

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: P368074

Luminaire Tested: **MSA-SA3D-730-U-5NQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368074
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-SA3D-730-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: 18549 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

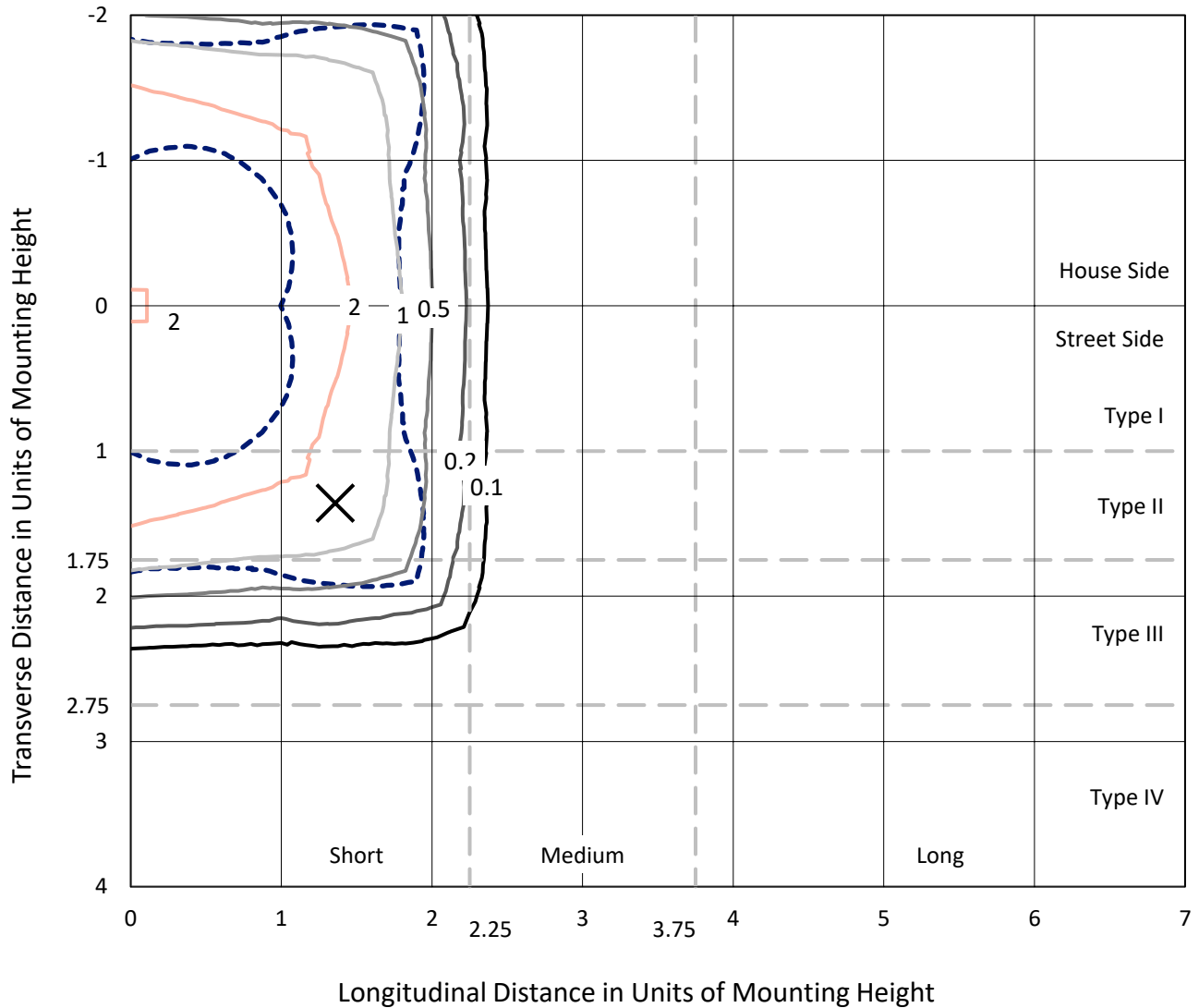
Input Watts (W): 192
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

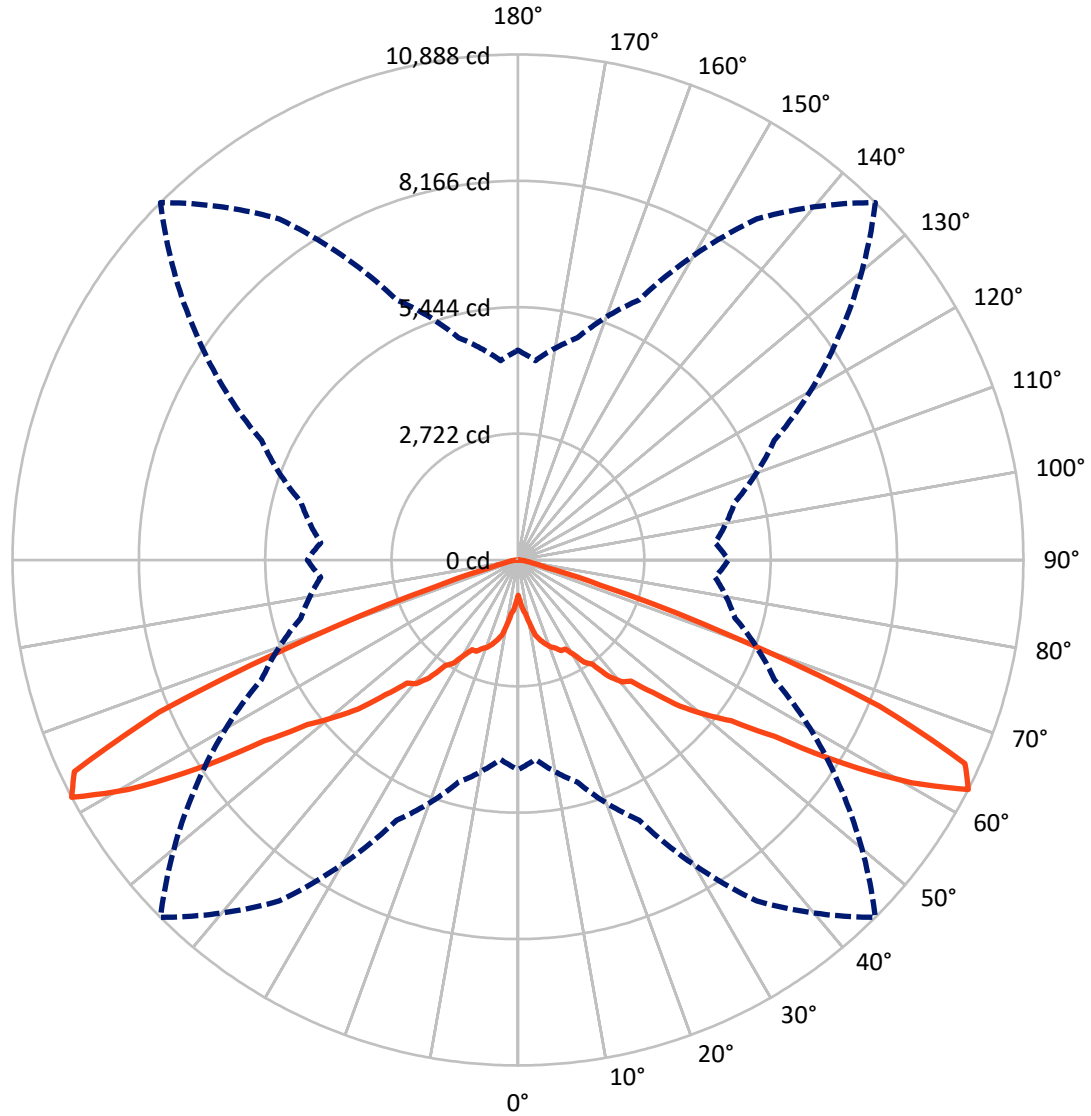
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	9274.5	0.0	9274.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9274.5	0.0	9274.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18549.0	0.0	18549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	0.6
10°-20°	504.0	2.7
20°-30°	1056.3	5.7
30°-40°	1990.3	10.7
40°-50°	3612.3	19.5
50°-60°	6103.6	32.9
60°-70°	4562.8	24.6
70°-80°	510.5	2.8
80°-90°	95.0	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°	18549.0	100.0
0°-180°	18549.0	100.0

Coefficient of Utilization



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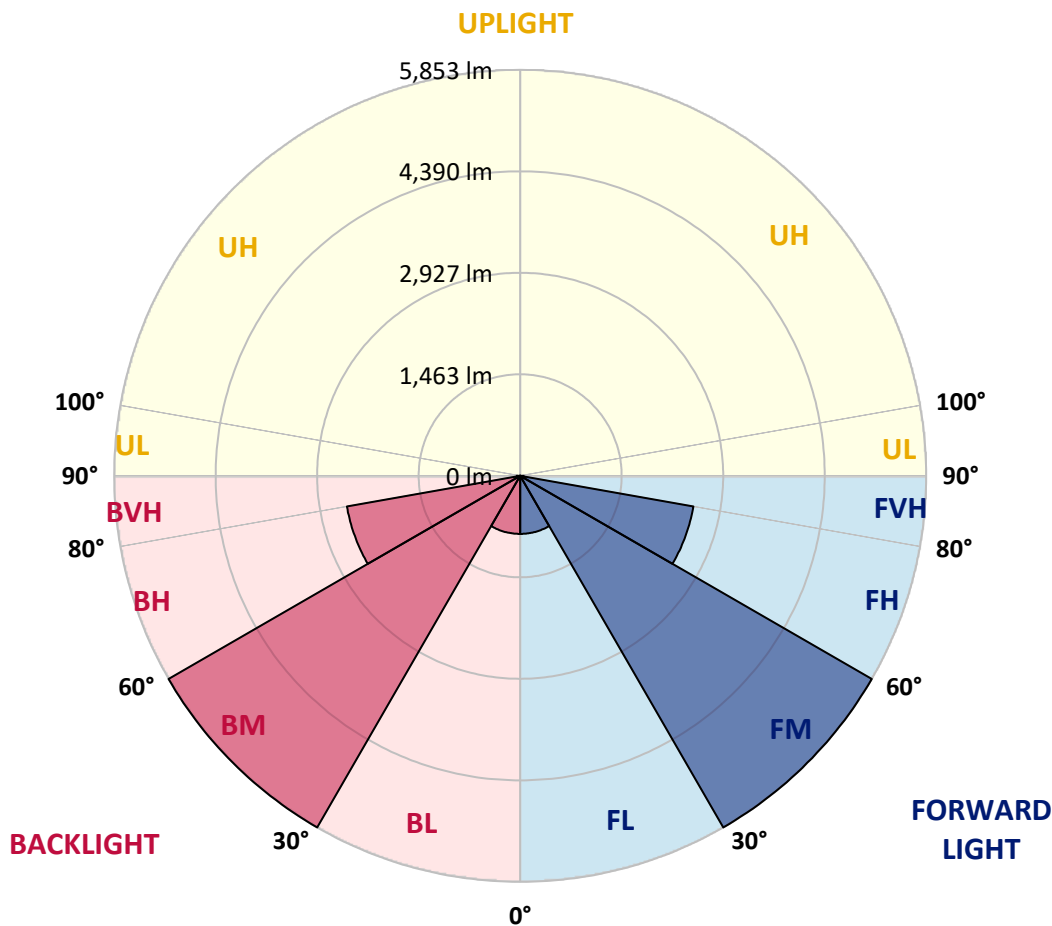
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.3	4.5			
FM (30°-60°)	5853.1	31.6			
FH (60°-80°)	2536.6	13.7			G2/5000
FVH (80°-90°)	47.5	0.3			G1/100
BL (0°-30°)	837.3	4.5	B2/1000		
BM (30°-60°)	5853.1	31.6	B4/8500		
BH (60°-80°)	2536.6	13.7	B4/5000		G2/5000
BVH (80°-90°)	47.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	758.4	758.4	758.4	758.4	758.4	758.4	758.4	758.4	758.4	758.4	758.4
2.5°	922.2	905.6	847.5	867.8	889.0	886.0	880.7	864.8	850.5	910.1	922.2
5°	1175.7	1138.0	1117.6	1101.0	1097.3	1056.5	1112.3	1106.3	1125.2	1156.9	1187.8
7.5°	1378.0	1342.5	1288.9	1277.6	1216.5	1171.2	1219.5	1279.1	1298.0	1356.1	1390.8
10°	1451.9	1421.0	1430.8	1380.2	1377.2	1390.1	1379.5	1393.1	1442.9	1436.1	1461.7
12.5°	1618.0	1623.2	1591.5	1578.7	1604.4	1660.2	1612.7	1596.1	1584.0	1635.3	1651.2
15°	1773.4	1804.4	1752.3	1744.0	1733.4	1785.5	1734.2	1759.1	1781.0	1791.5	1785.5
17.5°	1993.8	1995.3	1937.2	1844.4	1879.1	1895.7	1873.0	1830.0	1933.4	1985.5	1988.5
20°	2138.7	2143.9	2029.2	1884.4	1982.5	1997.5	1986.2	1896.4	2033.8	2120.6	2116.8
22.5°	2294.9	2276.8	2121.3	2015.7	2050.4	2059.4	2035.3	2024.0	2120.6	2278.3	2254.9
25°	2399.8	2433.0	2278.3	2210.4	2180.9	2159.8	2190.7	2196.8	2295.6	2439.0	2359.8
27.5°	2650.3	2593.0	2350.7	2376.4	2313.7	2171.1	2307.0	2381.7	2360.5	2605.0	2664.7
30°	2872.9	2874.4	2534.9	2583.9	2467.7	2352.2	2499.4	2607.3	2580.9	2894.1	2837.5
32.5°	3157.4	3168.0	2852.6	2721.3	2642.8	2620.9	2602.8	2722.0	2886.5	3140.1	3145.4
35°	3464.6	3555.1	3126.5	2988.4	2854.8	2758.2	2862.4	3027.6	3134.8	3540.0	3468.4
37.5°	4063.0	3910.6	3559.7	3300.1	3214.8	3176.3	3231.4	3327.2	3558.9	3908.3	4031.3
40°	4416.9	4374.7	3897.0	3679.7	3350.6	3453.3	3423.1	3685.7	3877.4	4398.8	4410.2
42.5°	4958.0	4745.2	4315.8	4039.6	3743.8	3565.7	3754.4	4106.8	4338.5	4779.2	4987.5
45°	5385.9	5112.7	4781.4	4571.6	4198.1	4066.0	4134.0	4585.2	4875.8	5178.4	5452.3
47.5°	5859.1	5563.2	5232.0	4859.2	4494.7	4709.7	4589.8	4986.7	5270.4	5704.4	5960.9
50°	6453.7	6126.2	5702.1	5394.2	5152.7	5228.2	5209.3	5492.3	5842.5	6237.9	6529.2
52.5°	7108.8	6738.2	6329.2	6043.2	5941.3	5754.2	5998.7	6114.9	6373.0	6735.2	7077.1
55°	7566.8	7196.3	6948.8	7040.8	7013.7	6713.3	6927.6	6939.7	6815.2	6945.8	7289.9
57.5°	7495.9	7142.0	7108.0	7455.9	7975.9	8266.4	7935.1	7222.7	6756.3	6695.2	7059.7
60°	6554.1	6251.5	6562.4	7347.2	8861.8	9746.3	8470.9	7009.2	6240.9	5923.2	6274.9
62.5°	4516.6	4312.0	4956.5	6183.6	8968.2	10888.0	8451.3	6090.7	4840.3	4263.7	4536.9
65°	2140.9	2067.0	2611.1	3920.4	7470.2	10583.2	7383.5	4121.1	2786.2	2225.5	2287.3
67.5°	805.2	768.2	958.4	1731.9	4705.2	8393.9	4963.3	2033.0	1077.6	837.7	866.3
70°	457.3	430.9	455.8	631.6	1894.2	4754.3	2140.9	697.3	458.1	417.3	444.5
72.5°	360.0	339.6	343.4	381.9	653.5	1866.2	692.8	397.7	332.8	316.2	340.3
75°	297.3	279.2	278.5	299.6	381.1	606.0	391.7	304.1	269.4	257.3	277.0
77.5°	236.2	225.6	228.7	245.3	273.2	338.8	283.7	246.0	221.1	206.8	220.4
80°	172.8	171.3	183.4	198.5	203.8	227.9	212.8	198.5	176.6	156.2	161.5
82.5°	113.2	114.0	136.6	148.7	146.4	145.6	152.4	151.7	132.1	103.4	103.4
85°	64.9	66.4	83.8	93.6	92.1	73.2	96.6	97.3	84.5	62.6	60.4
87.5°	21.1	26.4	36.2	38.5	37.0	20.4	37.0	40.8	37.0	26.4	23.4
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)