

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: P140585

Luminaire Tested: **ECM-F01-LED-E1-5XQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140585
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33688)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F01-LED-E1-5XQ
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2461.3 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - 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

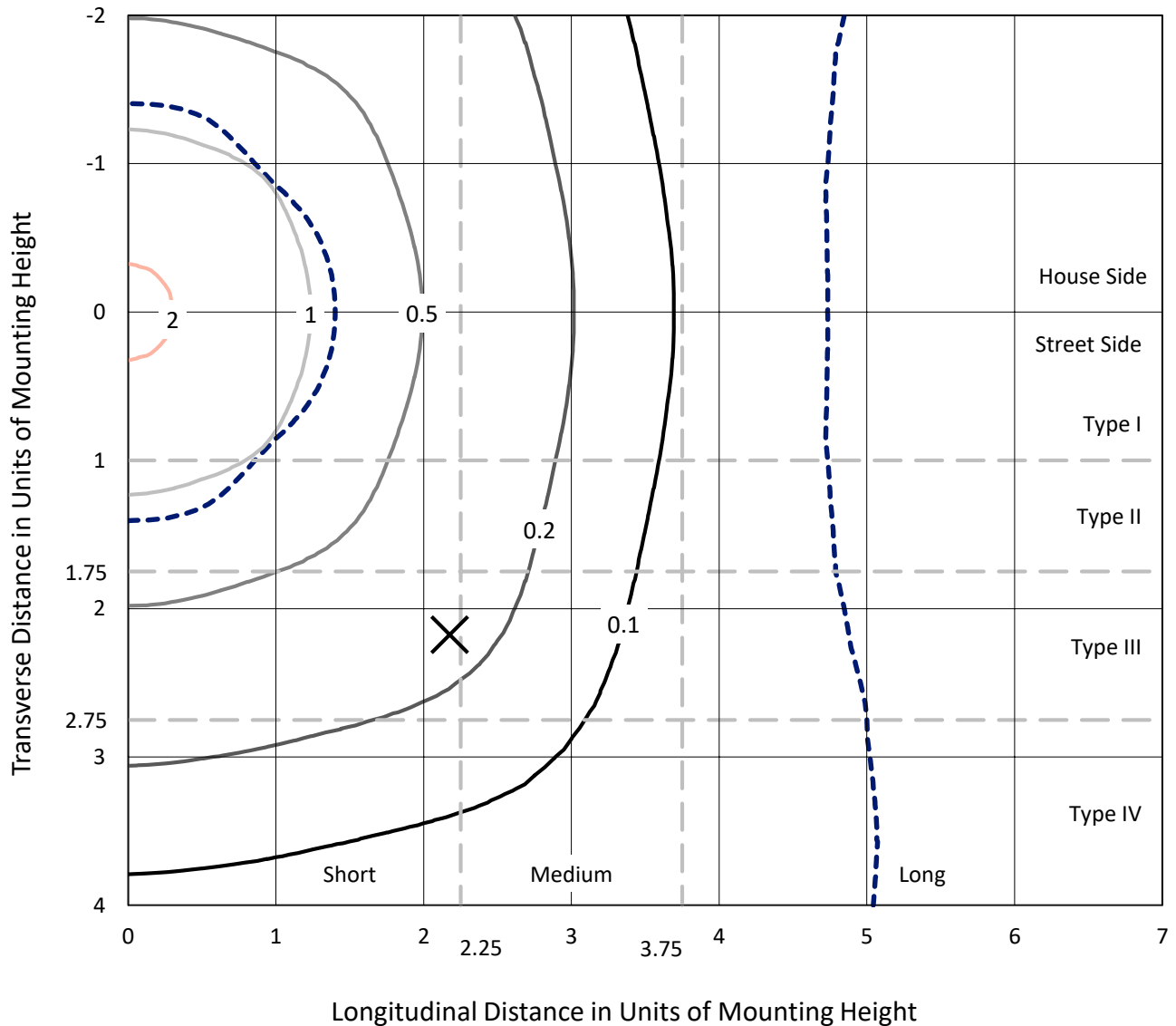


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Iso-Footcandle Lines of Horizontal Illumination

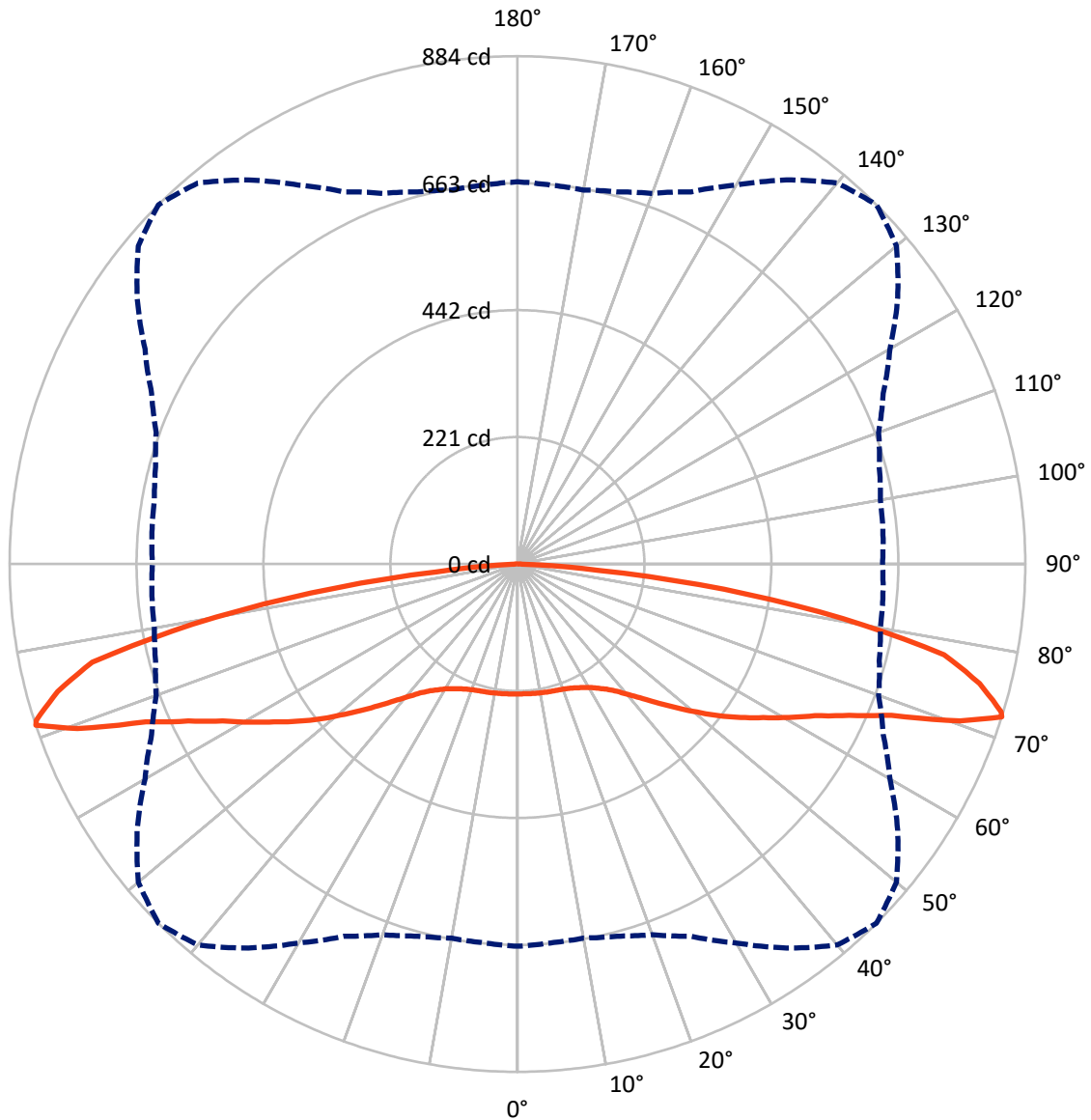
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1230.7	0.0	1230.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1230.7	0.0	1230.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	2461.3	0.0	2461.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.7	0.9
10°-20°	65.3	2.7
20°-30°	110.5	4.5
30°-40°	168.1	6.8
40°-50°	266.1	10.8
50°-60°	407.8	16.6
60°-70°	598.7	24.3
70°-80°	679.2	27.6
80°-90°	143.9	5.8
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°	2461.3	100.0
0°-180°	2461.3	100.0



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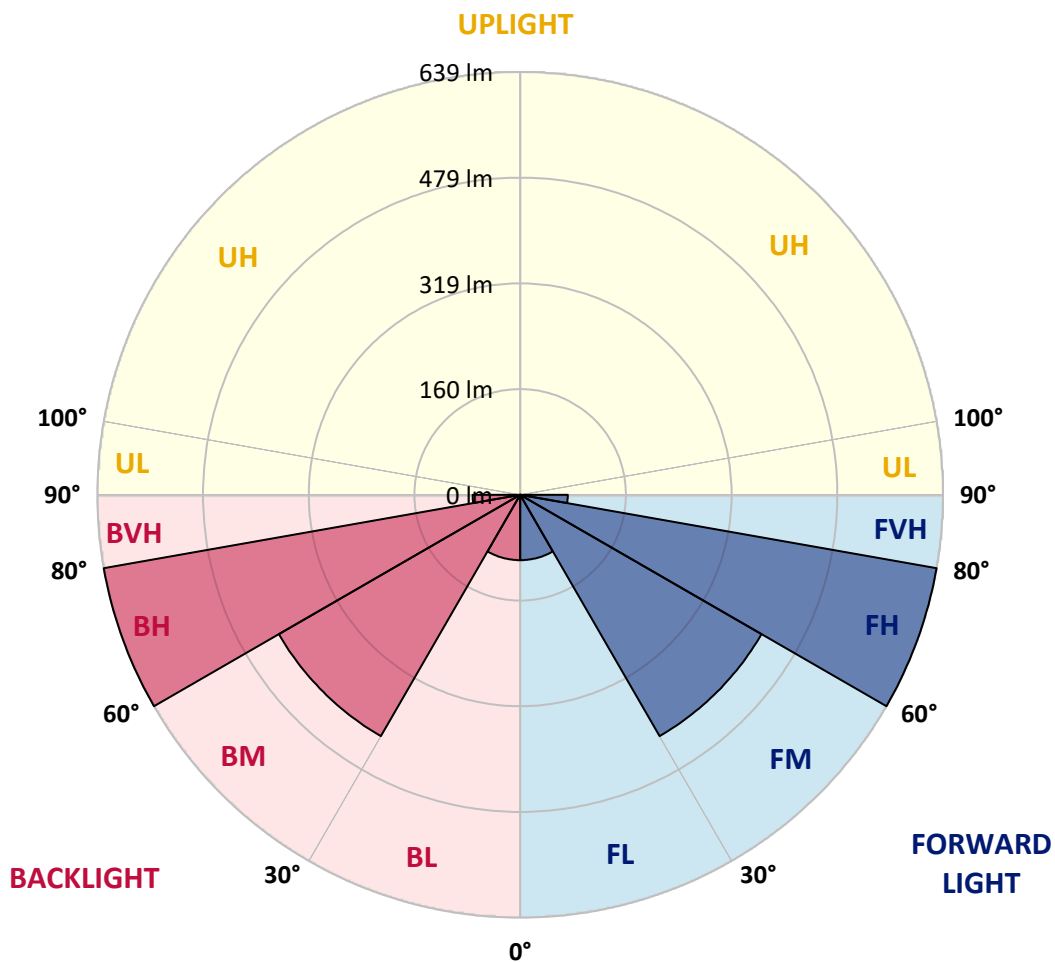
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	98.7	4.0			
FM (30°-60°)	421.0	17.1			
FH (60°-80°)	639.0	26.0			G0/660
FVH (80°-90°)	71.9	2.9			G1/100
BL (0°-30°)	98.7	4.0	B0/110		
BM (30°-60°)	421.0	17.1	B1/1000		
BH (60°-80°)	639.0	26.0	B2/1000		G0/660
BVH (80°-90°)	71.9	2.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2
2.5°	227.0	227.3	227.0	226.7	226.7	226.5	226.5	226.5	226.7	226.2	226.2
5°	227.6	227.8	227.6	227.0	227.0	227.0	226.7	226.7	227.0	226.7	226.7
7.5°	228.4	228.7	228.4	227.8	227.8	227.6	227.3	227.3	227.8	227.3	227.3
10°	229.2	229.8	229.2	228.7	228.7	228.4	228.1	228.1	228.4	227.8	227.8
12.5°	230.6	230.6	230.3	230.0	230.0	229.8	229.5	229.2	228.9	228.7	228.4
15°	231.7	232.0	231.4	231.1	230.9	230.6	230.3	230.3	229.8	229.5	229.5
17.5°	233.1	233.3	232.8	232.2	232.2	231.7	231.4	231.4	230.9	230.6	230.3
20°	234.4	234.7	234.2	233.9	233.6	233.3	232.8	233.1	232.8	232.2	232.2
22.5°	236.1	236.1	235.8	235.5	235.5	235.3	235.0	235.5	235.0	235.0	234.7
25°	237.8	238.0	237.8	237.8	238.0	238.0	238.3	238.9	238.9	238.6	238.3
27.5°	241.3	241.3	241.3	241.3	242.2	242.2	242.4	243.3	243.5	243.5	243.5
30°	246.0	246.3	246.0	246.0	246.8	247.1	247.9	248.8	249.3	249.3	249.6
32.5°	252.9	252.6	252.9	253.4	254.0	254.5	255.4	256.7	257.6	257.8	257.8
35°	261.7	262.0	261.7	262.0	263.1	263.9	264.7	266.4	266.9	267.5	267.7
37.5°	274.6	275.5	274.9	274.9	276.3	276.8	277.9	279.3	280.4	281.0	280.7
40°	293.3	293.1	292.5	292.8	293.1	293.6	294.7	297.5	298.8	298.8	298.8
42.5°	314.8	315.1	314.2	314.0	314.2	314.8	316.5	318.7	320.9	320.3	320.6
45°	339.3	337.4	337.9	337.4	337.6	339.6	342.3	343.4	345.6	345.6	346.2
47.5°	363.2	362.4	362.1	361.9	362.7	364.6	367.9	371.5	373.4	374.5	375.3
50°	390.2	388.8	388.5	388.8	389.1	389.6	396.0	399.6	404.2	405.1	404.8
52.5°	416.3	415.2	414.7	414.7	415.8	417.7	424.3	430.1	435.3	438.6	437.3
55°	444.7	444.7	443.0	442.5	444.1	446.1	455.1	461.7	469.2	471.6	467.8
57.5°	473.9	473.6	471.1	470.3	471.6	476.6	484.3	494.5	502.5	504.7	502.5
60°	502.5	502.5	501.1	500.5	501.9	508.0	517.3	528.6	538.2	542.4	538.8
62.5°	535.2	535.2	531.6	533.3	535.2	539.9	551.7	566.3	579.2	581.4	578.1
65°	572.4	574.0	571.3	570.7	573.2	582.0	595.5	613.9	629.0	634.8	629.9
67.5°	629.0	626.6	623.3	621.9	625.7	634.0	650.5	674.7	697.0	702.5	696.7
70°	687.9	685.5	684.4	688.8	697.0	714.4	739.7	773.5	804.6	817.8	805.7
72°	665.4	662.1	661.2	670.6	686.6	714.9	761.7	816.2	865.7	884.1	861.3
72.5°	653.8	651.1	650.8	659.6	676.9	705.5	751.5	807.6	860.7	880.8	856.3
75°	607.0	604.3	607.0	616.9	634.3	665.1	711.9	764.4	812.3	830.8	806.8
77.5°	542.4	537.4	539.9	553.7	572.9	606.5	656.0	718.2	764.4	759.5	724.0
80°	432.9	421.8	433.7	437.8	459.8	482.4	530.3	558.1	574.0	574.8	549.5
82.5°	189.0	193.4	208.3	220.7	236.4	262.5	281.8	311.8	346.7	363.0	343.4
85°	12.4	15.4	24.5	29.2	40.5	49.3	70.7	102.9	124.1	142.0	119.7
87.5°	2.2	3.0	5.5	6.6	7.2	8.0	8.0	11.0	11.6	9.4	10.5
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°	226.2	226.2	226.2	226.2	226.2	226.2	226.2	226.2
2.5°	226.2	226.2	226.5	226.2	226.2	226.2	225.9	225.9
5°	226.5	226.5	226.7	226.7	226.5	226.5	226.5	226.5
7.5°	227.3	227.0	227.3	227.3	227.0	227.0	226.7	227.0
10°	227.6	227.6	227.8	227.8	227.6	227.6	227.6	227.6
12.5°	228.4	228.4	228.4	228.7	228.4	228.4	228.7	228.4
15°	229.2	228.9	228.9	228.9	228.9	229.2	229.2	229.5
17.5°	230.0	230.0	229.8	230.0	230.0	230.3	230.3	230.3
20°	231.7	231.4	230.9	231.4	231.4	231.4	231.4	231.7
22.5°	234.2	233.6	233.1	233.1	232.8	233.1	232.8	232.8
25°	237.8	236.9	236.1	235.8	235.5	235.3	235.0	235.3
27.5°	243.0	241.9	240.8	240.2	240.0	239.4	239.1	239.1
30°	248.8	247.9	246.3	245.7	244.9	244.1	244.1	243.8
32.5°	257.6	256.5	254.5	253.7	252.3	251.5	251.2	251.2
35°	266.6	265.3	264.4	263.3	261.7	260.9	260.6	260.6
37.5°	280.4	278.8	277.7	276.3	276.0	274.9	274.9	274.9
40°	298.3	296.9	295.5	294.4	293.6	292.8	291.7	291.7
42.5°	320.3	318.1	317.3	315.9	314.8	314.0	313.4	313.4
45°	344.5	342.6	341.5	339.6	339.3	338.7	337.6	337.6
47.5°	371.8	369.0	366.8	366.3	364.9	363.5	363.0	363.2
50°	401.5	396.8	393.8	393.8	392.1	390.2	390.5	390.2
52.5°	432.0	426.8	422.9	420.2	418.3	418.0	418.3	418.0
55°	462.8	457.3	452.7	449.6	447.7	445.8	445.5	445.5
57.5°	494.8	487.9	480.5	477.7	475.8	474.7	474.7	475.0
60°	530.8	519.5	510.2	506.6	505.2	505.8	505.5	505.8
62.5°	567.4	554.5	543.5	539.3	537.4	537.1	539.3	540.2
65°	613.6	597.7	585.3	577.6	577.6	576.8	579.2	578.1
67.5°	673.9	651.3	636.2	623.8	624.1	624.9	628.5	628.2
70°	776.5	736.6	708.6	687.4	679.1	673.6	672.5	672.5
72°	808.2	748.8	702.5	669.2	652.2	641.7	638.7	635.4
72.5°	799.9	738.8	692.1	657.4	639.8	629.3	624.6	620.5
75°	747.9	679.7	628.8	592.5	572.9	560.3	557.8	555.9
77.5°	659.9	599.3	546.8	509.1	489.5	473.3	466.7	466.1
80°	508.8	454.3	413.9	384.4	366.8	354.7	355.3	351.4
82.5°	300.2	254.3	219.6	180.2	154.4	139.5	130.2	129.1
85°	88.3	60.0	38.2	27.5	19.8	14.9	11.0	9.9
87.5°	8.0	6.3	5.2	4.4	4.1	3.6	2.2	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)