

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: P528456

Luminaire Tested: **GALN-SA3C-740-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528456
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-SA3C-740-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 18525 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

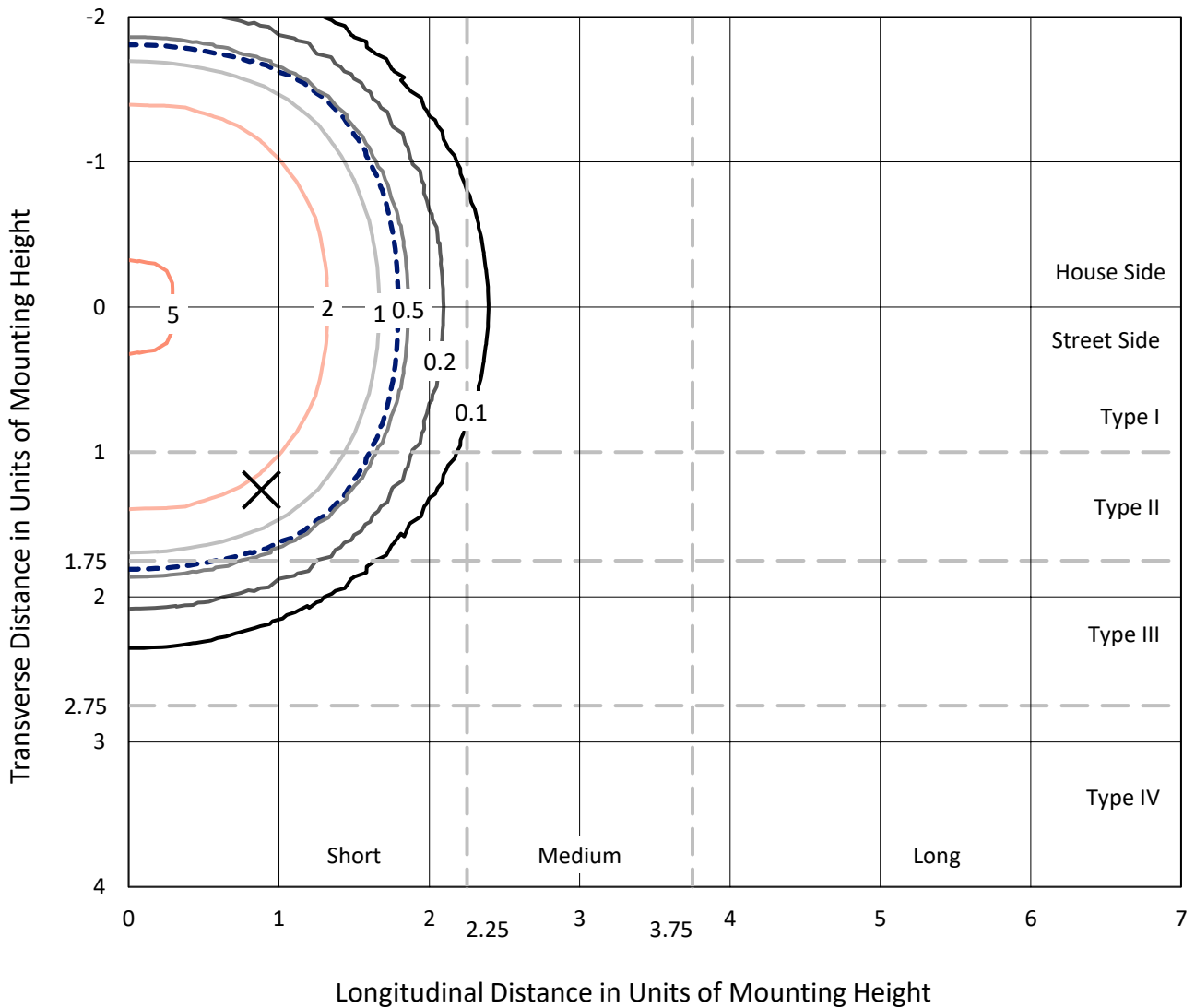
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

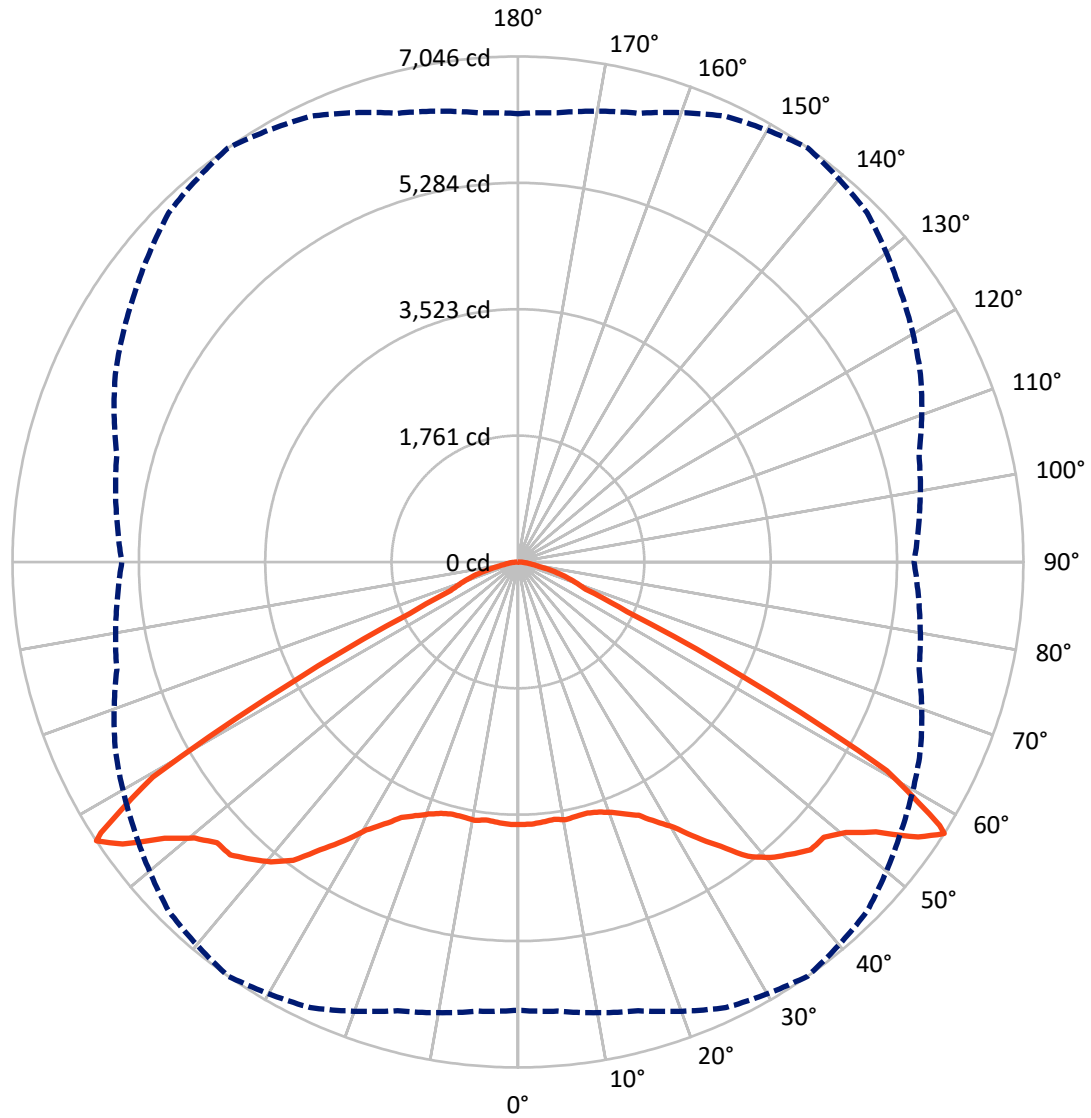
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	9262.5	0.0	9262.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9262.5	0.0	9262.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18525.0	0.0	18525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.8	1.9
10°-20°	1027.3	5.5
20°-30°	1794.1	9.7
30°-40°	2939.7	15.9
40°-50°	4310.2	23.3
50°-60°	5429.1	29.3
60°-70°	2041.8	11.0
70°-80°	542.9	2.9
80°-90°	93.1	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°	18525.0	100.0
0°-180°	18525.0	100.0

Coefficient of Utilization



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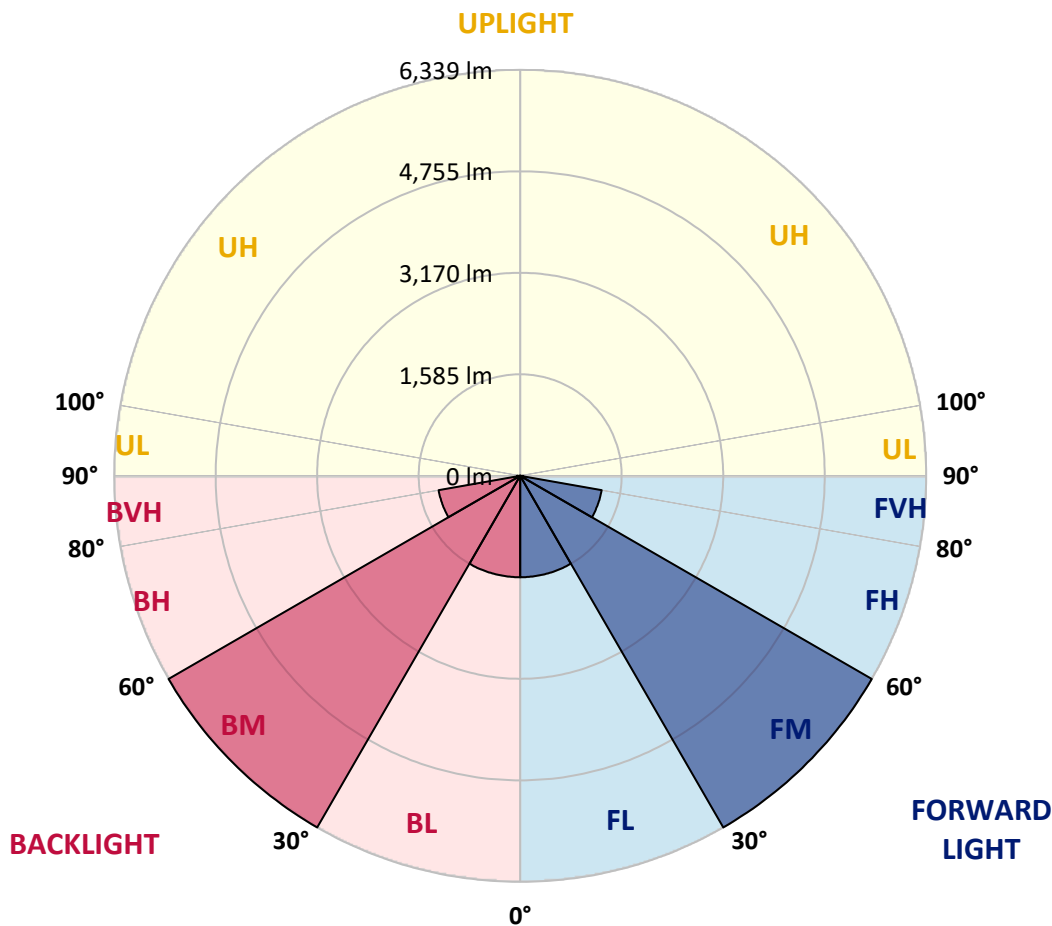
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1584.1	8.6			
FM (30°-60°)	6339.5	34.2			
FH (60°-80°)	1292.4	7.0			G1/1800
FVH (80°-90°)	46.5	0.3			G1/100
BL (0°-30°)	1584.1	8.6	B3/2500		
BM (30°-60°)	6339.5	34.2	B4/8500		
BH (60°-80°)	1292.4	7.0	B3/2500		G1/1800
BVH (80°-90°)	46.5	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3658.6	3658.6	3658.6	3658.6	3658.6	3658.6	3658.6	3658.6	3658.6	3658.6	3658.6
2.5°	3640.3	3676.8	3660.8	3651.7	3658.6	3647.1	3628.9	3649.4	3644.9	3626.6	3619.8
5°	3631.2	3658.6	3640.3	3658.6	3640.3	3672.2	3663.1	3628.9	3670.0	3631.2	3644.9
7.5°	3624.3	3633.4	3638.0	3628.9	3622.0	3660.8	3640.3	3624.3	3601.5	3594.6	3606.1
10°	3608.3	3631.2	3596.9	3642.6	3651.7	3624.3	3624.3	3594.6	3576.4	3565.0	3603.8
12.5°	3649.4	3610.6	3606.1	3628.9	3635.7	3647.1	3615.2	3599.2	3565.0	3569.5	3562.7
15°	3601.5	3617.5	3619.8	3624.3	3631.2	3658.6	3628.9	3594.6	3581.0	3533.0	3537.6
17.5°	3619.8	3603.8	3619.8	3672.2	3663.1	3683.7	3651.7	3599.2	3567.3	3539.9	3576.4
20°	3651.7	3644.9	3651.7	3715.6	3727.0	3745.3	3717.9	3670.0	3608.3	3576.4	3594.6
22.5°	3685.9	3681.4	3685.9	3747.6	3813.7	3836.6	3809.2	3697.4	3665.4	3606.1	3585.5
25°	3747.6	3752.1	3800.1	3868.5	3911.9	3955.3	3905.0	3825.2	3722.5	3685.9	3642.6
27.5°	3884.5	3895.9	3923.3	4023.7	4099.0	4137.8	4067.1	3957.5	3893.6	3818.3	3806.9
30°	4053.4	4053.4	4101.3	4188.0	4290.8	4350.1	4263.4	4133.3	4055.7	4014.6	3989.5
32.5°	4277.1	4252.0	4270.2	4423.1	4582.9	4633.1	4516.7	4356.9	4233.7	4178.9	4160.7
35°	4468.8	4484.7	4525.8	4690.2	4868.2	4984.6	4802.0	4594.3	4468.8	4418.6	4409.4
37.5°	4717.5	4744.9	4765.5	4991.4	5206.0	5249.3	5073.6	4907.0	4754.1	4713.0	4690.2
40°	5069.0	5050.8	5057.6	5224.2	5418.2	5445.6	5272.1	5153.5	5027.9	5002.8	5002.8
42.5°	5358.9	5338.3	5361.2	5422.8	5571.1	5550.6	5454.7	5368.0	5315.5	5288.1	5315.5
45°	5534.6	5530.0	5571.1	5616.8	5721.8	5653.3	5578.0	5591.7	5541.5	5495.8	5493.5
47.5°	5726.3	5696.7	5746.9	5815.3	5735.5	5703.5	5698.9	5728.6	5712.6	5632.8	5607.6
50°	5819.9	5808.5	5888.4	5968.3	5924.9	5851.9	5867.8	5915.8	5710.4	5603.1	5541.5
52.5°	6071.0	6073.2	6226.2	6269.5	6251.3	6144.0	6178.2	6048.1	5806.2	5655.6	5662.4
55°	6465.8	6449.8	6621.0	6748.8	6769.3	6632.4	6468.1	6285.5	5981.9	5829.0	5783.4
57°	6249.0	6285.5	6474.9	6853.8	7045.5	6883.5	6525.1	6191.9	5788.0	5603.1	5520.9
57.5°	5959.1	6018.5	6347.1	6728.3	6929.1	6915.4	6454.4	6018.5	5657.9	5370.3	5377.1
60°	4366.1	4377.5	4674.2	5279.0	5906.6	5920.3	5358.9	4781.5	4379.8	4067.1	4110.4
62.5°	2302.9	2355.3	2474.0	2960.2	3503.4	3635.7	3295.7	2999.0	2652.1	2414.7	2437.5
65°	1218.8	1211.9	1269.0	1405.9	1672.9	1741.4	1695.8	1460.7	1339.7	1300.9	1303.2
67.5°	990.5	1001.9	995.1	1001.9	1020.2	1049.9	1043.0	1052.1	1059.0	1070.4	1068.1
70°	839.9	839.9	844.5	846.7	846.7	860.4	876.4	906.1	908.4	919.8	924.3
72.5°	661.9	657.3	664.2	680.1	682.4	693.8	716.6	734.9	741.8	741.8	728.1
75°	449.6	454.2	463.3	477.0	490.7	511.2	529.5	540.9	545.5	538.6	531.8
77.5°	253.3	257.9	264.7	285.3	301.3	319.5	340.1	351.5	362.9	365.2	351.5
80°	150.6	150.6	162.0	178.0	196.3	214.5	232.8	246.5	251.1	251.1	244.2
82.5°	91.3	93.6	102.7	118.7	134.7	146.1	162.0	173.5	182.6	180.3	175.7
85°	47.9	47.9	57.1	70.8	82.2	93.6	93.6	86.7	82.2	70.8	66.2
87.5°	16.0	13.7	18.3	18.3	16.0	18.3	18.3	20.5	20.5	20.5	20.5
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)