

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: P367920

Luminaire Tested: **MSA-SA3C-727-U-5NQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-5)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3C-727-U-5NQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15580 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

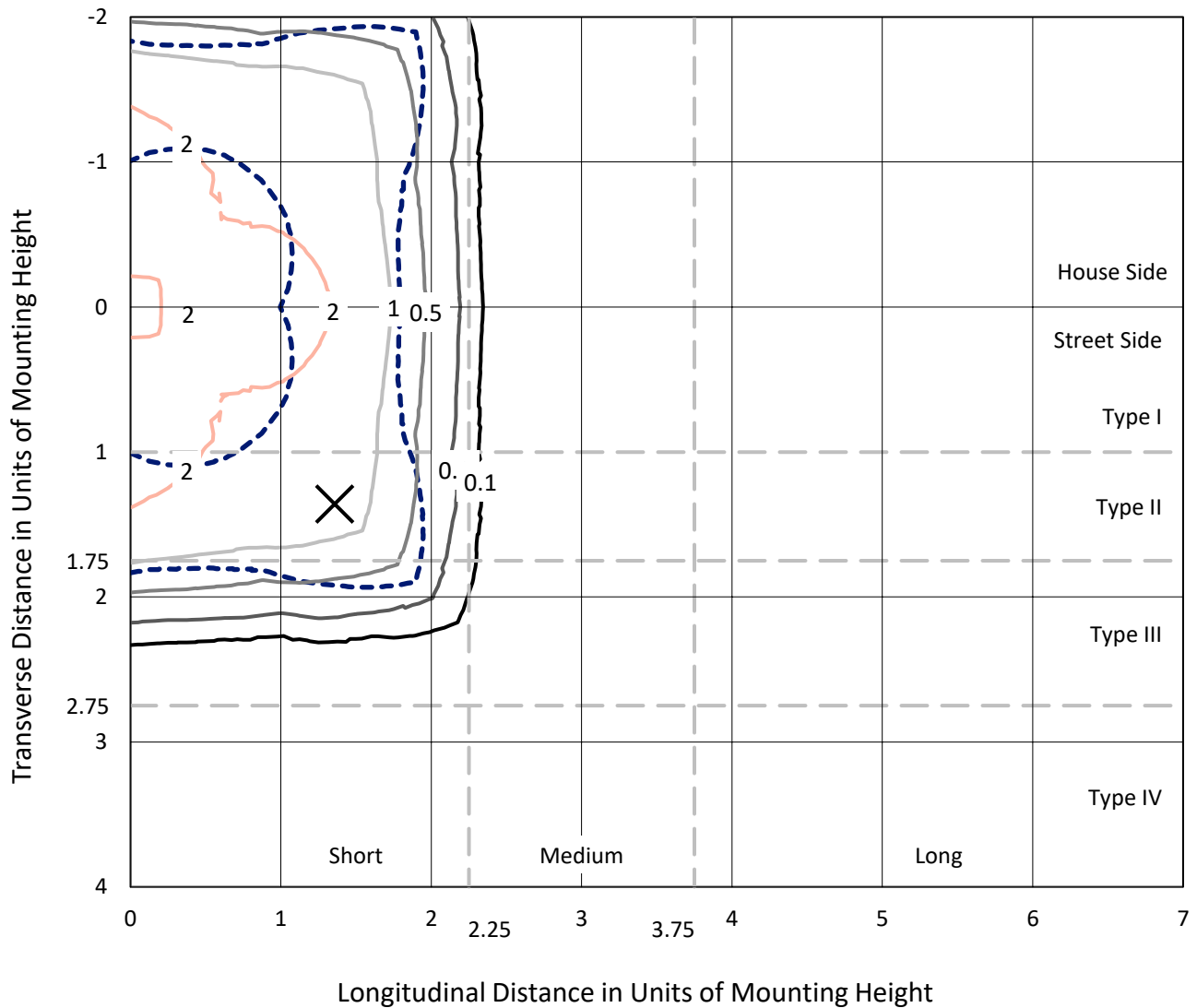
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

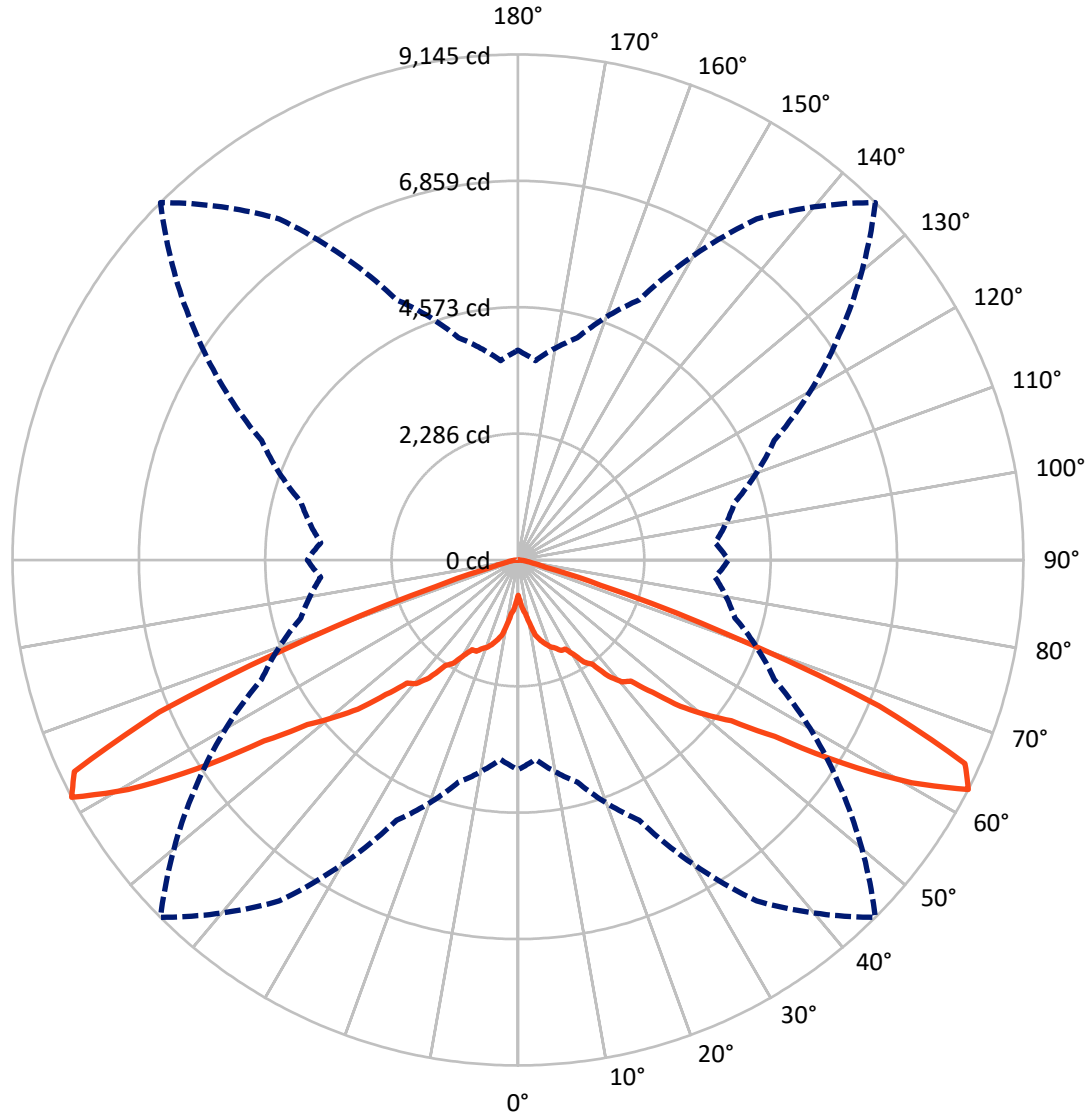
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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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	7790.0	0.0	7790.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7790.0	0.0	7790.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15580.0	0.0	15580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	0.6
10°-20°	423.3	2.7
20°-30°	887.3	5.7
30°-40°	1671.7	10.7
40°-50°	3034.1	19.5
50°-60°	5126.6	32.9
60°-70°	3832.4	24.6
70°-80°	428.7	2.8
80°-90°	79.8	0.5
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°	15580.0	100.0
0°-180°	15580.0	100.0

Coefficient of Utilization



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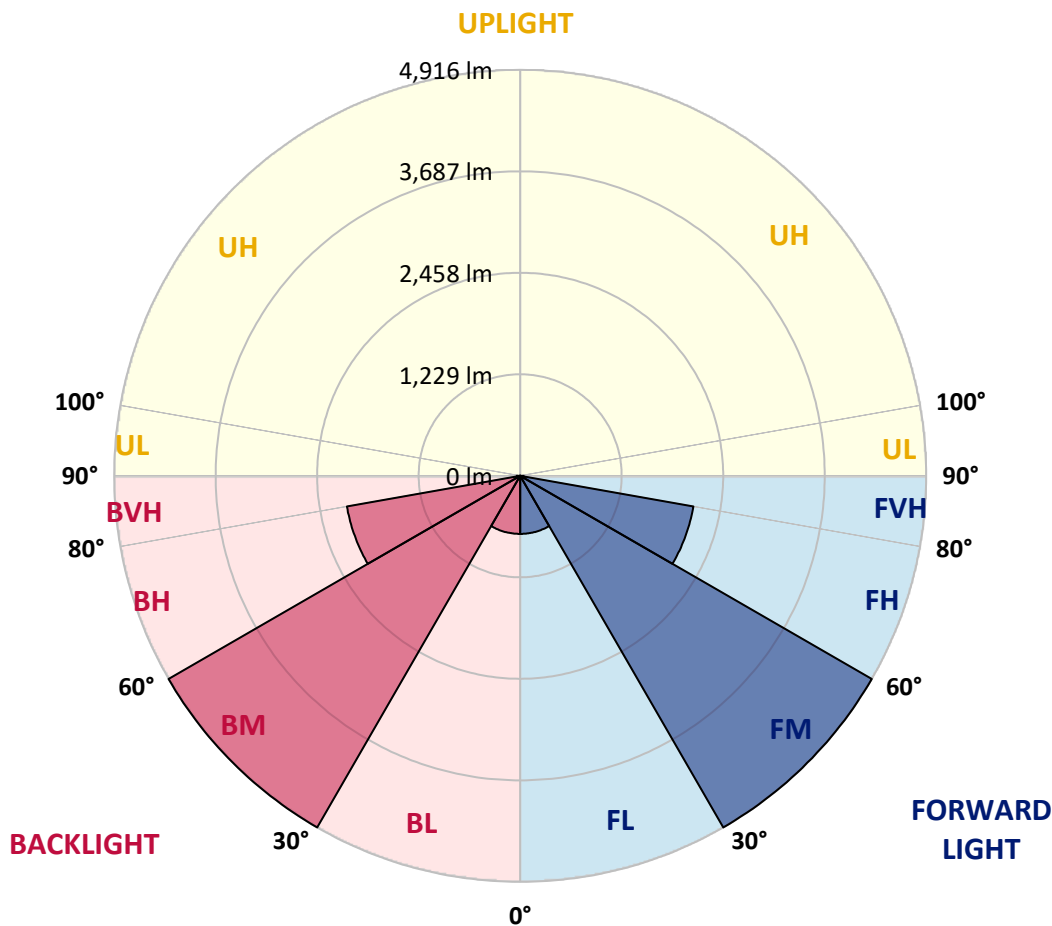
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	703.3	4.5			
FM (30°-60°)	4916.2	31.6			
FH (60°-80°)	2130.6	13.7			G2/5000
FVH (80°-90°)	39.9	0.3			G1/100
BL (0°-30°)	703.3	4.5	B2/1000		
BM (30°-60°)	4916.2	31.6	B3/5000		
BH (60°-80°)	2130.6	13.7	B3/2500		G2/5000
BVH (80°-90°)	39.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
2.5°	774.6	760.6	711.8	728.9	746.7	744.1	739.7	726.4	714.4	764.4	774.6
5°	987.5	955.9	938.7	924.8	921.6	887.4	934.3	929.2	945.1	971.7	997.7
7.5°	1157.4	1127.6	1082.6	1073.1	1021.8	983.7	1024.3	1074.4	1090.2	1139.0	1168.2
10°	1219.5	1193.5	1201.8	1159.3	1156.8	1167.6	1158.7	1170.1	1211.9	1206.2	1227.8
12.5°	1359.0	1363.4	1336.8	1326.0	1347.6	1394.5	1354.5	1340.6	1330.5	1373.6	1386.9
15°	1489.6	1515.5	1471.8	1464.8	1456.0	1499.7	1456.6	1477.5	1495.9	1504.8	1499.7
17.5°	1674.6	1675.9	1627.1	1549.1	1578.3	1592.2	1573.2	1537.1	1623.9	1667.7	1670.2
20°	1796.3	1800.8	1704.4	1582.7	1665.1	1677.8	1668.3	1592.9	1708.2	1781.1	1778.0
22.5°	1927.6	1912.3	1781.8	1693.0	1722.2	1729.8	1709.5	1700.0	1781.1	1913.6	1894.0
25°	2015.7	2043.5	1913.6	1856.6	1831.8	1814.1	1840.1	1845.2	1928.2	2048.6	1982.1
27.5°	2226.1	2177.9	1974.5	1996.0	1943.4	1823.6	1937.7	2000.4	1982.7	2188.1	2238.1
30°	2413.1	2414.4	2129.1	2170.3	2072.7	1975.7	2099.3	2190.0	2167.8	2430.8	2383.3
32.5°	2652.1	2660.9	2396.0	2285.7	2219.8	2201.4	2186.2	2286.3	2424.5	2637.5	2641.9
35°	2910.0	2986.1	2626.1	2510.1	2397.9	2316.7	2404.2	2543.0	2633.0	2973.4	2913.2
37.5°	3412.7	3284.6	2989.9	2771.8	2700.2	2667.9	2714.2	2794.7	2989.3	3282.7	3386.1
40°	3710.0	3674.5	3273.2	3090.7	2814.3	2900.5	2875.2	3095.7	3256.7	3694.7	3704.3
42.5°	4164.4	3985.7	3625.0	3393.0	3144.6	2995.0	3153.4	3449.4	3644.0	4014.2	4189.2
45°	4523.8	4294.4	4016.1	3839.9	3526.1	3415.2	3472.3	3851.3	4095.3	4349.5	4579.6
47.5°	4921.3	4672.8	4394.5	4081.4	3775.2	3955.9	3855.1	4188.5	4426.8	4791.3	5006.8
50°	5420.7	5145.6	4789.4	4530.8	4328.0	4391.4	4375.5	4613.2	4907.3	5239.4	5484.1
52.5°	5970.9	5659.7	5316.1	5075.9	4990.3	4833.1	5038.5	5136.1	5352.9	5657.2	5944.3
55°	6355.7	6044.4	5836.5	5913.9	5891.1	5638.8	5818.8	5828.9	5724.3	5834.0	6123.0
57.5°	6296.1	5998.8	5970.3	6262.5	6699.2	6943.3	6665.0	6066.6	5674.9	5623.6	5929.7
60°	5505.0	5250.9	5512.0	6171.2	7443.4	8186.2	7115.0	5887.2	5242.0	4975.1	5270.5
62.5°	3793.6	3621.8	4163.2	5193.8	7532.7	9145.3	7098.5	5115.8	4065.5	3581.3	3810.7
65°	1798.2	1736.1	2193.1	3292.9	6274.5	8889.2	6201.6	3461.5	2340.2	1869.2	1921.2
67.5°	676.3	645.3	805.0	1454.7	3952.1	7050.4	4168.9	1707.6	905.1	703.6	727.7
70°	384.1	361.9	382.8	530.5	1591.0	3993.3	1798.2	585.7	384.8	350.5	373.3
72.5°	302.3	285.2	288.4	320.7	548.9	1567.5	581.9	334.0	279.5	265.6	285.9
75°	249.7	234.5	233.9	251.6	320.1	509.0	329.0	255.4	226.3	216.1	232.6
77.5°	198.4	189.5	192.1	206.0	229.5	284.6	238.3	206.6	185.7	173.7	185.1
80°	145.2	143.9	154.0	166.7	171.1	191.4	178.7	166.7	148.3	131.2	135.6
82.5°	95.1	95.7	114.7	124.9	123.0	122.3	128.0	127.4	110.9	86.8	86.8
85°	54.5	55.8	70.4	78.6	77.3	61.5	81.1	81.8	71.0	52.6	50.7
87.5°	17.7	22.2	30.4	32.3	31.1	17.1	31.1	34.2	31.1	22.2	19.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)