

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: P650887

Luminaire Tested: **GALN-SA5C-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26669.8 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

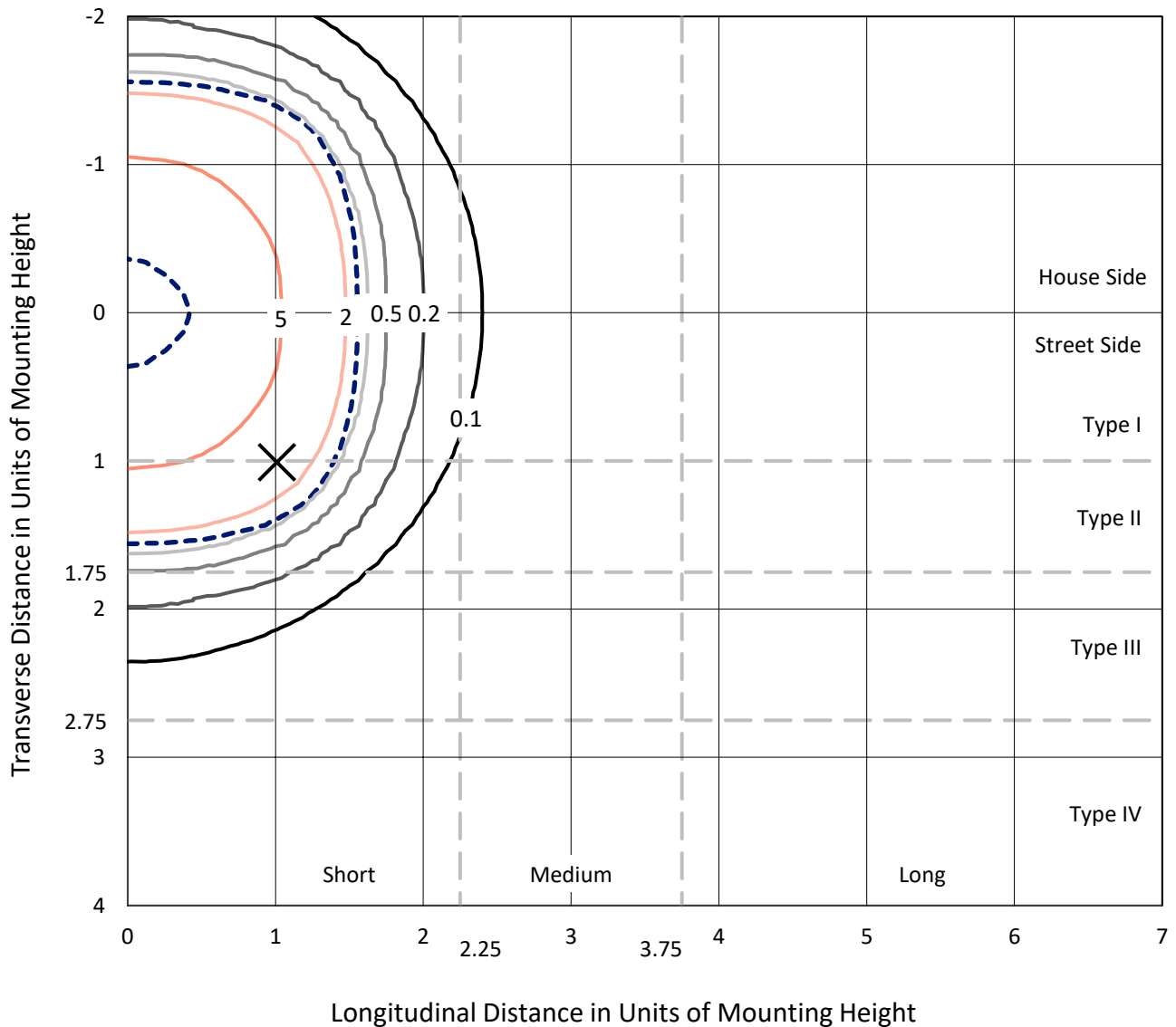
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

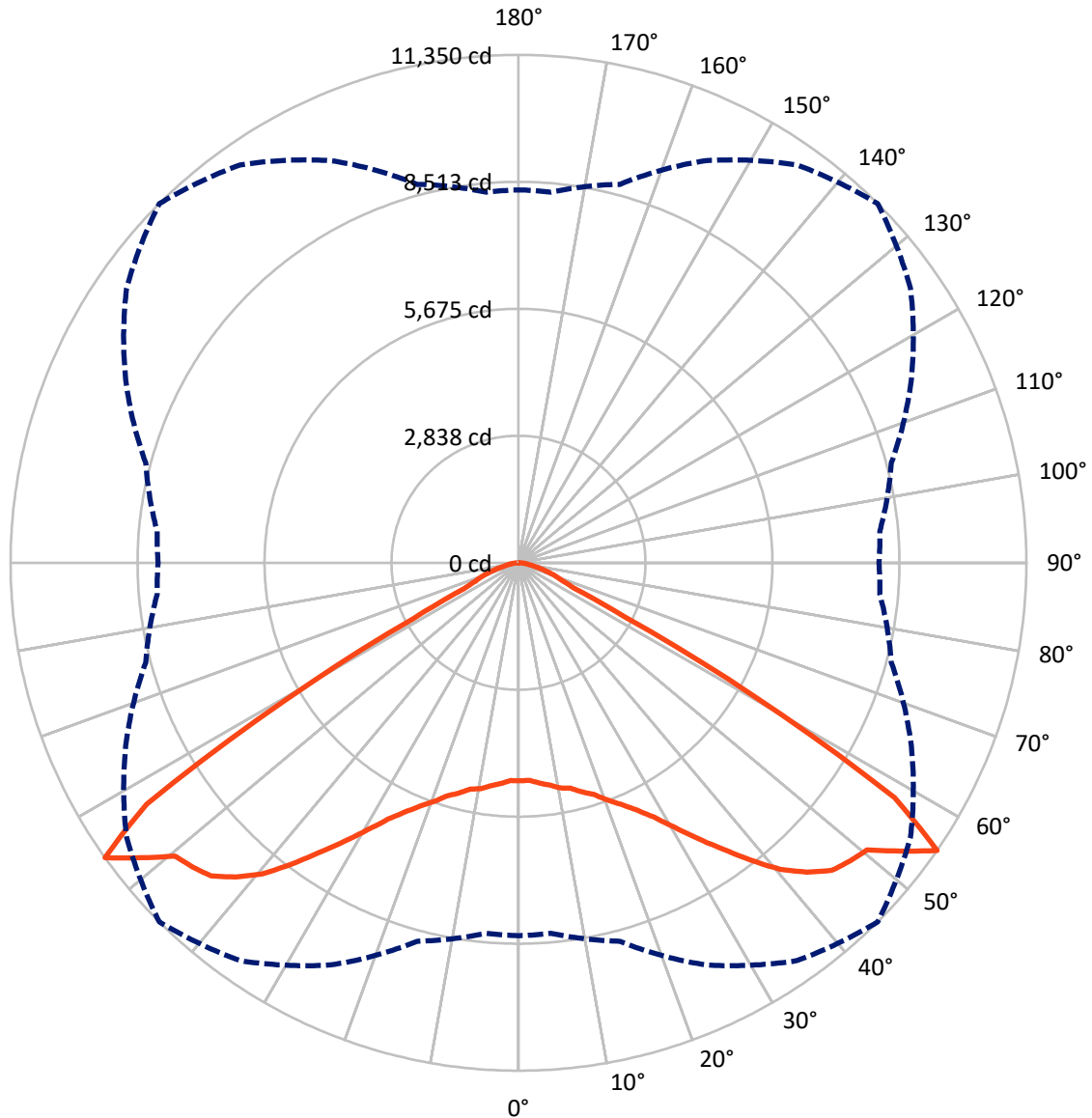
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13334.9	0.0	13334.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13334.9	0.0	13334.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	26669.8	0.0	26669.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.7	1.8
10°-20°	1507.3	5.7
20°-30°	2810.6	10.5
30°-40°	4705.8	17.6
40°-50°	7322.6	27.5
50°-60°	7603.2	28.5
60°-70°	1612.4	6.0
70°-80°	531.0	2.0
80°-90°	101.1	0.4
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°	26669.8	100.0
0°-180°	26669.8	100.0

Coefficient of Utilization

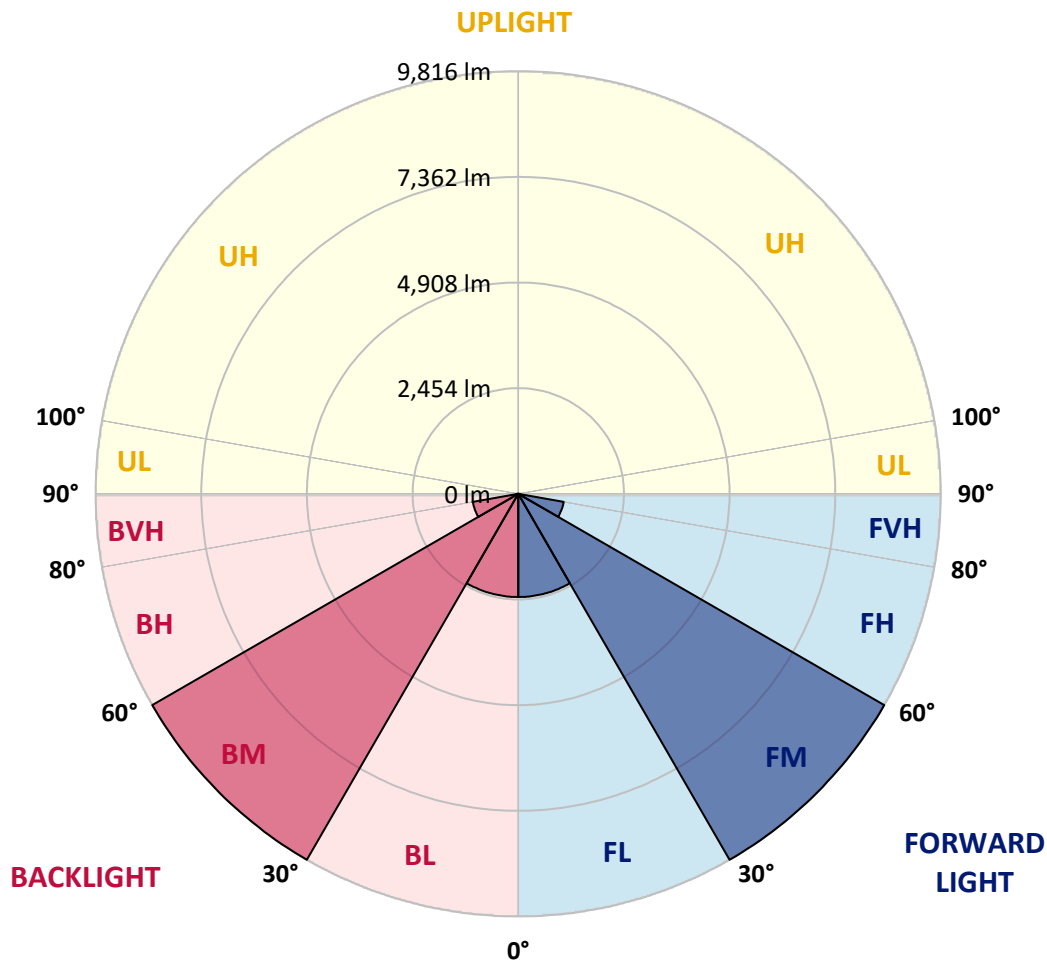


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2396.8	9.0			
FM (30°-60°)	9815.8	36.8			
FH (60°-80°)	1071.7	4.0			G1/1800
FVH (80°-90°)	50.6	0.2			G1/100
BL (0°-30°)	2396.8	9.0	B3/2500		
BM (30°-60°)	9815.8	36.8	B5		
BH (60°-80°)	1071.7	4.0	B3/2500		G1/1800
BVH (80°-90°)	50.6	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4869.5	4869.5	4869.5	4869.5	4869.5	4869.5	4869.5	4869.5	4869.5	4869.5	4869.5
2.5°	4927.5	4905.0	4866.3	4895.3	4917.8	4869.5	4888.8	4898.5	4892.1	4866.3	4875.9
5°	4998.4	4985.5	4953.3	4975.9	4946.8	4946.8	4927.5	4901.8	4940.4	4934.0	4950.0
7.5°	4998.4	4982.3	5046.8	5004.9	5017.7	5017.7	4985.5	4959.7	4979.1	4950.0	4934.0
10°	5098.3	5120.8	5091.8	5101.5	5095.1	5117.7	5069.3	5053.2	5037.1	5027.4	5008.1
12.5°	5217.6	5201.4	5211.1	5204.7	5227.2	5169.2	5140.2	5104.8	5133.8	5091.8	5120.8
15°	5314.3	5304.6	5314.3	5340.0	5317.5	5314.3	5262.6	5227.2	5182.1	5191.7	5146.7
17.5°	5446.4	5436.7	5439.9	5462.5	5459.3	5443.1	5404.4	5336.8	5320.7	5294.9	5265.9
20°	5642.9	5626.9	5620.4	5630.1	5646.1	5659.1	5581.7	5556.0	5501.1	5459.3	5410.9
22.5°	5810.6	5804.1	5829.9	5788.0	5823.4	5862.1	5788.0	5775.1	5639.7	5617.2	5565.6
25°	6042.6	6032.9	6016.8	6078.0	6120.0	6116.7	6045.8	5974.9	5871.8	5846.0	5846.0
27.5°	6287.5	6232.7	6316.5	6332.6	6406.7	6429.3	6368.1	6264.9	6168.2	6113.5	6126.3
30°	6593.7	6542.1	6561.4	6677.5	6774.1	6857.9	6703.2	6551.7	6416.4	6319.7	6303.6
32.5°	6899.8	6848.3	6906.3	7019.1	7212.4	7338.1	7186.6	6922.4	6764.4	6622.6	6651.6
35°	7148.0	7186.6	7280.1	7450.9	7650.7	7853.8	7612.1	7409.0	7183.4	7025.5	7048.1
37.5°	7547.6	7666.8	7740.9	7937.5	8221.1	8430.6	8179.2	7915.0	7673.3	7467.0	7396.1
40°	8069.6	8150.2	8234.0	8466.0	8801.2	9010.6	8772.2	8427.4	8188.9	7976.2	7966.5
42.5°	8643.3	8720.7	8807.6	9091.2	9291.0	9449.0	9229.8	9046.1	8781.9	8614.3	8604.6
45°	9310.4	9255.6	9352.3	9539.2	9706.8	9809.9	9668.1	9577.9	9387.7	9233.1	9216.9
47.5°	9755.1	9706.8	9880.8	10048.4	10074.2	9961.4	9990.4	10074.2	9874.3	9619.8	9700.3
50°	10012.9	10012.9	10128.9	10283.7	10235.3	10090.3	10319.1	10325.5	10125.7	9900.2	9900.2
52.5°	9564.9	9664.9	9993.6	10499.5	10660.7	10702.6	10651.0	10431.9	9909.8	9449.0	9426.4
55°	8333.9	8311.4	8756.1	9916.2	10854.0	11350.4	10692.9	9684.2	8624.0	8105.1	8053.5
57.5°	5420.6	5446.4	6110.3	7293.0	8984.9	9909.8	8801.2	7383.2	6110.3	5394.8	5462.5
60°	2439.6	2526.6	2929.5	3812.4	5265.9	6020.0	5278.8	4005.9	3074.4	2668.4	2703.8
62.5°	1401.9	1418.0	1434.1	1701.6	2243.0	2652.3	2330.0	1798.3	1585.5	1514.6	1514.6
65°	1182.7	1173.0	1176.3	1198.8	1256.9	1340.6	1305.2	1256.9	1263.3	1256.9	1247.2
67.5°	1005.5	1018.4	1008.7	1024.8	1028.0	1040.9	1063.5	1082.8	1086.1	1092.5	1086.1
70°	825.0	828.2	834.7	847.6	850.8	860.4	892.7	908.8	918.5	918.5	931.3
72.5°	631.7	628.4	634.9	647.7	663.9	667.1	696.1	718.6	731.6	715.4	718.6
75°	415.7	419.0	428.7	438.3	460.9	483.4	493.1	515.6	518.9	525.3	509.2
77.5°	248.2	254.6	264.2	283.6	302.9	322.3	344.8	361.0	367.3	361.0	341.6
80°	161.1	161.1	174.0	190.2	212.7	228.8	241.7	254.6	264.2	254.6	248.2
82.5°	99.9	99.9	116.1	135.3	151.5	161.1	180.5	196.6	206.2	199.8	190.2
85°	51.6	54.7	67.7	83.8	96.7	103.1	99.9	90.2	80.6	77.4	70.9
87.5°	16.1	16.1	19.3	19.3	16.1	16.1	19.3	16.1	19.3	19.3	19.3
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)