

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: P596805

Luminaire Tested: **MSA-SA4D-827-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA4D-827-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: 20830 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

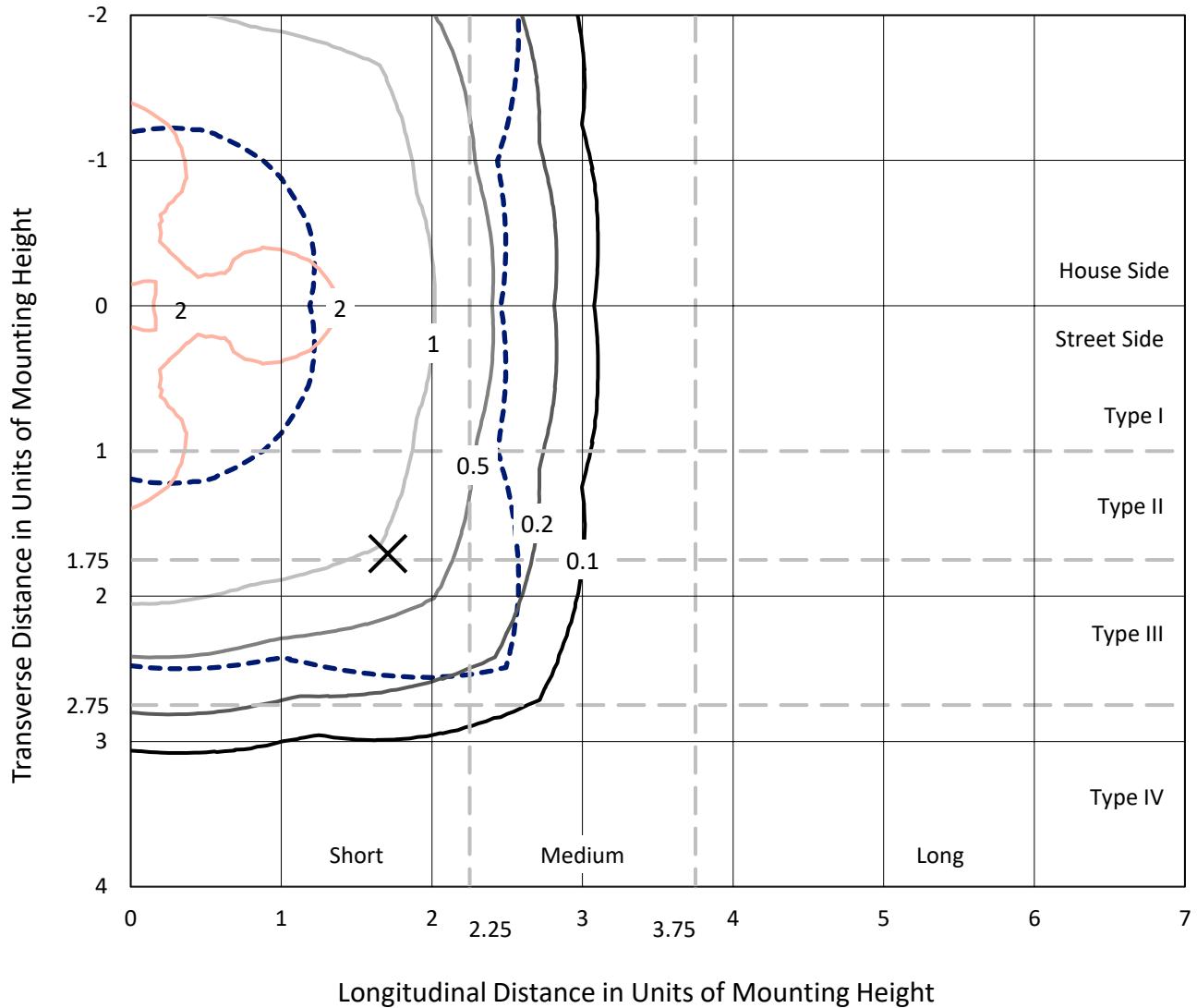
Input Watts (W): 259
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P596805
 CATALOG NUMBER: MSA-SA4D-827-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

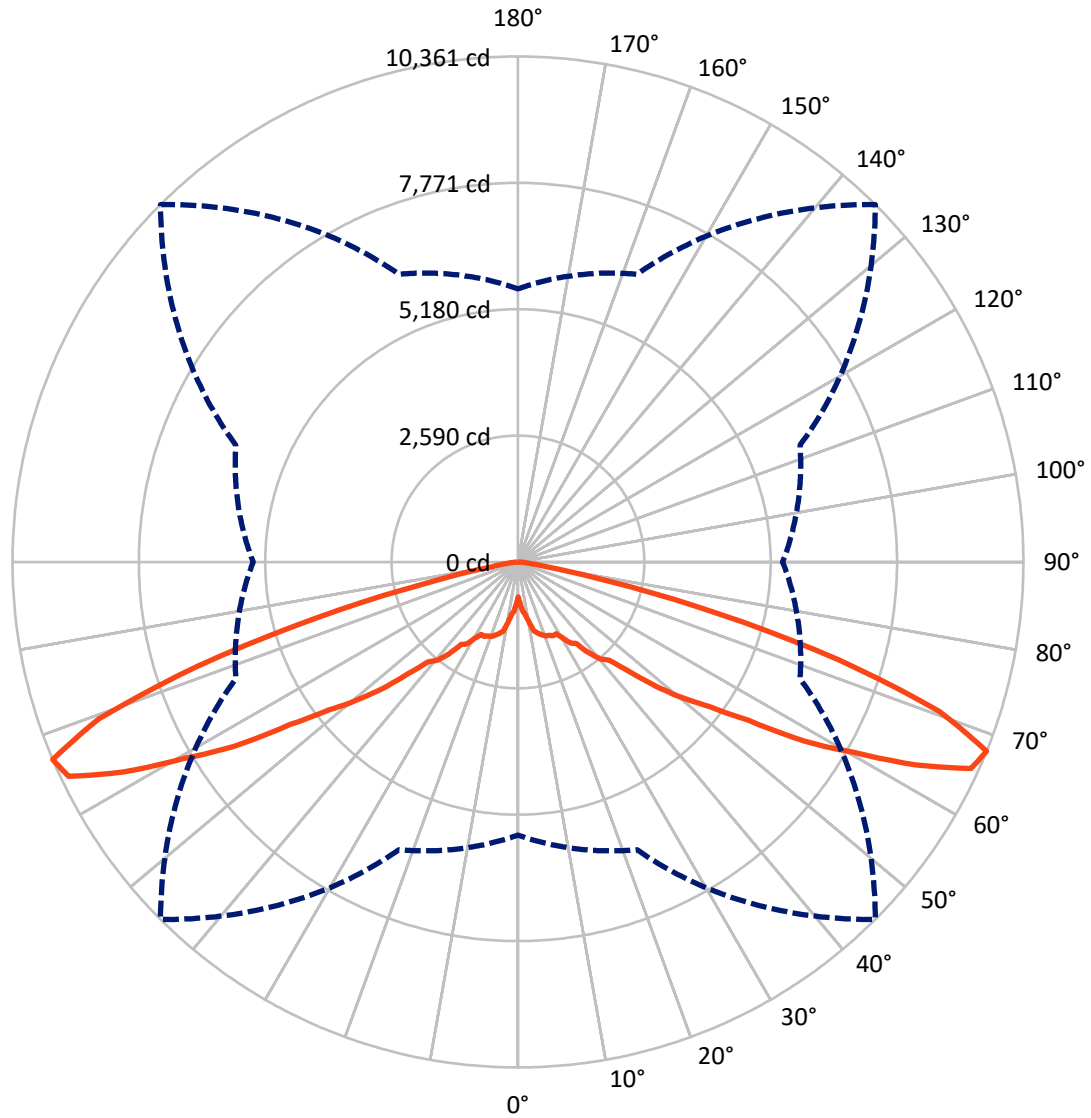
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

REPORT NUMBER: P596805
CATALOG NUMBER: MSA-SA4D-827-U-5MQ

Luminous Intensity Polar Plot



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

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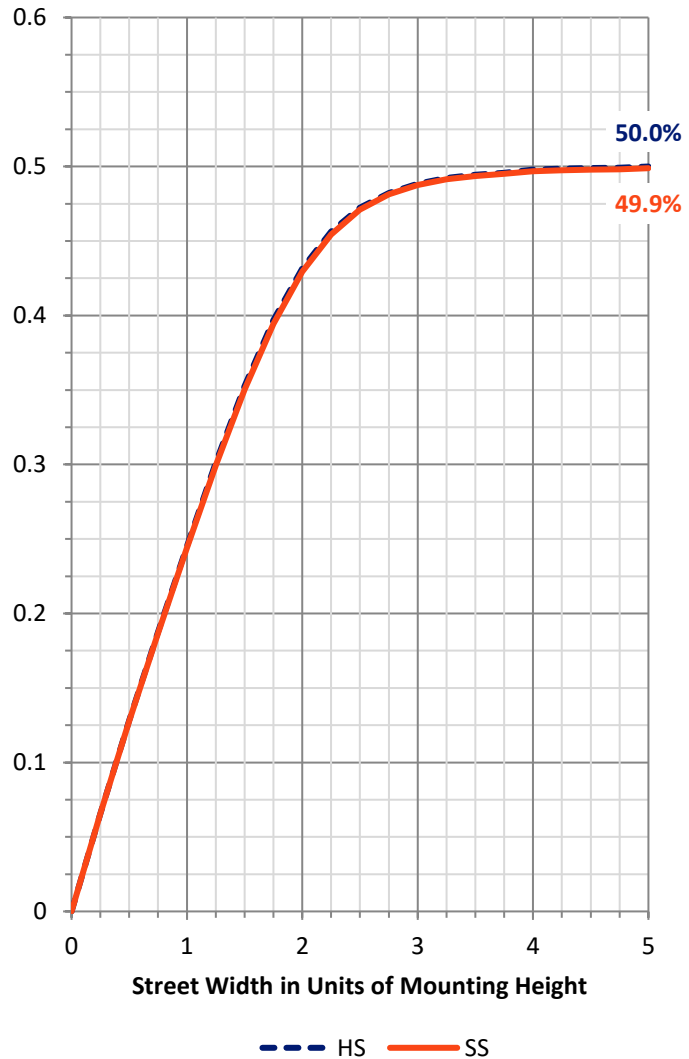
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10415.0	0.0	10415.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10415.0	0.0	10415.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20830.0	0.0	20830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	0.5
10°-20°	420.9	2.0
20°-30°	803.0	3.9
30°-40°	1468.1	7.0
40°-50°	2846.7	13.7
50°-60°	5436.1	26.1
60°-70°	7344.8	35.3
70°-80°	2281.1	11.0
80°-90°	122.9	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°	20830.0	100.0
0°-180°	20830.0	100.0

Coefficient of Utilization



REPORT NUMBER: P596805

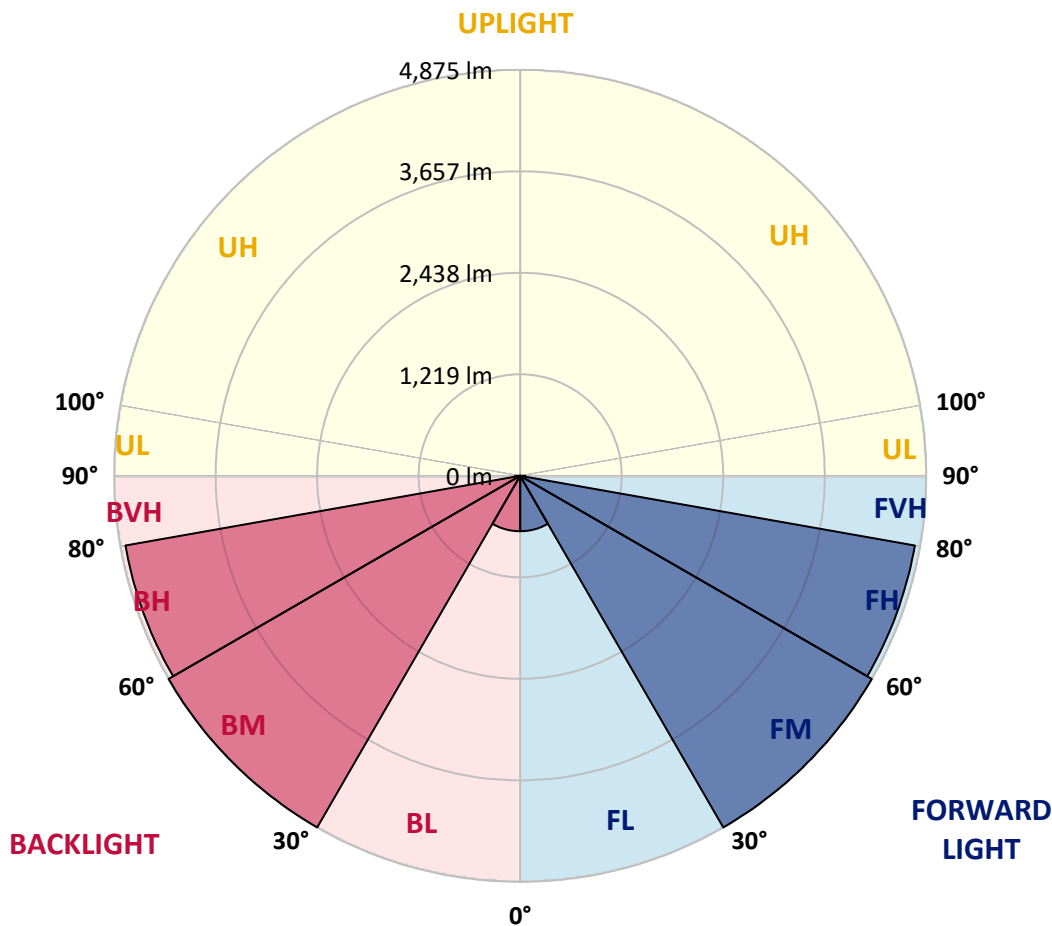
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	665.2	3.2			
FM (30°-60°)	4875.5	23.4			
FH (60°-80°)	4812.9	23.1			G2/5000
FVH (80°-90°)	61.4	0.3			G1/100
BL (0°-30°)	665.2	3.2	B2/1000		
BM (30°-60°)	4875.5	23.4	B3/5000		
BH (60°-80°)	4812.9	23.1	B4/5000		G2/5000
BVH (80°-90°)	61.4	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°	22.5°	45°	67.5°	90°
0°	713.8	713.8	713.8	713.8	713.8
2.5°	878.8	822.4	848.2	822.4	878.8
5°	1117.0	1058.2	1006.7	1043.7	1120.2
7.5°	1283.5	1195.8	1087.2	1186.2	1276.3
10°	1311.7	1262.6	1257.8	1257.0	1308.5
12.5°	1417.1	1384.1	1450.1	1387.3	1420.3
15°	1499.2	1480.7	1510.5	1504.0	1502.4
17.5°	1626.4	1500.8	1568.4	1493.6	1622.3
20°	1682.7	1504.8	1618.3	1496.0	1681.9
22.5°	1751.9	1599.8	1633.6	1603.8	1745.5
25°	1791.3	1661.0	1673.0	1662.6	1792.1
27.5°	1953.1	1796.2	1667.4	1817.9	1982.8
30°	2076.2	1883.9	1799.4	1886.3	2091.5
32.5°	2254.0	2015.0	1982.0	2047.2	2282.2
35°	2474.5	2235.5	2050.4	2236.3	2521.2
37.5°	2906.7	2435.9	2370.7	2506.7	2938.9
40°	3211.7	2752.2	2612.9	2802.9	3264.0
42.5°	3680.0	3107.1	2753.8	3132.8	3760.5
45°	4116.2	3537.6	3202.8	3567.4	4174.9
47.5°	4577.3	3932.7	3807.2	3969.7	4620.7
50°	5122.1	4467.8	4380.1	4509.7	5140.6
52.5°	5765.1	5184.1	4924.9	5208.2	5771.5
55°	6528.7	5785.2	5727.2	5851.2	6538.4
57.5°	7275.5	6564.2	6935.9	6571.4	7146.0
60°	7808.3	7282.0	7929.8	7096.9	7521.0
62.5°	7842.1	7813.9	9167.4	7500.1	7440.5
65°	7111.4	7599.0	10203.9	7353.6	6754.1
67.5°	5597.7	6383.9	10360.9	6260.0	5426.3
70°	3517.5	4420.4	9159.4	4590.2	3617.2
72.5°	1622.3	2382.0	6897.3	2681.3	1714.9
75°	581.0	911.8	4255.4	979.4	607.6
77.5°	329.9	369.4	1880.6	371.0	341.2
80°	212.4	230.2	543.2	243.0	206.8
82.5°	120.7	160.9	238.2	170.6	111.1
85°	65.2	102.2	105.4	104.6	65.2
87.5°	23.3	40.2	23.3	45.9	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)