

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: INVUE

Report Number: P140264

Luminaire Tested: **ECM-F01-LED-E1-5MQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140264
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33686)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F01-LED-E1-5MQ-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (7) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2302.5 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

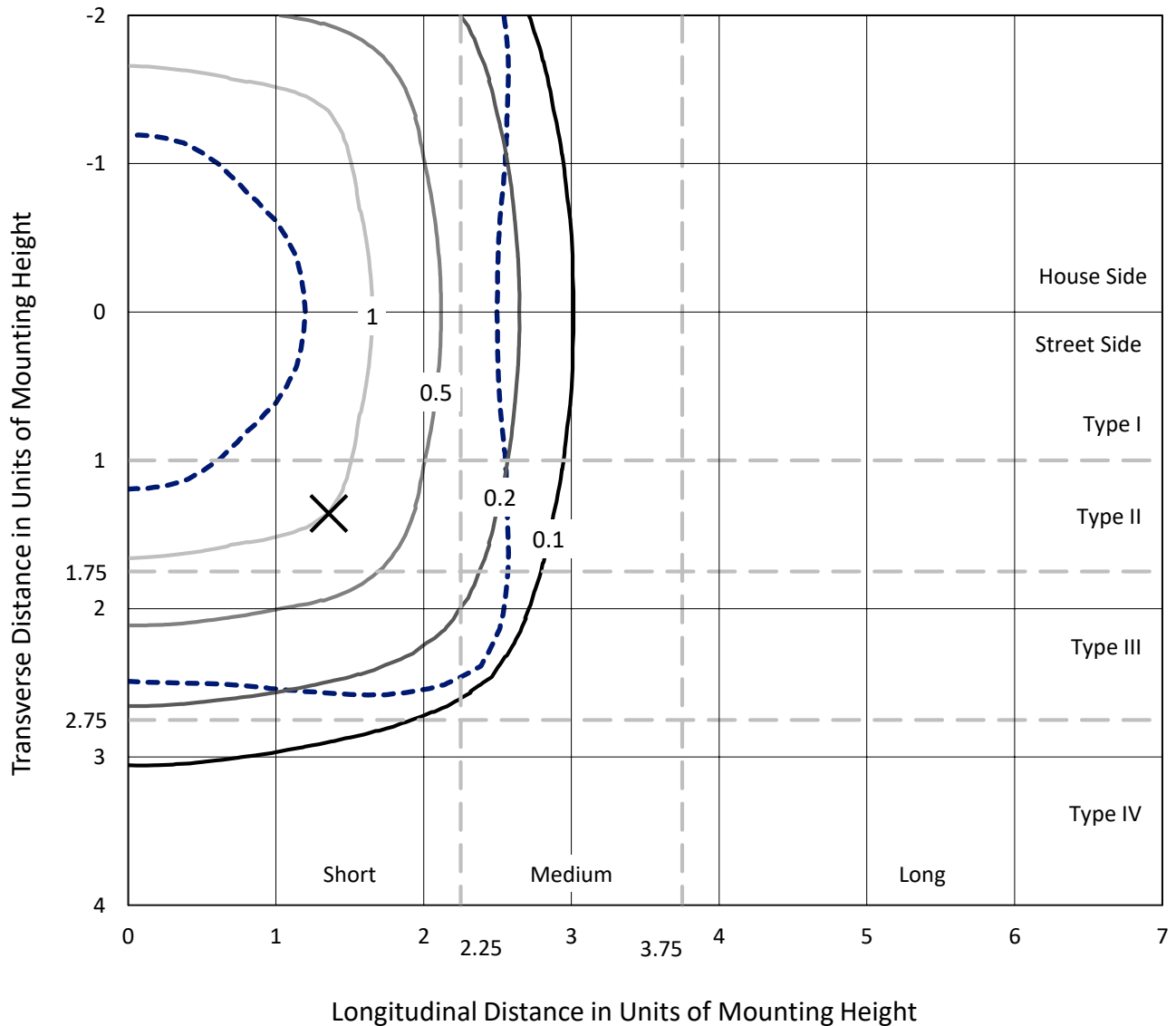
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

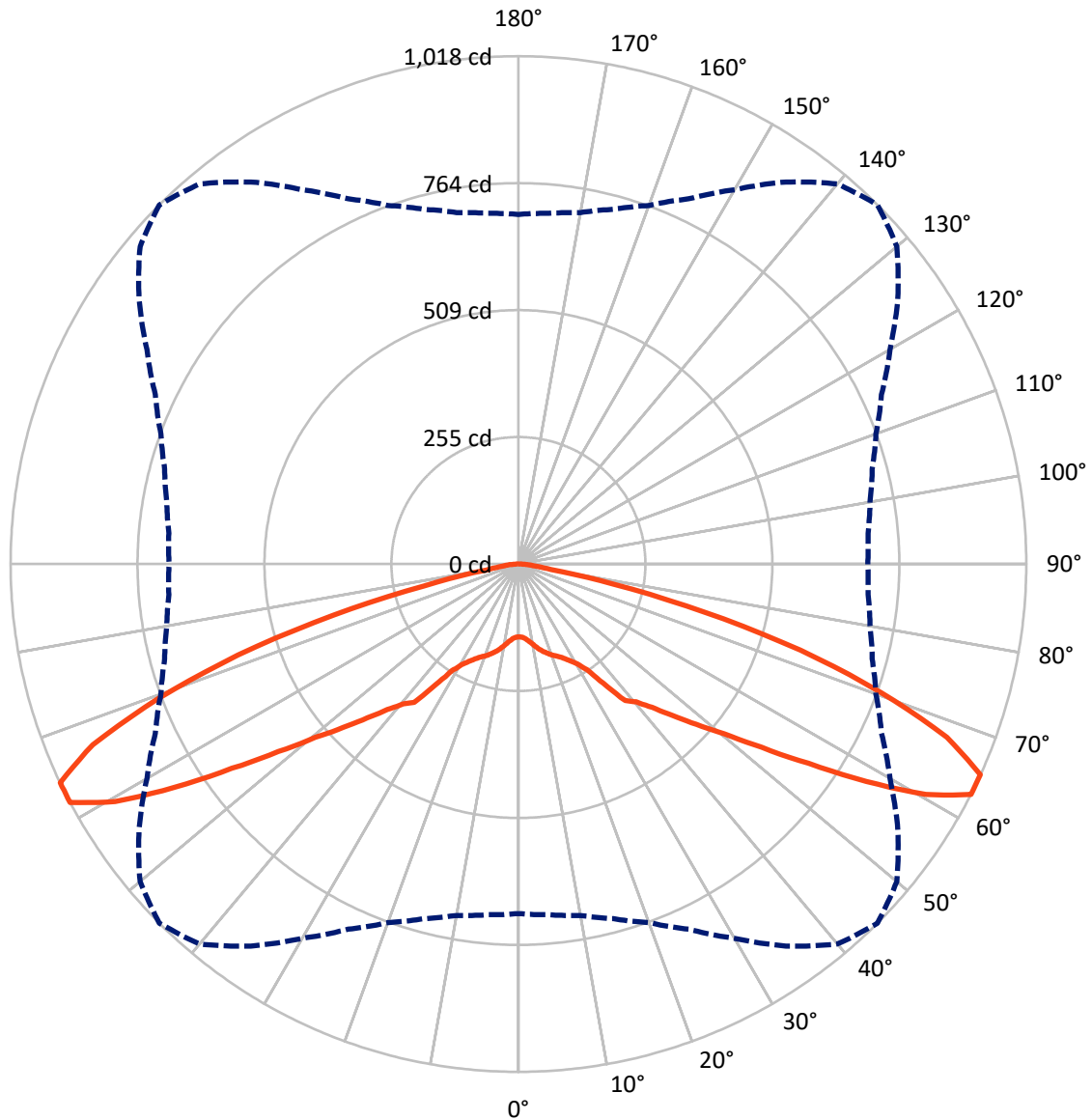
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1151.3	0.0	1151.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1151.3	0.0	1151.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	2302.5	0.0	2302.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.9	0.6
10°-20°	51.7	2.2
20°-30°	99.4	4.3
30°-40°	191.2	8.3
40°-50°	332.8	14.5
50°-60°	597.7	26.0
60°-70°	732.7	31.8
70°-80°	258.4	11.2
80°-90°	23.9	1.0
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°	2302.5	100.0
0°-180°	2302.5	100.0



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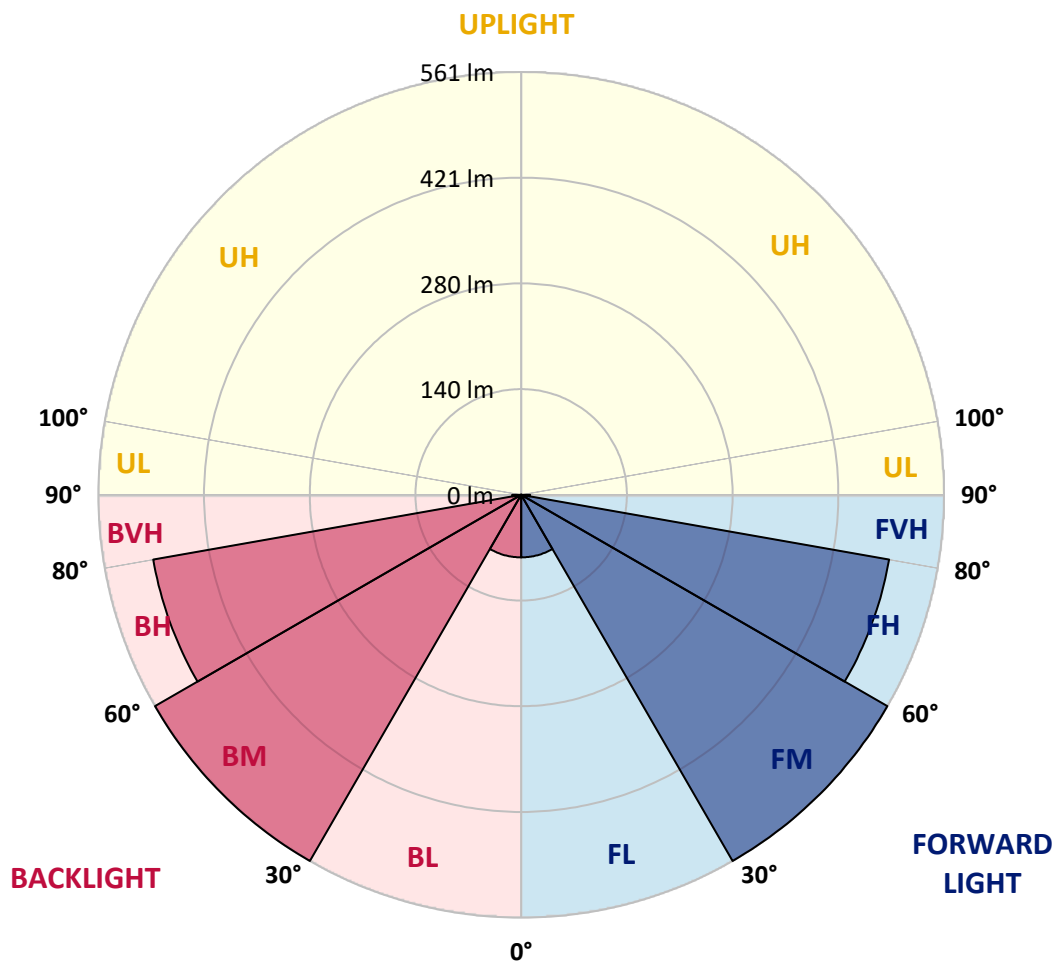
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	83.0	3.6			
FM (30°-60°)	560.8	24.4			
FH (60°-80°)	495.5	21.5			G0/660
FVH (80°-90°)	11.9	0.5			G1/100
BL (0°-30°)	83.0	3.6	B0/110		
BM (30°-60°)	560.8	24.4	B1/1000		
BH (60°-80°)	495.5	21.5	B1/500		G0/660
BVH (80°-90°)	11.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0
2.5°	147.8	147.8	147.5	147.3	147.3	147.3	147.0	147.0	147.3	146.8	146.8
5°	151.6	151.8	151.6	151.3	151.1	151.1	150.8	150.8	151.1	150.5	150.3
7.5°	158.6	158.8	158.3	158.1	157.8	157.6	157.3	157.1	157.3	156.6	156.6
10°	167.6	167.6	167.6	166.6	166.6	165.9	165.6	165.1	165.4	164.6	164.6
12.5°	176.7	176.7	176.4	175.9	175.7	175.2	174.7	174.7	174.2	173.2	172.7
15°	184.7	185.0	184.7	184.0	183.7	183.0	183.0	182.5	181.7	181.2	180.7
17.5°	192.3	192.5	191.8	191.5	190.8	190.3	189.8	189.5	189.0	188.2	188.0
20°	199.6	199.3	198.6	197.5	197.0	196.5	196.0	195.8	195.5	195.0	195.0
22.5°	206.6	206.6	205.8	204.3	203.3	202.8	202.1	201.6	201.1	200.8	201.3
25°	217.2	216.9	215.4	213.9	212.1	210.6	209.6	209.4	208.9	208.9	209.1
27.5°	230.7	230.2	228.0	225.9	223.9	221.9	220.7	219.7	219.4	219.2	219.2
30°	247.8	247.1	245.0	242.5	240.3	237.8	235.2	234.5	233.2	232.2	234.0
32.5°	280.5	281.0	277.0	271.9	266.9	262.1	257.9	254.6	252.6	252.8	252.8
35°	316.4	316.7	314.9	312.9	311.4	308.6	303.9	299.8	296.8	293.6	295.1
37.5°	332.0	332.3	330.8	330.5	331.5	333.3	338.0	341.6	346.8	347.6	346.1
40°	359.4	358.1	356.1	355.6	354.9	357.4	359.4	361.2	361.9	363.4	361.9
42.5°	388.1	387.6	386.0	384.3	384.3	384.8	388.1	390.8	392.6	392.8	392.6
45°	420.2	419.5	418.2	418.0	418.7	421.0	423.2	426.8	432.3	432.5	432.3
47.5°	455.7	456.2	454.2	454.9	456.2	459.9	466.2	472.0	478.0	480.3	477.5
50°	504.2	502.4	502.4	501.7	504.9	510.5	518.0	524.8	533.3	535.3	531.1
52.5°	570.0	566.2	567.0	565.0	566.8	571.8	584.1	594.6	605.5	610.7	602.4
55°	649.2	642.9	643.7	645.7	647.2	655.7	671.3	683.4	703.7	705.5	695.9
57.5°	714.0	712.3	713.3	718.1	727.6	742.4	762.0	791.2	816.3	822.4	812.1
60°	737.7	738.9	746.0	758.5	776.6	803.0	841.2	886.7	926.7	938.7	923.1
62.5°	701.0	706.0	715.5	736.4	765.1	808.0	866.6	935.2	995.0	1018.4	990.5
65°	629.3	632.6	648.2	666.0	703.0	752.2	824.1	913.3	987.0	1017.9	986.7
67.5°	535.3	541.6	555.2	577.3	609.2	659.2	734.6	825.9	899.8	926.9	899.5
70°	429.8	432.5	441.1	458.4	491.6	535.8	600.4	682.1	754.0	771.1	749.2
72.5°	298.1	303.6	310.9	326.7	347.6	385.0	438.3	498.4	556.2	591.6	559.5
75°	128.4	121.1	137.2	153.1	178.7	213.4	255.1	304.4	361.7	385.3	353.6
77.5°	38.5	38.2	40.7	45.2	54.3	71.9	100.8	134.0	178.2	193.5	166.1
80°	31.4	32.4	33.4	34.4	35.4	36.7	39.0	45.5	55.8	65.8	53.5
82.5°	26.6	27.9	30.7	32.2	32.9	33.2	33.2	32.9	31.7	31.2	30.9
85°	20.1	22.1	25.9	28.1	28.1	28.1	28.1	27.4	25.6	22.6	25.1
87.5°	6.8	9.0	15.1	16.1	16.6	15.3	16.1	16.3	13.6	10.3	13.1
90°	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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0
2.5°	146.8	146.8	146.8	147.0	146.8	146.8	146.8	146.8
5°	150.5	150.3	150.5	150.3	150.5	150.5	150.3	150.5
7.5°	156.3	156.3	156.6	156.6	156.3	156.3	156.3	156.3
10°	164.1	163.6	163.9	163.9	163.9	163.6	163.6	163.4
12.5°	172.2	171.7	171.7	171.7	171.7	171.4	171.7	171.7
15°	179.7	179.2	178.7	178.7	178.9	179.2	179.2	178.9
17.5°	187.0	186.5	185.7	185.7	185.5	186.0	186.5	186.2
20°	194.3	194.0	192.8	192.8	192.8	193.3	193.5	194.3
22.5°	201.6	201.3	200.3	200.1	200.3	201.3	202.1	202.1
25°	209.4	209.9	209.6	209.6	210.1	211.6	212.4	213.4
27.5°	220.4	221.4	221.7	222.7	222.9	224.7	225.9	227.5
30°	234.7	236.5	237.5	239.3	240.5	241.5	243.3	244.5
32.5°	254.6	258.9	263.9	269.7	272.2	276.7	278.7	279.2
35°	300.3	304.9	309.1	311.7	310.6	311.9	311.9	312.9
37.5°	341.6	337.0	333.3	332.5	330.5	329.7	330.0	330.8
40°	360.7	358.4	356.9	357.6	356.6	355.9	356.4	356.6
42.5°	391.6	388.1	386.8	386.5	386.0	386.5	387.8	387.3
45°	427.8	423.2	421.5	421.2	420.5	420.2	420.7	421.7
47.5°	471.2	465.7	460.2	458.4	458.4	456.9	457.9	456.4
50°	524.5	515.5	509.7	506.4	504.4	502.2	504.2	500.9
52.5°	594.6	581.8	575.5	571.3	565.5	565.7	566.2	565.0
55°	683.1	669.0	656.7	648.4	644.9	642.9	642.4	646.4
57.5°	784.9	760.0	740.4	725.8	720.3	712.8	709.3	709.3
60°	881.7	836.4	797.5	773.1	755.0	742.2	733.6	731.1
62.5°	928.9	860.3	803.3	763.0	734.4	716.0	703.7	700.5
65°	908.6	821.4	754.2	709.0	675.8	652.2	637.9	633.9
67.5°	826.6	735.4	664.8	619.3	583.6	558.0	547.1	542.6
70°	686.4	602.7	541.4	496.9	459.7	438.1	423.2	417.2
72.5°	493.4	429.8	373.5	335.3	301.8	290.5	270.4	268.4
75°	291.5	236.3	189.8	160.6	130.7	114.4	105.1	95.0
77.5°	118.6	84.7	63.6	48.0	41.2	37.4	35.7	35.2
80°	40.5	36.2	34.2	33.4	32.4	31.9	30.7	29.7
82.5°	31.9	31.7	30.7	30.4	29.4	27.9	25.4	23.9
85°	26.6	26.1	24.9	24.6	23.9	21.9	19.1	17.3
87.5°	15.1	13.8	12.6	12.8	12.1	10.6	7.8	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)