

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: P530302

Luminaire Tested: **GALN-SA5C-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530302
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-SA5C-735-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA 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: 28949 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

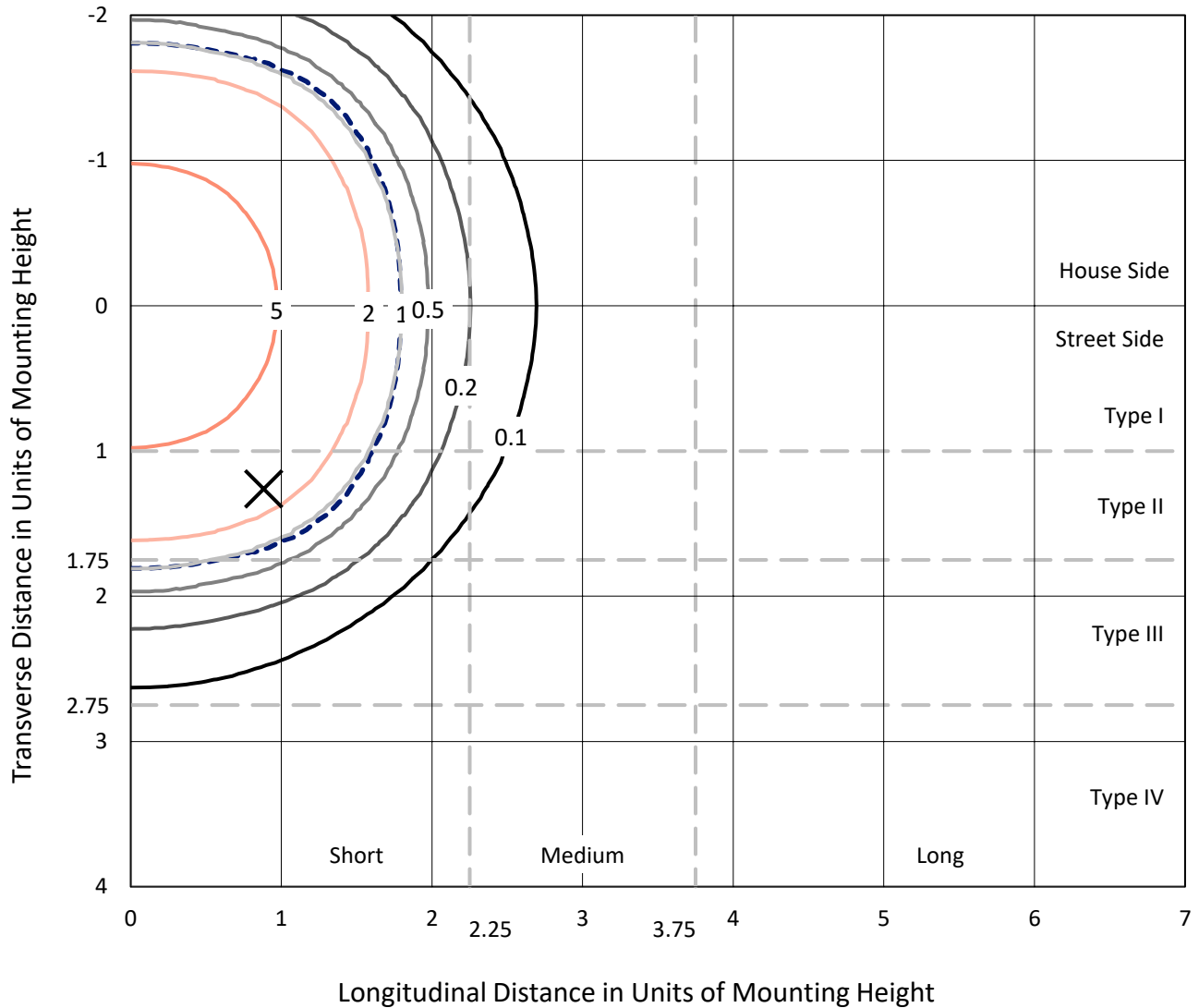
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

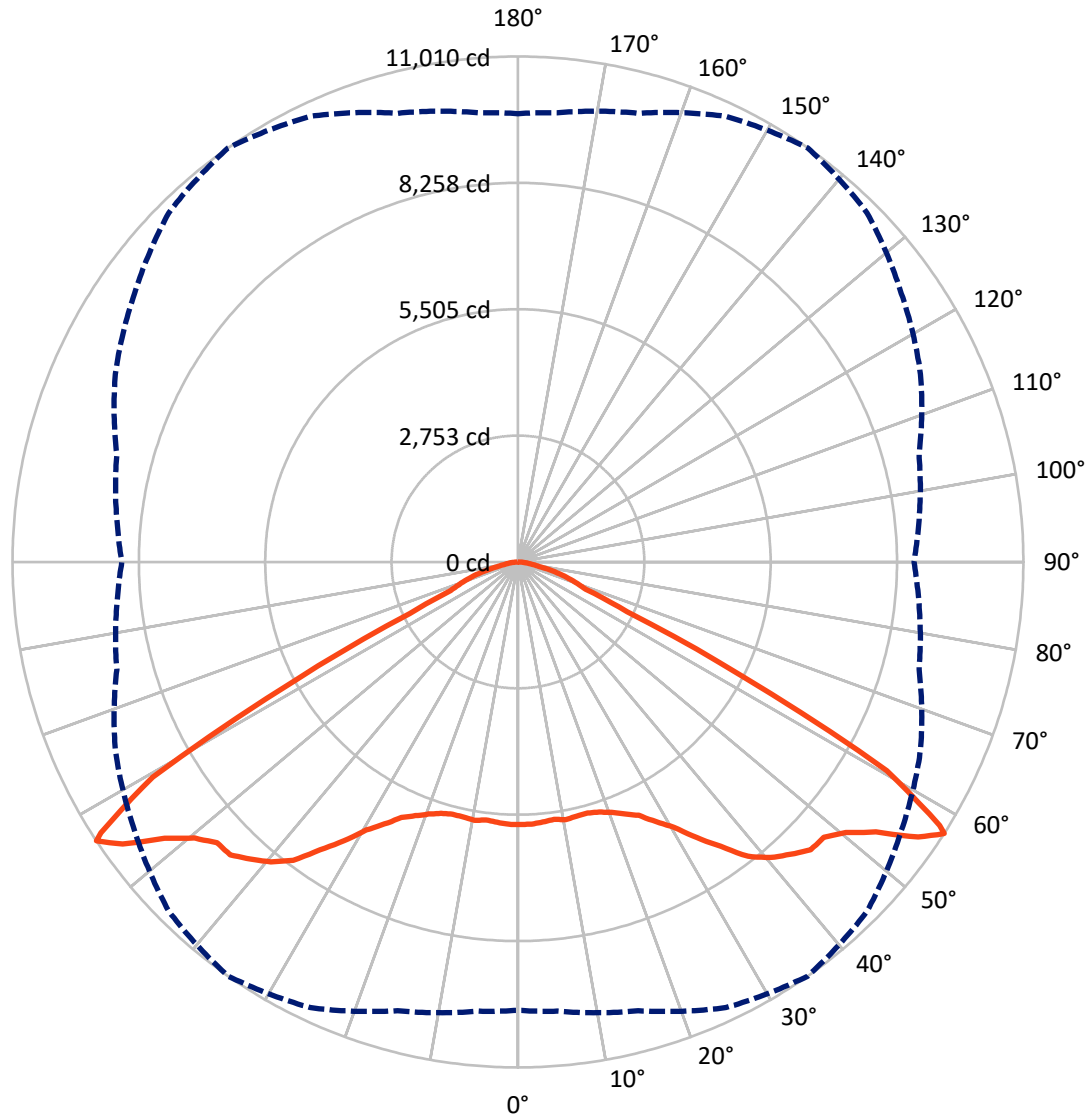
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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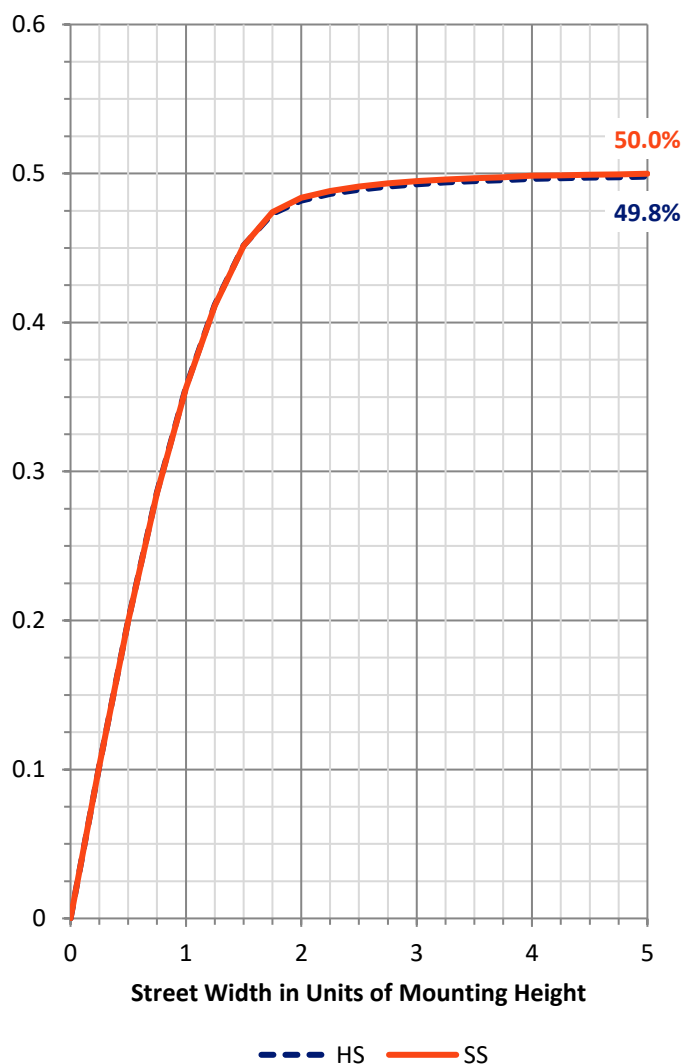
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14474.5	0.0	14474.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14474.5	0.0	14474.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28949.0	0.0	28949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.0	1.9
10°-20°	1605.3	5.5
20°-30°	2803.6	9.7
30°-40°	4593.8	15.9
40°-50°	6735.6	23.3
50°-60°	8484.0	29.3
60°-70°	3190.8	11.0
70°-80°	848.4	2.9
80°-90°	145.5	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°	28949.0	100.0
0°-180°	28949.0	100.0

Coefficient of Utilization



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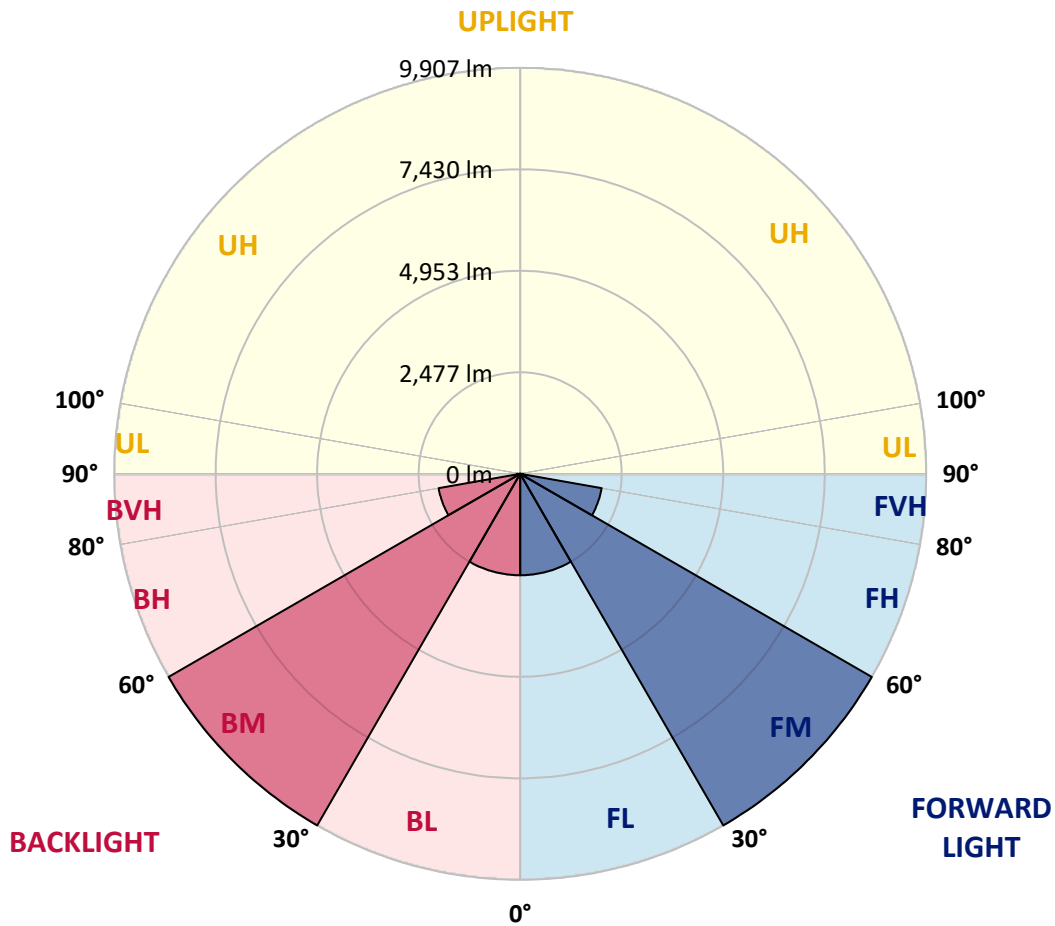
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2475.5	8.6			
FM (30°-60°)	9906.7	34.2			
FH (60°-80°)	2019.6	7.0			G2/5000
FVH (80°-90°)	72.7	0.3			G1/100
BL (0°-30°)	2475.5	8.6	B3/2500		
BM (30°-60°)	9906.7	34.2	B5		
BH (60°-80°)	2019.6	7.0	B3/2500		G2/5000
BVH (80°-90°)	72.7	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°	5717.2	5717.2	5717.2	5717.2	5717.2	5717.2	5717.2	5717.2	5717.2	5717.2	5717.2
2.5°	5688.7	5745.7	5720.8	5706.5	5717.2	5699.4	5670.8	5702.9	5695.8	5667.3	5656.6
5°	5674.4	5717.2	5688.7	5717.2	5688.7	5738.6	5724.3	5670.8	5735.0	5674.4	5695.8
7.5°	5663.7	5678.0	5685.1	5670.8	5660.1	5720.8	5688.7	5663.7	5628.0	5617.4	5635.2
10°	5638.7	5674.4	5620.9	5692.2	5706.5	5663.7	5663.7	5617.4	5588.8	5571.0	5631.6
12.5°	5702.9	5642.3	5635.2	5670.8	5681.5	5699.4	5649.4	5624.5	5571.0	5578.1	5567.4
15°	5628.0	5653.0	5656.6	5663.7	5674.4	5717.2	5670.8	5617.4	5596.0	5521.1	5528.2
17.5°	5656.6	5631.6	5656.6	5738.6	5724.3	5756.4	5706.5	5624.5	5574.6	5531.8	5588.8
20°	5706.5	5695.8	5706.5	5806.4	5824.2	5852.7	5809.9	5735.0	5638.7	5588.8	5617.4
22.5°	5760.0	5752.9	5760.0	5856.3	5959.7	5995.4	5952.6	5777.8	5727.9	5635.2	5603.1
25°	5856.3	5863.4	5938.3	6045.3	6113.1	6180.9	6102.4	5977.6	5817.1	5760.0	5692.2
27.5°	6070.3	6088.1	6130.9	6287.9	6405.6	6466.2	6355.6	6184.4	6084.6	5966.9	5949.0
30°	6334.2	6334.2	6409.1	6544.7	6705.2	6797.9	6662.4	6459.1	6337.8	6273.6	6234.4
32.5°	6683.8	6644.5	6673.1	6912.0	7161.7	7240.1	7058.2	6808.6	6616.0	6530.4	6501.9
35°	6983.3	7008.3	7072.5	7329.3	7607.5	7789.4	7504.1	7179.5	6983.3	6904.9	6890.6
37.5°	7372.1	7414.9	7447.0	7800.1	8135.3	8203.1	7928.5	7668.1	7429.2	7365.0	7329.3
40°	7921.4	7892.8	7903.5	8163.9	8467.0	8509.8	8238.8	8053.3	7857.2	7817.9	7817.9
42.5°	8374.3	8342.2	8377.9	8474.2	8706.0	8673.9	8524.1	8388.6	8306.5	8263.7	8306.5
45°	8648.9	8641.8	8706.0	8777.3	8941.4	8834.4	8716.7	8738.1	8659.6	8588.3	8584.7
47.5°	8948.5	8902.2	8980.6	9087.6	8962.8	8912.9	8905.7	8952.1	8927.1	8802.3	8763.1
50°	9094.8	9076.9	9201.8	9326.6	9258.8	9144.7	9169.7	9244.6	8923.6	8755.9	8659.6
52.5°	9487.1	9490.6	9729.6	9797.4	9768.8	9601.2	9654.7	9451.4	9073.4	8838.0	8848.7
55°	10104.1	10079.1	10346.6	10546.4	10578.5	10364.5	10107.7	9822.3	9348.0	9109.0	9037.7
57°	9765.3	9822.3	10118.4	10710.4	11010.0	10756.8	10196.8	9676.1	9044.8	8755.9	8627.5
57.5°	9312.3	9405.0	9918.6	10514.3	10828.1	10806.7	10086.3	9405.0	8841.5	8392.1	8402.8
60°	6822.9	6840.7	7304.3	8249.5	9230.3	9251.7	8374.3	7472.0	6844.3	6355.6	6423.4
62.5°	3598.7	3680.7	3866.2	4625.8	5474.7	5681.5	5150.1	4686.5	4144.4	3773.4	3809.1
65°	1904.5	1893.8	1983.0	2197.0	2614.3	2721.3	2650.0	2282.6	2093.6	2032.9	2036.5
67.5°	1547.9	1565.7	1555.0	1565.7	1594.3	1640.6	1629.9	1644.2	1654.9	1672.7	1669.2
70°	1312.5	1312.5	1319.6	1323.2	1323.2	1344.6	1369.6	1415.9	1419.5	1437.3	1444.5
72.5°	1034.3	1027.2	1037.9	1062.8	1066.4	1084.2	1119.9	1148.4	1159.1	1159.1	1137.7
75°	702.6	709.7	724.0	745.4	766.8	798.9	827.4	845.3	852.4	841.7	831.0
77.5°	395.9	403.0	413.7	445.8	470.8	499.3	531.4	549.3	567.1	570.7	549.3
80°	235.4	235.4	253.2	278.2	306.7	335.3	363.8	385.2	392.3	392.3	381.6
82.5°	142.7	146.2	160.5	185.5	210.4	228.3	253.2	271.1	285.3	281.8	274.6
85°	74.9	74.9	89.2	110.6	128.4	146.2	146.2	135.5	128.4	110.6	103.4
87.5°	25.0	21.4	28.5	28.5	25.0	28.5	28.5	32.1	32.1	32.1	32.1
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)