

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: P533612

Luminaire Tested: **GALN-SA9A-740-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-740-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36327 lumens
Efficiency: N/A
Efficacy: 132.6 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

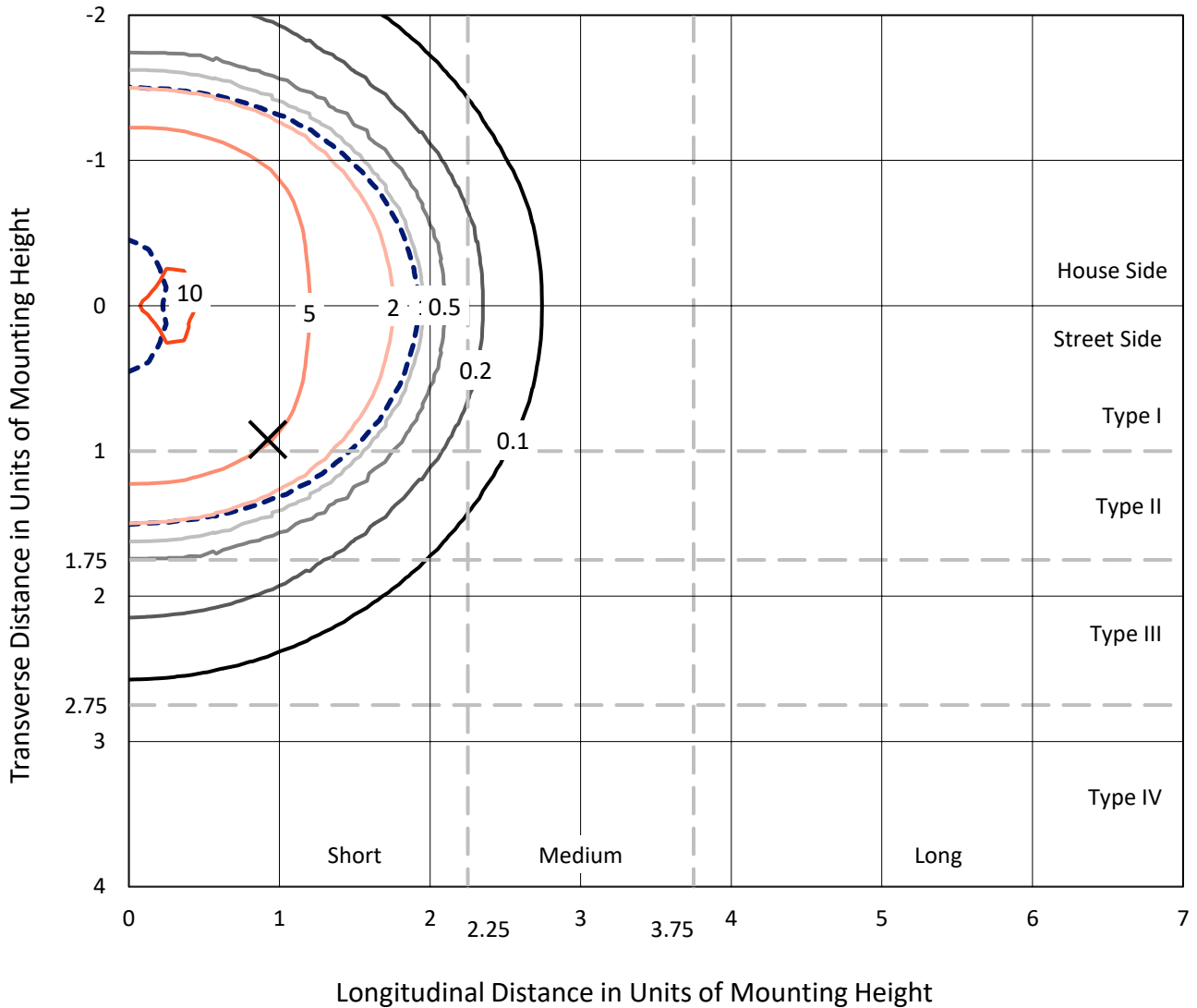
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

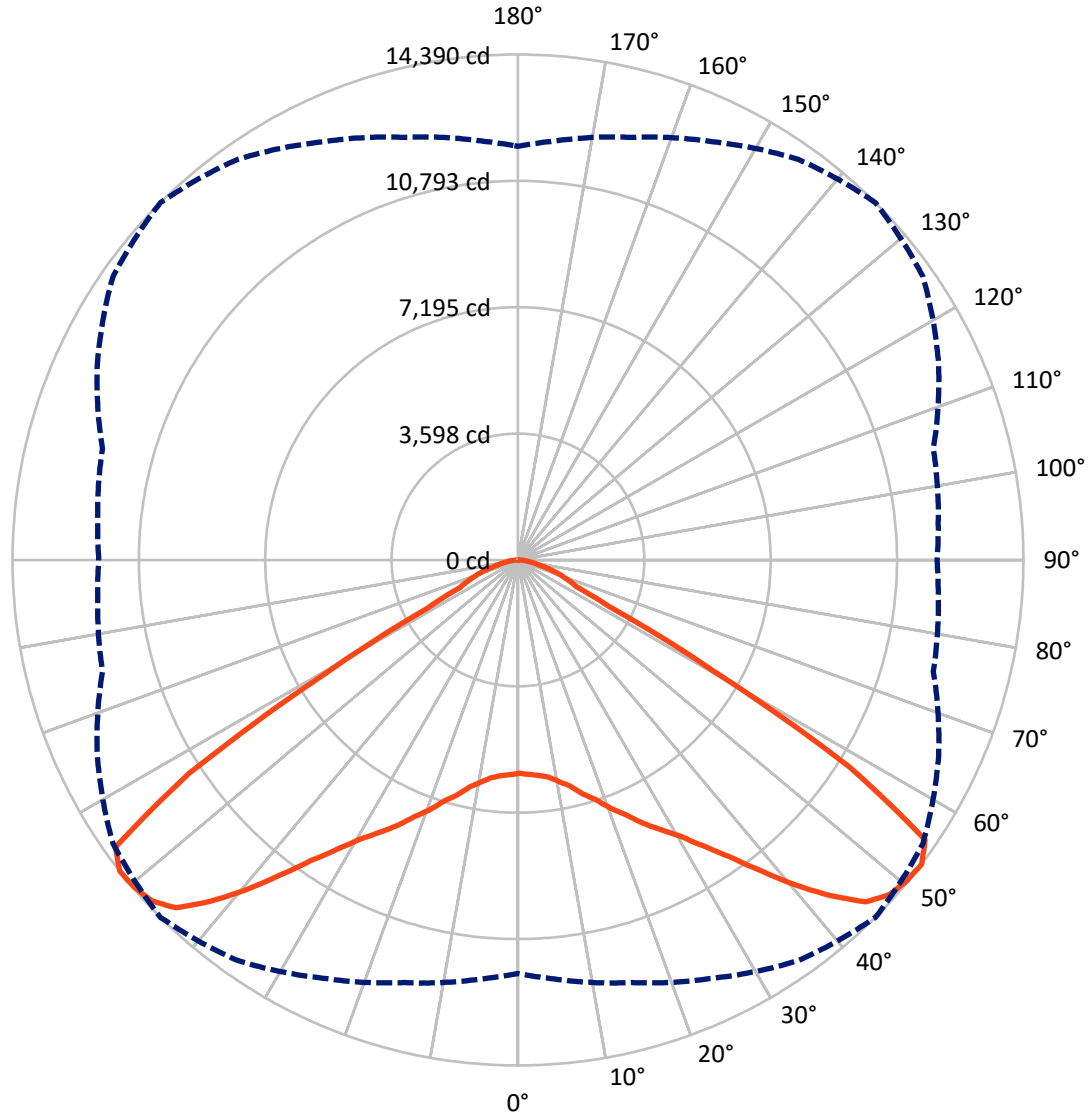
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18163.5	0.0	18163.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18163.5	0.0	18163.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36327.0	0.0	36327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.6	1.6
10°-20°	1960.4	5.4
20°-30°	3732.4	10.3
30°-40°	6408.7	17.6
40°-50°	9850.4	27.1
50°-60°	10002.9	27.5
60°-70°	2787.7	7.7
70°-80°	822.3	2.3
80°-90°	165.6	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°	36327.0	100.0
0°-180°	36327.0	100.0

Coefficient of Utilization



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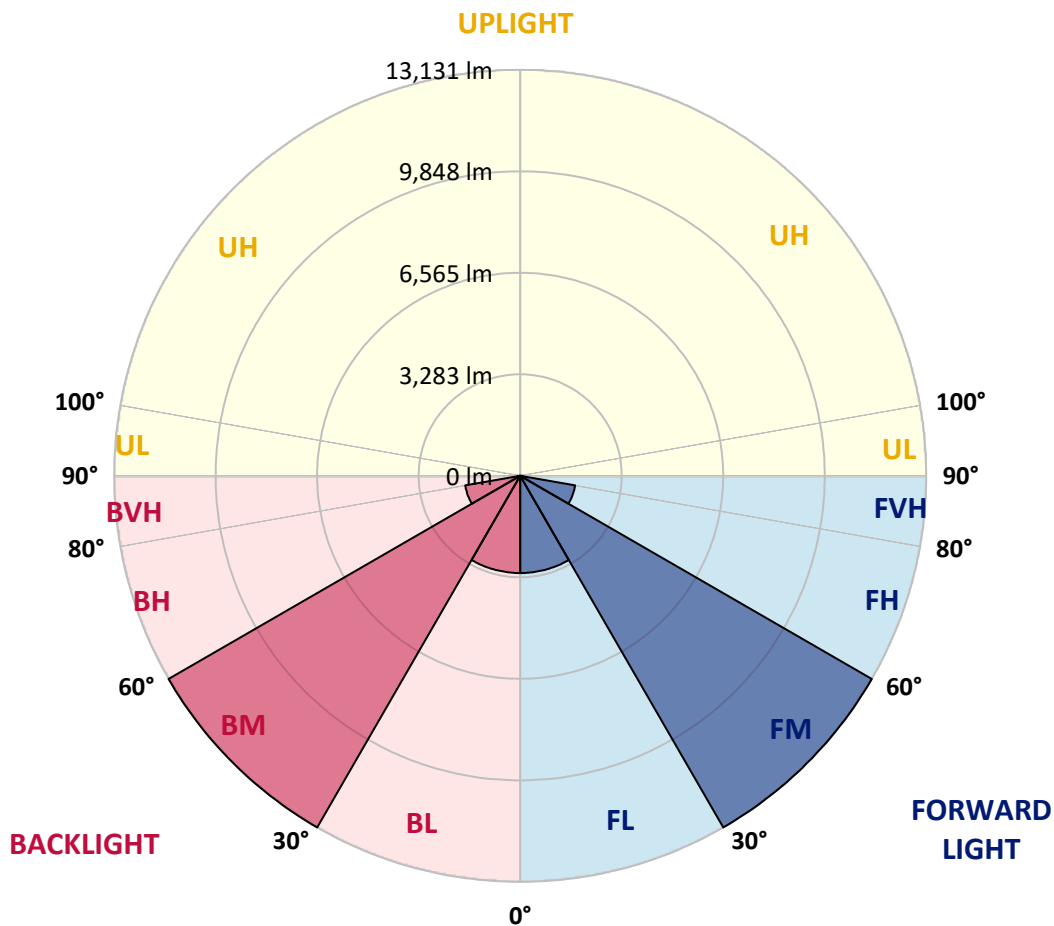
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3144.7	8.7			
FM (30°-60°)	13131.0	36.1			
FH (60°-80°)	1805.0	5.0			G2/5000
FVH (80°-90°)	82.8	0.2			G1/100
BL (0°-30°)	3144.7	8.7	B4/5000		
BM (30°-60°)	13131.0	36.1	B5		
BH (60°-80°)	1805.0	5.0	B3/2500		G2/5000
BVH (80°-90°)	82.8	0.2			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°	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5
2.5°	6086.1	6022.9	6045.5	6059.0	6117.6	6113.1	6099.6	6117.6	6135.7	6140.2	6131.1
5°	6081.6	6036.5	6054.5	6068.0	6126.6	6158.2	6149.2	6225.8	6279.9	6266.4	6334.0
7.5°	6045.5	6072.5	6050.0	6117.6	6167.2	6243.8	6325.0	6397.1	6464.7	6541.4	6554.9
10°	6126.6	6126.6	6167.2	6221.3	6352.0	6410.7	6527.9	6631.6	6762.3	6852.5	6816.4
12.5°	6212.3	6225.8	6225.8	6365.6	6473.8	6604.5	6712.7	6852.5	7037.3	7145.5	7199.6
15°	6297.9	6307.0	6352.0	6541.4	6703.7	6911.1	7010.2	7136.5	7240.2	7443.0	7447.5
17.5°	6374.6	6424.2	6559.4	6771.3	6974.2	7172.5	7330.3	7461.1	7551.2	7632.4	7614.3
20°	6663.1	6699.2	6838.9	7050.8	7352.9	7546.7	7600.8	7623.4	7682.0	7844.3	7794.7
22.5°	6942.6	6956.1	7086.9	7411.5	7623.4	7880.3	7938.9	7925.4	7947.9	7988.5	8060.7
25°	7231.1	7253.7	7434.0	7709.0	8006.6	8313.1	8362.7	8259.0	8227.5	8272.5	8277.0
27.5°	7600.8	7605.3	7835.2	8074.2	8412.3	8700.8	8777.5	8696.3	8547.5	8583.6	8642.2
30°	8069.7	8038.1	8268.0	8610.6	8966.8	9129.1	9259.8	9219.3	9057.0	9025.4	8975.8
32.5°	8610.6	8619.7	8827.0	9201.2	9435.6	9706.1	9845.9	9778.3	9674.6	9620.5	9652.0
35°	9372.5	9413.1	9552.9	9863.9	10242.6	10377.9	10598.8	10454.5	10184.0	10251.6	10310.2
37.5°	9999.2	10116.4	10377.9	10747.5	10972.9	11220.9	11302.0	11108.2	10909.8	10828.7	11022.5
40°	10959.4	10923.4	11211.9	11581.5	11915.2	12163.1	12059.4	11865.6	11374.2	11378.7	11432.8
42.5°	11784.4	11802.5	12023.4	12465.2	12920.5	13073.8	12744.7	12271.3	11725.8	11667.2	11784.4
45°	12478.7	12550.8	12677.0	13267.6	13713.9	13880.7	13272.1	12713.1	11982.8	11739.3	11933.2
47.5°	12726.6	12843.8	13118.8	13659.8	14101.6	14236.9	13750.0	12947.5	12221.7	11825.0	11928.7
50°	12762.7	12722.1	13172.9	13668.8	14056.5	14349.6	13921.3	13118.8	12163.1	11955.7	11924.2
52.5°	11775.4	11973.8	12456.1	13136.9	13921.3	14390.2	14074.6	13213.5	12244.3	12009.8	11933.2
55°	9530.3	9295.9	10175.0	11320.1	12762.7	14065.6	14020.5	13263.1	12293.8	12100.0	11996.3
57.5°	5319.7	5387.3	5883.2	7127.5	8989.3	11153.3	12465.2	12740.2	12271.3	12158.6	12212.7
60°	2461.5	2484.0	2695.9	3277.5	4431.6	6325.0	8051.6	9805.3	10612.3	10774.6	10774.6
62.5°	1834.8	1825.8	1879.9	1983.6	2227.0	2907.8	3881.6	5274.6	6383.6	7159.0	7361.9
65°	1659.0	1654.5	1681.6	1717.6	1735.7	1830.3	2046.7	2475.0	2835.7	3043.0	3007.0
67.5°	1451.6	1447.1	1456.1	1478.7	1510.2	1559.8	1613.9	1704.1	1830.3	1821.3	1798.8
70°	1172.1	1172.1	1185.7	1203.7	1239.8	1298.4	1361.5	1424.6	1532.8	1555.3	1550.8
72.5°	865.6	852.0	879.1	915.2	951.2	1023.4	1091.0	1149.6	1226.2	1248.8	1239.8
75°	550.0	559.0	577.0	617.6	680.7	730.3	802.5	852.0	901.6	919.7	924.2
77.5°	306.6	315.6	347.1	396.7	459.8	513.9	577.0	617.6	649.2	653.7	658.2
80°	184.8	189.3	220.9	266.0	320.1	378.7	428.3	468.9	495.9	482.4	477.9
82.5°	112.7	117.2	144.3	184.8	229.9	275.0	329.1	365.2	392.2	374.2	356.1
85°	58.6	63.1	85.7	112.7	148.8	171.3	171.3	153.3	148.8	139.8	135.2
87.5°	18.0	18.0	22.5	27.0	22.5	27.0	31.6	36.1	36.1	40.6	36.1
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)