26	747.10	0.98	79.01
70.0-71.0	84.77	8.94	756.04	0.95	79.95
71.0-72.0	81.17	8.63	764.67	0.91	80.86
72.0-73.0	78.19	8.33	773.00	0.88	81.74
73.0-74.0	74.79	8.04	781.05	0.85	82.60
74.0-75.0	71.39	7.72	788.77	0.82	83.41
75.0-76.0	67.74	7.39	796.15	0.78	84.19
76.0-77.0	64.42	7.05	803.20	0.75	84.94
77.0-78.0	61.34	6.73	809.93	0.71	85.65
78.0-79.0	58.43	6.44	816.37	0.68	86.33
79.0-80.0	55.05	6.12	822.49	0.65	86.98
80.0-81.0	52.27	5.80	828.29	0.61	87.59



## Zonal Luminous Flux Data

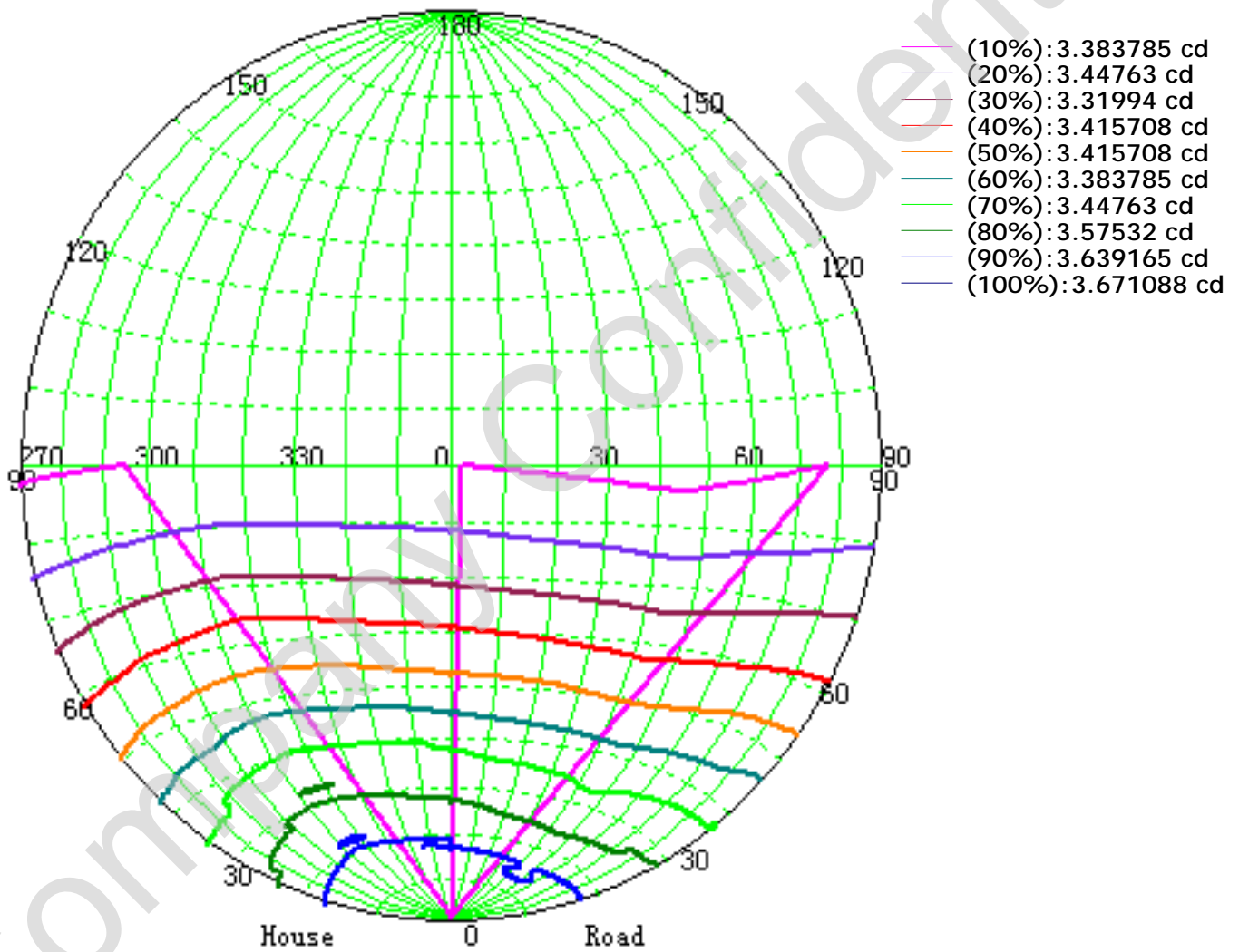
Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
81.0-82.0	49.44	5.52	833.80	0.58	88.17
82.0-83.0	46.91	5.24	839.04	0.55	88.73
83.0-84.0	44.08	4.96	844.00	0.52	89.25
84.0-85.0	41.30	4.66	848.66	0.49	89.75
85.0-86.0	38.85	4.38	853.04	0.46	90.21
86.0-87.0	36.52	4.12	857.17	0.44	90.64
87.0-88.0	34.09	3.87	861.03	0.41	91.05
88.0-89.0	32.09	3.63	864.66	0.38	91.44
89.0-90.0	30.08	3.41	868.07	0.36	91.80
90.0-91.0	28.30	3.20	871.27	0.34	92.14
91.0-92.0	26.47	3.00	874.27	0.32	92.45
92.0-93.0	24.79	2.81	877.08	0.30	92.75
93.0-94.0	23.34	2.63	879.71	0.28	93.03
94.0-95.0	22.02	2.48	882.19	0.26	93.29
95.0-96.0	20.74	2.33	884.53	0.25	93.54
96.0-97.0	19.48	2.19	886.72	0.23	93.77
97.0-98.0	18.40	2.06	888.78	0.22	93.99
98.0-99.0	17.37	1.94	890.72	0.21	94.19
99.0-100.0	16.46	1.83	892.54	0.19	94.39
100.0-101.0	15.59	1.73	894.27	0.18	94.57
101.0-102.0	14.82	1.63	895.91	0.17	94.74
102.0-103.0	14.20	1.55	897.46	0.16	94.91
103.0-104.0	13.63	1.48	898.94	0.16	95.06
104.0-105.0	13.16	1.42	900.36	0.15	95.21
105.0-106.0	12.81	1.37	901.74	0.15	95.36
106.0-107.0	12.57	1.33	903.07	0.14	95.50
107.0-108.0	12.35	1.30	904.37	0.14	95.64
108.0-109.0	12.19	1.28	905.65	0.13	95.77
109.0-110.0	12.06	1.25	906.90	0.13	95.90
110.0-111.0	11.94	1.23	908.14	0.13	96.03
111.0-112.0	11.84	1.21	909.35	0.13	96.16
112.0-113.0	11.74	1.19	910.54	0.13	96.29
113.0-114.0	11.70	1.18	911.72	0.12	96.41
114.0-115.0	11.64	1.16	912.89	0.12	96.54
115.0-116.0	11.55	1.15	914.03	0.12	96.66
116.0-117.0	11.54	1.13	915.17	0.12	96.78
117.0-118.0	11.49	1.12	916.29	0.12	96.90
118.0-119.0	11.45	1.11	917.39	0.12	97.01
119.0-120.0	11.38	1.09	918.48	0.12	97.13
120.0-121.0	11.34	1.07	919.56	0.11	97.24
121.0-122.0	11.28	1.06	920.61	0.11	97.35

## Zonal Luminous Flux Data

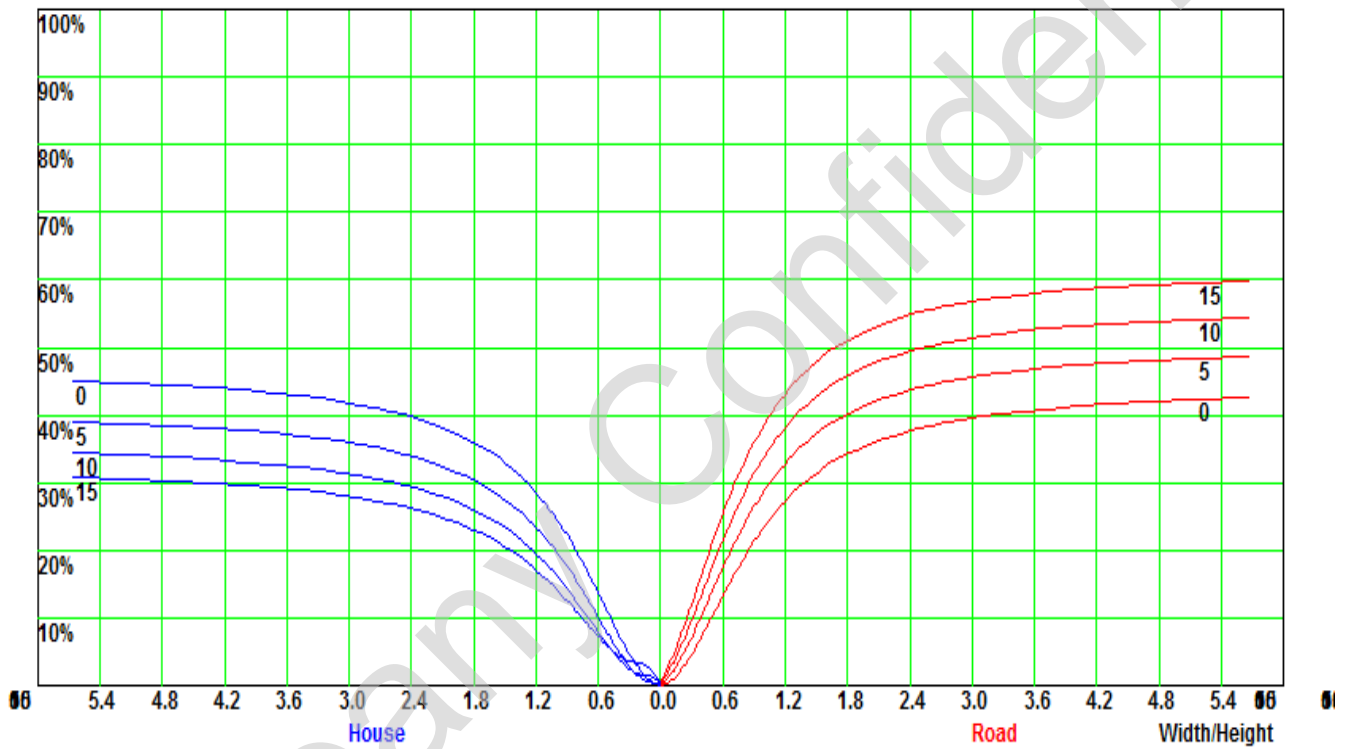
Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
122.0-123.0	11.22	1.04	921.65	0.11	97.46
123.0-124.0	11.15	1.02	922.68	0.11	97.57
124.0-125.0	11.08	1.00	923.68	0.11	97.68
125.0-126.0	11.01	0.99	924.67	0.10	97.78
126.0-127.0	10.93	0.97	925.64	0.10	97.89
127.0-128.0	10.84	0.95	926.58	0.10	97.99
128.0-129.0	10.74	0.93	927.51	0.10	98.08
129.0-130.0	10.64	0.90	928.41	0.10	98.18
130.0-131.0	10.56	0.88	929.30	0.09	98.27
131.0-132.0	10.43	0.86	930.16	0.09	98.36
132.0-133.0	10.34	0.84	931.00	0.09	98.45
133.0-134.0	10.22	0.82	931.82	0.09	98.54
134.0-135.0	10.08	0.79	932.61	0.08	98.62
135.0-136.0	9.97	0.77	933.38	0.08	98.70
136.0-137.0	9.81	0.75	934.13	0.08	98.78
137.0-138.0	9.64	0.72	934.85	0.08	98.86
138.0-139.0	9.47	0.69	935.54	0.07	98.93
139.0-140.0	9.28	0.67	936.21	0.07	99.00
140.0-141.0	9.08	0.64	936.85	0.07	99.07
141.0-142.0	8.87	0.61	937.46	0.06	99.14
142.0-143.0	8.64	0.58	938.05	0.06	99.20
143.0-144.0	8.43	0.56	938.60	0.06	99.26
144.0-145.0	8.20	0.53	939.13	0.06	99.31
145.0-146.0	7.96	0.50	939.63	0.05	99.37
146.0-147.0	7.68	0.47	940.11	0.05	99.42
147.0-148.0	7.42	0.44	940.55	0.05	99.46
148.0-149.0	7.17	0.42	940.97	0.04	99.51
149.0-150.0	6.92	0.39	941.36	0.04	99.55
150.0-151.0	6.62	0.37	941.73	0.04	99.59
151.0-152.0	6.36	0.34	942.07	0.04	99.62
152.0-153.0	6.12	0.32	942.38	0.03	99.66
153.0-154.0	5.90	0.29	942.68	0.03	99.69
154.0-155.0	5.66	0.27	942.95	0.03	99.72
155.0-156.0	5.45	0.25	943.20	0.03	99.74
156.0-157.0	5.27	0.23	943.44	0.02	99.77
157.0-158.0	5.08	0.22	943.66	0.02	99.79
158.0-159.0	4.90	0.20	943.86	0.02	99.81
159.0-160.0	4.77	0.19	944.04	0.02	99.83
160.0-161.0	4.63	0.17	944.21	0.02	99.85
161.0-162.0	4.51	0.16	944.37	0.02	99.87
162.0-163.0	4.39	0.15	944.52	0.02	99.88



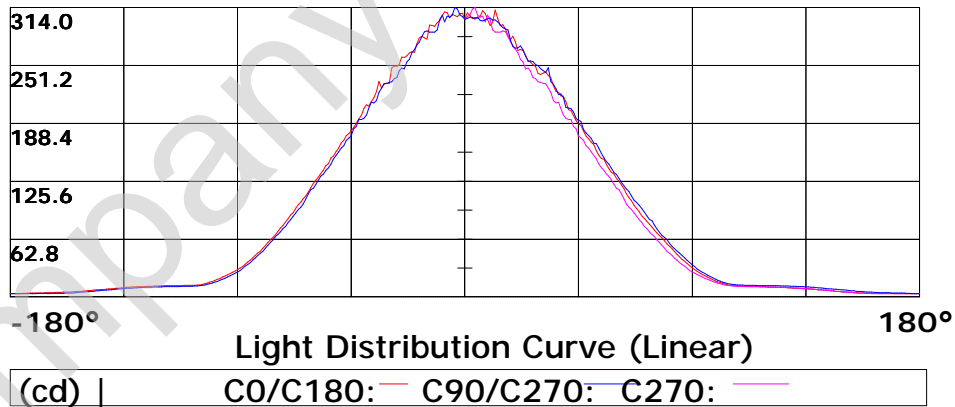
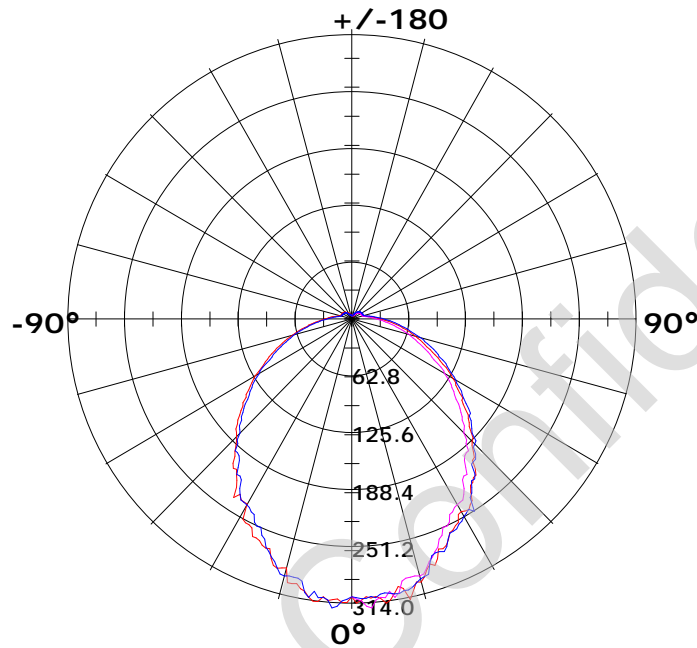
### Iso-Candela [cd]

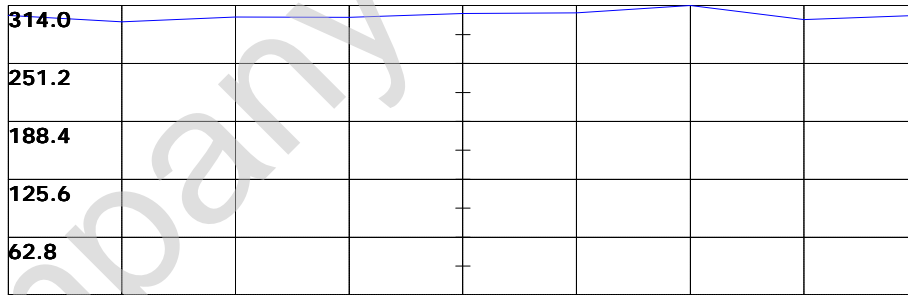
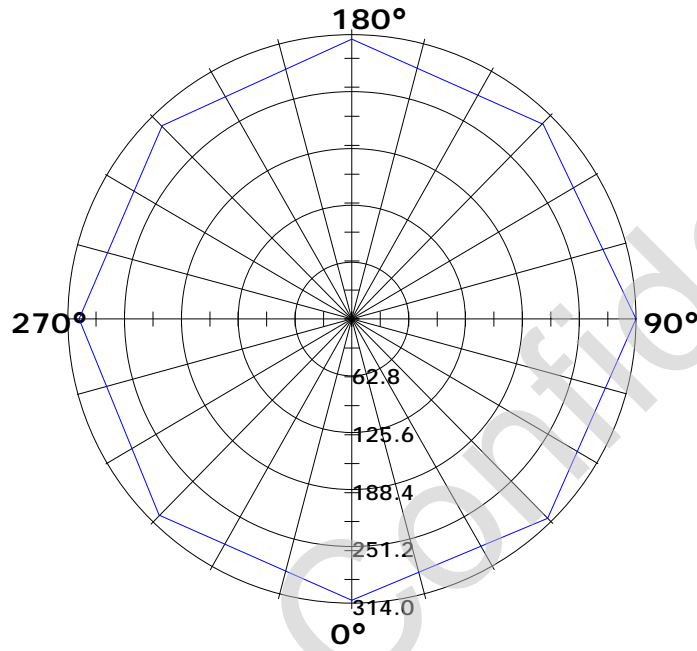


### Coefficient Utilization Curve



Light Distribution Curve [Unit: cd]

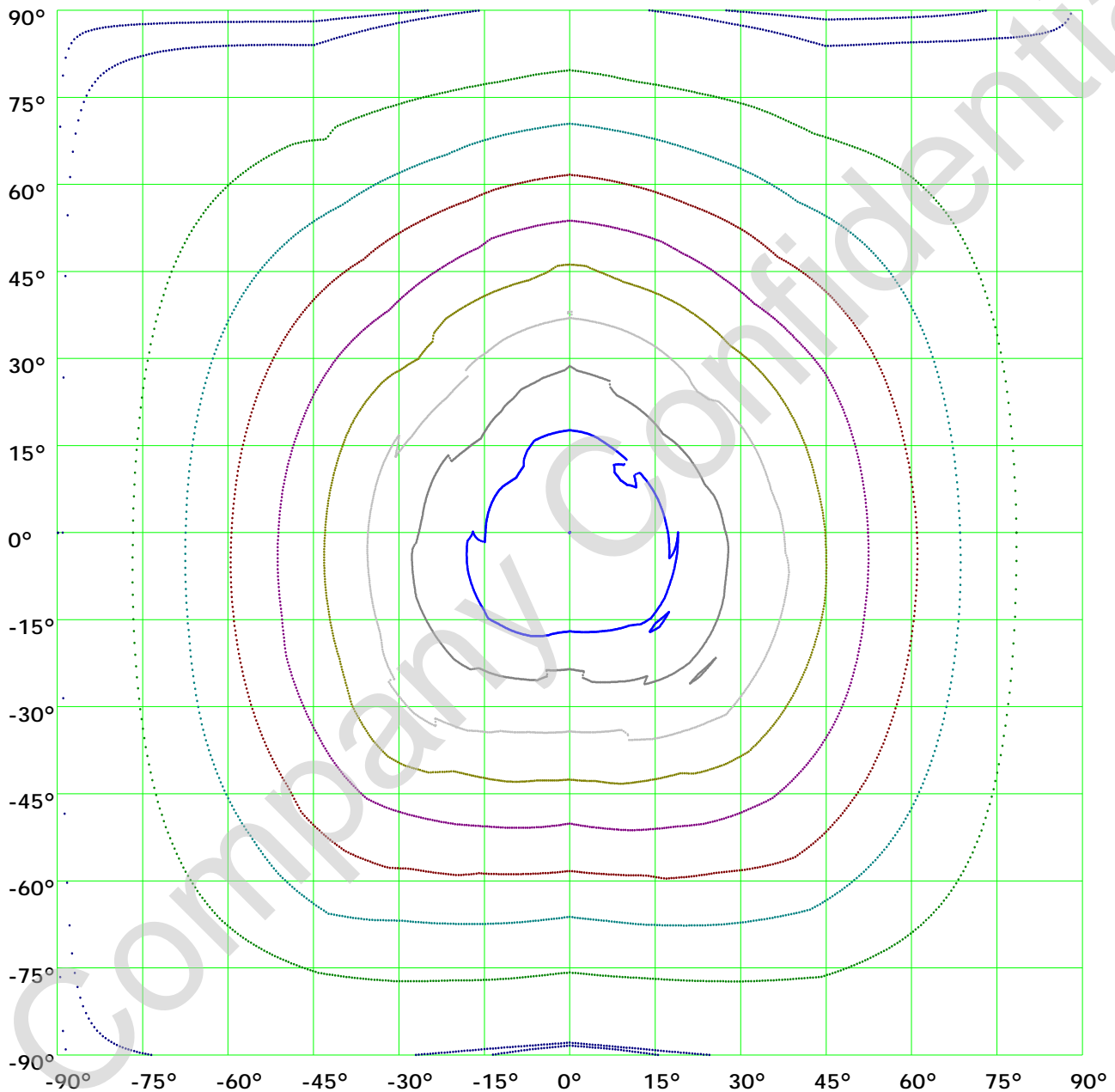




-180° 180°  
**Light Distribution Curve (Linear)**  
 (cd) | γ4: —

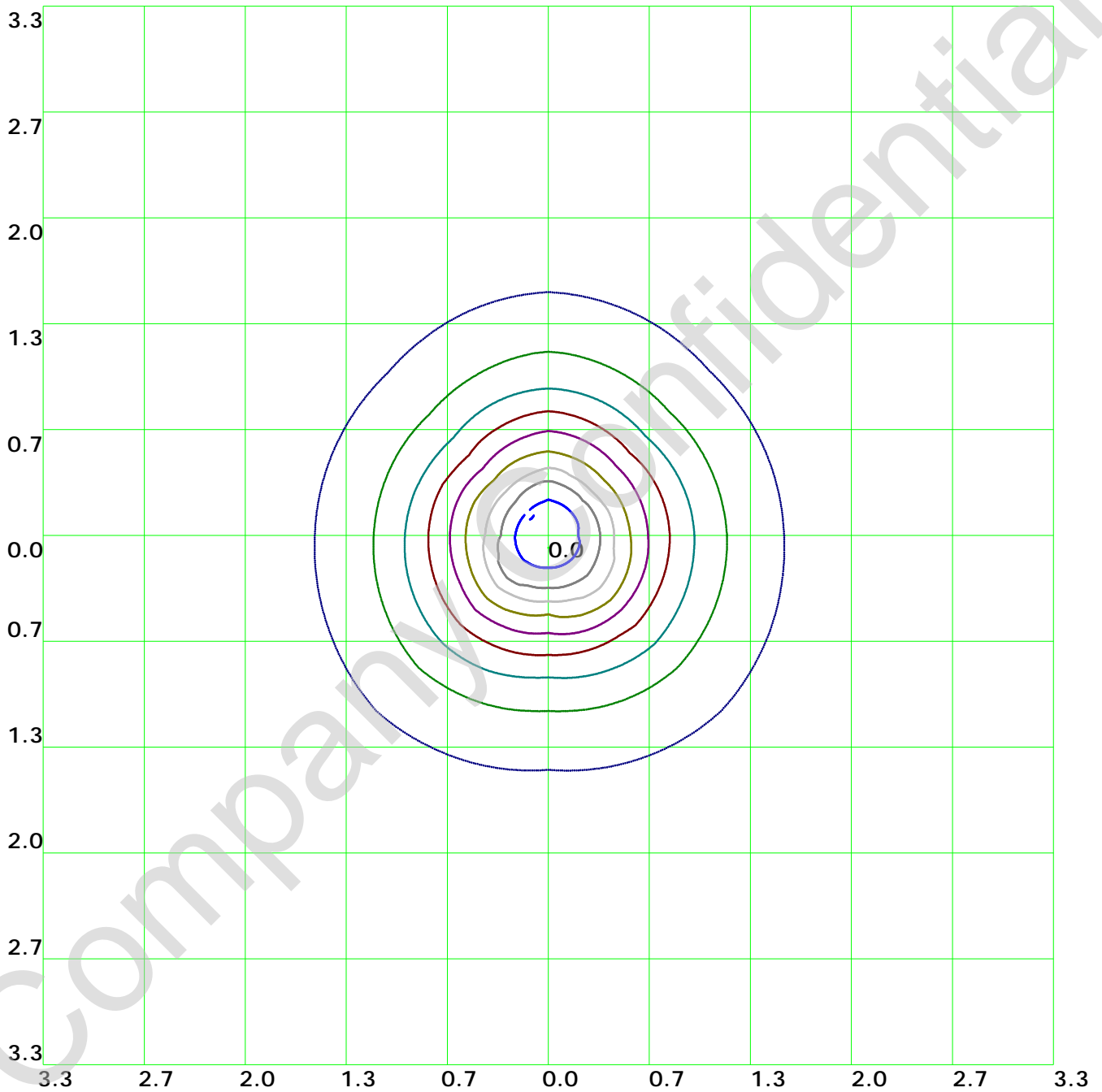


### Isocandela(rectangle)



(10%): 31.4cd	(20%): 62.8cd	(30%): 94.2cd	(40%): 125.6cd
(50%): 157.cd	(60%): 188.4cd	(70%): 219.8cd	(80%): 251.2cd
(90%): 282.6cd	(100%): 314.cd		

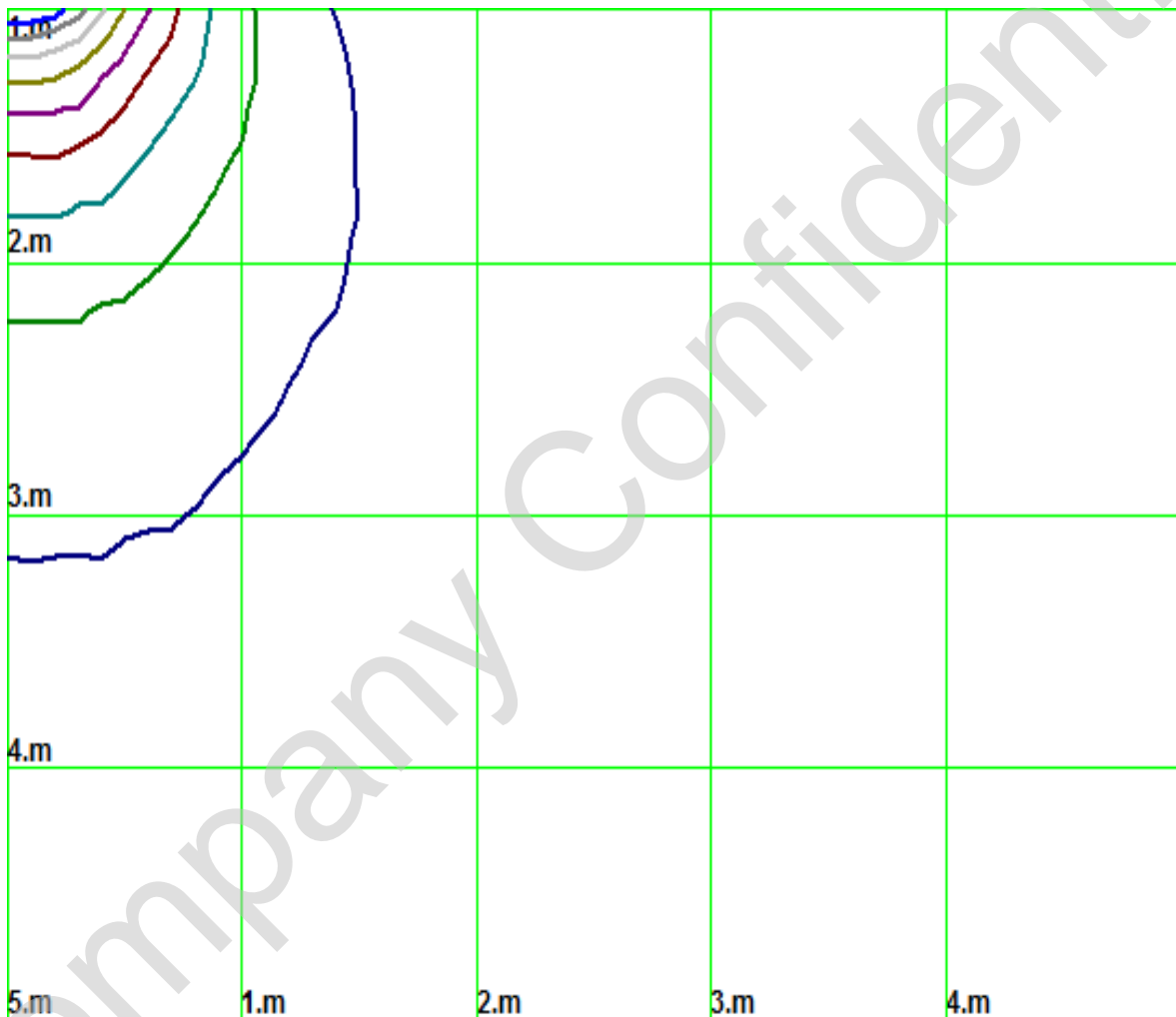
### Isolx curve



Height: 1 m

- |                  |                   |                  |                  |
|------------------|-------------------|------------------|------------------|
| — (10%): 31.4lx  | — (20%): 62.8lx   | — (30%): 94.2lx  | — (40%): 125.6lx |
| — (50%): 157.1lx | — (60%): 188.4lx  | — (70%): 219.8lx | — (80%): 251.2lx |
| — (90%): 282.6lx | — (100%): 313.7lx |                  |                  |

### Space Isolx Curve



- (10%): 31.4lx      — (20%): 62.8lx      — (30%): 94.2lx      — (40%): 125.6lx
- (50%): 157.1lx    — (60%): 188.4lx    — (70%): 219.8lx    — (80%): 251.2lx
- (90%): 282.6lx    — (100%): 313.7lx

### Luminance Limiting Curve

Diameter: 0mm

Length: 0mm

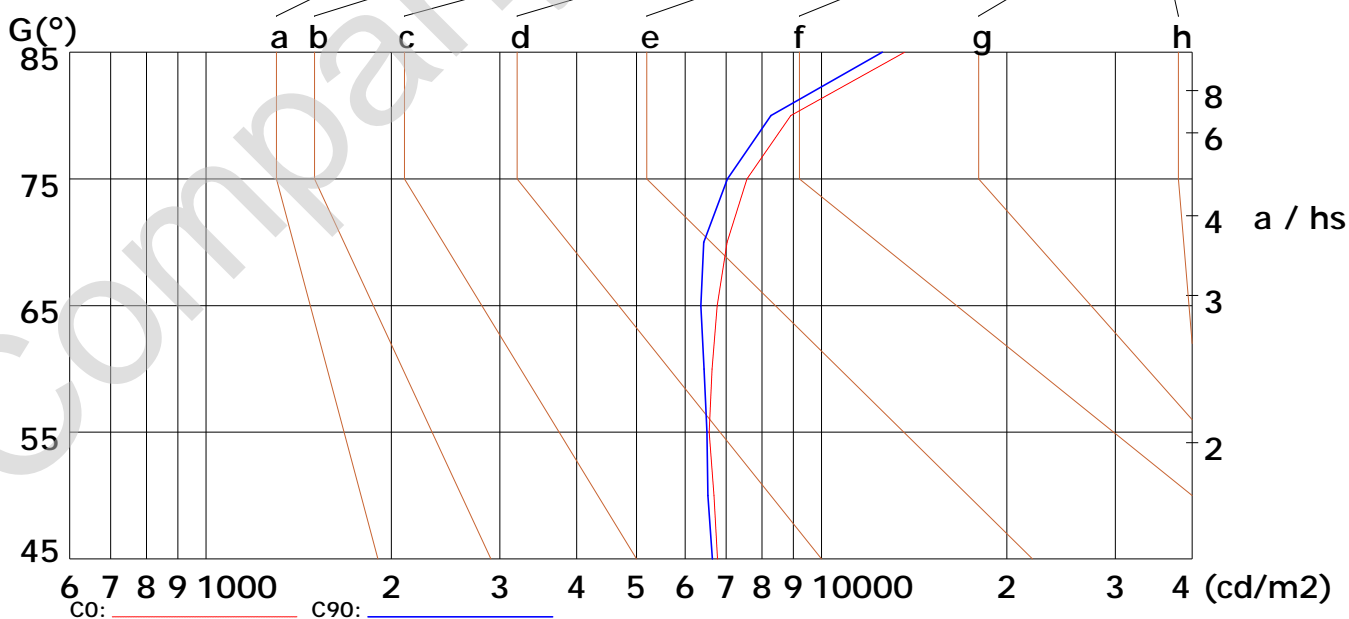
Width: 0mm

Height: 0mm

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

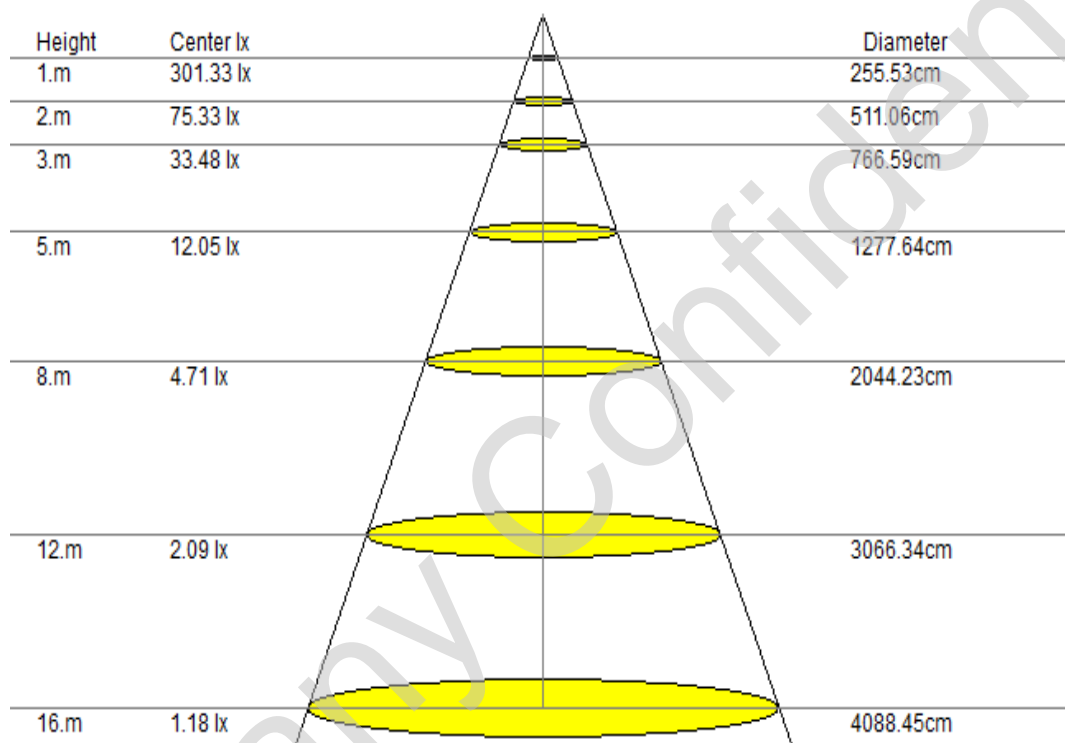
$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	6776	6688	6570	6638	6768	7023	7567	8911	13644
C90	6647	6536	6514	6439	6366	6435	7027	8268	12545

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

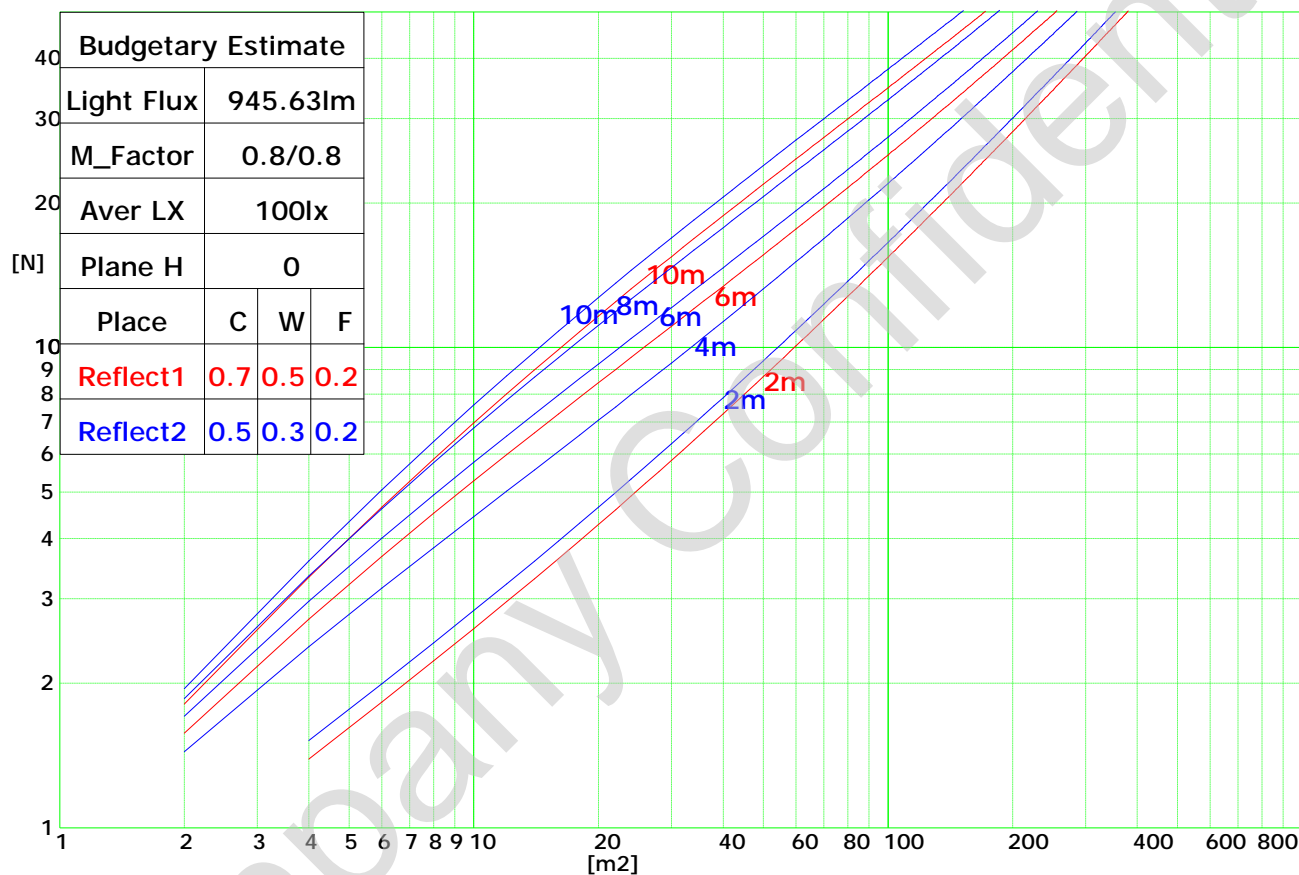


Beam Angle: 103.90° (50%Imax)

### Coefficients of Utilization

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	1.03	1.01	0.99	1.01	0.99	0.97	0.98	0.96	0.93	0.93	0.91	0.88	0.87	0.85	0.82	0.77
2	0.88	0.85	0.83	0.87	0.84	0.82	0.85	0.81	0.78	0.82	0.78	0.74	0.77	0.73	0.69	0.65
3	0.76	0.73	0.71	0.76	0.72	0.70	0.75	0.70	0.67	0.73	0.68	0.64	0.69	0.64	0.60	0.55
4	0.67	0.64	0.62	0.67	0.63	0.61	0.67	0.62	0.58	0.65	0.60	0.56	0.63	0.57	0.52	0.48
5	0.60	0.57	0.55	0.60	0.56	0.54	0.60	0.55	0.52	0.59	0.54	0.49	0.58	0.52	0.47	0.43
6	0.54	0.51	0.49	0.54	0.51	0.48	0.55	0.50	0.46	0.54	0.49	0.44	0.53	0.47	0.42	0.38
7	0.49	0.46	0.45	0.50	0.46	0.44	0.50	0.45	0.42	0.50	0.45	0.40	0.50	0.43	0.38	0.35
8	0.45	0.43	0.41	0.46	0.42	0.40	0.47	0.42	0.39	0.47	0.41	0.37	0.47	0.40	0.35	0.32
9	0.42	0.39	0.38	0.42	0.39	0.37	0.43	0.39	0.36	0.44	0.38	0.34	0.44	0.37	0.33	0.30
10	0.39	0.37	0.35	0.40	0.37	0.35	0.41	0.36	0.33	0.41	0.36	0.32	0.41	0.35	0.30	0.28

## Indoor Budgetary Estimate Chart





### UGR Glare Index

Ceiling	70	70	50	50	30	70	70	50	50	30	
Wall	50	30	50	30	30	50	30	50	30	30	
Floor	20	20	20	20	20	20	20	20	20	20	
Room Size	Left to light axis direction of observation					Direction of light axis parallel observation					
X	Y										
2H	2H	14.8	15.9	15.1	15.9	16.3	14.7	15.9	14.9	15.9	16.3
	3H	16.2	17.4	16.7	17.7	18.0	16.2	17.4	16.5	17.9	18.0
	4H	16.9	18.1	17.4	18.6	18.7	17.0	18.0	17.3	18.6	18.8
	6H	17.5	18.5	18.0	18.9	19.0	17.3	18.3	17.8	18.8	19.1
	8H	17.9	18.9	18.2	18.9	19.3	17.8	18.7	18.0	19.0	19.3
4H	12H	18.0	18.8	18.2	19.3	19.5	17.8	18.6	18.0	19.2	19.5
	2H	15.6	16.6	15.9	16.9	17.1	15.6	16.6	15.8	16.8	17.0
	3H	17.5	18.4	17.8	18.3	18.7	17.3	18.2	17.5	18.4	18.8
	4H	18.2	19.0	18.5	19.1	19.5	18.0	18.9	18.4	19.2	19.5
	6H	18.8	19.5	19.2	19.8	20.1	18.8	19.4	19.0	19.7	20.1
8H	8H	19.0	19.8	19.5	19.9	20.4	19.0	19.6	19.2	19.9	20.3
	12H	19.3	19.9	19.7	20.2	20.4	19.2	19.7	19.6	20.2	20.5
	4H	18.6	19.2	18.8	19.4	19.9	18.4	19.0	18.8	19.4	19.8
	6H	19.4	19.8	19.7	20.2	20.7	19.2	19.9	19.7	20.2	20.6
	8H	19.8	20.2	20.1	20.5	20.9	19.6	20.0	20.0	20.5	20.9
12H	12H	19.9	20.5	20.4	20.7	21.3	19.9	20.4	20.2	20.7	21.1
	4H	18.6	19.1	18.9	19.5	19.9	18.4	19.0	18.8	19.6	19.9
	6H	19.6	20.0	19.9	20.2	20.6	19.3	19.8	19.8	20.2	20.7
	8H	19.9	20.4	20.3	20.7	21.1	19.9	20.3	20.2	20.6	21.1