

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: P531736

Luminaire Tested: **GALN-SA7A-740-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27023 lumens
Efficiency: N/A
Efficacy: 125.7 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

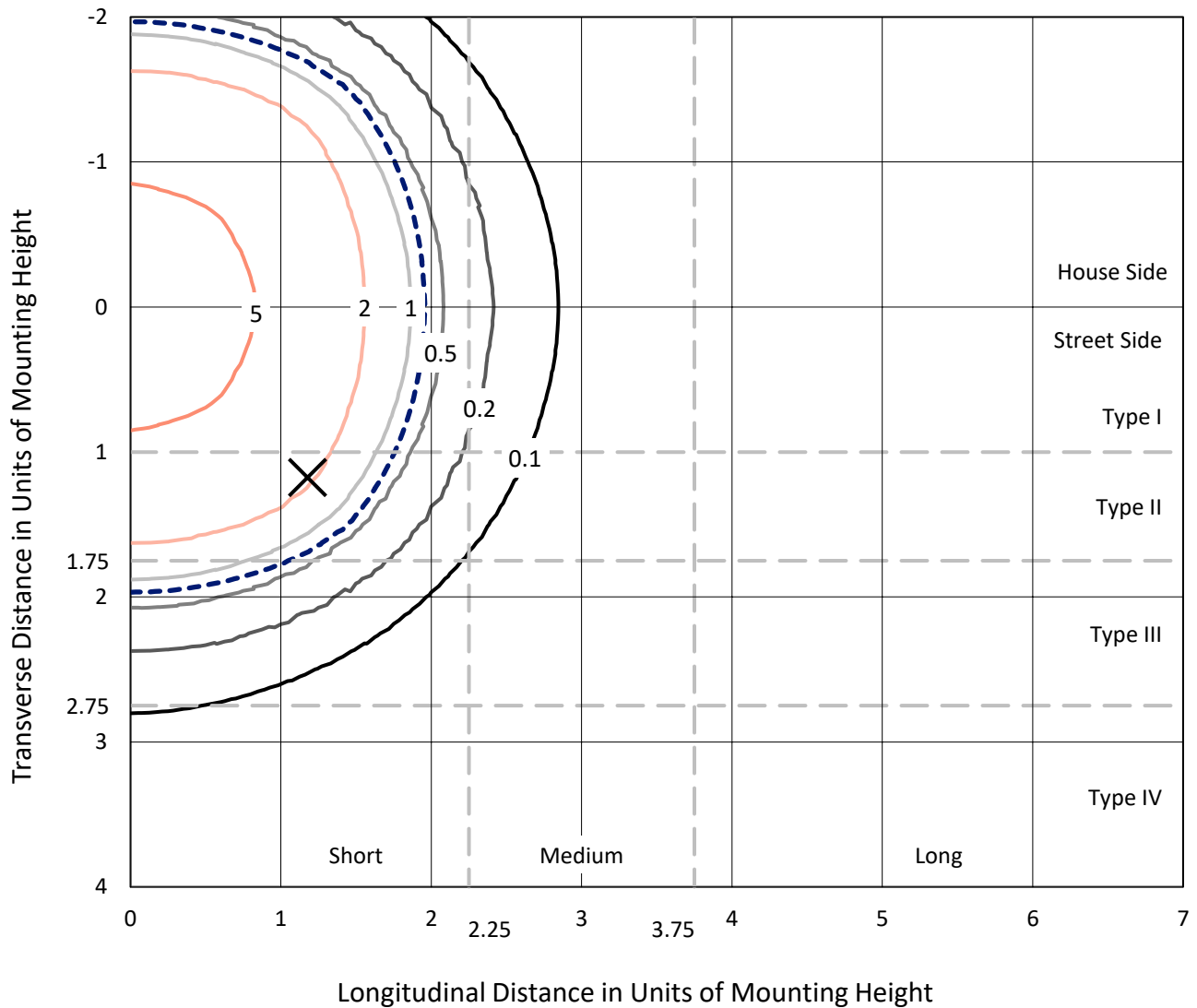
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

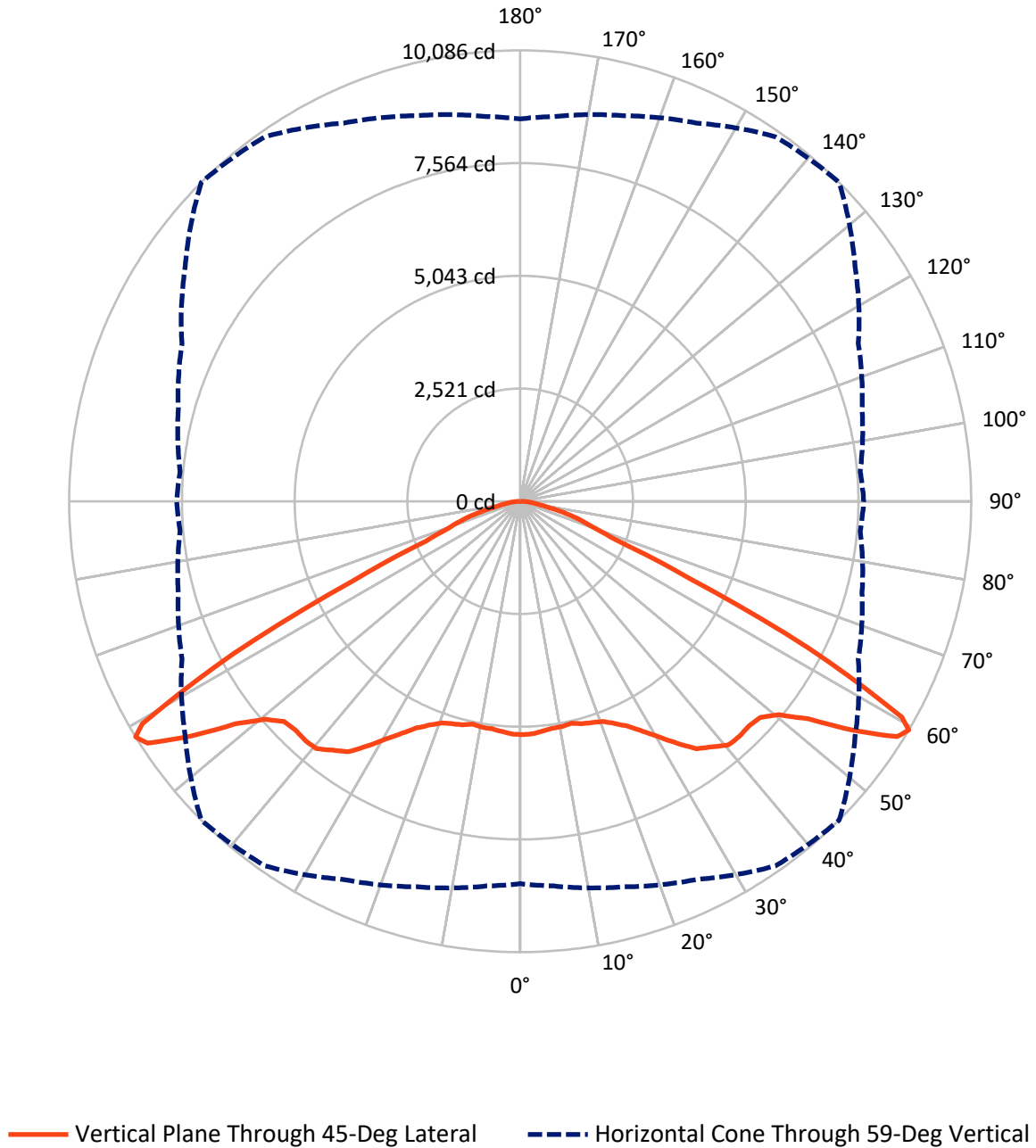
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13511.5	0.0	13511.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13511.5	0.0	13511.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27023.0	0.0	27023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.0	1.8
10°-20°	1463.2	5.4
20°-30°	2555.0	9.5
30°-40°	4080.6	15.1
40°-50°	5558.7	20.6
50°-60°	7516.8	27.8
60°-70°	4122.2	15.3
70°-80°	1054.6	3.9
80°-90°	179.9	0.7
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°	27023.0	100.0
0°-180°	27023.0	100.0

Coefficient of Utilization



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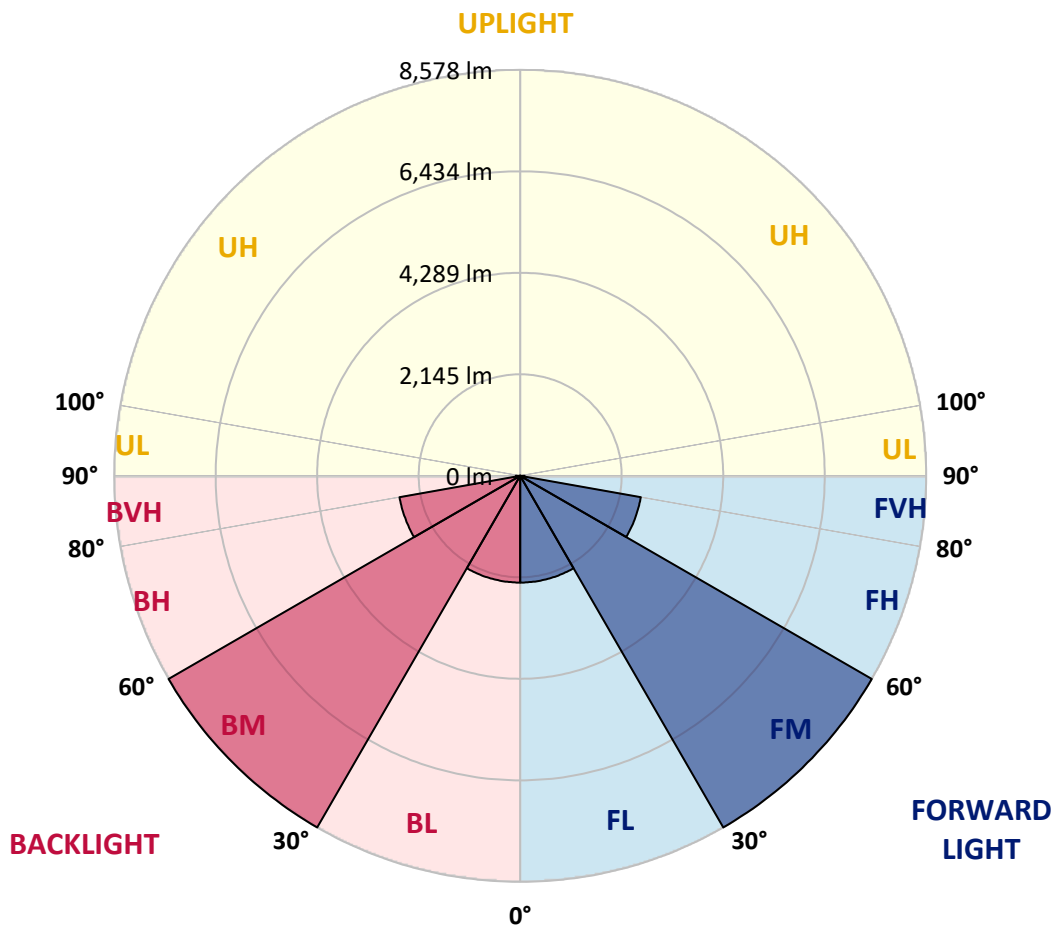
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2255.1	8.3			
FM (30°-60°)	8578.0	31.7			
FH (60°-80°)	2588.4	9.6			G2/5000
FVH (80°-90°)	89.9	0.3			G1/100
BL (0°-30°)	2255.1	8.3	B3/2500		
BM (30°-60°)	8578.0	31.7	B5		
BH (60°-80°)	2588.4	9.6	B4/5000		G2/5000
BVH (80°-90°)	89.9	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5219.6	5219.6	5219.6	5219.6	5219.6	5219.6	5219.6	5219.6	5219.6	5219.6	5219.6
2.5°	5188.4	5226.5	5198.8	5223.0	5219.6	5209.2	5191.8	5181.5	5167.6	5188.4	5153.7
5°	5167.6	5198.8	5229.9	5188.4	5188.4	5167.6	5157.2	5136.4	5136.4	5133.0	5129.5
7.5°	5202.2	5171.1	5157.2	5164.1	5171.1	5126.0	5157.2	5115.6	5081.0	5105.3	5133.0
10°	5171.1	5184.9	5133.0	5157.2	5119.1	5126.0	5105.3	5133.0	5094.9	5094.9	5094.9
12.5°	5202.2	5164.1	5181.5	5164.1	5153.7	5094.9	5122.6	5091.4	5087.9	5122.6	5091.4
15°	5264.6	5202.2	5188.4	5153.7	5164.1	5164.1	5136.4	5139.9	5101.8	5122.6	5129.5
17.5°	5243.8	5209.2	5198.8	5157.2	5191.8	5202.2	5150.3	5115.6	5139.9	5136.4	5133.0
20°	5261.1	5275.0	5264.6	5271.5	5285.4	5257.7	5209.2	5160.7	5129.5	5174.5	5171.1
22.5°	5371.9	5358.1	5351.2	5344.2	5368.5	5396.2	5330.4	5254.2	5254.2	5285.4	5299.2
25°	5462.0	5458.5	5455.1	5486.2	5569.4	5569.4	5486.2	5389.3	5365.0	5385.8	5368.5
27.5°	5593.6	5631.7	5617.9	5673.3	5794.5	5822.2	5711.4	5597.1	5531.3	5507.0	5538.2
30°	5894.9	5849.9	5860.3	5919.2	6026.6	6116.6	5946.9	5825.7	5735.6	5732.2	5746.0
32.5°	6095.8	6130.5	6161.6	6217.1	6386.8	6456.0	6251.7	6054.3	5998.8	5967.7	5978.1
35°	6497.6	6466.4	6459.5	6514.9	6684.6	6798.9	6542.6	6369.4	6296.7	6366.0	6366.0
37.5°	6878.6	6792.0	6726.2	6798.9	6954.8	6968.6	6750.4	6656.9	6618.8	6698.5	6695.0
40°	7058.7	7051.8	6899.4	6940.9	7148.7	7169.5	6965.2	6854.3	6847.4	6951.3	7055.2
42.5°	7245.7	7179.9	7027.5	7055.2	7183.4	7190.3	6996.3	6965.2	7041.4	7141.8	7148.7
45°	7276.9	7221.5	7124.5	7055.2	7148.7	7169.5	7055.2	7076.0	7082.9	7204.2	7204.2
47.5°	7339.2	7332.3	7276.9	7224.9	7242.3	7224.9	7152.2	7183.4	7287.3	7346.2	7318.5
50°	7512.4	7439.7	7495.1	7450.1	7453.5	7502.0	7436.2	7467.4	7446.6	7394.7	7360.0
52.5°	7893.4	7858.8	7907.3	7938.4	7973.1	8083.9	8007.7	7841.4	7685.6	7547.0	7543.6
55°	8451.0	8475.3	8568.8	8728.1	8863.2	9039.8	8672.7	8274.4	8025.0	7806.8	7820.7
57.5°	8977.5	8960.2	9088.3	9452.0	9846.8	9936.9	9216.5	8648.5	8243.2	8104.7	8045.8
59°	8554.9	8638.1	8929.0	9334.2	9954.2	10085.8	9143.7	8343.7	7914.2	7633.6	7682.1
60°	7889.9	7921.1	8180.9	8745.4	9583.6	9808.7	8655.4	7872.6	7301.1	7138.4	7211.1
62.5°	5576.3	5552.1	5739.1	6199.7	6951.3	7256.1	6435.3	5884.6	5524.3	5344.2	5385.8
65°	2964.8	3075.6	3151.8	3439.3	3837.6	4159.7	3820.3	3581.3	3380.4	3231.5	3228.0
67.5°	2001.9	1988.1	2005.4	2071.2	2206.3	2296.3	2289.4	2168.2	2150.9	2123.1	2154.3
70°	1686.7	1679.8	1648.6	1648.6	1676.4	1697.1	1721.4	1735.2	1762.9	1797.6	1794.1
72.5°	1368.1	1350.8	1330.0	1319.6	1354.2	1364.6	1395.8	1409.7	1433.9	1430.4	1461.6
75°	904.0	904.0	928.2	955.9	966.3	987.1	990.6	1032.1	1032.1	1039.1	1011.4
77.5°	505.7	491.8	509.1	536.8	561.1	599.2	637.3	668.5	685.8	678.9	678.9
80°	294.4	294.4	311.7	342.9	374.1	408.7	436.4	460.7	478.0	471.0	457.2
82.5°	183.6	183.6	200.9	232.1	256.3	277.1	315.2	346.4	367.1	360.2	342.9
85°	93.5	93.5	114.3	135.1	166.2	180.1	176.6	162.8	159.3	142.0	142.0
87.5°	24.2	24.2	34.6	38.1	31.2	34.6	34.6	34.6	34.6	34.6	38.1
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)