

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: P179958

Luminaire Tested: **ICM-E01-LED-E1-5MQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P179958
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E01-LED-E1-5MQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2998.9 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
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

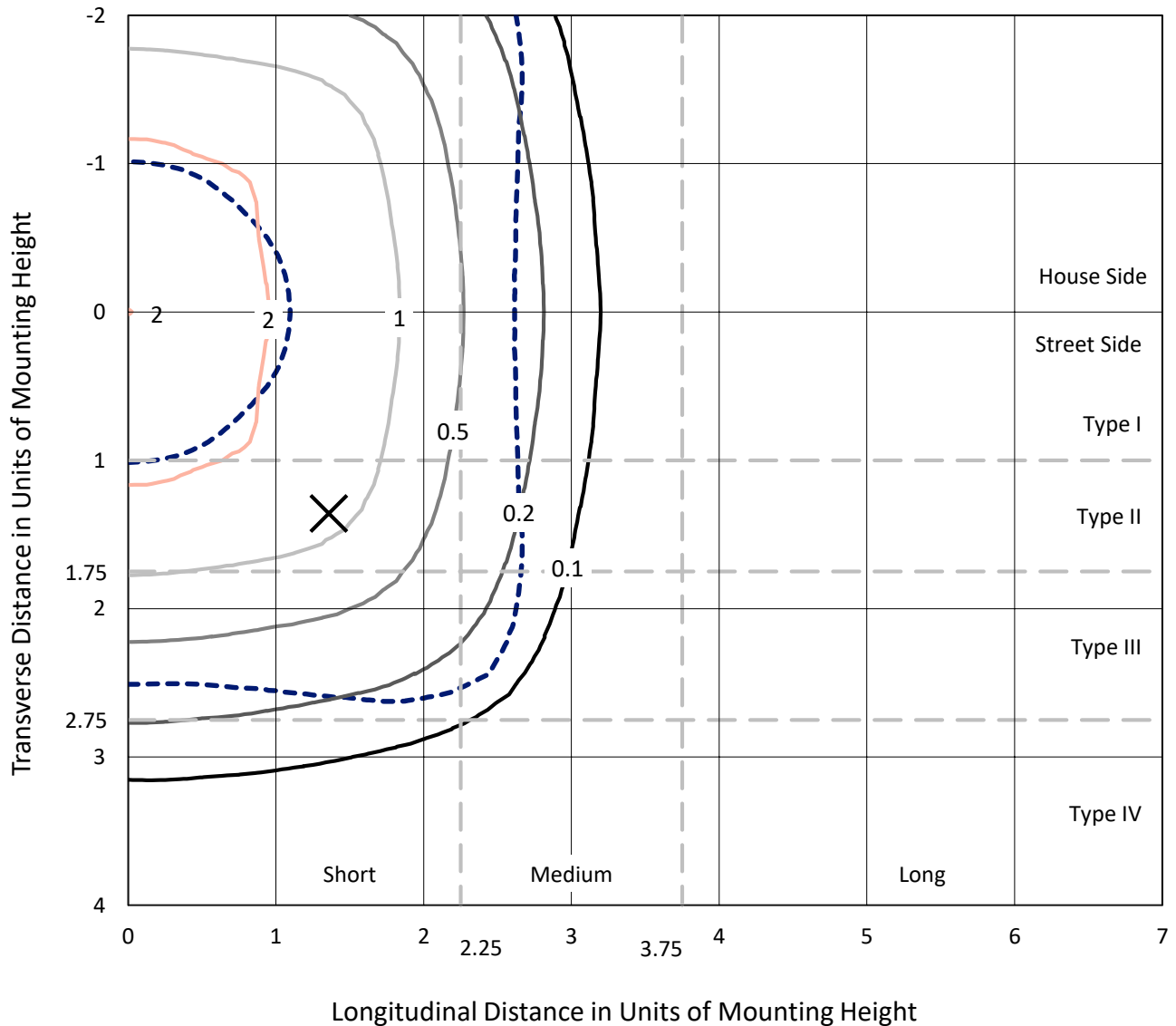


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

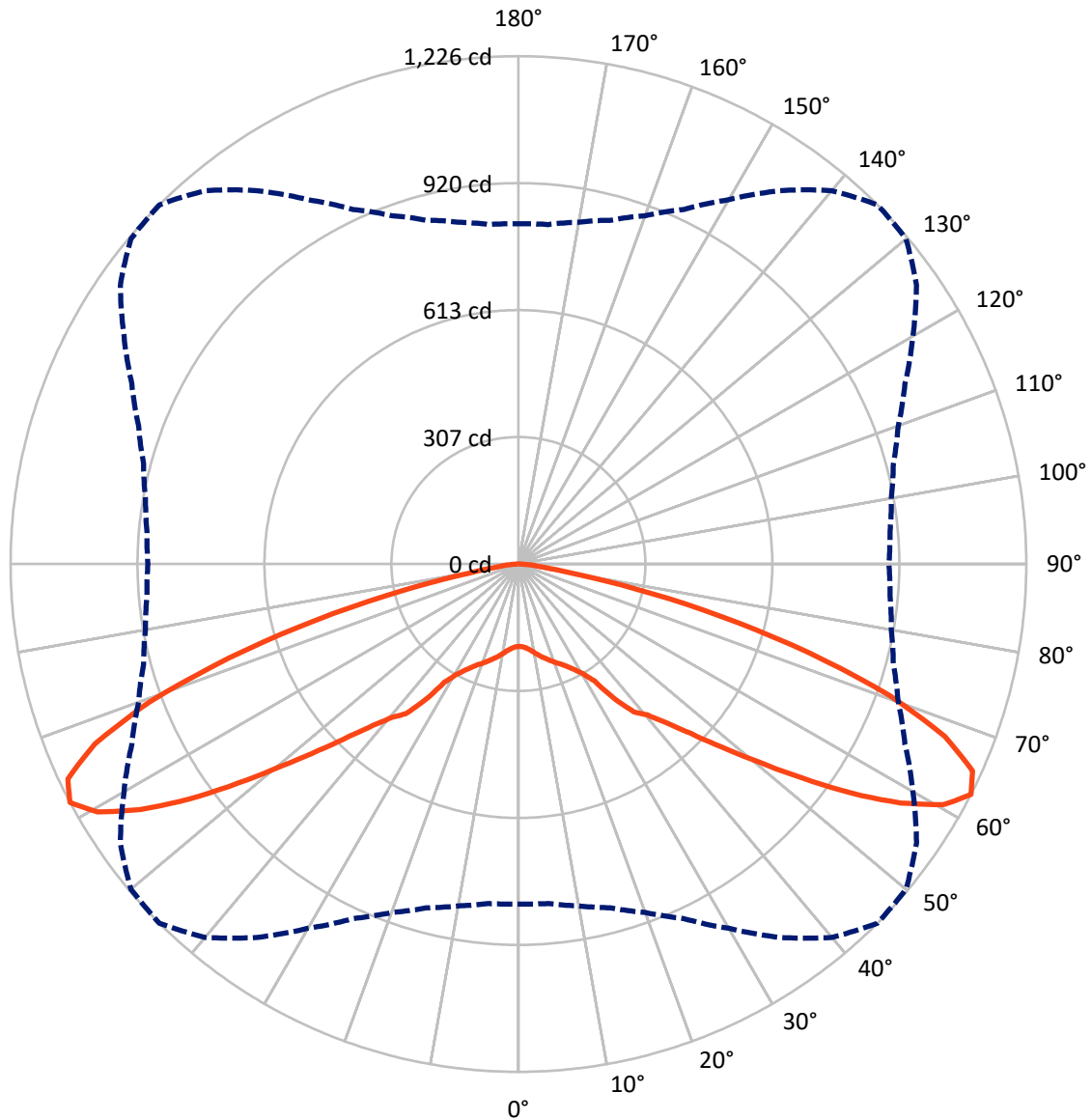


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Full Cutoff

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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	1499.4	0.0	1499.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1499.4	0.0	1499.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	2998.9	0.0	2998.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	0.7
10°-20°	67.4	2.2
20°-30°	130.4	4.3
30°-40°	252.5	8.4
40°-50°	455.8	15.2
50°-60°	792.6	26.4
60°-70°	899.8	30.0
70°-80°	348.9	11.6
80°-90°	31.5	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°	2998.9	100.0
0°-180°	2998.9	100.0



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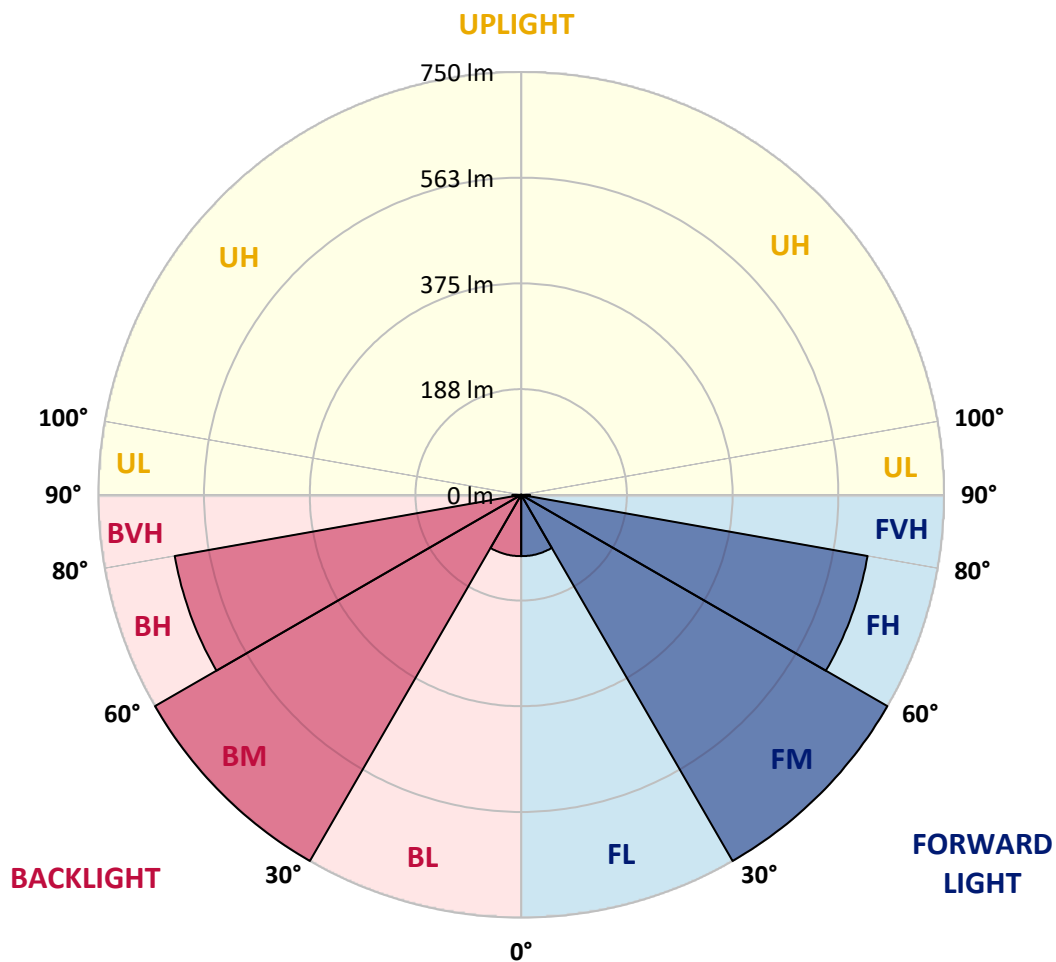
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	108.9	3.6			
FM (30°-60°)	750.5	25.0			
FH (60°-80°)	624.3	20.8			G0/660
FVH (80°-90°)	15.7	0.5			G1/100
BL (0°-30°)	108.9	3.6	B0/110		
BM (30°-60°)	750.5	25.0	B1/1000		
BH (60°-80°)	624.3	20.8	B2/1000		G0/660
BVH (80°-90°)	15.7	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°	199.1	199.1	199.1	199.1	199.1	199.1	199.1	199.1	199.1	199.1	199.1
2.5°	200.4	200.9	200.7	200.5	200.5	200.5	200.4	199.8	199.7	200.0	200.4
5°	205.0	205.0	205.0	205.0	204.7	204.7	204.3	204.1	204.2	203.9	203.7
7.5°	212.1	211.6	211.6	211.4	211.5	211.2	210.7	210.0	210.2	210.0	209.9
10°	220.5	220.7	220.1	220.7	219.8	219.7	219.1	218.8	218.6	218.1	218.1
12.5°	230.5	230.1	230.1	229.8	229.4	229.2	228.3	228.1	227.4	227.2	226.7
15°	240.0	239.8	239.3	238.6	238.4	238.1	237.0	236.5	236.3	235.5	234.9
17.5°	249.5	249.1	248.4	248.0	247.4	247.0	246.0	245.1	244.7	244.3	243.5
20°	259.5	259.3	258.4	257.9	257.1	256.4	255.1	254.3	253.8	253.4	252.7
22.5°	272.1	271.4	270.2	269.2	267.4	266.8	264.9	263.8	263.1	262.5	262.1
25°	285.8	286.0	284.2	282.8	280.7	279.1	276.7	275.5	274.8	274.1	274.0
27.5°	302.8	303.0	301.4	299.4	296.3	294.4	291.4	289.8	289.3	288.7	288.6
30°	329.8	328.4	325.8	322.4	319.7	315.6	311.2	309.6	308.1	307.6	307.5
32.5°	379.4	378.6	376.4	368.4	364.7	356.3	348.4	343.9	338.8	336.3	334.7
35°	414.1	413.8	412.1	409.3	407.0	405.2	400.6	399.8	398.9	398.9	400.2
37.5°	439.7	437.8	437.5	438.0	437.4	437.7	441.4	446.5	450.9	453.0	452.7
40°	477.5	474.9	476.5	475.4	474.0	473.7	474.9	476.8	478.9	478.9	478.4
42.5°	527.0	528.2	528.8	524.4	521.4	520.6	523.5	523.0	525.0	524.2	522.1
45°	600.5	599.7	598.6	593.1	588.5	584.8	585.6	584.6	584.7	583.4	581.9
47.5°	674.6	677.2	672.7	670.1	664.8	662.1	664.4	662.5	666.1	659.5	656.4
50°	746.5	748.4	746.8	743.1	743.1	746.8	749.4	752.8	757.8	750.3	739.2
52.5°	805.4	807.0	809.3	812.5	820.0	827.9	839.1	851.0	860.5	859.1	846.3
55°	841.4	843.3	847.1	857.9	871.4	892.3	917.5	945.3	967.0	977.5	968.2
57.5°	853.5	854.9	865.5	878.3	899.5	930.4	972.7	1020.7	1062.3	1088.8	1084.7
60°	850.7	850.7	861.4	879.1	908.8	949.8	1009.6	1075.9	1139.9	1179.5	1173.7
62.5°	821.4	822.9	838.3	859.5	895.4	944.6	1015.8	1100.7	1177.0	1226.4	1221.6
65°	757.2	758.3	774.9	800.2	840.3	898.2	976.3	1070.2	1157.8	1205.3	1196.3
67.5°	653.5	654.6	668.1	696.6	739.1	799.6	883.9	987.4	1073.0	1110.5	1083.5
70°	519.8	523.0	531.6	561.9	594.1	653.5	731.0	834.4	915.4	950.9	921.1
72.5°	354.2	362.1	372.7	399.5	430.3	479.7	541.4	628.6	693.5	734.6	708.1
75°	199.5	210.7	214.0	234.2	259.7	298.6	343.7	406.1	471.8	505.1	473.1
77.5°	86.1	95.3	99.3	108.8	128.7	144.9	172.4	214.5	265.3	288.7	250.4
80°	42.4	44.7	46.3	49.3	54.9	60.1	73.2	91.6	112.4	117.7	93.7
82.5°	32.9	34.4	37.4	39.7	41.1	42.5	43.7	46.1	48.2	49.3	46.5
85°	23.1	25.1	28.4	31.0	32.6	33.7	34.7	35.5	33.7	30.7	32.2
87.5°	6.0	7.9	11.0	11.9	13.5	14.3	14.0	14.4	13.0	9.5	10.6
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°	199.1	199.1	199.1	199.1	199.1	199.1	199.1	199.1
2.5°	200.2	200.0	200.2	200.2	200.2	200.0	200.0	200.0
5°	203.7	203.7	203.9	203.5	203.5	203.7	203.5	203.4
7.5°	209.8	209.7	209.6	209.5	209.7	209.5	209.5	209.3
10°	217.9	217.5	217.7	217.2	217.2	217.1	217.1	217.0
12.5°	226.5	226.0	226.2	225.7	224.9	225.1	225.3	225.1
15°	234.9	234.4	234.0	233.7	233.1	233.3	233.3	233.2
17.5°	243.4	242.4	242.3	241.9	241.7	241.7	241.7	241.9
20°	252.3	251.6	251.5	251.0	250.8	251.4	251.5	251.2
22.5°	261.8	261.4	261.8	261.4	261.9	262.1	262.3	262.0
25°	273.7	273.3	273.9	274.9	275.5	275.8	276.7	276.3
27.5°	288.9	288.7	289.8	291.4	292.3	293.8	294.6	294.9
30°	308.8	310.2	310.9	314.0	314.6	317.0	317.0	318.1
32.5°	337.7	340.3	344.9	349.8	356.5	361.3	361.3	363.7
35°	400.9	402.0	405.6	406.3	407.8	409.3	407.8	409.0
37.5°	449.5	444.7	441.3	436.5	433.5	433.5	433.9	433.5
40°	474.2	472.4	470.9	466.8	466.2	466.0	466.0	466.7
42.5°	518.6	514.1	511.6	508.2	507.2	506.8	506.6	507.0
45°	576.3	569.0	562.3	558.9	556.0	553.1	554.0	554.1
47.5°	643.4	632.1	621.2	615.4	610.2	607.9	606.3	605.9
50°	725.1	709.3	695.4	684.4	676.9	676.7	677.5	672.6
52.5°	825.3	800.4	782.9	768.0	761.1	760.3	757.9	755.1
55°	936.3	906.6	878.0	862.0	852.8	847.9	845.0	840.3
57.5°	1050.7	1010.8	969.7	944.0	927.9	916.7	910.9	908.2
60°	1139.0	1084.5	1030.1	989.0	962.1	945.6	935.4	931.2
62.5°	1173.6	1099.8	1030.1	976.1	937.3	914.4	900.7	894.6
65°	1132.3	1044.8	965.4	905.9	862.7	837.0	822.0	815.5
67.5°	1016.6	939.4	853.0	793.9	749.3	724.1	707.7	703.0
70°	852.3	773.3	690.8	638.0	598.3	577.7	560.7	558.8
72.5°	640.5	572.4	501.8	458.0	426.0	391.9	383.3	387.6
75°	410.5	346.8	283.9	244.5	215.4	182.8	170.2	173.3
77.5°	194.4	150.6	108.7	84.0	70.5	60.3	57.7	56.1
80°	72.1	58.4	51.6	48.9	47.2	45.4	44.2	42.8
82.5°	46.7	45.6	44.2	43.7	42.3	40.2	36.1	34.4
85°	34.9	34.9	33.0	33.2	32.1	29.3	25.6	23.5
87.5°	10.2	9.2	8.4	7.7	7.6	6.9	4.9	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)