

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: P368447

Luminaire Tested: **MSA-SA4C-727-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-6)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA4C-727-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21674 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

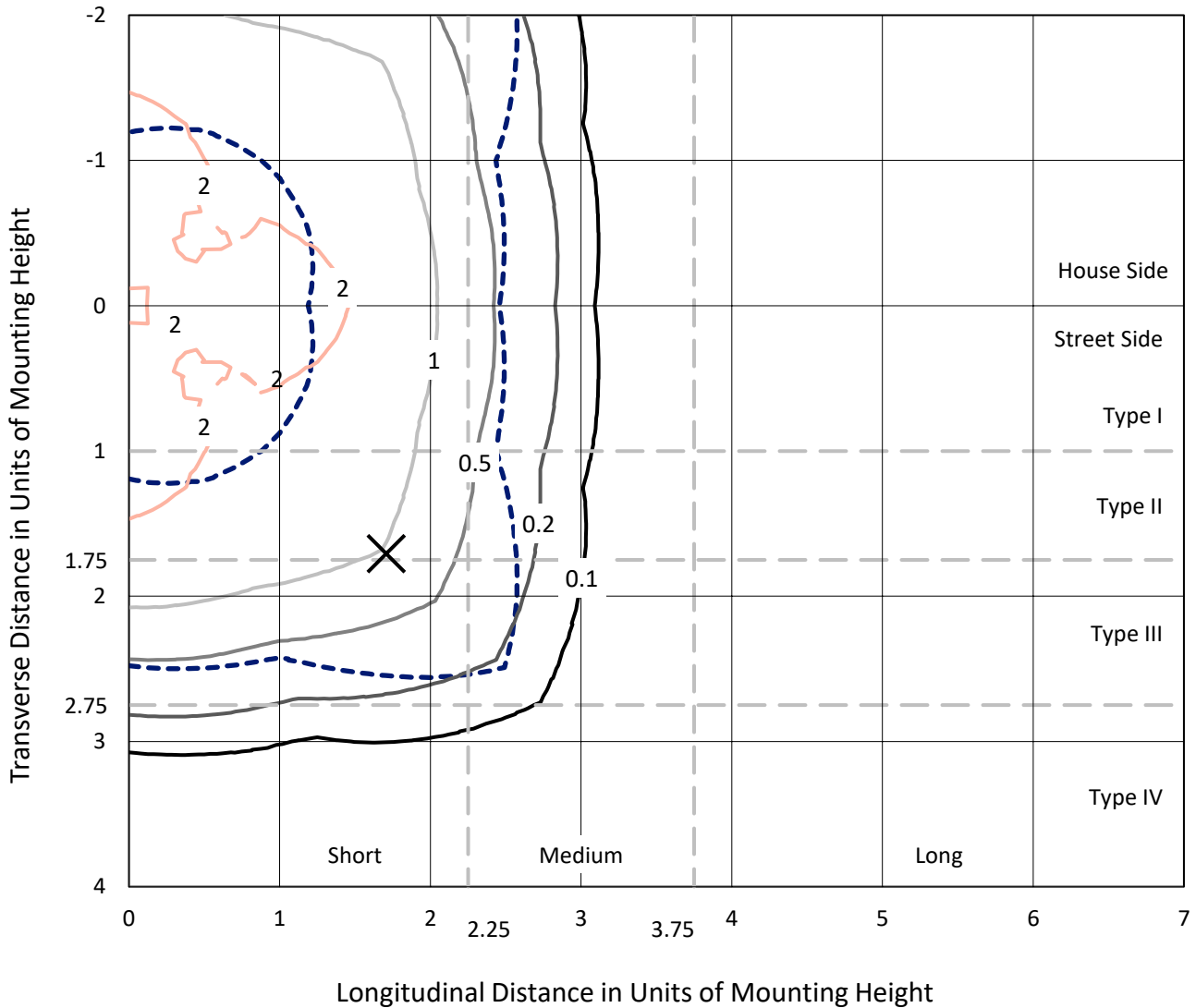
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P368447
 CATALOG NUMBER: MSA-SA4C-727-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

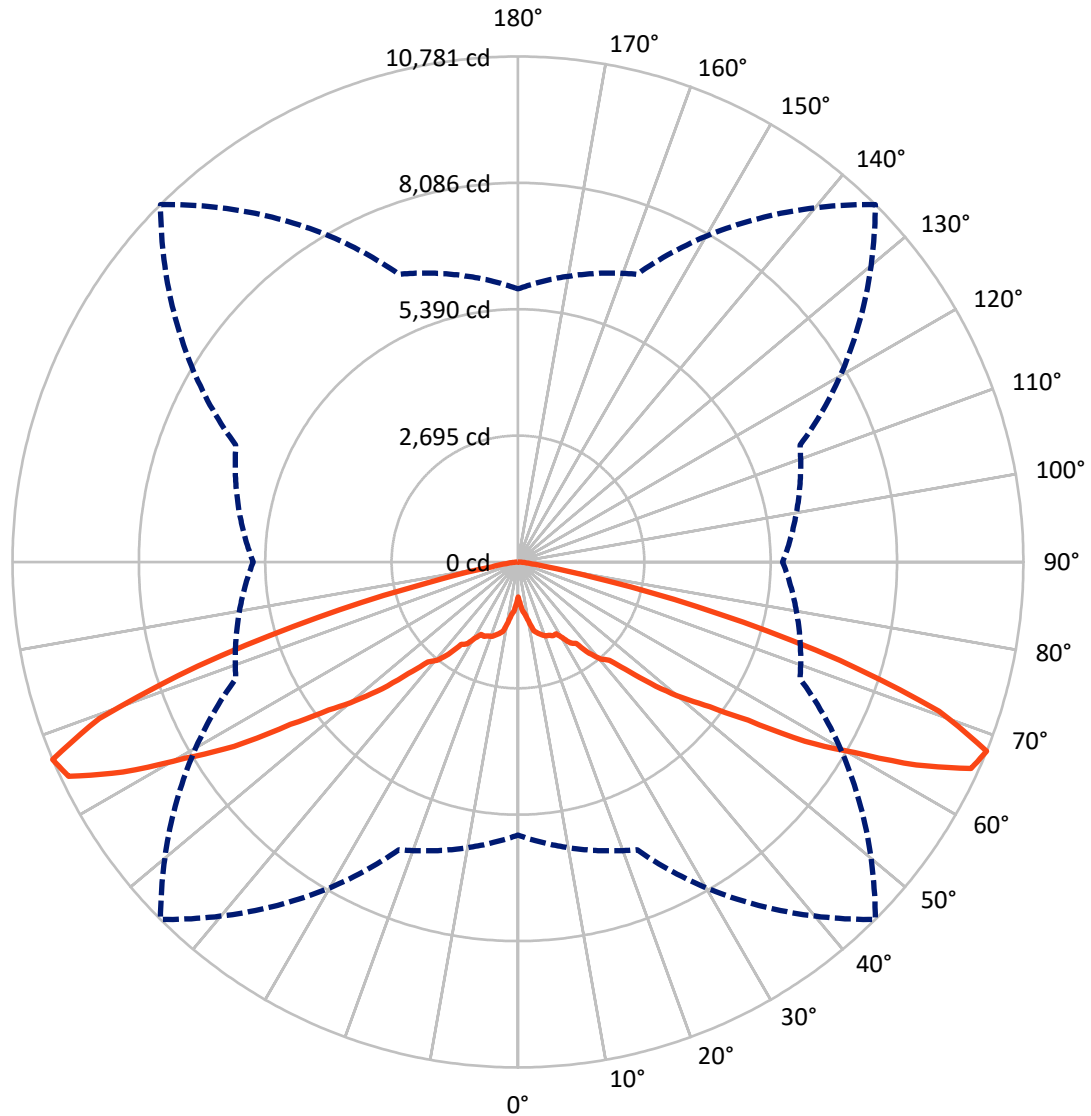
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

REPORT NUMBER: P368447
CATALOG NUMBER: MSA-SA4C-727-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P368447
 CATALOG NUMBER: MSA-SA4C-727-U-5MQ

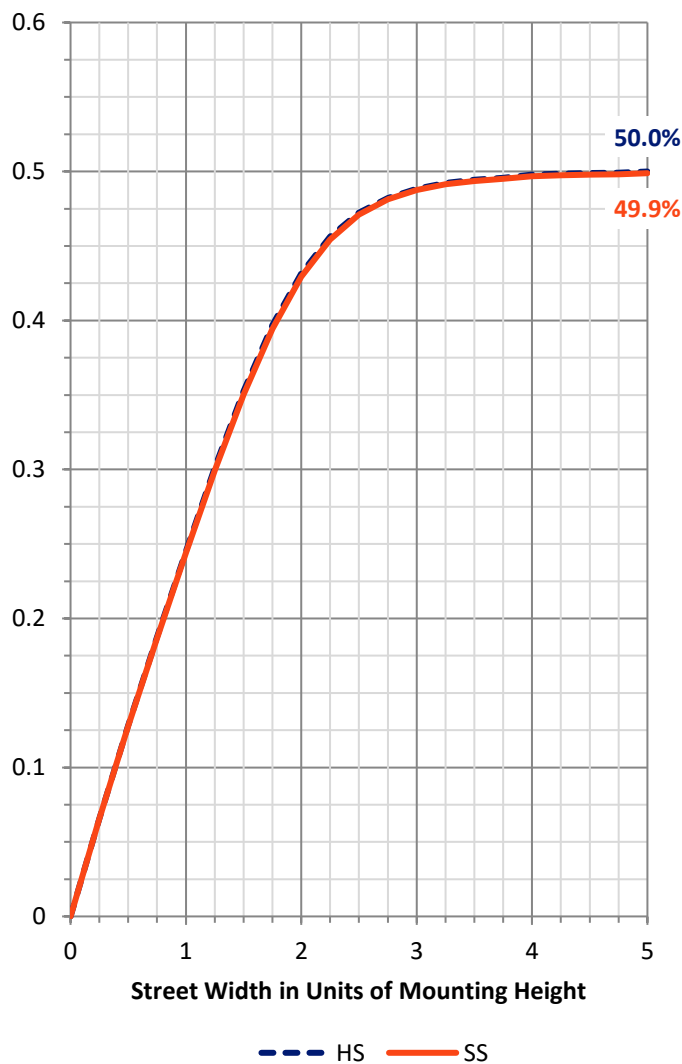
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10837.0	0.0	10837.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10837.0	0.0	10837.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21674.0	0.0	21674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	0.5
10°-20°	437.9	2.0
20°-30°	835.5	3.9
30°-40°	1527.6	7.0
40°-50°	2962.0	13.7
50°-60°	5656.4	26.1
60°-70°	7642.4	35.3
70°-80°	2373.5	11.0
80°-90°	127.9	0.6
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°	21674.0	100.0
0°-180°	21674.0	100.0

Coefficient of Utilization



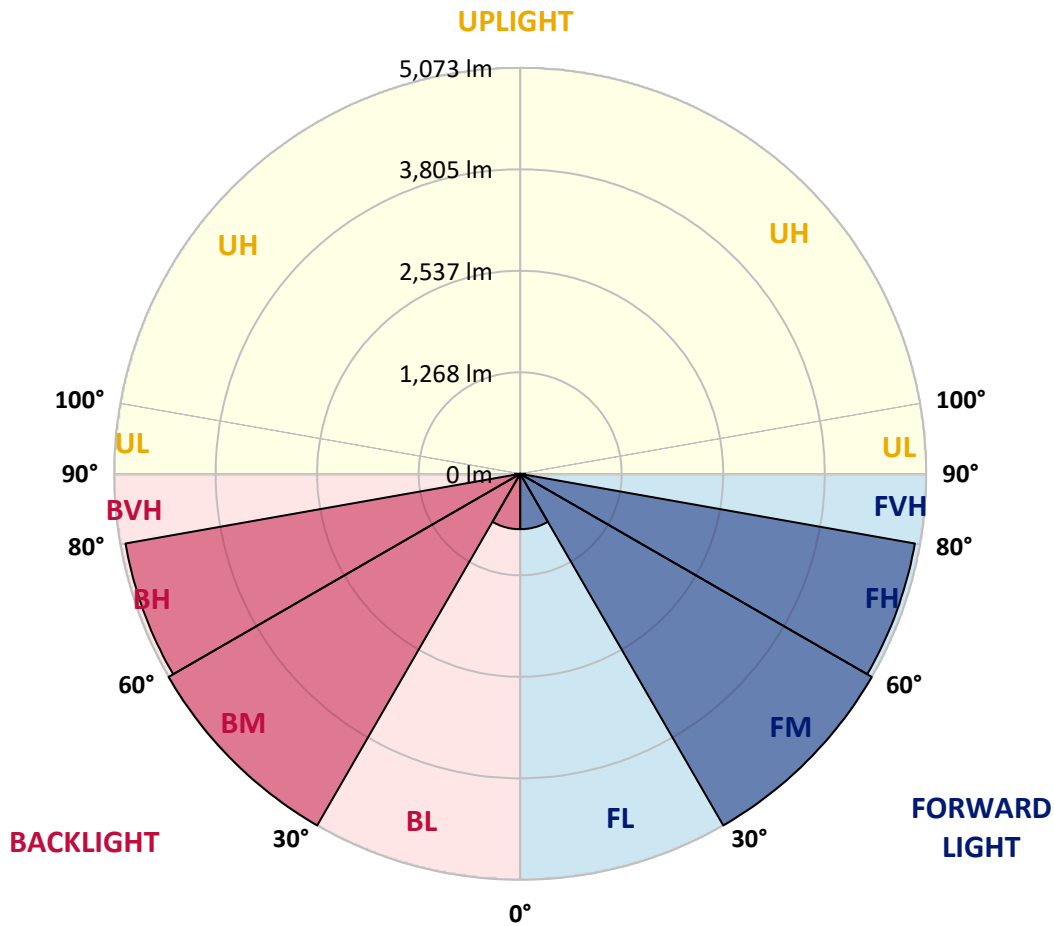
REPORT NUMBER: P368447
 CATALOG NUMBER: MSA-SA4C-727-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.1	3.2			
FM (30°-60°)	5073.0	23.4			
FH (60°-80°)	5007.9	23.1			G3/7500
FVH (80°-90°)	63.9	0.3			G1/100
BL (0°-30°)	692.1	3.2	B2/1000		
BM (30°-60°)	5073.0	23.4	B4/8500		
BH (60°-80°)	5007.9	23.1	B5		G3/7500
BVH (80°-90°)	63.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P368447

CATALOG NUMBER: MSA-SA4C-727-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.7	742.7	742.7	742.7	742.7
2.5°	914.4	855.8	882.5	855.8	914.4
5°	1162.2	1101.1	1047.5	1086.0	1165.6
7.5°	1335.5	1244.3	1131.2	1234.2	1328.0
10°	1364.9	1313.8	1308.8	1307.9	1361.5
12.5°	1474.5	1440.2	1508.9	1443.6	1477.9
15°	1560.0	1540.7	1571.7	1565.0	1563.3
17.5°	1692.3	1561.6	1632.0	1554.1	1688.1
20°	1750.9	1565.8	1683.9	1556.6	1750.0
22.5°	1822.9	1664.6	1699.8	1668.8	1816.2
25°	1863.9	1728.3	1740.8	1729.9	1864.7
27.5°	2032.2	1868.9	1735.0	1891.5	2063.2
30°	2160.3	1960.2	1872.3	1962.7	2176.2
32.5°	2345.4	2096.7	2062.4	2130.2	2374.7
35°	2574.8	2326.1	2133.5	2326.9	2623.4
37.5°	3024.4	2534.6	2466.8	2608.3	3057.9
40°	3341.8	2863.7	2718.8	2916.4	3396.2
42.5°	3829.1	3232.9	2865.4	3259.7	3912.9
45°	4283.0	3680.9	3332.6	3711.9	4344.1
47.5°	4762.8	4092.0	3961.4	4130.6	4808.0
50°	5329.6	4648.9	4557.6	4692.4	5348.9
52.5°	5998.7	5394.1	5124.5	5419.2	6005.4
55°	6793.3	6019.6	5959.3	6088.2	6803.3
57.5°	7570.3	6830.1	7217.0	6837.7	7435.5
60°	8124.6	7577.0	8251.1	7384.4	7825.7
62.5°	8159.8	8130.5	9538.9	7803.9	7742.0
65°	7399.5	7906.9	10617.4	7651.5	7027.7
67.5°	5824.5	6642.6	10780.7	6513.6	5646.1
70°	3660.0	4599.5	9530.5	4776.1	3763.8
72.5°	1688.1	2478.5	7176.8	2790.0	1784.4
75°	604.6	948.7	4427.8	1019.0	632.2
77.5°	343.3	384.3	1956.8	386.0	355.0
80°	221.1	239.5	565.2	252.9	215.2
82.5°	125.6	167.5	247.9	177.5	115.6
85°	67.8	106.3	109.7	108.9	67.8
87.5°	24.3	41.9	24.3	47.7	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)