

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: P456749

Luminaire Tested: **GALN-SA8A-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38100 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

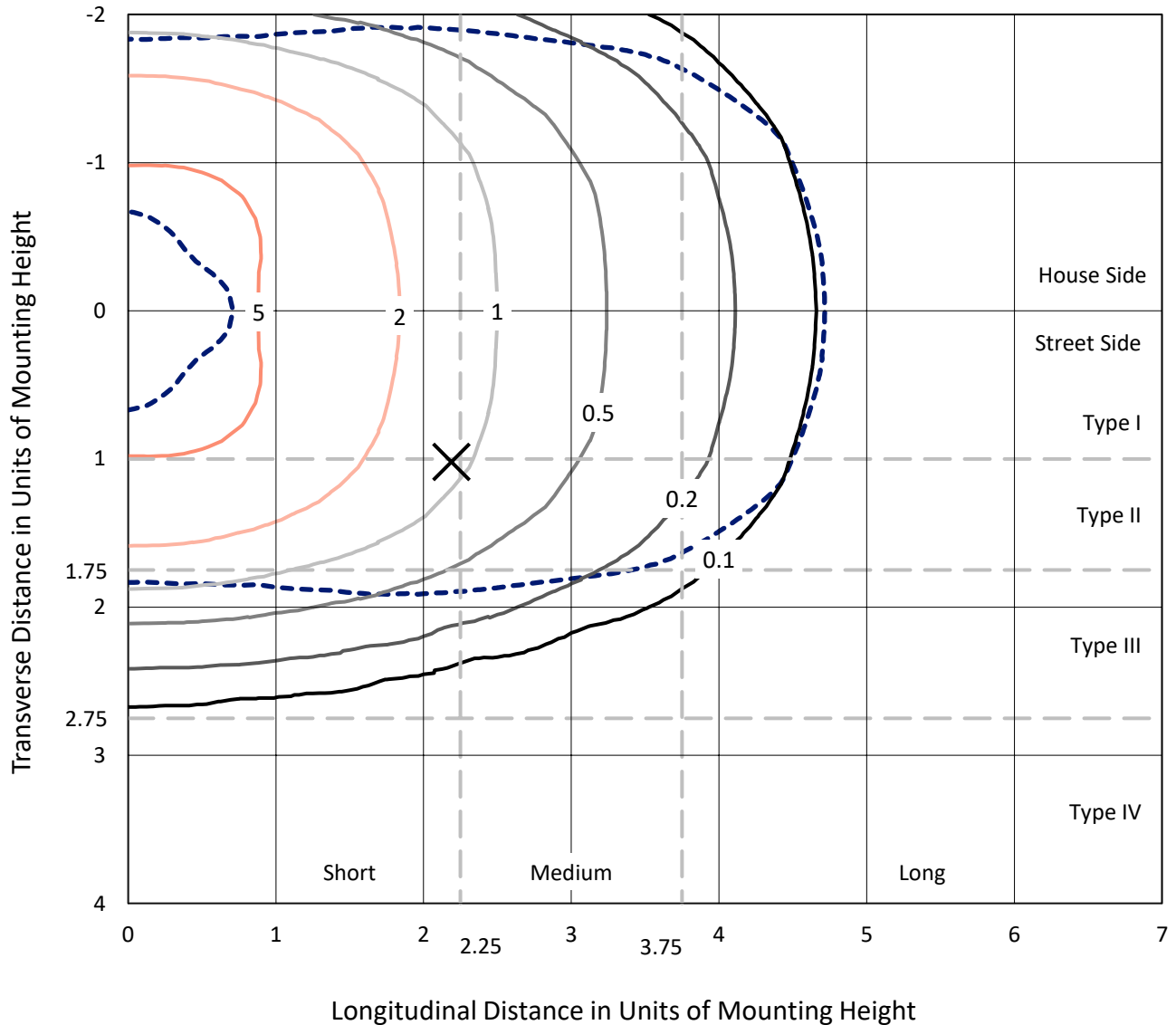
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

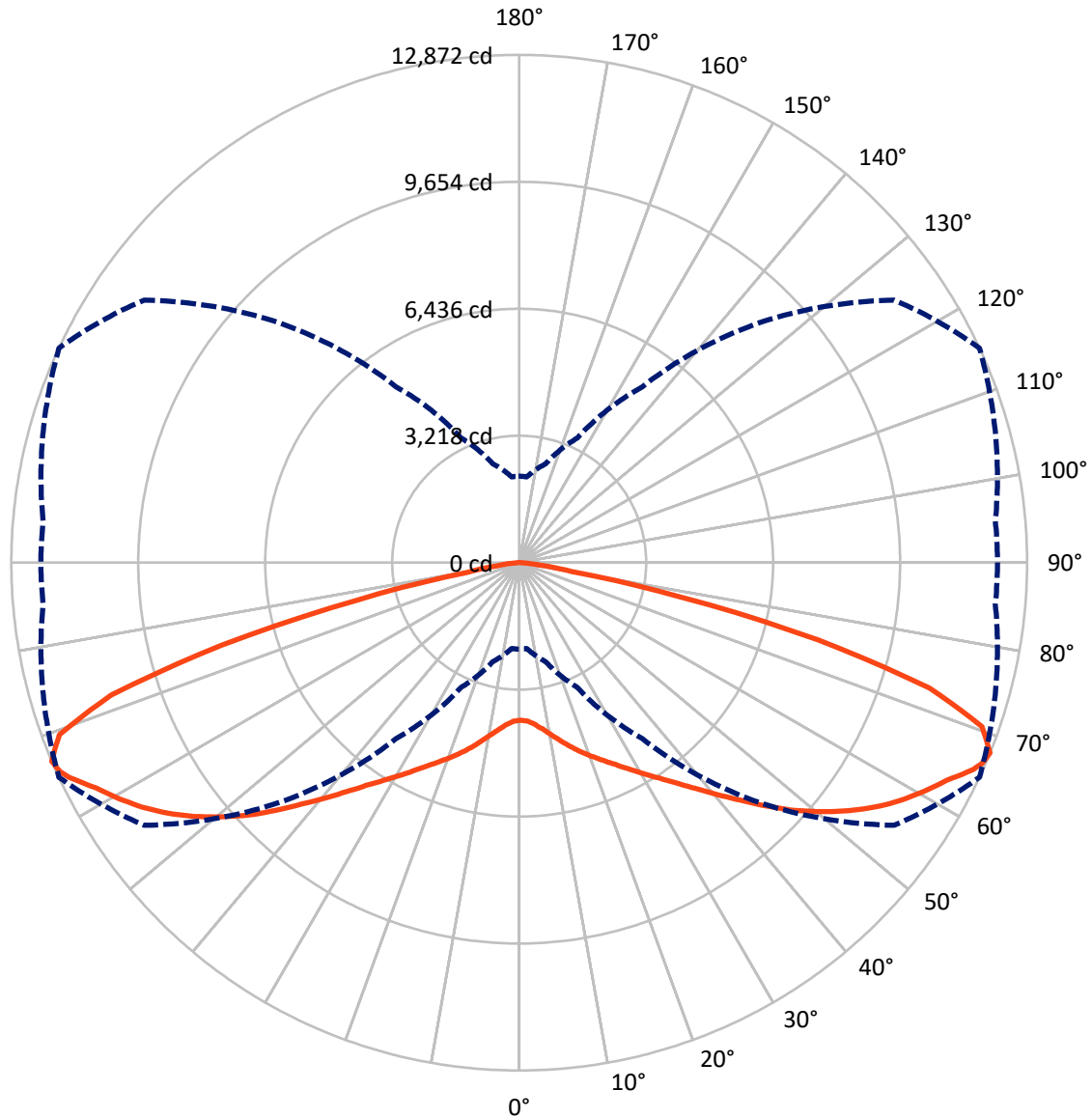
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19050.0	0.0	19050.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19050.0	0.0	19050.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38100.0	0.0	38100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.6	1.0
10°-20°	1317.3	3.5
20°-30°	2576.7	6.8
30°-40°	4382.7	11.5
40°-50°	6936.4	18.2
50°-60°	9197.6	24.1
60°-70°	8676.1	22.8
70°-80°	4289.1	11.3
80°-90°	330.5	0.9
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°	38100.0	100.0
0°-180°	38100.0	100.0

Coefficient of Utilization



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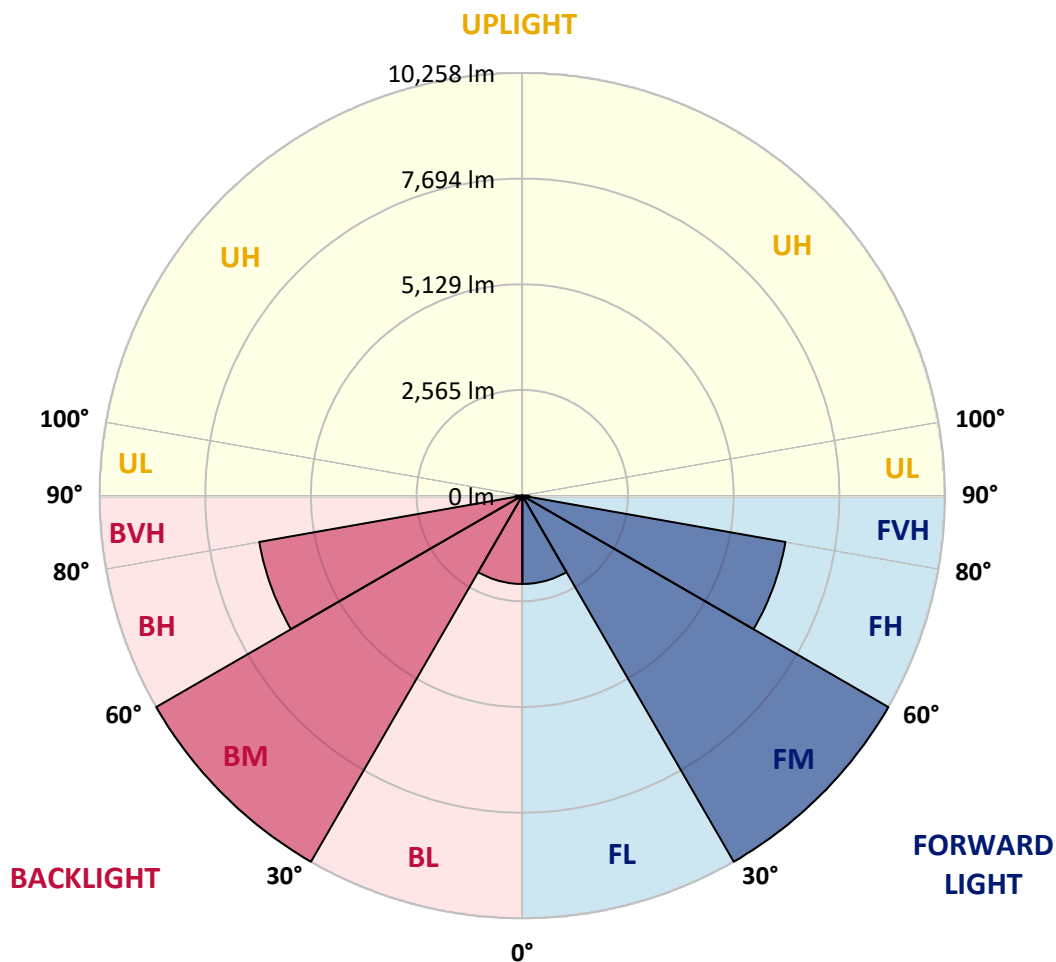
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2143.8	5.6			
FM	(30°-60°)	10258.3	26.9			
FH	(60°-80°)	6482.6	17.0			G3/7500
FVH	(80°-90°)	165.3	0.4			G2/225
BL	(0°-30°)	2143.8	5.6	B3/2500		
BM	(30°-60°)	10258.3	26.9	B5		
BH	(60°-80°)	6482.6	17.0	B5		G5
BVH	(80°-90°)	165.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3990.6	3990.6	3990.6	3990.6	3990.6	3990.6	3990.6	3990.6	3990.6	3990.6	3990.6
2.5°	3970.2	3974.3	3978.4	3984.5	3992.7	4004.9	4013.1	4019.2	4035.5	4037.6	4035.5
5°	3955.9	3960.0	3970.2	3988.6	4015.1	4051.9	4080.5	4115.2	4141.7	4160.1	4156.0
7.5°	3953.9	3962.1	3978.4	4017.2	4068.2	4131.5	4196.8	4256.0	4307.0	4347.9	4341.7
10°	3986.6	3996.8	4023.3	4080.5	4160.1	4251.9	4343.8	4431.5	4505.0	4558.1	4576.5
12.5°	4041.7	4049.8	4098.8	4184.6	4298.9	4413.2	4517.3	4625.5	4727.5	4817.3	4817.3
15°	4137.6	4151.9	4213.1	4337.7	4478.5	4611.2	4717.3	4831.6	4941.9	5043.9	5074.5
17.5°	4270.3	4290.7	4382.6	4541.8	4721.4	4843.9	4943.9	5037.8	5133.7	5231.7	5246.0
20°	4452.0	4472.4	4594.8	4786.7	4999.0	5146.0	5213.3	5235.8	5282.7	5376.6	5388.9
22.5°	4699.0	4719.4	4856.1	5072.5	5309.3	5468.5	5497.1	5444.0	5431.8	5505.2	5513.4
25°	4978.6	4997.0	5154.1	5386.9	5631.8	5805.3	5797.1	5666.5	5593.0	5637.9	5650.2
27.5°	5293.0	5319.5	5478.7	5719.6	5984.9	6138.0	6113.5	5923.7	5766.5	5758.4	5762.4
30°	5695.1	5723.7	5874.7	6105.4	6366.7	6507.5	6456.5	6201.3	5958.4	5876.8	5876.8
32.5°	6119.7	6191.1	6344.2	6585.1	6789.2	6891.3	6813.7	6507.5	6185.0	6070.7	6064.5
35°	6672.8	6711.6	6862.7	7097.4	7250.5	7330.1	7181.1	6852.5	6481.0	6346.2	6327.9
37.5°	7213.8	7246.4	7422.0	7646.5	7832.3	7828.2	7626.1	7262.8	6848.4	6697.3	6685.1
40°	7766.9	7801.6	8001.7	8207.9	8393.6	8377.3	8132.3	7726.1	7285.2	7115.8	7148.4
42.5°	8246.6	8285.4	8512.0	8805.9	8973.3	8969.2	8685.5	8228.3	7769.0	7617.9	7646.5
45°	8683.5	8718.2	8981.5	9318.3	9563.2	9593.9	9283.6	8799.8	8328.3	8134.4	8142.5
47.5°	8991.7	9057.0	9332.6	9718.4	10051.1	10159.3	9855.1	9381.6	8838.6	8636.5	8648.8
50°	9226.4	9267.3	9567.3	10006.2	10426.7	10651.2	10406.3	9920.5	9348.9	9134.6	9163.2
52.5°	9255.0	9304.0	9630.6	10136.8	10675.7	11016.6	10896.2	10447.1	9869.4	9649.0	9710.2
55°	9022.3	9050.9	9440.8	10055.2	10773.7	11288.1	11318.7	10937.0	10365.5	10198.1	10238.9
57.5°	8358.9	8432.4	8926.4	9673.5	10639.0	11433.0	11635.1	11382.0	10867.6	10702.3	10767.6
60°	7270.9	7344.4	7840.4	8787.6	10130.7	11365.7	11896.4	11776.0	11322.8	11190.1	11224.8
62.5°	5697.1	5691.0	6305.4	7466.9	9120.3	11035.0	12090.3	12155.6	11771.9	11604.5	11657.6
65°	3692.6	3711.0	4305.0	5556.3	7595.5	10194.0	12133.2	12639.4	12212.8	11959.7	11998.5
66°	2970.0	3025.1	3529.3	4682.6	6817.8	9642.9	12004.6	12782.3	12347.5	12041.3	12059.7
67.5°	2192.3	2182.1	2596.5	3486.5	5444.0	8595.7	11602.5	12872.1	12500.6	12114.8	12123.0
70°	1251.3	1249.2	1396.2	1914.7	3200.7	6052.3	9779.6	12441.4	12810.9	12380.2	12357.7
72.5°	914.5	908.4	928.8	1057.4	1561.6	3055.7	6746.3	10873.7	12651.7	12337.3	12274.0
75°	767.5	763.4	759.3	775.7	875.7	1384.0	3580.3	7822.1	10977.8	11580.0	11514.7
77.5°	626.7	626.7	628.7	624.6	628.7	728.7	1484.0	4192.7	6685.1	7462.8	7644.5
80°	489.9	487.9	522.6	508.3	475.6	467.4	657.3	1349.3	2218.8	2206.6	1820.8
82.5°	361.3	336.8	398.0	387.8	351.1	298.0	383.8	575.6	741.0	481.7	357.2
85°	228.6	226.6	281.7	257.2	214.3	140.8	183.7	247.0	306.2	185.8	151.1
87.5°	40.8	38.8	89.8	65.3	65.3	40.8	51.0	67.4	100.0	69.4	51.0
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)