

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: P652041

Luminaire Tested: **GALN-SA8A-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21334.5 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

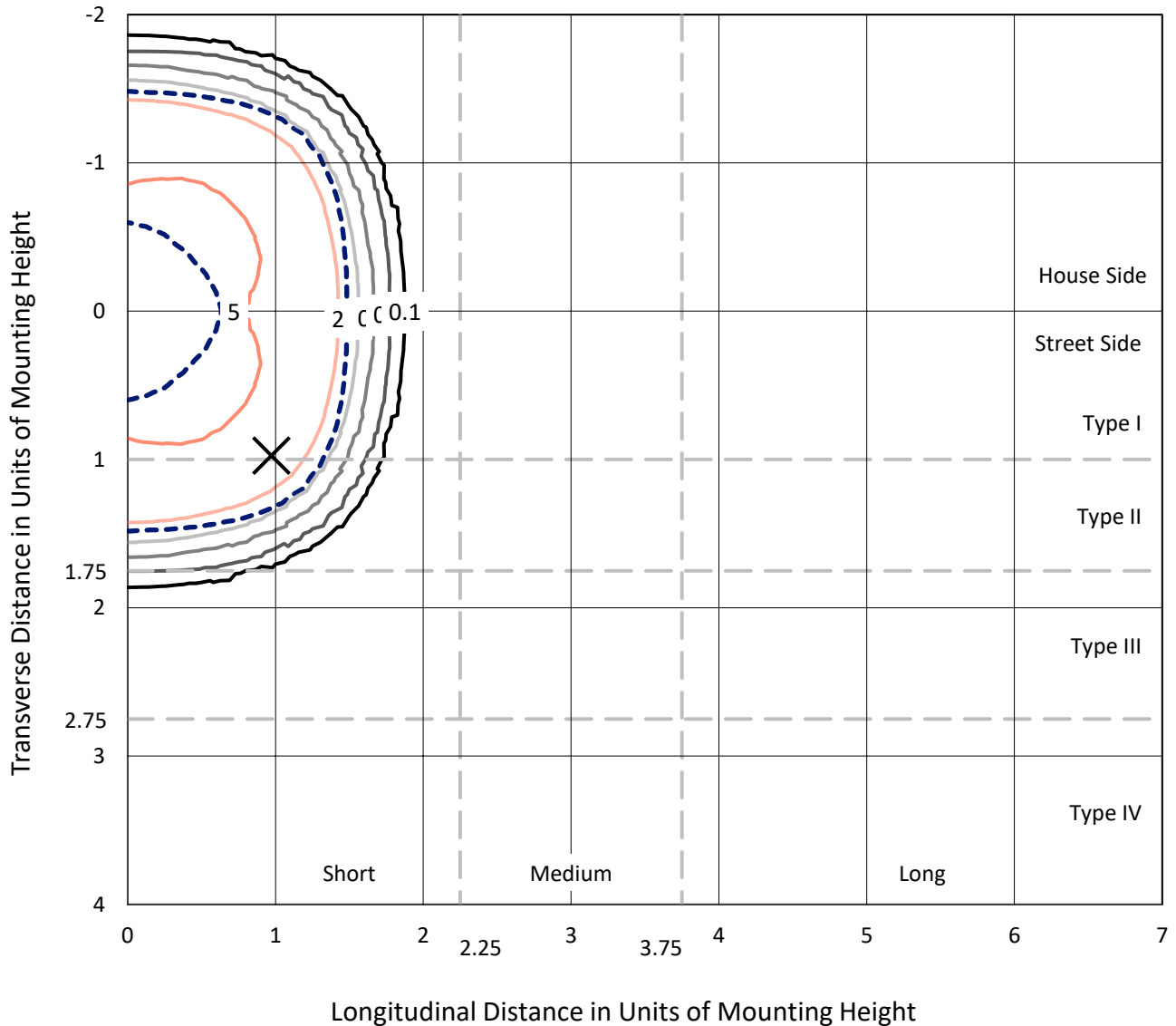
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

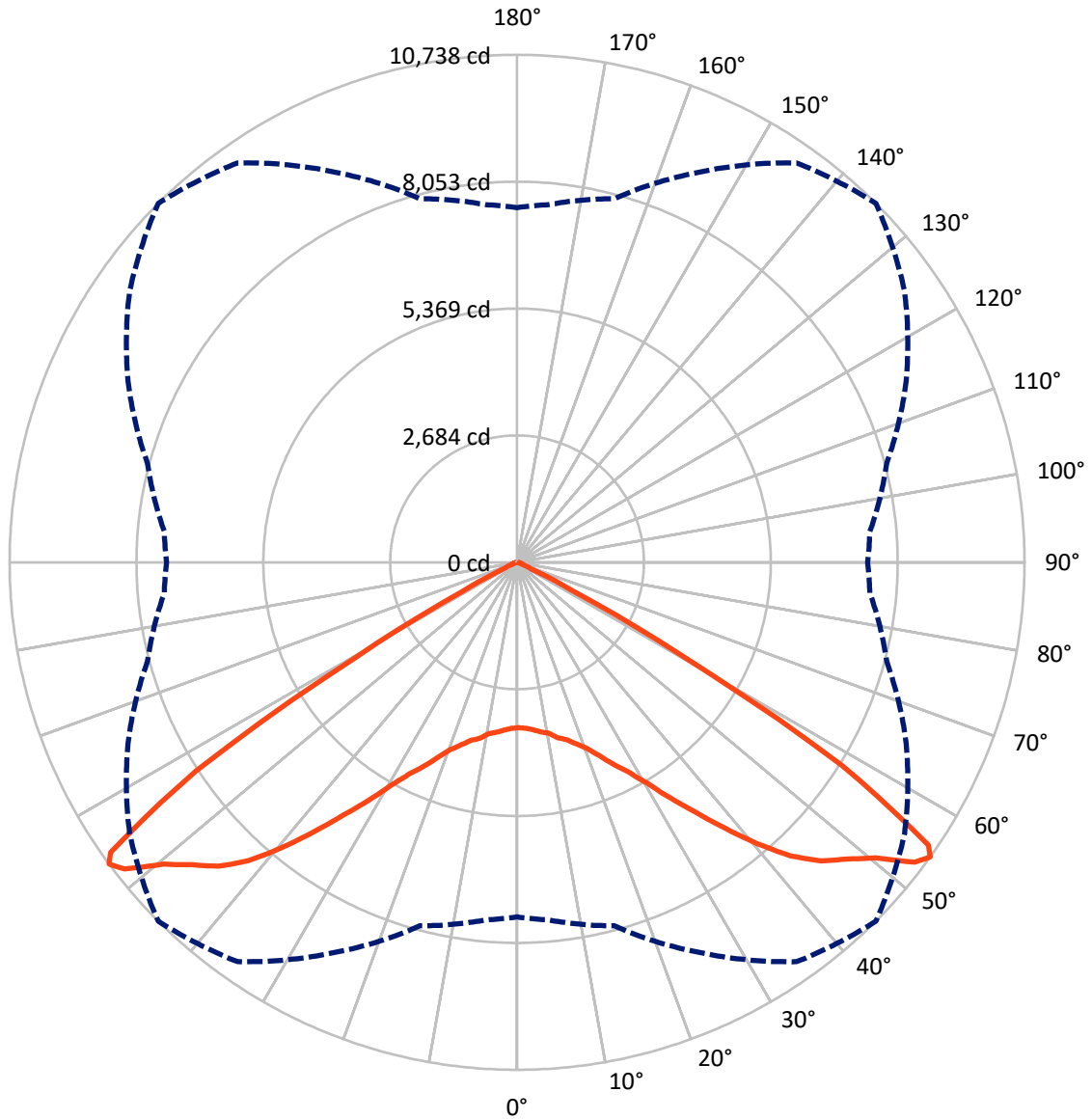
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10667.3	0.0	10667.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10667.3	0.0	10667.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	21334.5	0.0	21334.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.4	1.6
10°-20°	1108.8	5.2
20°-30°	2173.2	10.2
30°-40°	3907.8	18.3
40°-50°	6689.4	31.4
50°-60°	6472.6	30.3
60°-70°	554.1	2.6
70°-80°	65.7	0.3
80°-90°	20.6	0.1
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°	21334.5	100.0
0°-180°	21334.5	100.0

Coefficient of Utilization



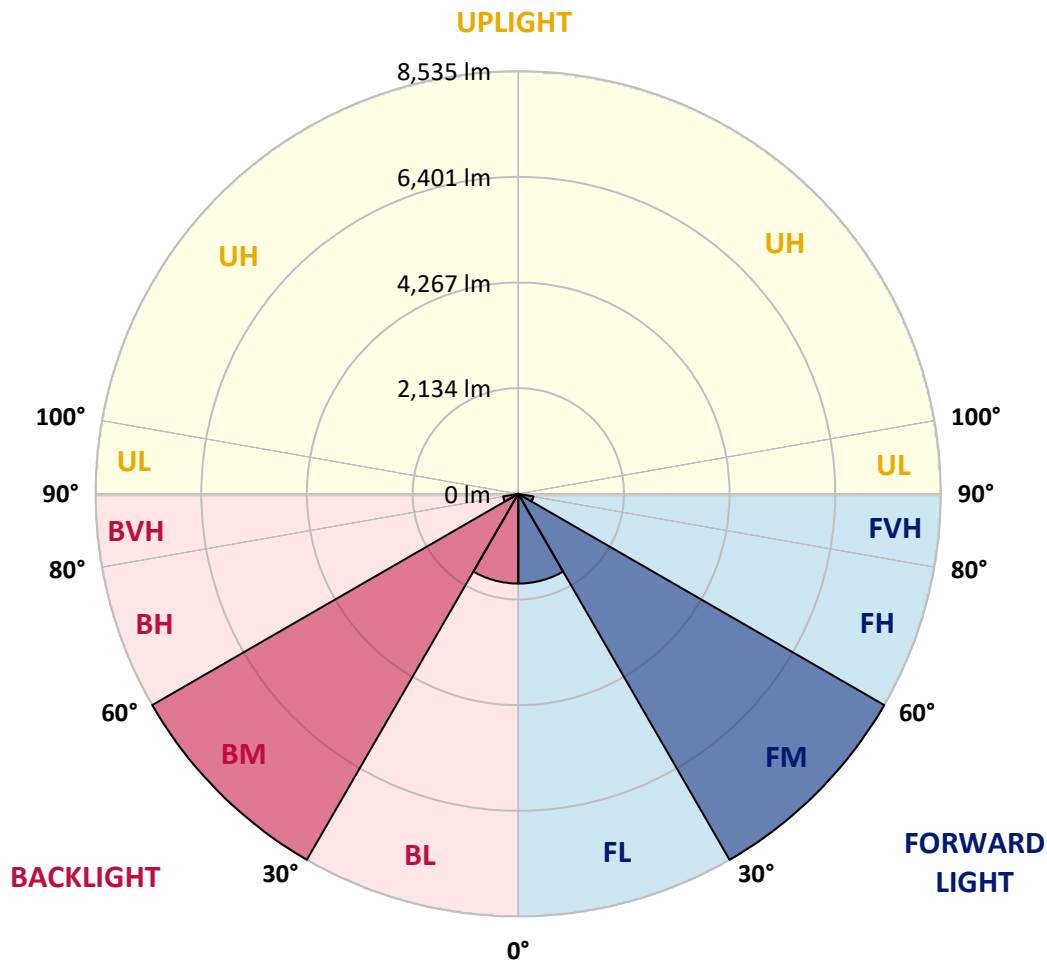
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1812.2	8.5			
FM (30°-60°)	8534.9	40.0			
FH (60°-80°)	309.9	1.5			G0/660
FVH (80°-90°)	10.3	0.0			G1/100
BL (0°-30°)	1812.2	8.5	B3/2500		
BM (30°-60°)	8534.9	40.0	B5		
BH (60°-80°)	309.9	1.5	B1/500		G0/660
BVH (80°-90°)	10.3	0.0			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°	3498.2	3498.2	3498.2	3498.2	3498.2	3498.2	3498.2	3498.2	3498.2	3498.2	3498.2
2.5°	3515.1	3535.4	3521.9	3532.0	3532.0	3515.1	3525.2	3484.7	3511.7	3491.4	3494.8
5°	3569.2	3565.8	3565.8	3569.2	3555.7	3562.4	3548.9	3535.4	3525.2	3511.7	3552.3
7.5°	3636.7	3636.7	3613.1	3619.8	3613.1	3623.3	3596.2	3569.2	3559.0	3548.9	3542.1
10°	3701.0	3694.3	3684.1	3714.5	3690.8	3677.4	3663.8	3646.9	3609.7	3596.2	3582.7
12.5°	3795.6	3792.2	3778.7	3809.1	3795.6	3809.1	3758.4	3714.5	3707.7	3663.8	3687.4
15°	3907.1	3937.6	3913.9	3913.9	3907.1	3890.3	3869.9	3849.7	3788.9	3772.0	3775.3
17.5°	4052.5	4042.4	4045.7	4045.7	4079.5	4035.6	3995.0	3944.4	3913.9	3903.8	3869.9
20°	4191.0	4204.6	4201.2	4224.8	4245.1	4197.9	4153.9	4147.1	4062.6	4076.2	4028.8
22.5°	4434.4	4424.2	4441.2	4458.1	4444.6	4437.8	4397.3	4346.5	4272.2	4238.4	4231.7
25°	4691.3	4674.4	4644.0	4684.5	4704.8	4735.3	4657.5	4630.5	4515.6	4464.9	4468.2
27.5°	4911.0	4934.7	4968.5	4985.4	5036.1	5025.9	4971.8	4883.9	4796.1	4738.6	4701.4
30°	5211.8	5225.3	5282.7	5306.5	5394.3	5418.0	5333.5	5232.1	5076.6	5002.3	4958.3
32.5°	5489.0	5583.6	5580.2	5698.5	5840.5	5938.5	5786.4	5630.9	5475.4	5387.5	5309.8
35°	5938.5	5921.6	6019.6	6144.7	6374.4	6486.0	6320.4	6141.2	5904.7	5762.7	5701.9
37.5°	6357.6	6364.4	6496.1	6695.5	6959.2	7131.6	6986.3	6692.2	6448.9	6266.3	6181.9
40°	6966.0	6979.5	7114.7	7341.2	7638.6	7824.5	7655.5	7358.0	7033.5	6891.6	6891.6
42.5°	7679.1	7736.6	7824.5	8020.5	8287.5	8493.7	8341.5	8108.3	7780.5	7598.0	7625.0
45°	8412.5	8439.6	8497.0	8787.7	8912.7	9014.2	8872.2	8764.1	8544.4	8321.3	8284.1
47.5°	9098.7	9108.8	9277.8	9369.1	9467.1	9382.6	9473.9	9331.9	9085.2	8868.8	8824.9
50°	9402.9	9386.0	9625.9	9903.1	9977.5	9828.8	9751.0	9656.4	9281.2	9020.9	8906.0
52.5°	8517.3	8615.4	9061.5	9832.1	10413.4	10538.5	10085.6	9649.6	8949.9	8443.0	8365.3
54°	7503.4	7594.7	7963.0	9105.4	10315.5	10737.9	10007.9	9081.8	8094.9	7493.2	7415.5
55°	6499.5	6398.2	7067.3	8233.4	9855.8	10562.2	9700.3	8348.4	7219.5	6668.5	6560.4
57.5°	3518.5	3535.4	4099.8	5201.7	6925.4	8098.2	7151.9	5647.8	4265.5	3646.9	3592.8
60°	1115.3	1142.4	1389.2	2102.3	3308.9	3951.1	3386.6	2267.9	1568.3	1257.3	1206.6
62.5°	348.1	361.6	395.4	588.1	905.8	1294.5	1014.0	608.4	452.9	415.7	422.5
65°	212.9	212.9	216.3	229.8	270.4	314.4	304.2	267.0	256.8	250.1	246.7
67.5°	138.6	135.2	142.0	152.1	158.9	162.2	172.4	182.5	179.1	172.4	172.4
70°	84.5	81.2	87.9	101.4	104.8	111.5	121.7	135.2	131.8	125.1	128.4
72.5°	47.3	47.3	50.7	60.8	71.0	77.7	87.9	98.0	101.4	98.0	98.0
75°	16.9	20.3	27.1	37.2	43.9	54.1	64.3	74.3	84.5	77.7	74.3
77.5°	6.7	6.7	13.5	23.6	33.8	43.9	60.8	71.0	77.7	71.0	64.3
80°	3.4	3.4	10.2	20.3	30.4	40.5	50.7	60.8	64.3	57.4	50.7
82.5°	3.4	3.4	10.2	20.3	30.4	37.2	54.1	60.8	67.6	60.8	50.7
85°	0.0	3.4	10.2	20.3	27.1	30.4	30.4	20.3	16.9	10.2	10.2
87.5°	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)