

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: P140259

Luminaire Tested: **ECM-E01-LED-E1-5MQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140259
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-E01-LED-E1-5MQ-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2789.2 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

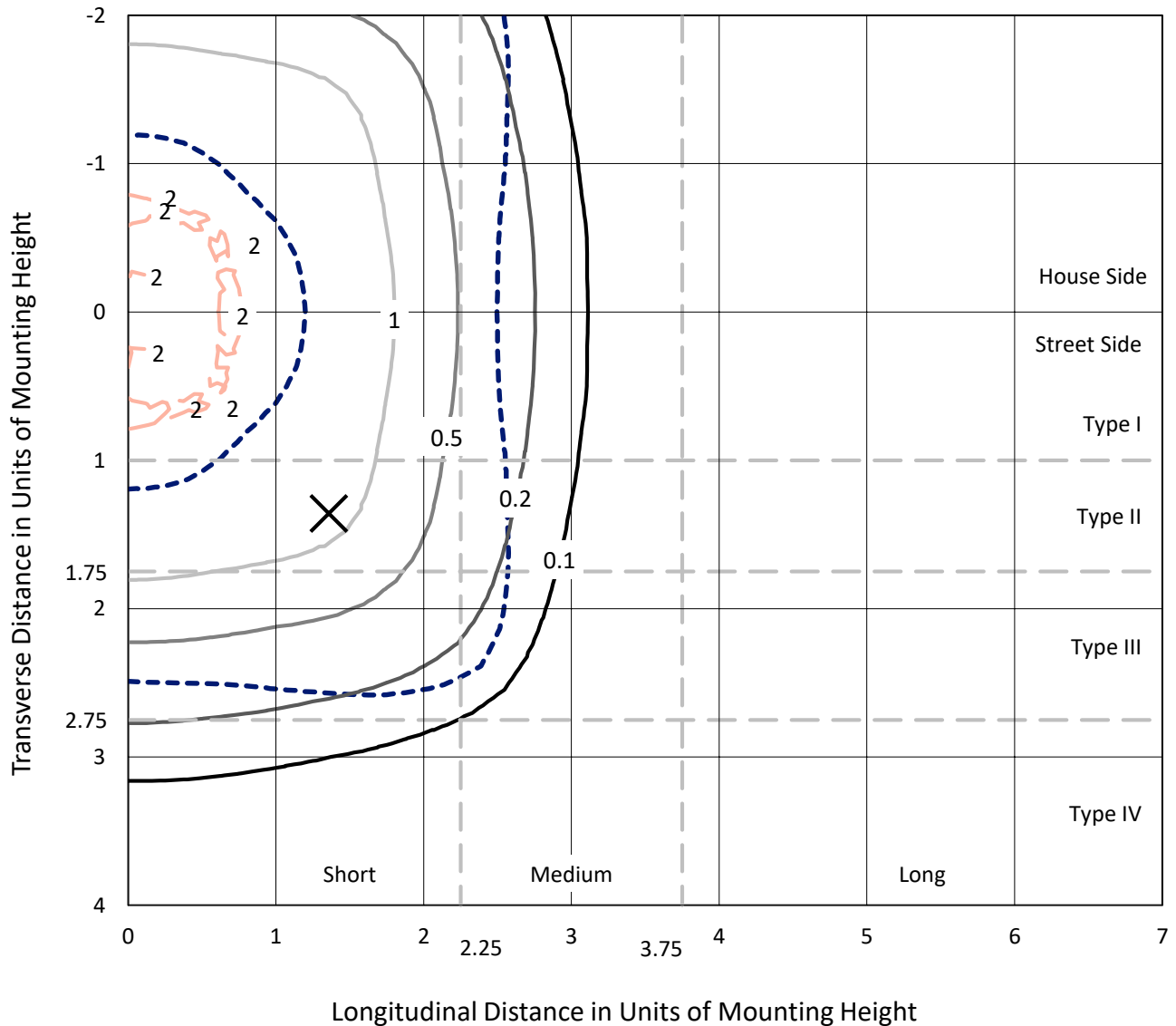
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

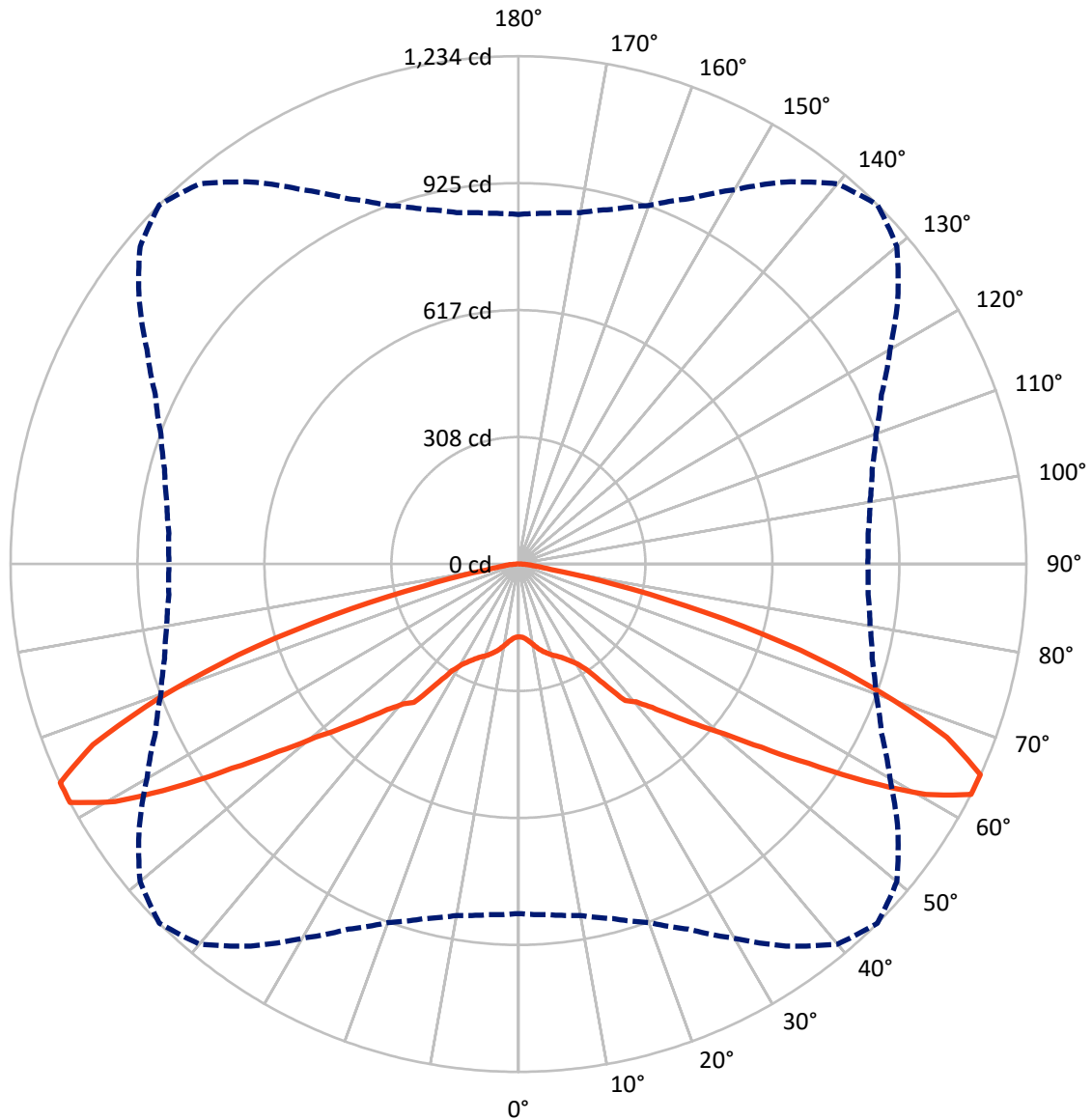
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2 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	1394.6	0.0	1394.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1394.6	0.0	1394.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	2789.2	0.0	2789.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.0	0.6
10°-20°	62.7	2.2
20°-30°	120.4	4.3
30°-40°	231.6	8.3
40°-50°	403.1	14.5
50°-60°	724.0	26.0
60°-70°	887.5	31.8
70°-80°	313.0	11.2
80°-90°	28.9	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°	2789.2	100.0
0°-180°	2789.2	100.0



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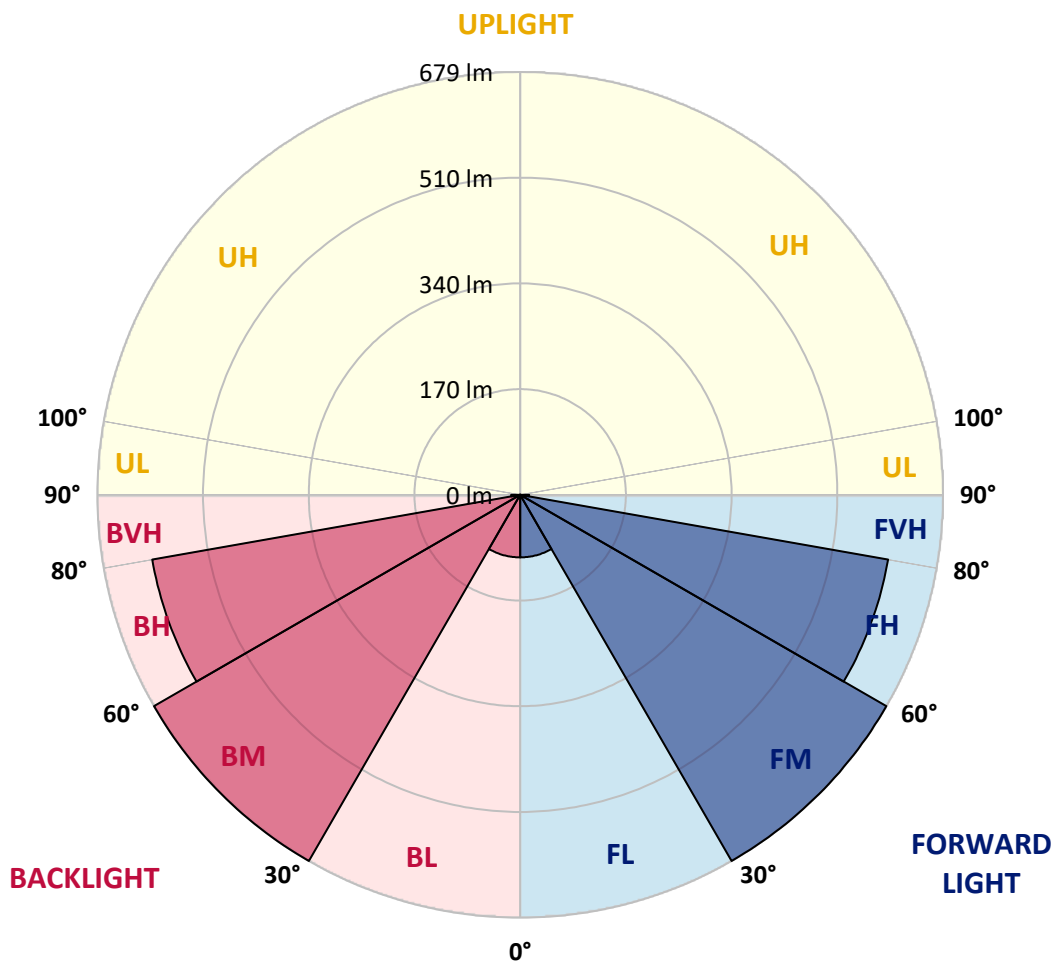
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	100.5	3.6			
FM	(30°-60°)	679.3	24.4			
FH	(60°-80°)	600.2	21.5			G0/660
FVH	(80°-90°)	14.5	0.5			G1/100
BL	(0°-30°)	100.5	3.6	B0/110		
BM	(30°-60°)	679.3	24.4	B1/1000		
BH	(60°-80°)	600.2	21.5	B2/1000		G0/660
BVH	(80°-90°)	14.5	0.5			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°	176.9	176.9	176.9	176.9	176.9	176.9	176.9	176.9	176.9	176.9	176.9
2.5°	179.0	179.0	178.7	178.4	178.4	178.4	178.1	178.1	178.4	177.8	177.8
5°	183.6	183.9	183.6	183.3	183.0	183.0	182.7	182.7	183.0	182.4	182.1
7.5°	192.1	192.4	191.8	191.5	191.2	190.9	190.6	190.3	190.6	189.7	189.7
10°	203.1	203.1	203.1	201.9	201.9	200.9	200.6	200.0	200.3	199.4	199.4
12.5°	214.0	214.0	213.7	213.1	212.8	212.2	211.6	211.6	211.0	209.8	209.2
15°	223.8	224.1	223.8	222.9	222.6	221.6	221.6	221.0	220.1	219.5	218.9
17.5°	232.9	233.2	232.3	232.0	231.1	230.5	229.9	229.6	228.9	228.0	227.7
20°	241.7	241.4	240.5	239.3	238.7	238.1	237.5	237.2	236.9	236.3	236.3
22.5°	250.3	250.3	249.3	247.5	246.3	245.7	244.8	244.2	243.6	243.3	243.9
25°	263.0	262.7	260.9	259.1	257.0	255.1	253.9	253.6	253.0	253.0	253.3
27.5°	279.5	278.9	276.1	273.7	271.3	268.8	267.3	266.1	265.8	265.5	265.5
30°	300.2	299.3	296.8	293.8	291.1	288.0	285.0	284.1	282.5	281.3	283.4
32.5°	339.8	340.4	335.5	329.4	323.3	317.5	312.4	308.4	306.0	306.3	306.3
35°	383.3	383.6	381.5	379.0	377.2	373.9	368.1	363.2	359.6	355.6	357.4
37.5°	402.2	402.5	400.7	400.4	401.6	403.7	409.5	413.7	420.1	421.1	419.2
40°	435.4	433.8	431.4	430.8	429.9	432.9	435.4	437.5	438.4	440.2	438.4
42.5°	470.1	469.5	467.6	465.5	465.5	466.1	470.1	473.4	475.6	475.9	475.6
45°	509.0	508.1	506.6	506.3	507.2	510.0	512.7	517.0	523.7	524.0	523.7
47.5°	552.0	552.6	550.1	551.1	552.6	557.1	564.8	571.8	579.1	581.8	578.5
50°	610.7	608.6	608.6	607.7	611.6	618.3	627.5	635.7	646.0	648.5	643.3
52.5°	690.5	685.9	686.8	684.4	686.5	692.6	707.5	720.3	733.4	739.8	729.8
55°	786.4	778.8	779.7	782.1	784.0	794.3	813.2	827.8	852.5	854.6	843.0
57.5°	864.9	862.8	864.0	869.8	881.4	899.3	923.1	958.4	988.9	996.2	983.7
60°	893.6	895.1	903.6	918.8	940.8	972.7	1019.0	1074.1	1122.5	1137.1	1118.2
62.5°	849.1	855.2	866.8	892.0	926.7	978.8	1049.7	1132.9	1205.3	1233.6	1199.8
65°	762.3	766.3	785.2	806.8	851.5	911.2	998.3	1106.4	1195.6	1233.0	1195.3
67.5°	648.5	656.1	672.5	699.3	738.0	798.6	889.9	1000.4	1089.9	1122.8	1089.6
70°	520.6	524.0	534.3	555.3	595.5	649.1	727.3	826.3	913.4	934.1	907.6
72.5°	361.1	367.8	376.6	395.8	421.1	466.4	531.0	603.7	673.7	716.7	677.7
75°	155.6	146.7	166.2	185.4	216.5	258.5	309.0	368.7	438.1	466.7	428.4
77.5°	46.6	46.3	49.3	54.8	65.8	87.1	122.1	162.3	215.9	234.4	201.2
80°	38.1	39.3	40.5	41.7	42.9	44.4	47.2	55.1	67.6	79.8	64.8
82.5°	32.3	33.8	37.1	39.0	39.9	40.2	40.2	39.9	38.4	37.8	37.4
85°	24.4	26.8	31.4	34.1	34.1	34.1	34.1	33.2	31.1	27.4	30.4
87.5°	8.2	11.0	18.3	19.5	20.1	18.6	19.5	19.8	16.4	12.5	15.8
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°	176.9	176.9	176.9	176.9	176.9	176.9	176.9	176.9
2.5°	177.8	177.8	177.8	178.1	177.8	177.8	177.8	177.8
5°	182.4	182.1	182.4	182.1	182.4	182.4	182.1	182.4
7.5°	189.4	189.4	189.7	189.7	189.4	189.4	189.4	189.4
10°	198.8	198.2	198.5	198.5	198.5	198.2	198.2	197.9
12.5°	208.5	207.9	207.9	207.9	207.9	207.6	207.9	207.9
15°	217.7	217.1	216.5	216.5	216.8	217.1	217.1	216.8
17.5°	226.5	225.9	225.0	225.0	224.7	225.3	225.9	225.6
20°	235.3	235.0	233.5	233.5	233.5	234.1	234.4	235.3
22.5°	244.2	243.9	242.6	242.3	242.6	243.9	244.8	244.8
25°	253.6	254.2	253.9	253.9	254.5	256.3	257.3	258.5
27.5°	267.0	268.2	268.5	269.7	270.0	272.2	273.7	275.5
30°	284.4	286.5	287.7	289.8	291.4	292.6	294.7	296.2
32.5°	308.4	313.6	319.7	326.7	329.7	335.2	337.6	338.2
35°	363.8	369.3	374.5	377.5	376.3	377.8	377.8	379.0
37.5°	413.7	408.3	403.7	402.8	400.4	399.4	399.7	400.7
40°	436.9	434.1	432.3	433.2	432.0	431.1	431.7	432.0
42.5°	474.3	470.1	468.5	468.2	467.6	468.2	469.8	469.2
45°	518.2	512.7	510.6	510.3	509.3	509.0	509.6	510.9
47.5°	570.8	564.1	557.4	555.3	555.3	553.5	554.7	552.9
50°	635.4	624.4	617.4	613.5	611.0	608.3	610.7	606.8
52.5°	720.3	704.8	697.2	692.0	685.0	685.3	685.9	684.4
55°	827.5	810.4	795.5	785.5	781.2	778.8	778.2	783.0
57.5°	950.8	920.7	896.9	879.3	872.6	863.4	859.2	859.2
60°	1068.0	1013.2	966.0	936.5	914.6	899.0	888.7	885.6
62.5°	1125.2	1042.1	973.0	924.3	889.6	867.4	852.5	848.5
65°	1100.6	994.9	913.7	858.9	818.7	790.0	772.7	767.8
67.5°	1001.3	890.8	805.3	750.2	706.9	675.9	662.8	657.3
70°	831.5	730.1	655.8	601.9	556.8	530.7	512.7	505.4
72.5°	597.6	520.6	452.4	406.1	365.6	351.9	327.6	325.2
75°	353.2	286.2	229.9	194.5	158.3	138.5	127.3	115.1
77.5°	143.7	102.6	77.0	58.1	49.9	45.4	43.2	42.6
80°	49.0	43.8	41.4	40.5	39.3	38.7	37.1	35.9
82.5°	38.7	38.4	37.1	36.8	35.6	33.8	30.7	28.9
85°	32.3	31.7	30.1	29.8	28.9	26.5	23.1	21.0
87.5°	18.3	16.7	15.2	15.5	14.6	12.8	9.4	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)