

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: P227119

Luminaire Tested: **IST-AF-XXX-LED-E1-SL4-7060-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35947)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-XXX-LED-E1-SL4-7060-XXB
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCUED OPTICS-TYPE IV W/SPILL CONTROL
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 594.3 lumens
Efficiency: N/A
Efficacy: 45.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U1 - 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

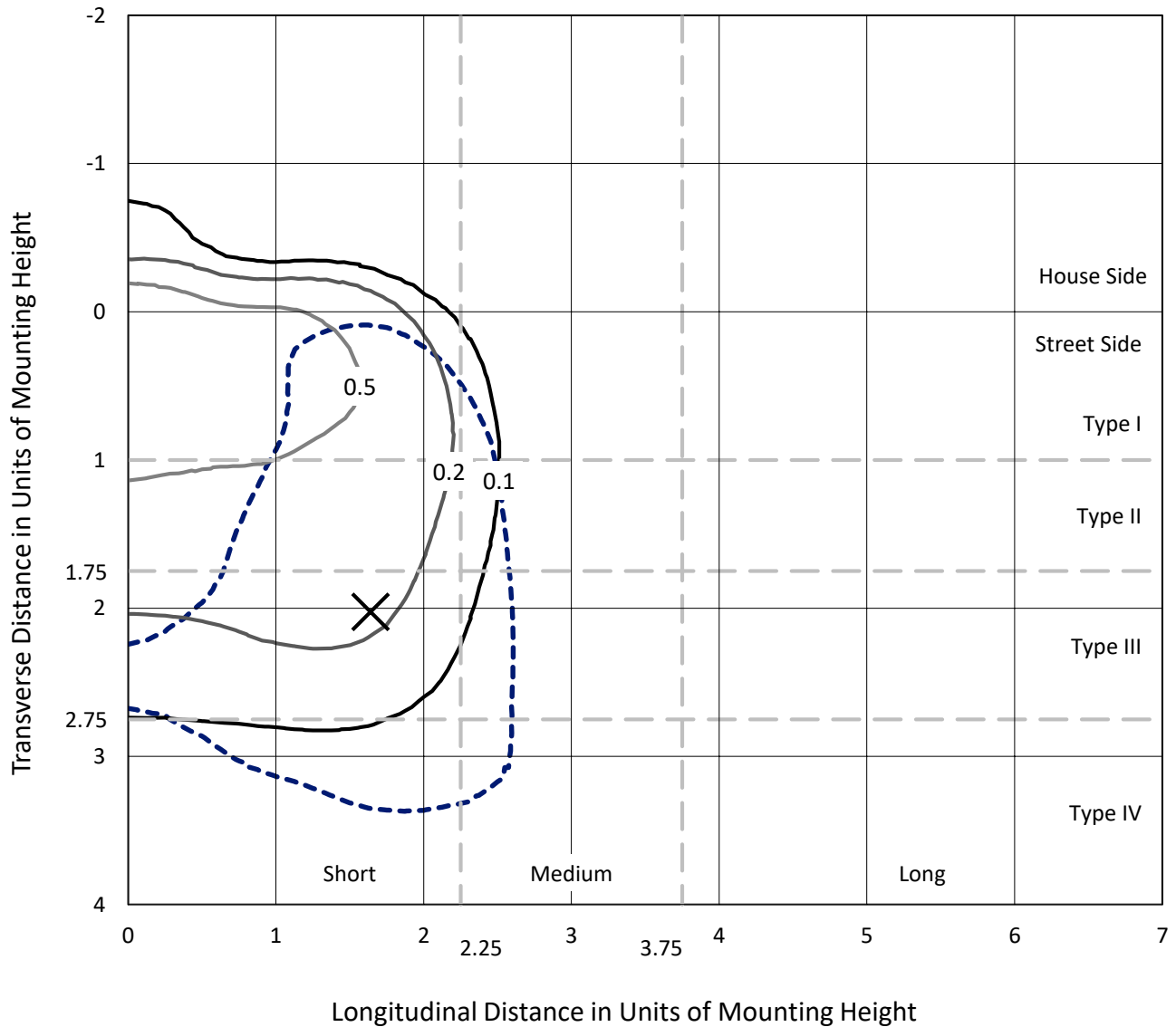


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Iso-Footcandle Lines of Horizontal Illumination

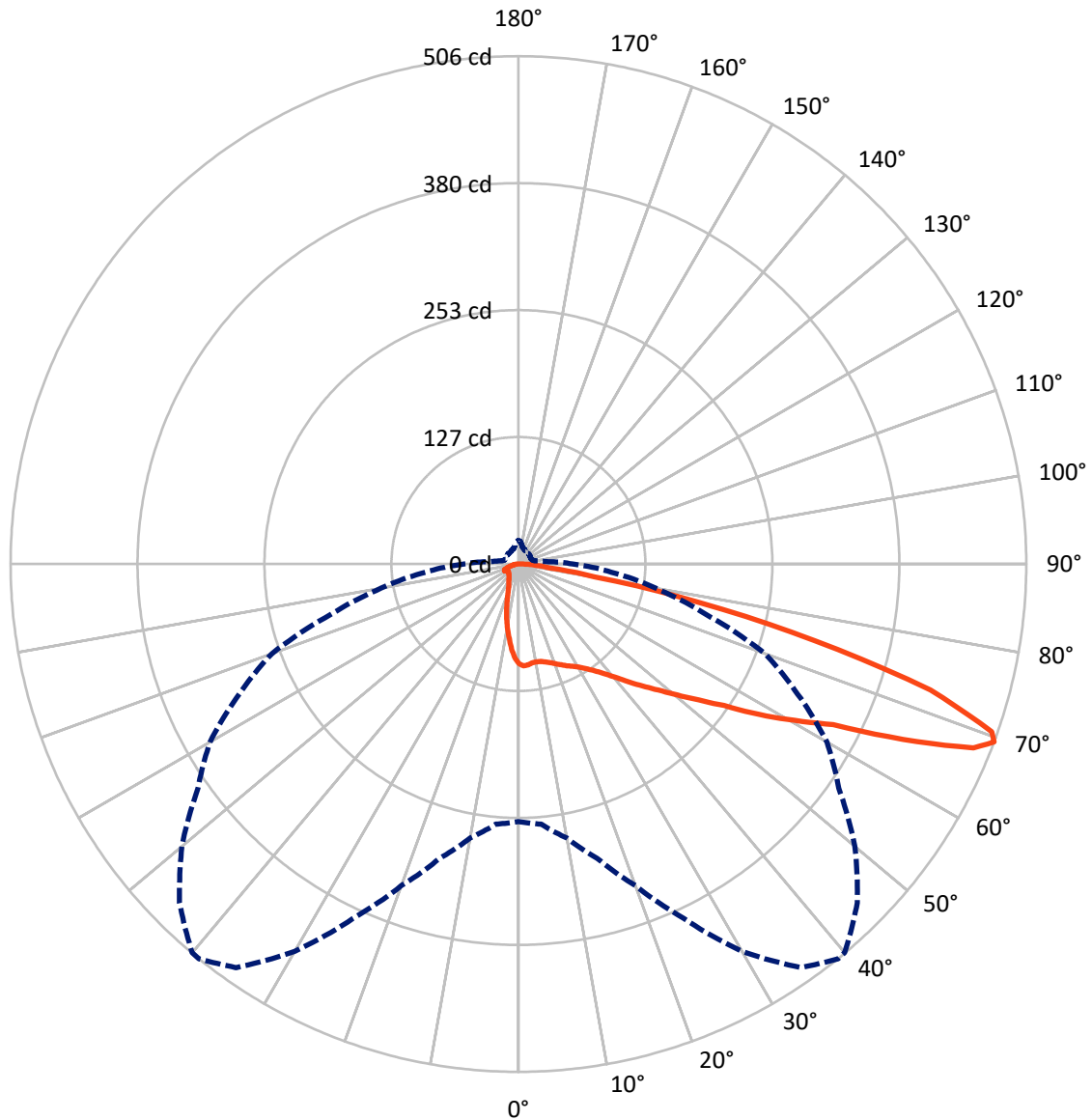
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	75.2	0.0	75.2
	% Fixture	12.7	0.0	12.7
Street Side	Lumens	518.9	0.1	519.1
	% Fixture	87.3	0.0	87.3
Total	Lumens	594.1	0.2	594.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	1.4
10°-20°	21.7	3.6
20°-30°	33.7	5.7
30°-40°	51.0	8.6
40°-50°	81.6	13.7
50°-60°	128.2	21.6
60°-70°	172.6	29.0
70°-80°	85.6	14.4
80°-90°	11.2	1.9
90°-100°	0.2	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°	594.1	100.0
0°-180°	594.3	100.0

Coefficient of Utilization



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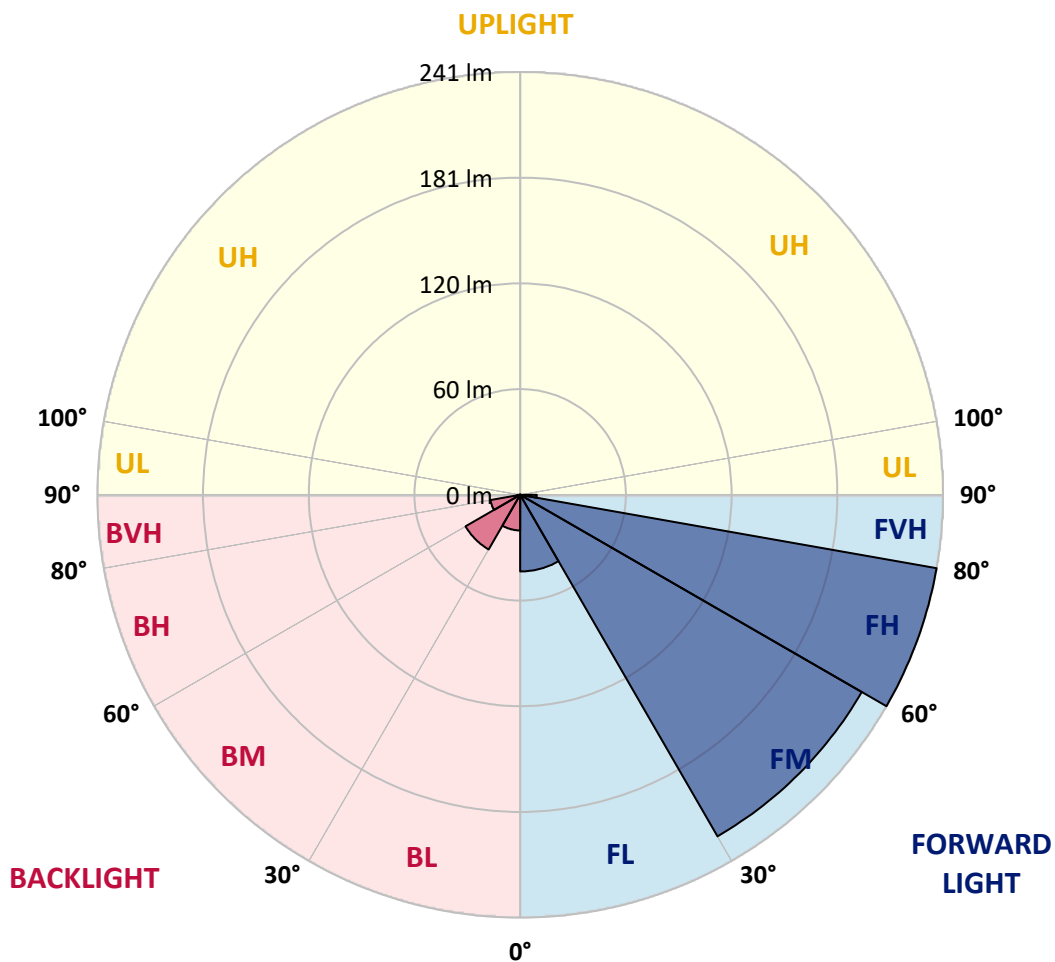
CATALOG NUMBER: IST-AF-XXX-LED-E1-SL4-7060-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	43.7	7.4			
FM	(30°-60°)	224.8	37.8			
FH	(60°-80°)	241.0	40.6			G0/660
FVH	(80°-90°)	9.5	1.6			G0/10
BL	(0°-30°)	20.3	3.4	B0/110		
BM	(30°-60°)	35.9	6.0	B0/220		
BH	(60°-80°)	17.2	2.9	B0/110		G0/110
BVH	(80°-90°)	1.8	0.3			G0/10
UL	(90°-100°)	0.2	0.0		U1/10	
UH	(100°-180°)	0.0	0.0		U1/10	

BUG Rating: B0-U1-G0

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
0°	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2.5°	102.0	102.0	102.0	102.1	101.8	101.8	101.9	101.5	101.7	101.6	101.1
5°	102.1	102.2	102.1	102.2	101.8	101.6	101.2	100.7	100.9	100.8	100.1
7.5°	101.7	101.8	101.6	101.7	101.1	100.7	100.1	99.7	99.4	99.3	98.5
10°	100.6	100.9	100.5	100.8	100.3	99.9	99.6	99.3	99.1	99.0	98.0
12.5°	99.1	99.3	99.3	99.7	99.7	99.8	99.8	99.5	99.6	99.5	98.8
15°	97.6	98.3	99.0	99.3	100.1	100.6	101.0	100.9	101.2	101.1	100.6
17.5°	97.6	98.2	99.3	100.6	102.0	102.7	103.3	103.3	103.4	103.2	102.4
20°	98.0	99.1	101.0	103.1	104.8	106.2	106.6	106.5	106.1	106.1	104.7
22.5°	101.2	101.9	104.0	106.3	108.7	110.1	110.2	109.9	109.1	108.9	107.3
25°	105.7	106.5	108.4	111.4	113.2	114.3	114.0	113.0	112.3	111.6	109.9
27.5°	112.8	113.3	115.3	117.3	118.3	118.7	117.6	116.2	115.4	115.1	112.8
30°	120.0	120.8	122.3	123.6	124.4	123.3	121.4	119.9	119.1	118.9	116.8
32.5°	128.9	129.0	130.0	130.3	130.4	128.5	126.0	124.5	124.2	123.8	122.2
35°	137.0	137.4	137.3	137.2	136.3	133.9	131.8	130.9	130.6	130.5	129.2
37.5°	144.2	145.0	144.5	143.6	142.6	140.6	138.4	137.4	138.4	137.8	138.1
40°	151.2	151.2	150.7	150.2	148.9	147.1	146.3	146.4	148.0	148.3	148.7
42.5°	157.3	157.2	156.6	156.3	156.1	155.7	155.3	157.1	160.1	160.7	161.6
45°	164.0	163.9	161.7	162.4	163.8	164.1	165.4	169.7	173.3	173.6	175.4
47.5°	170.4	169.7	167.5	168.3	172.2	174.2	176.4	182.4	187.5	188.6	193.7
50°	177.2	176.4	174.1	175.5	180.9	184.7	189.9	198.2	205.3	206.7	213.4
52.5°	184.2	184.1	182.3	184.5	191.2	198.8	207.0	216.3	224.9	226.8	236.6
55°	192.7	192.2	191.5	194.2	203.6	213.8	226.7	239.4	248.8	252.0	262.0
57.5°	202.3	202.1	202.2	207.8	219.1	234.7	250.4	267.6	283.0	285.3	294.6
60°	210.6	210.9	213.2	221.9	236.2	257.2	279.3	302.6	316.3	318.7	327.8
62.5°	220.7	222.9	227.8	238.9	255.7	281.2	309.8	334.4	352.1	357.0	374.1
65°	245.0	246.7	255.9	269.3	290.7	323.3	356.2	392.0	421.1	425.6	440.3
67.5°	262.7	267.2	281.5	303.4	334.4	376.1	421.2	464.5	489.1	491.1	480.8
69°	256.6	260.2	277.2	303.6	341.0	389.5	445.6	490.9	506.0	505.6	477.5
70°	247.1	250.5	269.2	294.9	335.5	387.9	446.0	491.0	500.2	496.7	464.6
72.5°	207.0	210.0	227.5	254.3	293.7	345.8	400.5	431.2	429.3	426.4	373.4
75°	129.2	129.1	144.4	159.9	190.5	243.2	283.9	308.6	304.6	302.4	239.7
77.5°	48.3	51.7	57.3	74.0	88.1	116.5	149.4	176.9	184.5	174.8	129.1
80°	25.2	27.0	30.7	36.6	42.1	48.1	57.9	74.5	77.1	71.9	52.1
82.5°	19.9	22.1	25.8	30.8	34.6	32.3	30.5	31.5	31.3	29.9	26.5
85°	15.0	17.7	23.6	28.7	34.2	28.9	23.1	20.2	17.9	18.0	19.2
87.5°	7.5	9.7	18.6	25.1	29.8	19.2	15.0	11.7	9.7	9.4	12.5
90°	2.3	2.3	3.8	4.9	6.8	3.4	3.3	2.5	1.8	1.8	2.9
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	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	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2.5°	100.7	100.7	100.5	100.4	100.1	99.7	99.4	99.0	98.7	98.2	97.6
5°	99.4	99.1	98.9	98.5	97.9	97.4	96.8	96.2	95.4	94.4	93.4
7.5°	97.8	97.2	96.6	96.4	95.7	95.1	94.4	93.5	92.4	90.7	89.3
10°	97.1	96.6	96.0	95.6	94.7	94.0	93.3	92.0	90.7	88.4	85.8
12.5°	97.8	97.2	96.6	96.0	95.2	94.4	93.4	91.8	90.0	87.0	83.9
15°	99.4	98.9	97.9	97.2	96.2	95.5	94.0	92.3	89.6	85.9	81.9
17.5°	101.3	100.4	99.5	98.5	97.5	96.6	95.1	92.9	89.5	85.2	80.0
20°	103.0	102.0	100.7	99.9	99.0	97.7	96.1	93.4	89.3	83.6	77.9
22.5°	105.0	103.8	102.3	101.5	100.7	99.6	97.7	94.2	89.3	82.8	75.6
25°	107.6	106.0	104.6	103.7	103.2	102.4	100.1	96.3	90.0	82.3	73.7
27.5°	110.7	108.6	107.4	106.8	106.7	106.1	103.8	99.0	91.5	82.3	71.9
30°	114.4	112.6	110.9	110.9	112.1	111.7	109.1	103.1	93.9	82.6	70.5
32.5°	119.5	117.7	116.7	117.7	118.9	119.3	116.3	109.0	97.9	83.9	69.2
35°	127.0	125.9	125.2	126.6	129.2	130.1	126.5	117.8	103.7	86.5	68.4
37.5°	137.0	136.1	135.2	137.7	142.5	144.4	139.1	127.9	112.0	90.9	68.0
40°	148.3	148.4	149.4	154.4	159.0	163.0	157.0	143.2	123.4	97.0	68.4
42.5°	161.8	162.9	166.2	173.1	181.9	185.1	179.3	161.8	137.5	104.5	69.4
45°	178.6	181.4	187.0	197.3	208.0	212.9	204.7	185.1	155.4	116.3	72.1
47.5°	196.5	202.6	212.1	224.6	237.0	240.2	230.0	206.2	172.8	126.8	76.2
50°	219.3	226.9	236.3	251.4	264.5	266.4	253.0	225.8	188.1	136.0	80.2
52.5°	240.7	250.9	262.9	280.4	293.7	291.3	273.9	243.3	200.1	142.3	82.4
55°	269.8	280.4	294.0	309.2	322.4	316.7	292.9	258.1	209.8	146.9	83.0
57.5°	303.1	311.2	324.5	340.1	348.8	338.8	311.6	272.6	219.0	147.0	77.7
60°	335.8	345.2	359.9	375.2	380.0	362.9	324.7	274.8	209.9	131.2	62.2
62.5°	384.2	393.7	401.2	403.7	395.0	360.4	309.5	251.4	180.9	103.5	44.1
65°	438.3	427.5	413.1	399.6	376.0	323.5	266.9	206.5	140.4	69.2	30.4
67.5°	452.5	419.6	388.3	358.2	314.2	257.6	201.3	145.3	90.1	39.4	20.6
69°	437.7	389.7	354.9	307.1	261.6	192.8	138.7	93.1	53.8	27.4	17.3
70°	410.7	360.7	313.6	262.5	202.6	147.3	92.2	61.0	35.1	20.0	15.5
72.5°	309.9	247.8	191.0	124.0	75.6	42.0	29.5	21.1	16.7	14.7	13.3
75°	179.2	119.3	78.1	41.7	24.7	18.3	16.0	14.3	13.2	12.7	11.6
77.5°	75.6	47.3	32.0	23.4	16.6	14.2	12.3	11.4	11.3	11.0	9.9
80°	34.4	29.5	25.2	17.7	12.6	10.8	9.5	9.3	9.5	9.2	8.1
82.5°	25.6	25.2	21.0	13.6	9.6	7.2	5.9	6.2	6.9	7.5	6.6
85°	21.3	21.3	17.7	10.1	6.4	4.6	4.5	5.1	5.8	6.3	5.3
87.5°	19.6	18.8	10.1	5.2	3.7	3.0	2.8	2.5	2.5	4.3	3.7
90°	1.9	0.9	0.5	0.4	0.5	0.4	0.6	0.5	0.5	0.5	0.5
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: IST-AF-XXX-LED-E1-SL4-7060-XXB

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	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	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	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	0.0



REPORT NUMBER: P227119

CATALOG NUMBER: IST-AF-XXX-LED-E1-SL4-7060-XXB

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2.5°	97.1	96.7	95.8	95.6	95.3	94.9	94.8	94.3	93.4	93.2	93.3
5°	92.7	91.1	90.1	89.2	88.5	86.8	86.1	85.4	84.0	83.6	83.0
7.5°	87.5	85.7	83.5	82.0	80.2	78.3	76.9	75.0	73.6	72.7	71.2
10°	83.4	80.9	78.1	75.0	72.6	69.8	68.0	65.9	63.6	61.4	59.9
12.5°	80.3	76.9	72.8	69.2	65.7	62.7	59.4	56.4	53.5	50.6	48.1
15°	77.8	73.5	68.4	63.8	59.5	55.1	51.4	47.3	43.6	41.1	37.9
17.5°	75.1	69.5	63.5	58.1	52.6	47.9	43.3	39.0	35.5	32.2	29.6
20°	71.9	65.1	58.5	52.3	46.0	40.7	36.0	31.8	28.5	25.8	23.9
22.5°	68.2	60.3	52.7	45.8	39.5	34.3	29.9	26.8	24.3	22.9	22.3
25°	64.6	55.6	47.0	39.4	33.2	28.7	25.8	23.1	21.9	21.3	21.3
27.5°	61.3	50.7	41.2	33.9	27.8	24.3	22.0	20.9	20.4	20.4	20.6
30°	58.3	45.9	35.7	28.3	23.4	20.8	19.6	19.2	19.3	19.7	20.1
32.5°	54.7	41.3	31.0	24.3	20.4	18.6	17.7	17.7	18.2	18.9	19.6
35°	50.9	36.4	26.8	21.3	18.2	16.9	16.3	16.4	17.1	17.9	18.6
37.5°	47.6	32.4	23.6	19.0	16.7	15.8	15.3	15.4	15.9	17.0	17.8
40°	44.2	29.0	21.0	17.7	15.8	15.0	14.7	14.6	15.0	15.9	17.0
42.5°	41.3	26.1	19.5	16.7	15.2	14.5	14.1	14.1	14.3	15.0	16.1
45°	39.5	24.4	18.4	16.0	14.8	14.1	13.7	13.5	13.8	14.3	15.2
47.5°	39.5	23.5	17.7	15.5	14.4	13.8	13.3	13.2	13.3	13.8	14.8
50°	40.9	23.7	17.7	15.3	14.2	13.4	12.9	12.9	13.1	13.8	14.6
52.5°	42.1	24.1	17.9	15.5	14.2	13.2	12.6	12.5	12.8	13.5	14.2
55°	41.9	24.1	18.2	15.8	14.5	13.3	12.5	12.4	12.6	13.3	14.0
57.5°	37.4	22.7	17.9	16.0	14.9	13.8	13.0	12.7	12.9	13.5	14.1
60°	30.3	20.2	17.2	16.0	15.4	14.7	13.9	13.7	13.8	14.4	15.0
62.5°	23.7	17.9	16.2	15.9	15.7	15.3	15.0	14.9	14.9	15.3	15.9
65°	19.3	16.2	15.4	15.5	15.7	15.6	15.5	15.4	15.4	15.7	16.3
67.5°	16.1	14.6	14.4	14.7	14.9	15.0	15.0	15.0	15.0	15.3	16.0
69°	14.7	13.7	13.5	13.7	14.1	14.2	14.4	14.3	14.4	14.7	15.3
70°	13.8	13.0	12.8	13.1	13.4	13.5	13.7	13.6	13.7	14.0	14.7
72.5°	12.0	11.1	10.8	11.0	11.3	11.3	11.6	11.7	11.5	11.6	12.1
75°	10.2	9.3	8.8	8.9	8.9	8.9	9.1	9.1	8.9	8.8	8.9
77.5°	8.6	7.5	6.9	6.9	6.9	6.8	6.6	6.7	6.8	6.7	6.8
80°	6.8	5.9	5.3	5.3	5.3	5.1	5.0	5.0	5.2	5.4	5.3
82.5°	5.2	4.3	4.1	4.0	4.0	3.8	3.8	4.0	3.9	4.0	4.1
85°	3.8	3.1	2.8	2.9	2.8	2.6	2.7	3.0	3.0	2.9	3.1
87.5°	2.3	1.9	1.8	1.9	1.7	1.4	1.4	1.4	1.6	1.5	1.7
90°	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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NUMBER: IST-AF-XXX-LED-E1-SL4-7060-XXB

CATALOG NUMBER:

DISTRIBUTION (continued):

160°	165°	170°	175°	180°
99.5	99.5	99.5	99.5	99.5
92.6	92.9	91.6	92.2	91.8
82.5	82.0	81.9	81.6	81.0
70.6	70.2	69.1	69.4	68.6
58.4	58.3	56.1	56.2	55.2
47.1	45.3	44.5	43.2	43.9
36.5	35.0	33.2	32.7	33.4
27.5	26.0	25.2	24.4	24.1
22.8	21.9	21.4	21.1	20.9
22.0	21.8	21.7	21.5	21.4
21.5	21.7	21.7	21.7	21.5
21.0	21.4	21.5	21.4	21.2
20.5	20.8	20.8	20.7	20.4
19.9	20.2	20.2	20.1	19.9
19.1	19.3	19.4	19.4	19.5
18.5	18.7	18.9	19.1	19.4
17.8	18.1	18.2	18.6	19.0
17.0	17.4	17.6	17.8	18.2
16.1	16.6	16.7	17.1	17.5
15.7	16.1	16.1	16.4	16.7
15.2	15.4	15.3	15.5	15.6
14.8	15.0	14.9	15.0	15.1
14.4	14.6	14.8	15.0	15.0
14.6	14.9	15.0	15.2	15.3
15.4	15.8	16.2	16.6	16.9
16.3	16.8	17.7	19.4	20.1
16.8	17.5	19.5	22.5	23.3
16.5	17.4	19.8	23.0	24.0
15.9	16.6	19.2	22.5	23.4
15.1	15.8	18.4	22.0	22.9
12.2	12.6	15.5	18.9	19.5
9.0	9.3	11.5	12.8	12.7
6.9	7.3	8.1	8.2	8.1
5.5	5.7	6.1	6.1	6.2
4.2	4.3	4.5	4.3	4.2
3.2	3.1	3.0	2.9	2.8
1.8	1.8	1.5	1.4	1.3
0.2	0.3	0.3	0.2	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0

CANDELA DISTRIBUTION:

	160°
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0



227119
IST-AF-XXX-LED-E1-SL4-7060-XXB

TION (continued):

<u>165°</u>	<u>170°</u>	<u>175°</u>	<u>180°</u>
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0

(END OF REPORT)