

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: P140263

Luminaire Tested: **ECM-F01-LED-E1-5MQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140263  
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-8030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (7) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2127.7 lumens  
Efficiency: N/A  
Efficacy: 82.1 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

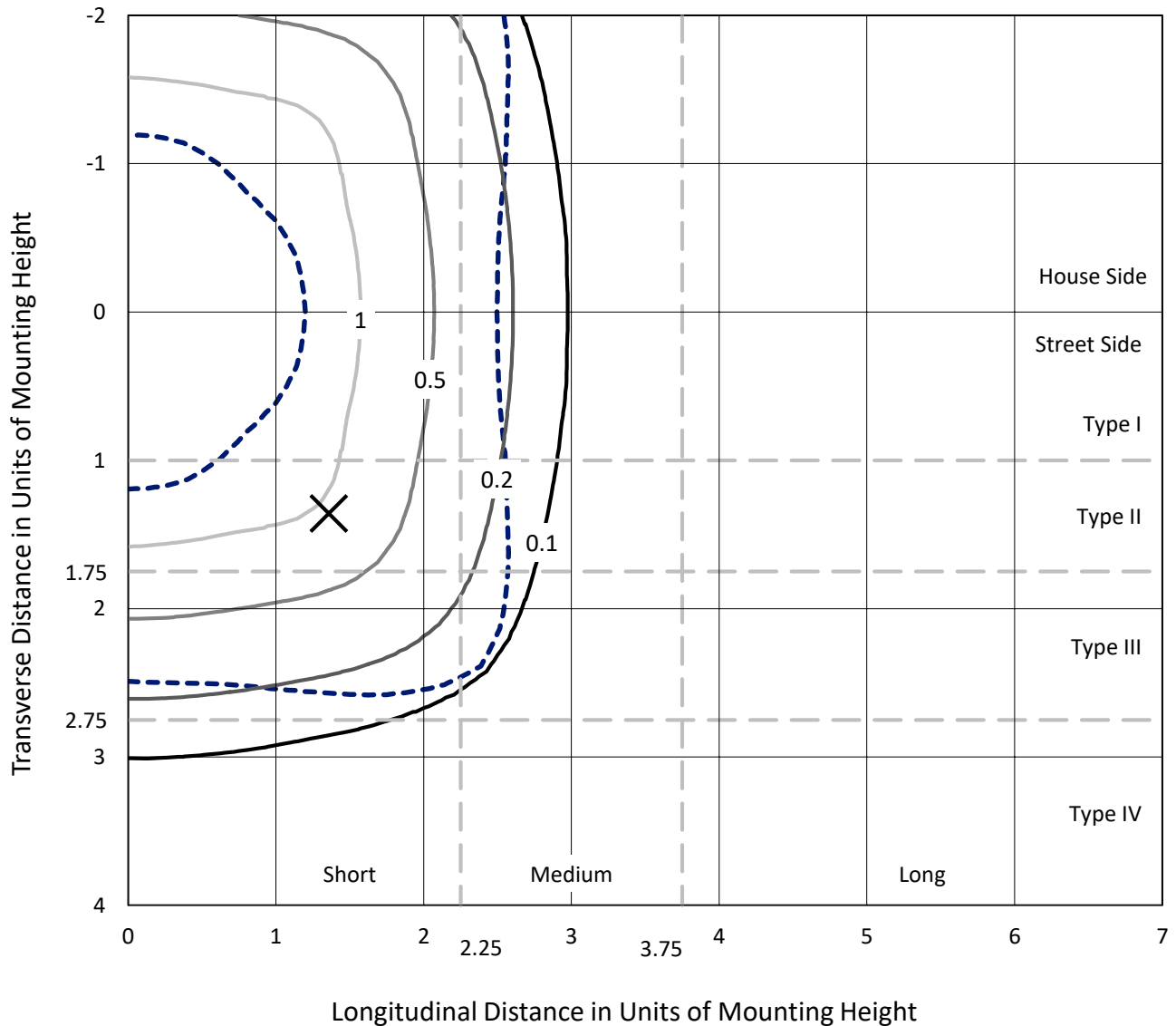
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P140263  
 CATALOG NUMBER: ECM-F01-LED-E1-5MQ-8030

### Iso-Footcandle Lines of Horizontal Illumination

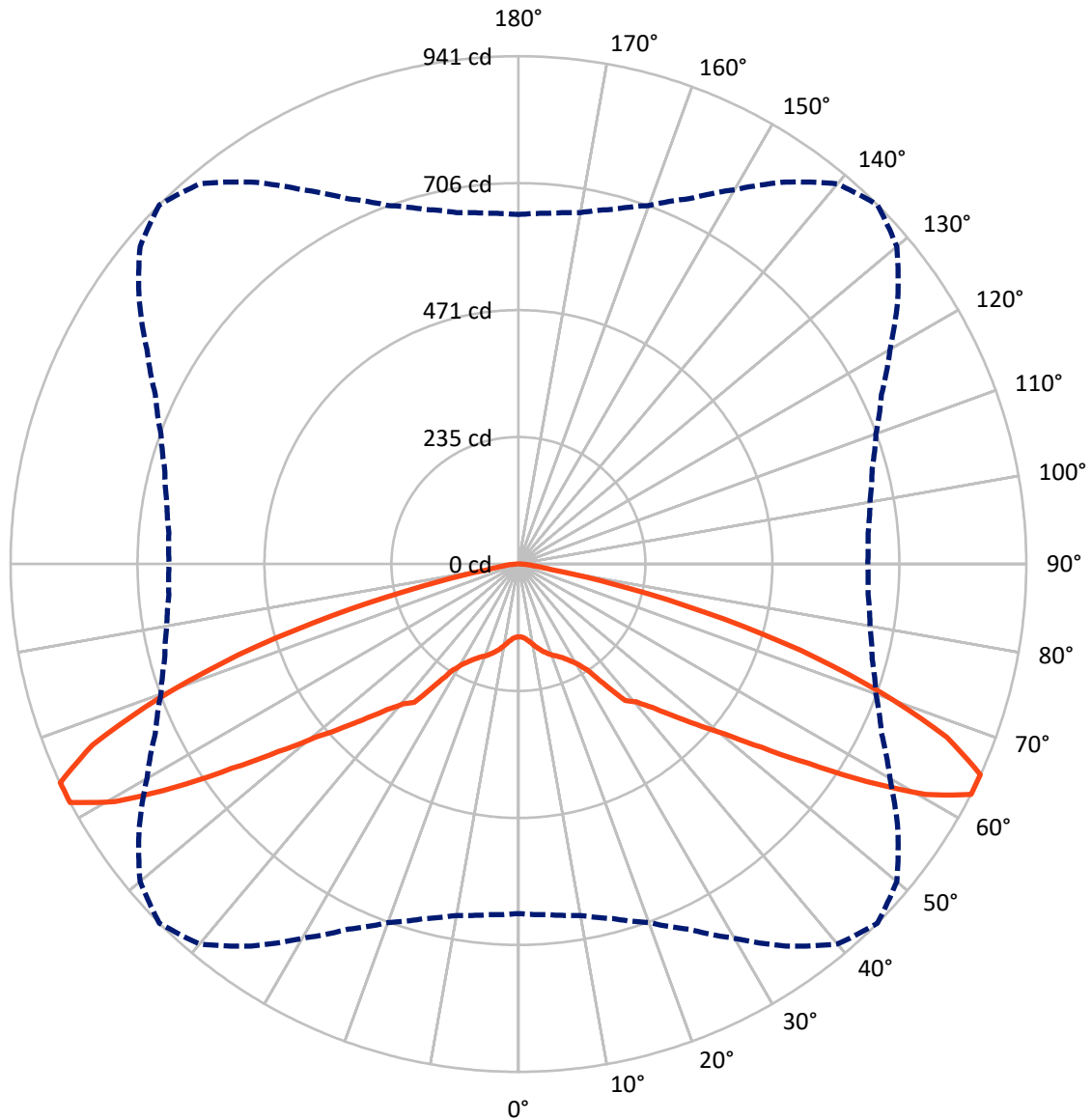
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.6 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P140263  
CATALOG NUMBER: ECM-F01-LED-E1-5MQ-8030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P140263

CATALOG NUMBER: ECM-F01-LED-E1-5MQ-8030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1063.8	0.0	1063.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1063.8	0.0	1063.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2127.7	0.0	2127.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.7	0.6
10°-20°	47.8	2.2
20°-30°	91.8	4.3
30°-40°	176.7	8.3
40°-50°	307.5	14.5
50°-60°	552.3	26.0
60°-70°	677.0	31.8
70°-80°	238.8	11.2
80°-90°	22.1	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°	2127.7	100.0
0°-180°	2127.7	100.0



REPORT NUMBER: P140263

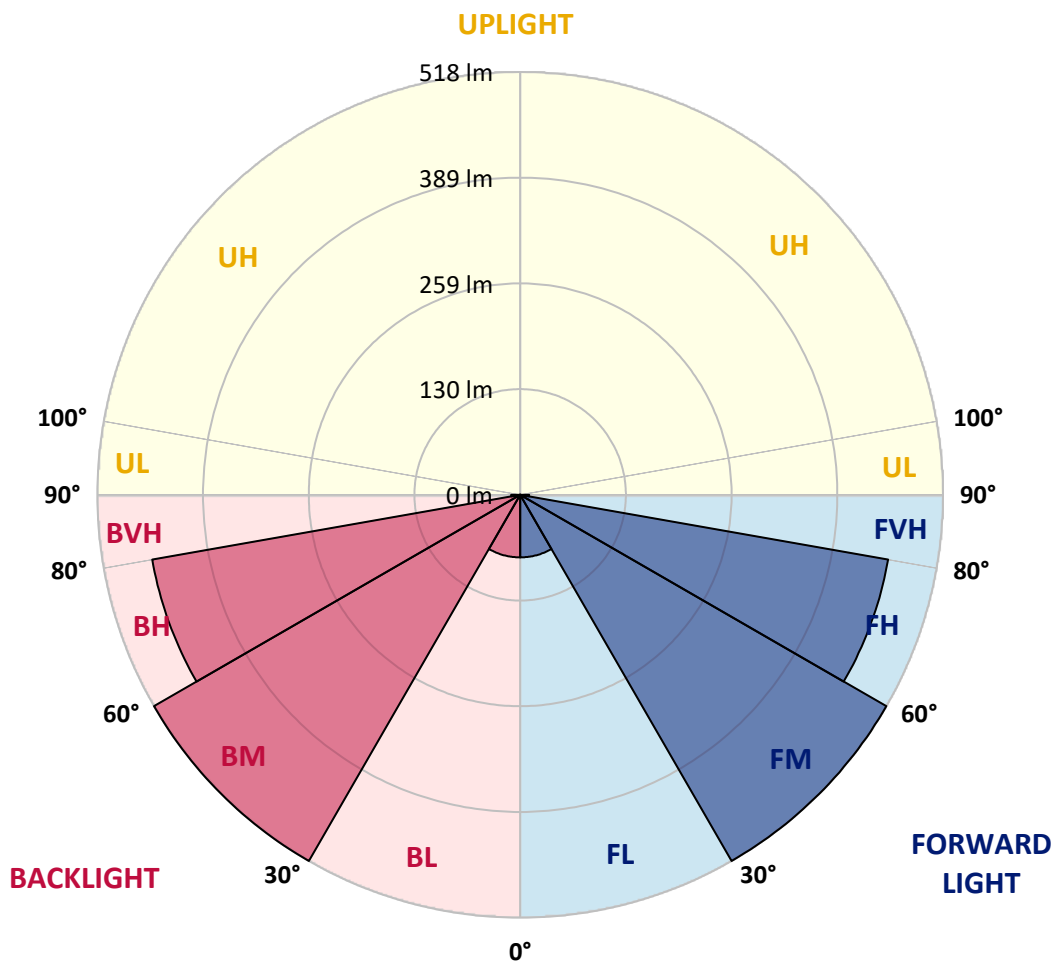
CATALOG NUMBER: ECM-F01-LED-E1-5MQ-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	76.7	3.6			
FM	(30°-60°)	518.2	24.4			
FH	(60°-80°)	457.9	21.5			G0/660
FVH	(80°-90°)	11.0	0.5			G1/100
BL	(0°-30°)	76.7	3.6	B0/110		
BM	(30°-60°)	518.2	24.4	B1/1000		
BH	(60°-80°)	457.9	21.5	B1/500		G0/660
BVH	(80°-90°)	11.0	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





REPORT NUMBER: P140263  
 CATALOG NUMBER: ECM-F01-LED-E1-5MQ-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9
2.5°	136.6	136.6	136.3	136.1	136.1	136.1	135.9	135.9	136.1	135.6	135.6
5°	140.0	140.3	140.0	139.8	139.6	139.6	139.3	139.3	139.6	139.1	138.9
7.5°	146.5	146.8	146.3	146.1	145.8	145.6	145.4	145.2	145.4	144.7	144.7
10°	154.9	154.9	154.9	154.0	154.0	153.3	153.0	152.6	152.8	152.1	152.1
12.5°	163.3	163.3	163.0	162.6	162.3	161.9	161.4	161.4	160.9	160.0	159.6
15°	170.7	170.9	170.7	170.0	169.8	169.1	169.1	168.6	167.9	167.4	167.0
17.5°	177.7	177.9	177.2	177.0	176.3	175.8	175.3	175.1	174.6	174.0	173.7
20°	184.4	184.2	183.5	182.5	182.1	181.6	181.2	180.9	180.7	180.2	180.2
22.5°	190.9	190.9	190.2	188.8	187.9	187.4	186.7	186.3	185.8	185.6	186.0
25°	200.7	200.4	199.0	197.6	196.0	194.6	193.7	193.5	193.0	193.0	193.2
27.5°	213.2	212.7	210.6	208.8	206.9	205.1	203.9	203.0	202.8	202.5	202.5
30°	229.0	228.3	226.4	224.1	222.0	219.7	217.4	216.7	215.5	214.6	216.2
32.5°	259.2	259.7	255.9	251.3	246.6	242.2	238.3	235.3	233.4	233.6	233.6
35°	292.4	292.6	291.0	289.1	287.8	285.2	280.8	277.1	274.3	271.3	272.7
37.5°	306.8	307.0	305.6	305.4	306.3	308.0	312.4	315.6	320.5	321.2	319.8
40°	332.1	330.9	329.1	328.6	327.9	330.3	332.1	333.7	334.4	335.8	334.4
42.5°	358.6	358.1	356.7	355.1	355.1	355.6	358.6	361.1	362.8	363.0	362.8
45°	388.3	387.6	386.5	386.2	386.9	389.0	391.1	394.4	399.5	399.7	399.5
47.5°	421.1	421.5	419.7	420.4	421.5	425.0	430.8	436.2	441.7	443.8	441.3
50°	465.9	464.3	464.3	463.6	466.6	471.7	478.7	484.9	492.8	494.7	490.7
52.5°	526.7	523.2	523.9	522.1	523.7	528.4	539.7	549.5	559.5	564.4	556.7
55°	599.9	594.1	594.8	596.6	598.0	605.9	620.3	631.5	650.3	651.9	643.1
57.5°	659.8	658.2	659.1	663.5	672.3	686.1	704.2	731.1	754.3	759.9	750.4
60°	681.6	682.8	689.3	700.9	717.6	742.0	777.3	819.4	856.3	867.4	853.0
62.5°	647.7	652.4	661.2	680.5	707.0	746.7	800.8	864.2	919.5	941.1	915.3
65°	581.5	584.6	599.0	615.4	649.6	695.1	761.5	844.0	912.0	940.6	911.8
67.5°	494.7	500.5	513.0	533.5	563.0	609.2	678.9	763.2	831.4	856.5	831.2
70°	397.1	399.7	407.6	423.6	454.3	495.1	554.8	630.3	696.7	712.5	692.3
72.5°	275.4	280.6	287.3	301.9	321.2	355.8	405.0	460.5	514.0	546.7	517.0
75°	118.7	111.9	126.8	141.4	165.1	197.2	235.7	281.2	334.2	356.0	326.8
77.5°	35.5	35.3	37.6	41.8	50.2	66.4	93.1	123.8	164.7	178.8	153.5
80°	29.0	30.0	30.9	31.8	32.7	33.9	36.0	42.0	51.6	60.8	49.5
82.5°	24.6	25.8	28.3	29.7	30.4	30.7	30.7	30.4	29.3	28.8	28.6
85°	18.6	20.4	23.9	26.0	26.0	26.0	26.0	25.3	23.7	20.9	23.2
87.5°	6.3	8.4	13.9	14.9	15.3	14.2	14.9	15.1	12.5	9.5	12.1
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: P140263

CATALOG NUMBER: ECM-F01-LED-E1-5MQ-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	134.9	134.9	134.9	134.9	134.9	134.9	134.9	134.9
2.5°	135.6	135.6	135.6	135.9	135.6	135.6	135.6	135.6
5°	139.1	138.9	139.1	138.9	139.1	139.1	138.9	139.1
7.5°	144.5	144.5	144.7	144.7	144.5	144.5	144.5	144.5
10°	151.7	151.2	151.4	151.4	151.4	151.2	151.2	151.0
12.5°	159.1	158.6	158.6	158.6	158.6	158.4	158.6	158.6
15°	166.1	165.6	165.1	165.1	165.4	165.6	165.6	165.4
17.5°	172.8	172.3	171.6	171.6	171.4	171.9	172.3	172.1
20°	179.5	179.3	178.1	178.1	178.1	178.6	178.8	179.5
22.5°	186.3	186.0	185.1	184.9	185.1	186.0	186.7	186.7
25°	193.5	193.9	193.7	193.7	194.2	195.6	196.2	197.2
27.5°	203.7	204.6	204.8	205.8	206.0	207.6	208.8	210.2
30°	216.9	218.5	219.5	221.1	222.3	223.2	224.8	226.0
32.5°	235.3	239.2	243.9	249.2	251.5	255.7	257.6	258.0
35°	277.5	281.7	285.7	288.0	287.1	288.2	288.2	289.1
37.5°	315.6	311.4	308.0	307.3	305.4	304.7	304.9	305.6
40°	333.3	331.2	329.8	330.5	329.6	328.9	329.3	329.6
42.5°	361.8	358.6	357.4	357.2	356.7	357.2	358.4	357.9
45°	395.3	391.1	389.5	389.2	388.5	388.3	388.8	389.7
47.5°	435.5	430.4	425.2	423.6	423.6	422.2	423.2	421.8
50°	484.7	476.3	471.0	468.0	466.1	464.0	465.9	462.9
52.5°	549.5	537.6	531.8	527.9	522.6	522.8	523.2	522.1
55°	631.2	618.2	606.9	599.2	595.9	594.1	593.6	597.3
57.5°	725.3	702.3	684.2	670.7	665.6	658.6	655.4	655.4
60°	814.7	772.9	736.9	714.4	697.7	685.8	677.9	675.6
62.5°	858.4	795.0	742.3	705.1	678.6	661.7	650.3	647.3
65°	839.6	759.0	697.0	655.2	624.5	602.7	589.4	585.7
67.5°	763.9	679.5	614.3	572.3	539.3	515.6	505.6	501.4
70°	634.3	556.9	500.3	459.1	424.8	404.8	391.1	385.5
72.5°	455.9	397.1	345.1	309.8	278.9	268.5	249.9	248.0
75°	269.4	218.3	175.3	148.4	120.8	105.7	97.1	87.8
77.5°	109.6	78.3	58.8	44.4	38.1	34.6	33.0	32.5
80°	37.4	33.4	31.6	30.9	30.0	29.5	28.3	27.4
82.5°	29.5	29.3	28.3	28.1	27.2	25.8	23.5	22.1
85°	24.6	24.2	23.0	22.8	22.1	20.2	17.7	16.0
87.5°	13.9	12.8	11.6	11.8	11.1	9.8	7.2	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)