

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P271430

Luminaire Tested: **ISC-AF-XXX-LED-E1-T4W-7027-XXB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271430  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29757)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISC-AF-XXX-LED-E1-T4W-7027-XXB  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE, EMERGENCY MODE WITH BATTERY  
BACKPACK BOX  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 551.6 lumens  
Efficiency: N/A  
Efficacy: 42.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B0 - U0 - G0

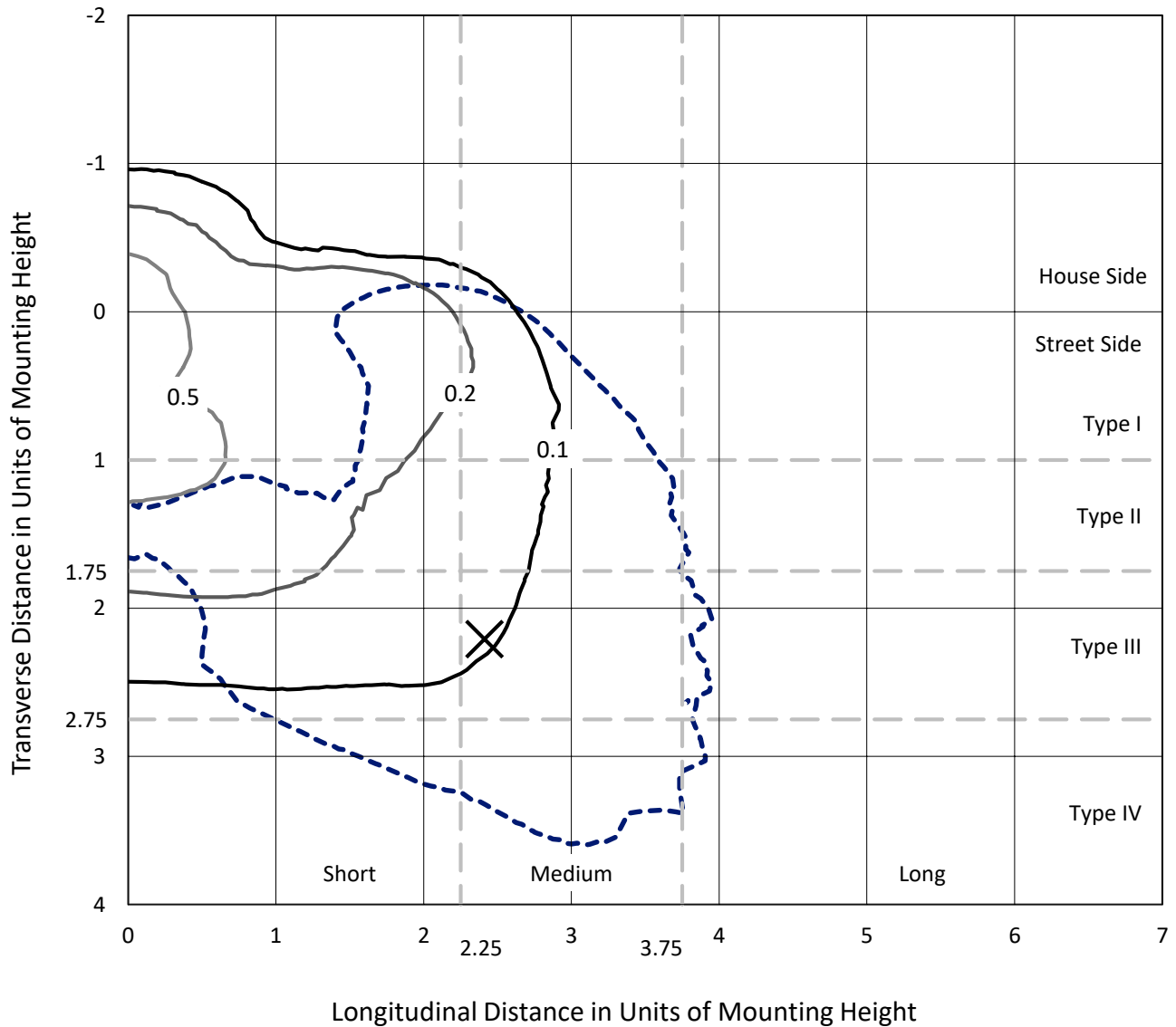
Input Watts (W): 13  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P271430  
 CATALOG NUMBER: ISC-AF-XXX-LED-E1-T4W-7027-XXB

### Iso-Footcandle Lines of Horizontal Illumination

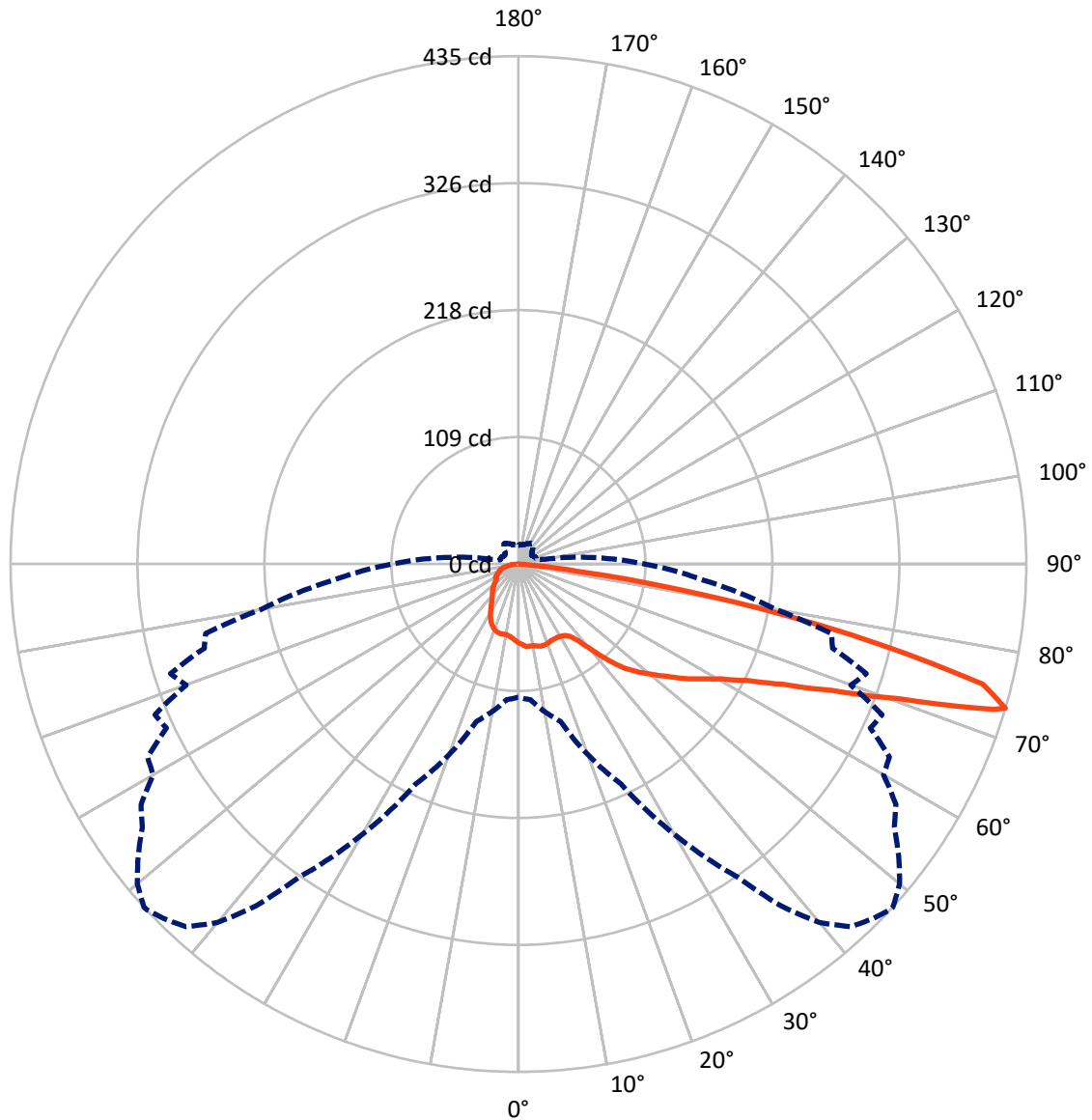
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.8 fc  
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P271430  
CATALOG NUMBER: ISC-AF-XXX-LED-E1-T4W-7027-XXB

### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P271430

CATALOG NUMBER: ISC-AF-XXX-LED-E1-T4W-7027-XXB

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	110.2	0.0	110.2
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	441.4	0.0	441.4
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	551.6	0.0	551.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.4	1.2
10°-20°	19.2	3.5
20°-30°	29.5	5.3
30°-40°	43.0	7.8
40°-50°	71.0	12.9
50°-60°	111.1	20.1
60°-70°	150.7	27.3
70°-80°	111.6	20.2
80°-90°	9.0	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	551.6	100.0
0°-180°	551.6	100.0



REPORT NUMBER: P271430

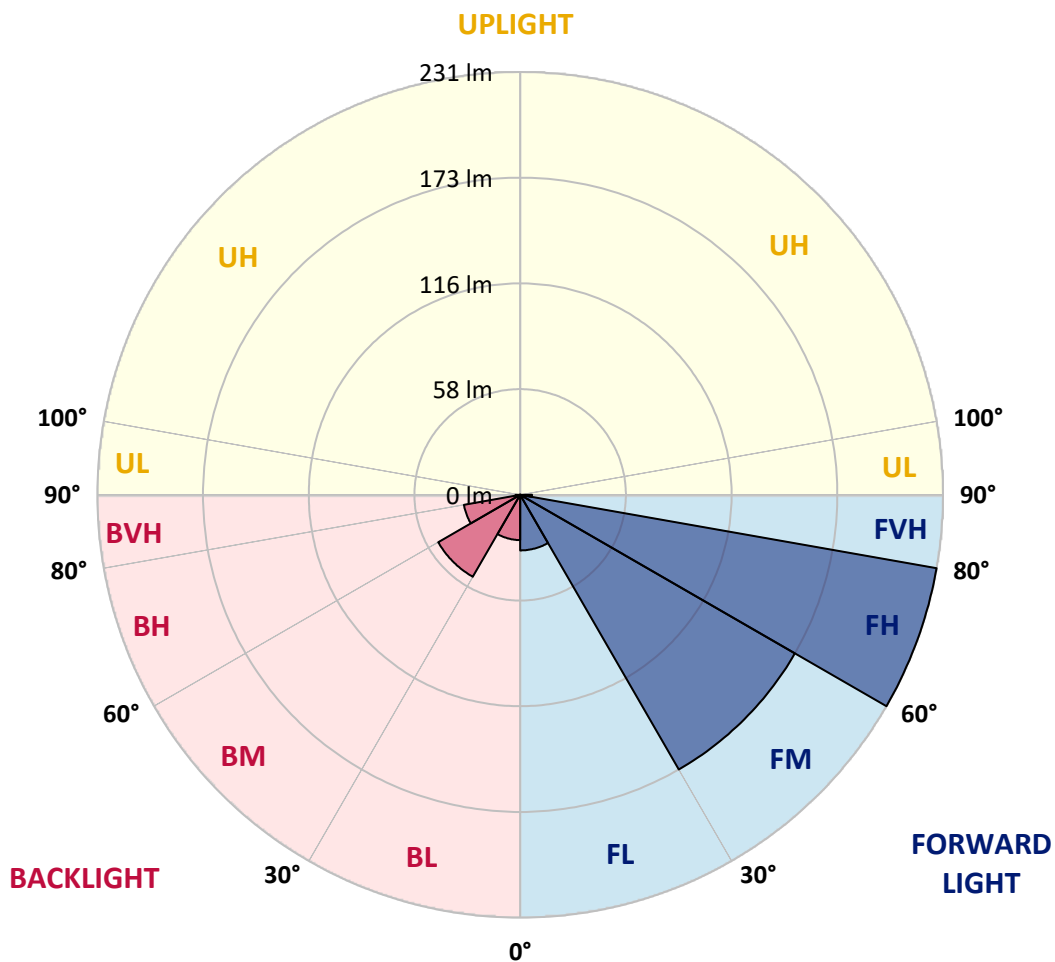
CATALOG NUMBER: ISC-AF-XXX-LED-E1-T4W-7027-XXB

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	30.4	5.5			
FM	(30°-60°)	173.4	31.4			
FH	(60°-80°)	231.1	41.9			G0/660
FVH	(80°-90°)	6.5	1.2			G0/10
BL	(0°-30°)	24.7	4.5	B0/110		
BM	(30°-60°)	51.8	9.4	B0/220		
BH	(60°-80°)	31.2	5.7	B0/110		G0/110
BVH	(80°-90°)	2.5	0.5			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**

Type IV Medium





REPORT NUMBER: P271430

CATALOG NUMBER: ISC-AF-XXX-LED-E1-T4W-7027-XXB

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
0°	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
2.5°	71.8	71.5	71.1	70.9	70.2	69.9	69.8	69.6	70.1	69.8	69.2
5°	76.3	76.0	75.2	74.1	73.0	72.3	72.1	71.8	71.8	71.3	71.1
7.5°	79.6	79.4	78.3	76.6	74.8	73.6	72.9	72.3	72.4	72.1	71.1
10°	82.6	82.4	80.5	78.5	75.7	74.3	73.4	72.4	73.2	72.7	71.1
12.5°	85.0	84.7	82.1	79.6	76.4	74.8	73.9	73.4	74.1	73.8	72.1
15°	86.2	86.0	83.5	80.3	77.1	75.2	74.8	74.5	75.0	74.3	72.9
17.5°	85.6	85.6	83.3	79.9	77.3	75.4	74.8	74.5	75.2	74.5	72.9
20°	82.8	83.3	81.6	78.2	76.1	74.8	74.3	73.6	74.3	73.6	72.4
22.5°	79.4	79.8	78.8	75.7	74.3	73.4	73.2	72.4	73.0	72.4	71.3
25°	76.3	76.3	76.0	73.2	73.0	72.3	72.4	72.1	72.4	71.8	71.1
27.5°	76.4	76.4	75.0	72.3	72.1	72.1	72.1	72.1	72.3	71.8	71.1
30°	87.2	87.6	83.5	75.7	73.0	72.7	72.9	72.7	72.9	72.7	71.8
32.5°	103.5	103.5	99.4	87.6	78.0	75.5	74.6	74.5	73.9	73.8	73.0
35°	119.5	119.3	115.3	102.1	89.9	85.4	82.5	79.8	78.5	77.3	76.0
37.5°	132.9	132.4	131.8	116.9	104.1	98.8	95.4	91.4	88.8	86.7	83.7
40°	145.4	146.4	148.4	130.5	118.4	113.5	110.0	104.9	102.4	99.6	96.2
42.5°	162.9	164.1	164.2	145.3	131.3	128.0	125.2	121.5	118.8	115.4	112.4
45°	179.5	179.8	180.3	161.2	147.1	142.9	140.9	137.4	133.8	129.6	127.1
47.5°	191.0	190.5	192.9	179.3	165.6	161.0	158.0	152.6	147.3	142.0	138.2
50°	205.0	204.5	204.5	200.1	187.2	181.6	176.7	166.5	160.8	154.1	148.8
52.5°	217.4	215.4	216.7	219.3	209.8	202.8	193.9	182.4	175.0	166.9	160.1
55°	234.4	223.9	226.9	235.7	232.1	221.4	209.6	197.4	188.8	179.8	173.4
57.5°	228.5	221.4	230.0	245.7	245.5	235.4	225.5	210.6	201.8	193.3	185.5
60°	207.6	211.2	229.8	252.3	253.3	245.5	237.2	223.4	216.7	207.8	200.0
62.5°	191.4	196.7	222.2	251.9	262.1	254.8	248.2	239.9	235.3	227.8	219.7
65°	190.5	193.6	218.3	251.3	274.8	271.0	267.9	264.0	263.1	257.6	248.4
67.5°	199.2	202.1	224.8	265.3	293.4	291.7	296.2	295.5	299.6	296.8	289.2
70°	182.1	183.7	211.8	270.2	335.8	343.1	353.2	352.8	361.3	354.7	345.8
72.5°	127.8	131.2	155.9	223.2	336.7	375.6	399.3	419.4	428.6	430.3	426.1
73°	114.2	116.7	139.7	208.0	327.6	369.1	400.9	421.6	429.7	434.8	435.2
75°	39.6	41.0	60.9	126.0	261.9	322.1	363.1	381.7	379.6	394.5	411.0
77.5°	12.8	12.9	15.8	32.6	126.4	200.0	245.7	262.8	253.0	269.1	291.1
80°	7.8	8.2	10.4	14.7	33.1	60.6	102.7	128.5	123.2	138.4	161.7
82.5°	4.7	4.9	6.4	9.2	13.3	14.7	19.3	26.2	32.2	38.8	50.8
85°	2.2	2.3	3.1	4.2	5.5	5.7	5.5	5.1	5.7	6.7	7.8
87.5°	0.0	0.0	0.2	0.4	0.2	0.0	0.0	0.0	0.0	0.2	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271430

CATALOG NUMBER: ISC-AF-XXX-LED-E1-T4W-7027-XXB

**CANDELA DISTRIBUTION (continued):**

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
2.5°	69.8	69.2	69.2	68.5	68.8	68.1	68.5	67.7	68.1	67.2	67.7
5°	70.9	69.9	69.9	68.8	69.0	67.7	68.3	66.8	67.6	65.9	67.0
7.5°	71.3	69.8	70.4	68.5	69.3	67.2	68.3	65.9	67.4	64.8	66.7
10°	72.1	69.8	71.1	68.8	69.9	67.4	68.8	65.9	67.7	64.7	66.3
12.5°	73.2	70.7	71.8	69.2	70.7	67.7	69.2	66.3	68.1	64.7	66.7
15°	73.9	71.3	72.4	69.9	71.1	67.7	69.6	66.0	68.1	64.5	66.7
17.5°	73.8	71.3	72.4	69.6	70.9	67.6	69.3	65.9	67.7	63.9	66.3
20°	73.0	71.1	71.8	69.2	70.2	67.0	68.6	65.1	67.2	63.4	65.8
22.5°	72.1	70.1	71.1	68.6	69.8	66.5	67.9	64.8	66.8	63.0	65.1
25°	71.5	69.9	70.4	68.1	69.6	66.7	68.1	64.7	66.8	63.0	65.6
27.5°	71.3	69.9	71.1	68.8	70.1	67.6	69.0	65.9	67.7	63.7	66.3
30°	72.4	71.1	72.1	70.2	71.3	68.8	70.2	67.4	69.2	65.4	68.3
32.5°	73.8	72.4	73.4	71.8	73.4	70.9	72.7	69.8	72.0	68.1	70.9
35°	76.4	75.0	76.3	74.5	76.3	74.3	76.3	73.2	76.0	72.1	75.0
37.5°	83.6	79.6	80.8	78.8	80.7	78.2	81.6	78.5	81.6	78.0	81.9
40°	95.0	87.8	89.0	84.9	87.6	83.7	87.9	85.6	89.8	85.2	90.3
42.5°	109.6	102.9	101.6	95.2	97.6	93.1	97.3	93.1	98.7	94.3	100.7
45°	123.1	116.0	113.9	107.8	109.4	103.5	108.8	102.9	110.3	105.2	113.3
47.5°	134.2	125.9	124.1	117.0	120.0	114.4	120.9	114.7	123.9	118.8	128.0
50°	144.4	133.9	133.7	126.0	131.0	125.2	134.6	130.3	139.2	134.2	145.2
52.5°	156.0	142.9	144.8	137.8	145.6	140.9	151.6	145.6	157.3	151.8	163.9
55°	168.4	154.6	159.3	155.1	164.4	161.3	170.4	165.0	176.4	170.9	183.7
57.5°	182.1	170.3	178.7	176.7	184.8	181.0	191.2	186.3	197.8	193.1	205.9
60°	200.0	192.1	200.3	200.1	207.1	207.0	213.5	210.7	221.6	219.5	231.2
62.5°	223.0	216.9	225.7	223.2	231.9	230.3	238.3	238.3	246.1	248.9	260.6
65°	254.2	246.0	256.4	252.7	261.2	261.7	266.8	267.7	277.1	280.2	290.2
67.5°	296.4	287.0	295.1	288.3	298.1	297.5	301.9	303.6	305.0	312.5	313.6
70°	357.3	343.1	350.5	341.1	342.8	344.1	336.0	342.0	327.4	339.2	323.2
72.5°	423.0	406.8	393.9	384.4	365.6	362.8	339.0	344.1	313.1	323.4	291.1
73°	426.4	410.7	393.3	383.5	361.3	358.3	332.8	337.2	303.0	312.6	278.6
75°	387.7	391.8	349.8	353.8	315.1	319.8	279.8	284.9	242.9	250.2	206.3
77.5°	261.2	275.3	228.2	245.9	198.0	215.6	161.5	163.1	119.0	111.3	75.5
80°	129.4	141.4	100.3	109.6	73.6	72.3	44.1	36.7	31.1	31.9	32.8
82.5°	37.3	42.1	26.1	25.8	18.3	17.4	17.4	18.5	19.0	21.1	20.6
85°	7.1	8.5	7.5	10.0	8.9	9.8	9.2	10.6	9.8	12.1	10.6
87.5°	0.2	0.0	0.2	0.6	0.6	1.3	0.9	1.4	1.4	2.5	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P271430

CATALOG NUMBER: ISC-AF-XXX-LED-E1-T4W-7027-XXB

**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
2.5°	67.0	67.9	67.6	67.2	66.8	66.7	65.9	66.3	65.4	66.0	65.4
5°	65.6	66.7	66.0	65.4	64.9	64.7	63.4	64.3	62.8	64.0	63.0
7.5°	63.9	65.8	65.1	64.5	63.7	63.4	60.8	62.8	60.6	62.4	60.6
10°	63.4	65.4	64.7	63.7	63.0	62.6	59.6	61.9	59.6	61.5	59.2
12.5°	63.0	65.4	64.3	63.4	62.6	62.2	58.6	61.5	58.5	61.4	58.6
15°	62.6	65.4	63.9	62.8	62.2	61.5	57.9	61.2	57.7	60.9	57.9
17.5°	62.3	64.8	63.5	62.3	61.5	61.2	57.2	60.6	57.0	60.6	57.5
20°	61.7	64.3	62.8	61.5	60.8	60.3	56.2	59.8	56.1	59.7	56.2
22.5°	60.9	63.7	62.4	61.2	60.5	59.6	55.2	59.0	55.0	58.6	55.3
25°	61.2	64.0	62.4	61.2	60.1	59.2	54.4	58.6	54.1	57.7	54.1
27.5°	62.2	64.7	63.0	61.9	60.5	59.4	54.4	58.3	53.7	56.9	53.0
30°	63.9	66.5	64.9	63.4	62.2	60.6	55.3	58.5	53.7	55.8	51.9
32.5°	67.0	69.3	67.9	66.7	65.1	63.0	57.2	59.4	54.1	55.0	50.9
35°	71.1	73.9	73.2	72.3	70.4	66.7	60.3	60.6	54.8	54.3	49.7
37.5°	77.5	81.6	81.4	81.2	79.2	72.3	63.7	63.2	55.5	53.7	48.1
40°	86.1	90.9	92.2	93.4	89.2	79.1	67.7	65.8	56.0	52.6	45.5
42.5°	96.2	102.5	106.3	108.8	101.1	86.5	72.3	68.6	56.0	50.9	42.6
45°	108.5	116.0	123.2	125.9	114.2	94.5	77.1	71.1	55.2	48.4	38.8
47.5°	123.7	132.4	142.4	143.7	128.4	103.0	80.3	72.7	52.8	44.9	35.3
50°	140.3	150.9	165.6	164.7	143.5	112.0	82.5	73.8	48.6	41.0	31.1
52.5°	159.1	172.5	193.3	189.3	161.9	123.1	84.5	75.2	43.5	36.2	26.9
55°	182.6	198.4	224.7	215.8	182.3	135.3	87.3	75.4	36.8	30.6	23.9
57.5°	208.0	224.8	258.4	242.1	201.4	144.8	86.1	69.6	30.0	25.8	21.5
60°	238.3	258.9	292.1	266.8	217.4	148.0	77.3	57.3	25.7	23.3	20.4
62.5°	272.4	292.8	319.8	283.9	226.6	142.7	57.3	39.6	22.0	20.8	18.8
65°	308.7	327.9	333.0	285.3	220.5	118.6	35.6	26.1	19.1	18.5	17.2
67.5°	342.0	343.8	320.4	261.7	191.4	82.6	24.3	20.8	17.7	17.4	16.8
70°	350.5	319.0	266.3	203.7	138.2	49.1	19.7	18.1	17.0	17.0	16.3
72.5°	292.8	242.9	178.0	123.4	75.4	26.2	16.8	16.3	16.0	16.0	15.7
73°	274.6	223.8	159.4	107.8	63.7	23.4	16.3	16.0	15.8	15.7	15.5
75°	182.4	140.6	90.5	54.7	29.6	17.0	14.6	14.6	14.5	14.6	14.5
77.5°	70.2	53.0	34.9	23.4	17.0	13.3	12.4	12.6	12.4	12.8	12.6
80°	30.9	30.6	23.2	16.6	12.4	10.0	10.0	10.0	10.2	10.4	10.4
82.5°	21.1	17.9	13.7	10.2	7.5	7.3	7.5	7.5	7.6	7.8	7.6
85°	11.7	9.8	7.3	4.5	4.0	4.9	4.9	4.9	4.7	4.7	4.5
87.5°	3.6	2.8	2.0	0.6	0.9	0.9	1.3	1.1	1.1	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271430

CATALOG NUMBER: ISC-AF-XXX-LED-E1-T4W-7027-XXB

**CANDELA DISTRIBUTION (continued):**

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
2.5°	66.0	65.6	66.0	65.1	65.9	65.1	65.8	65.8	65.6	65.6	65.6
5°	63.9	63.0	63.9	63.4	63.9	63.2	63.7	63.9	64.0	64.7	64.5
7.5°	62.3	60.5	62.4	60.6	62.3	60.6	62.2	62.3	62.8	63.5	64.0
10°	61.5	59.2	61.5	59.4	61.4	59.6	61.4	61.5	62.2	63.0	63.9
12.5°	61.2	58.6	61.2	59.0	61.2	59.4	61.2	61.7	62.2	62.8	63.9
15°	60.8	58.3	61.2	58.7	61.2	59.4	61.4	61.7	62.3	63.0	63.9
17.5°	60.6	57.7	60.8	58.6	60.8	59.0	61.2	61.2	61.9	62.8	63.4
20°	59.8	57.2	59.8	57.7	59.8	58.3	60.1	60.1	60.8	61.2	62.2
22.5°	58.7	56.0	58.5	56.4	58.5	56.9	58.3	58.3	58.7	59.4	59.8
25°	57.2	54.4	56.6	54.8	56.2	54.8	56.0	55.8	56.1	56.4	56.9
27.5°	55.3	52.6	54.4	52.4	53.4	51.9	52.6	52.2	52.4	52.6	52.8
30°	53.4	50.7	51.6	49.7	49.9	48.4	48.8	48.3	48.1	47.9	47.5
32.5°	51.1	48.3	48.3	46.4	46.0	44.7	44.7	44.1	43.5	42.8	42.1
35°	48.4	45.9	44.6	43.2	42.4	41.1	41.0	40.1	38.8	37.5	36.8
37.5°	45.7	42.8	41.0	39.5	38.8	37.9	37.7	37.0	35.6	34.0	33.0
40°	42.1	39.2	37.1	36.7	36.0	35.3	35.6	34.6	33.1	31.5	30.6
42.5°	38.4	35.8	34.2	34.0	33.7	33.5	33.7	33.0	31.4	29.8	28.7
45°	35.3	32.8	31.1	30.9	30.8	31.5	31.7	31.5	29.6	28.3	26.8
47.5°	32.2	29.1	28.0	27.7	27.8	28.9	29.4	29.8	28.3	26.6	24.5
50°	28.6	25.7	25.3	25.0	25.2	26.1	26.9	28.0	26.6	24.3	21.5
52.5°	25.3	22.7	23.0	22.5	23.0	23.6	24.4	26.2	24.4	22.0	20.8
55°	22.7	20.8	21.1	20.8	21.1	22.0	22.5	24.1	24.1	23.4	22.4
57.5°	20.9	19.5	19.9	19.5	20.0	20.8	21.3	24.4	26.2	24.7	22.5
60°	19.9	18.5	18.8	18.3	18.8	19.9	20.9	24.5	27.5	24.5	23.0
62.5°	18.2	17.1	17.0	17.0	17.2	19.1	19.7	23.0	27.1	24.4	23.2
65°	17.1	16.2	16.0	15.8	16.2	17.4	18.1	21.3	26.2	23.2	20.9
67.5°	16.6	15.8	15.5	15.1	15.5	16.6	17.1	20.0	24.7	22.0	19.7
70°	16.0	15.3	15.1	14.7	14.9	15.7	16.3	18.3	23.4	20.8	18.3
72.5°	15.3	14.6	14.5	13.8	14.0	14.7	15.1	17.2	21.9	19.5	17.1
73°	15.1	14.5	14.2	13.7	13.8	14.5	14.7	17.0	21.5	19.3	17.0
75°	14.2	13.5	13.3	12.9	13.1	13.1	13.5	15.5	20.4	18.2	15.8
77.5°	12.6	11.9	11.9	11.5	11.3	11.0	11.7	13.7	18.5	16.3	12.8
80°	10.4	9.8	9.6	8.9	8.9	8.9	9.6	11.7	13.8	11.9	9.8
82.5°	7.6	7.3	7.3	6.7	6.6	6.4	6.8	8.1	10.9	9.3	7.6
85°	4.5	4.4	4.5	4.0	4.2	4.0	4.5	5.7	6.0	4.7	3.6
87.5°	1.1	1.3	1.3	1.3	1.1	1.1	0.9	0.7	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	0.0



REPORT NUMBER: P271430

CATALOG NUMBER: ISC-AF-XXX-LED-E1-T4W-7027-XXB

**CANDELA DISTRIBUTION (continued):**

	175°	180°
0°	67.7	67.7
2.5°	65.4	65.1
5°	64.5	64.5
7.5°	64.0	64.0
10°	64.3	64.3
12.5°	64.3	64.7
15°	64.8	64.7
17.5°	64.3	64.3
20°	62.8	63.2
22.5°	60.8	60.8
25°	57.5	57.7
27.5°	53.2	53.4
30°	47.7	48.1
32.5°	41.5	42.0
35°	36.7	36.8
37.5°	33.3	33.3
40°	30.6	30.6
42.5°	28.0	27.8
45°	25.5	25.2
47.5°	23.0	22.7
50°	20.8	20.8
52.5°	21.1	21.1
55°	22.7	22.7
57.5°	23.0	22.7
60°	25.0	24.7
62.5°	26.1	26.6
65°	22.7	22.0
67.5°	21.6	20.6
70°	19.5	17.9
72.5°	17.2	16.3
73°	16.8	16.0
75°	14.9	14.6
77.5°	11.3	11.0
80°	9.4	9.3
82.5°	6.4	6.0
85°	2.8	2.5
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)