

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: McGRAW-EDISON

Report Number: P648519

Luminaire Tested: **GALN-SA7B-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27391.7 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

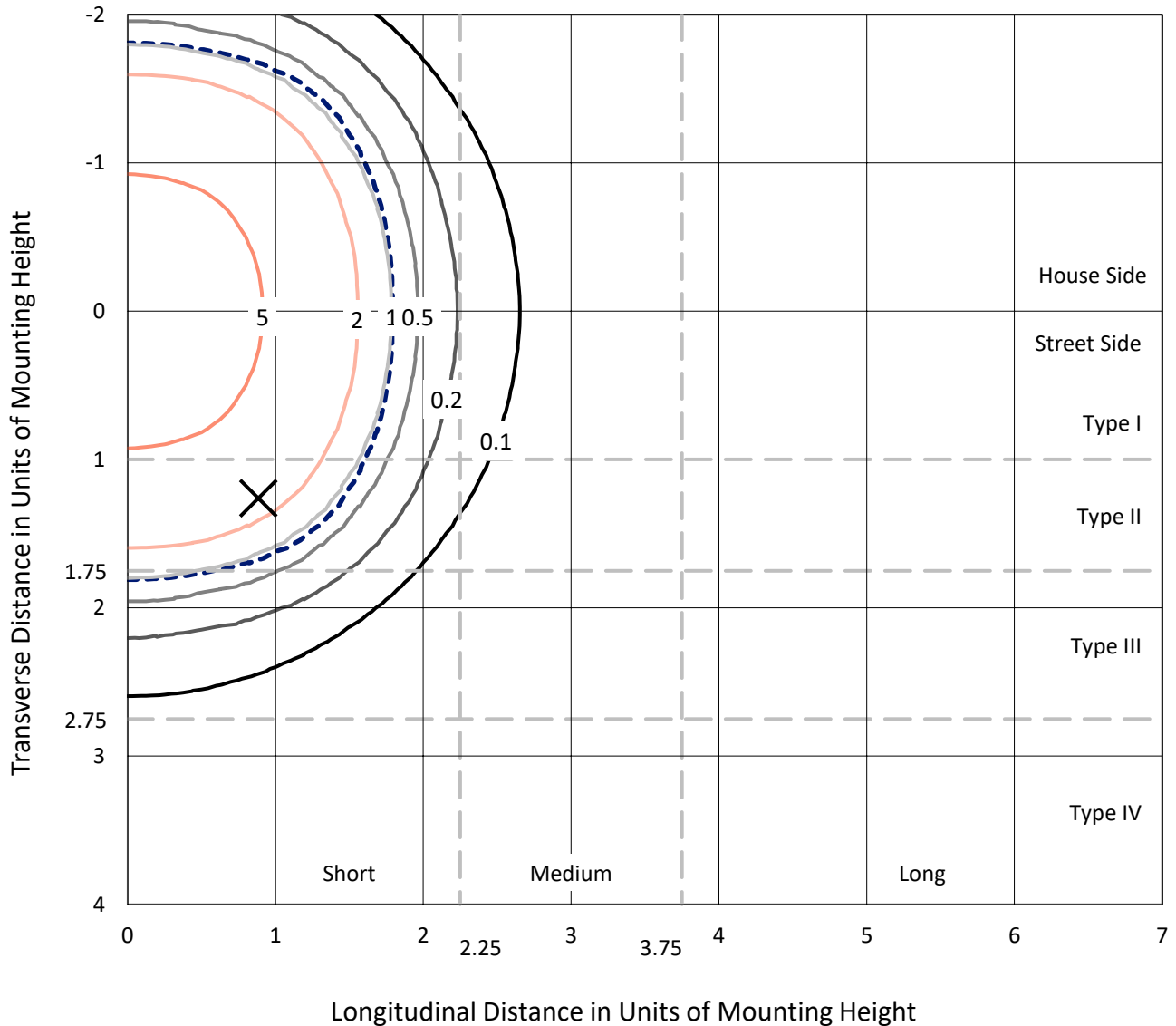
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

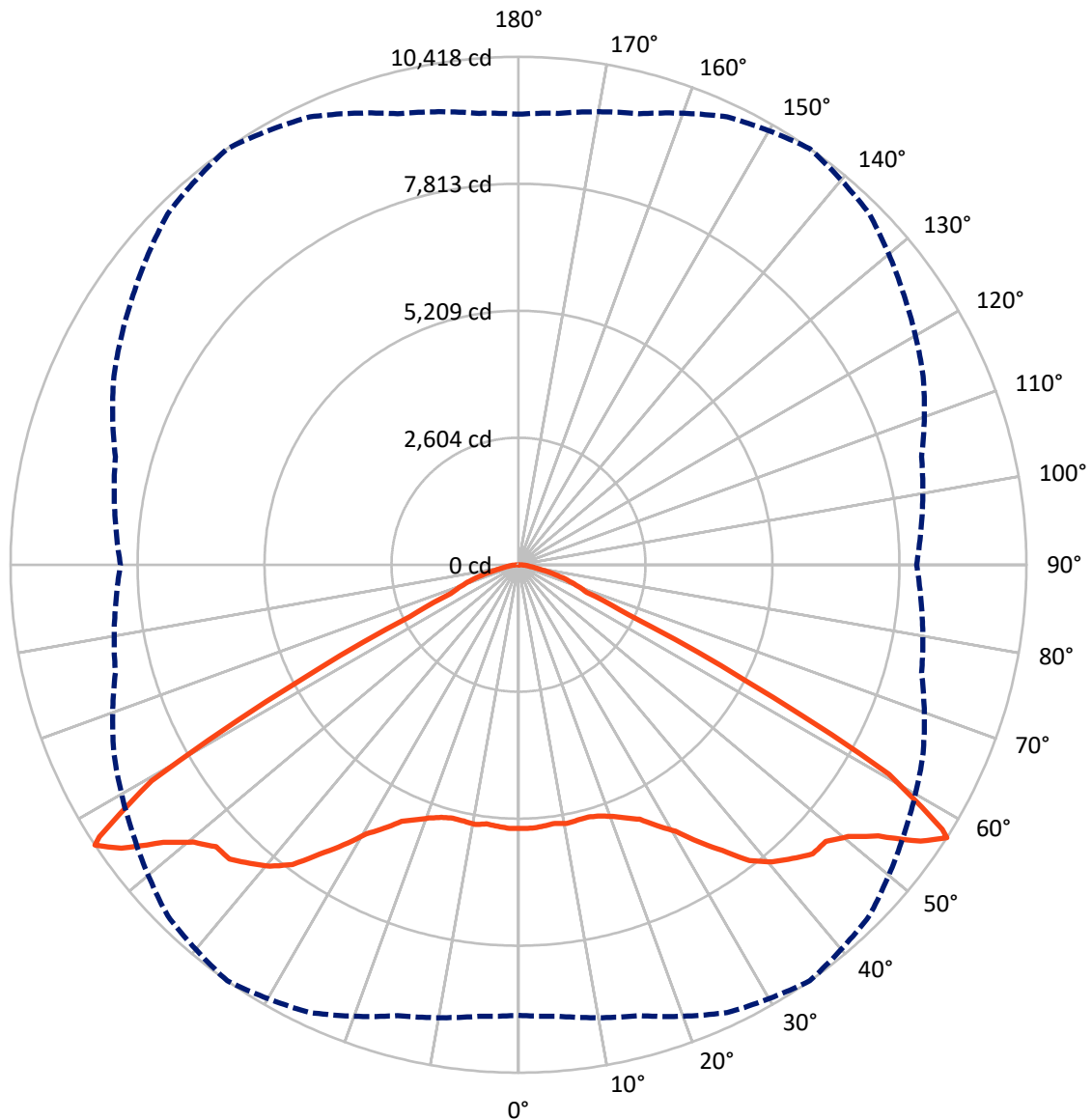
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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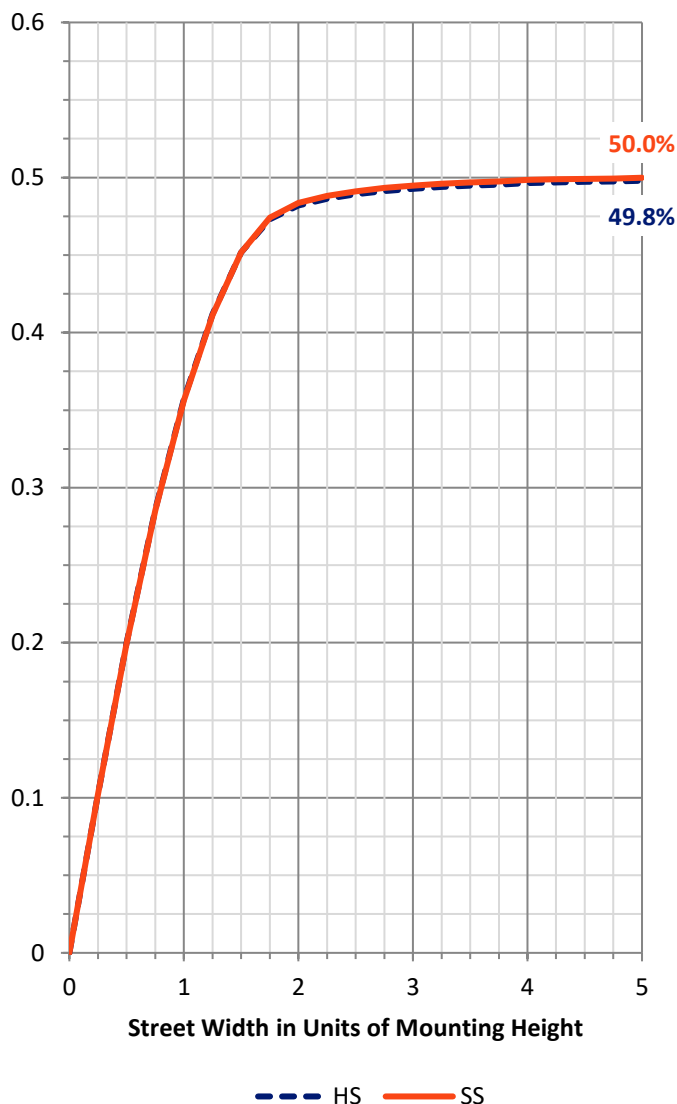
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13695.8	0.0	13695.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13695.8	0.0	13695.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	27391.7	0.0	27391.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.9	1.9
10°-20°	1518.9	5.5
20°-30°	2652.8	9.7
30°-40°	4346.7	15.9
40°-50°	6373.3	23.3
50°-60°	8027.6	29.3
60°-70°	3019.1	11.0
70°-80°	802.8	2.9
80°-90°	137.7	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°	27391.7	100.0
0°-180°	27391.7	100.0

Coefficient of Utilization



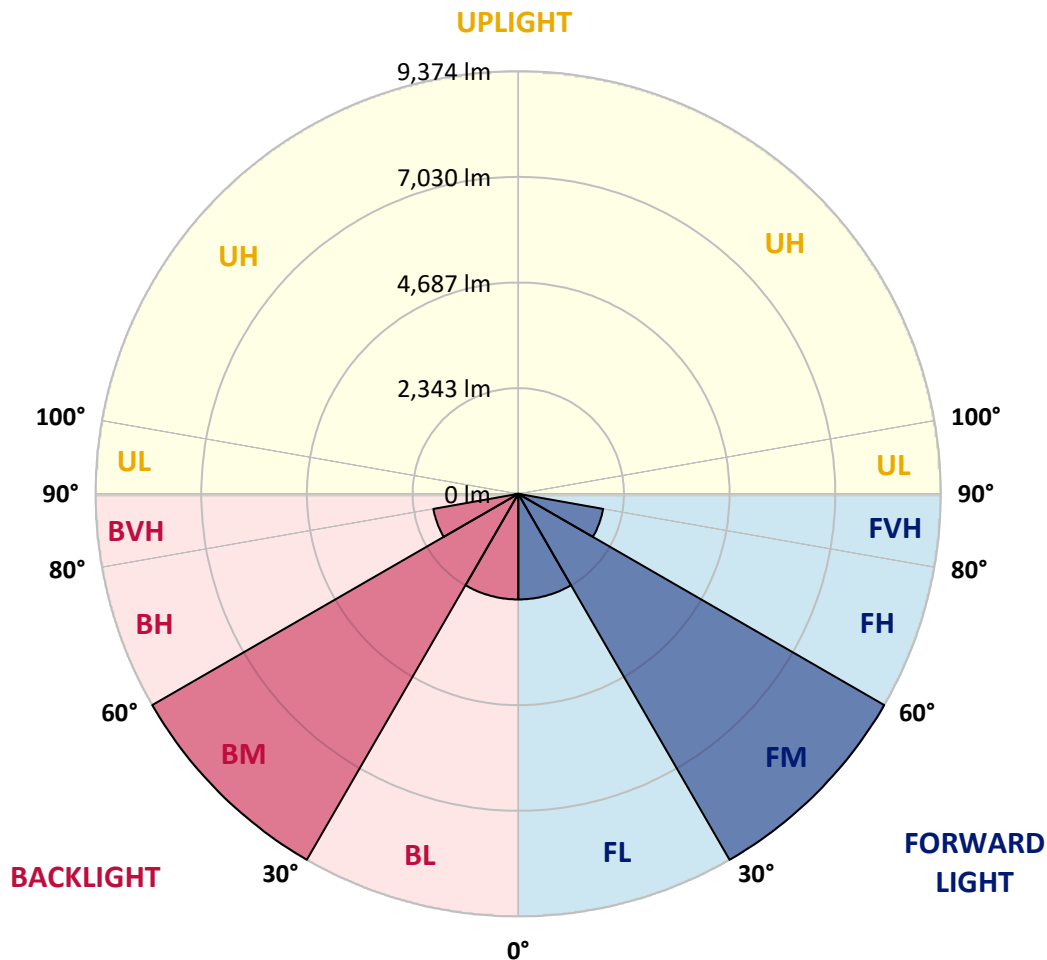
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2342.3	8.6			
FM (30°-60°)	9373.8	34.2			
FH (60°-80°)	1910.9	7.0			G2/5000
FVH (80°-90°)	68.8	0.3			G1/100
BL (0°-30°)	2342.3	8.6	B3/2500		
BM (30°-60°)	9373.8	34.2	B5		
BH (60°-80°)	1910.9	7.0	B3/2500		G2/5000
BVH (80°-90°)	68.8	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5409.7	5409.7	5409.7	5409.7	5409.7	5409.7	5409.7	5409.7	5409.7	5409.7	5409.7
2.5°	5382.7	5436.7	5413.0	5399.6	5409.7	5392.8	5365.8	5396.1	5389.4	5362.4	5352.3
5°	5369.2	5409.7	5382.7	5409.7	5382.7	5429.9	5416.4	5365.8	5426.5	5369.2	5389.4
7.5°	5359.0	5372.6	5379.3	5365.8	5355.6	5413.0	5382.7	5359.0	5325.3	5315.2	5332.1
10°	5335.4	5369.2	5318.5	5386.0	5399.6	5359.0	5359.0	5315.2	5288.1	5271.3	5328.6
12.5°	5396.1	5338.8	5332.1	5365.8	5375.9	5392.8	5345.5	5321.9	5271.3	5278.0	5267.9
15°	5325.3	5348.9	5352.3	5359.0	5369.2	5409.7	5365.8	5315.2	5294.9	5224.0	5230.8
17.5°	5352.3	5328.6	5352.3	5429.9	5416.4	5446.8	5399.6	5321.9	5274.7	5234.2	5288.1
20°	5399.6	5389.4	5399.6	5494.0	5510.9	5537.9	5497.4	5426.5	5335.4	5288.1	5315.2
22.5°	5450.1	5443.4	5450.1	5541.3	5639.2	5672.9	5632.4	5467.1	5419.8	5332.1	5301.7
25°	5541.3	5548.0	5618.9	5720.1	5784.3	5848.4	5774.2	5656.0	5504.2	5450.1	5386.0
27.5°	5743.8	5760.6	5801.1	5949.6	6061.0	6118.4	6013.8	5851.8	5757.2	5645.9	5629.0
30°	5993.5	5993.5	6064.3	6192.6	6344.4	6432.2	6303.9	6111.6	5996.8	5936.1	5899.0
32.5°	6324.2	6287.1	6314.1	6540.2	6776.4	6850.6	6678.5	6442.3	6260.1	6179.1	6152.1
35°	6607.7	6631.3	6692.1	6935.0	7198.3	7370.4	7100.4	6793.3	6607.7	6533.4	6520.0
37.5°	6975.5	7016.0	7046.4	7380.5	7697.7	7761.8	7502.0	7255.6	7029.5	6968.8	6935.0
40°	7495.2	7468.3	7478.4	7724.7	8011.6	8052.1	7795.5	7620.1	7434.5	7397.4	7397.4
42.5°	7923.8	7893.4	7927.2	8018.3	8237.6	8207.3	8065.5	7937.3	7859.7	7819.2	7859.7
45°	8183.7	8176.9	8237.6	8305.1	8460.4	8359.2	8247.8	8268.0	8193.8	8126.3	8122.9
47.5°	8467.1	8423.3	8497.5	8598.7	8480.7	8433.4	8426.6	8470.5	8446.9	8328.8	8291.7
50°	8605.5	8588.6	8706.7	8824.9	8760.8	8652.8	8676.3	8747.2	8443.5	8284.9	8193.8
52.5°	8976.7	8980.1	9206.2	9270.3	9243.3	9084.7	9135.3	8943.0	8585.3	8362.5	8372.6
55°	9560.6	9536.9	9790.0	9979.0	10009.4	9806.9	9564.0	9294.0	8845.1	8619.0	8551.5
57°	9239.9	9294.0	9574.1	10134.2	10417.7	10178.1	9648.3	9155.6	8558.3	8284.9	8163.4
57.5°	8811.3	8899.1	9385.0	9948.6	10245.6	10225.4	9543.7	8899.1	8365.9	7940.7	7950.8
60°	6455.8	6472.7	6911.4	7805.7	8733.7	8754.0	7923.8	7070.0	6476.0	6013.8	6077.9
62.5°	3405.1	3482.7	3658.2	4377.0	5180.2	5375.9	4873.1	4434.4	3921.4	3570.5	3604.1
65°	1802.1	1792.0	1876.3	2078.8	2473.7	2574.9	2507.4	2159.8	1981.0	1923.6	1927.0
67.5°	1464.6	1481.5	1471.3	1481.5	1508.5	1552.4	1542.3	1555.7	1565.8	1582.8	1579.4
70°	1241.9	1241.9	1248.7	1252.0	1252.0	1272.3	1295.9	1339.8	1343.2	1360.0	1366.7
72.5°	978.7	971.9	982.0	1005.7	1009.1	1025.9	1059.6	1086.6	1096.7	1096.7	1076.5
75°	664.8	671.6	685.0	705.3	725.5	755.9	782.9	799.8	806.6	796.5	786.3
77.5°	374.6	381.3	391.5	421.8	445.4	472.5	502.8	519.7	536.6	540.0	519.7
80°	222.8	222.8	239.6	263.2	290.3	317.2	344.2	364.5	371.2	371.2	361.1
82.5°	135.0	138.4	151.8	175.5	199.1	216.0	239.6	256.5	270.0	266.6	259.9
85°	70.9	70.9	84.3	104.6	121.5	138.4	138.4	128.3	121.5	104.6	97.9
87.5°	23.6	20.3	27.0	27.0	23.6	27.0	27.0	30.4	30.4	30.4	30.4
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)