

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: P652483

Luminaire Tested: **GALN-SA7B-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34785.4 lumens
Efficiency: N/A
Efficacy: 121.6 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): 286
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

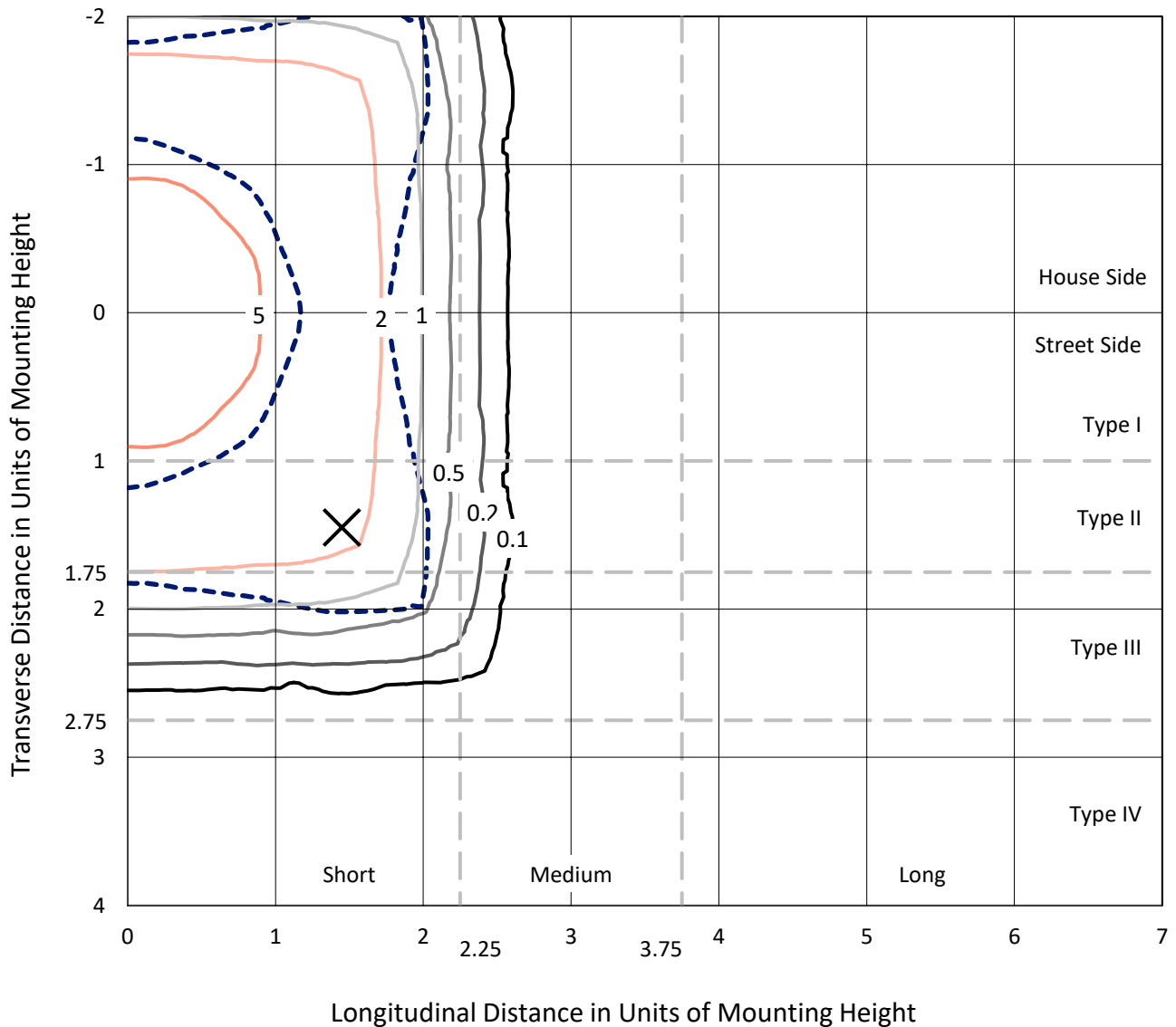




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Iso-Footcandle Lines of Horizontal Illumination

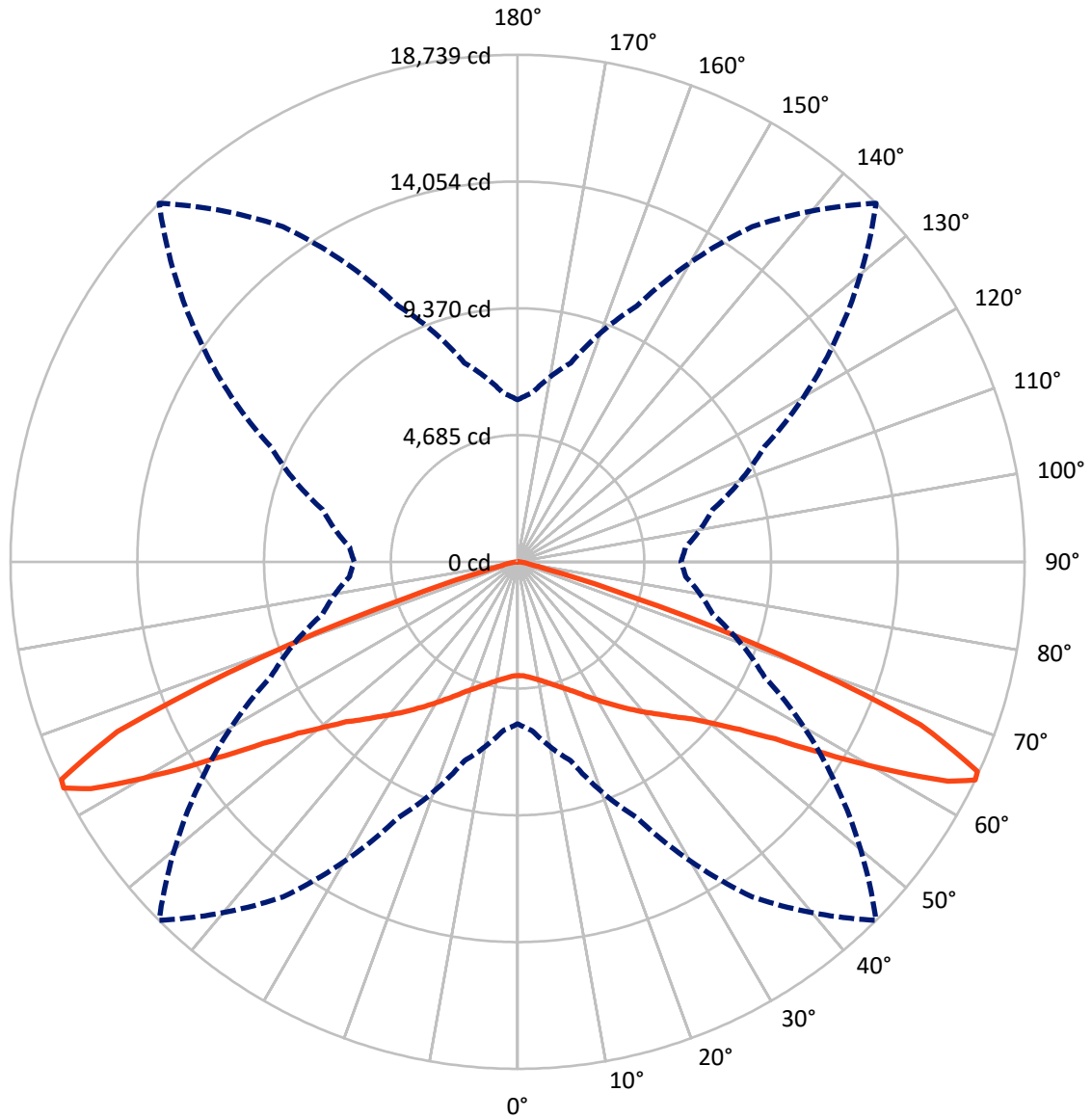
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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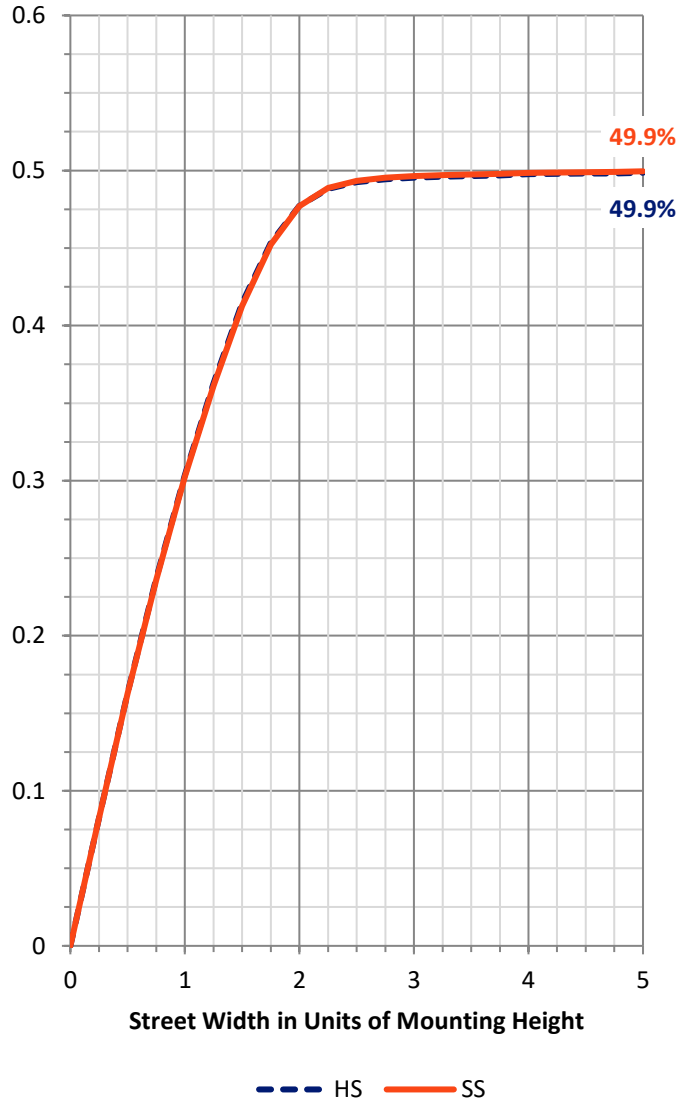
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17392.7	0.0	17392.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17392.7	0.0	17392.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	34785.4	0.0	34785.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.1	1.2
10°-20°	1332.4	3.8
20°-30°	2517.8	7.2
30°-40°	4169.7	12.0
40°-50°	6509.6	18.7
50°-60°	10063.8	28.9
60°-70°	8677.9	24.9
70°-80°	983.4	2.8
80°-90°	117.8	0.3
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°	34785.4	100.0
0°-180°	34785.4	100.0

Coefficient of Utilization

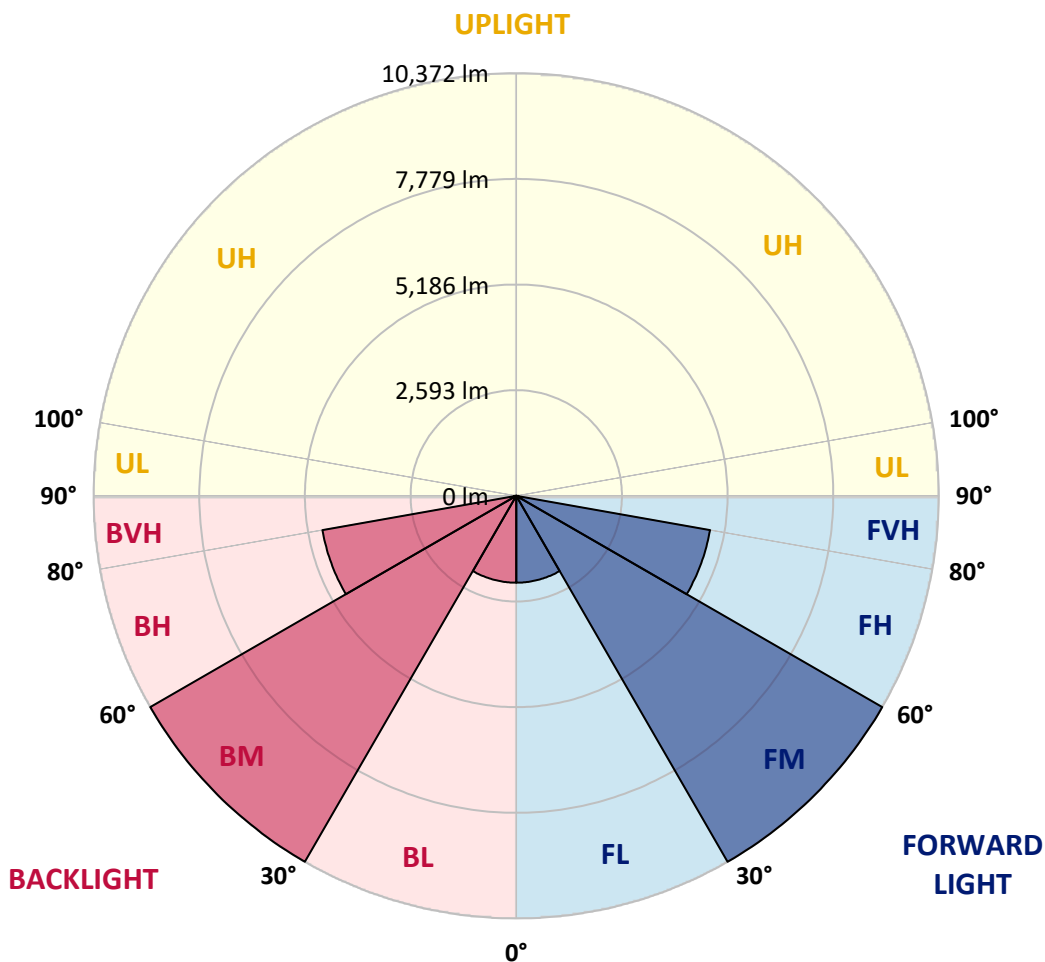


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2131.6	6.1			
FM (30°-60°)	10371.6	29.8			
FH (60°-80°)	4830.6	13.9			G2/5000
FVH (80°-90°)	58.9	0.2			G1/100
BL (0°-30°)	2131.6	6.1	B3/2500		
BM (30°-60°)	10371.6	29.8	B5		
BH (60°-80°)	4830.6	13.9	B4/5000		G2/5000
BVH (80°-90°)	58.9	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°	4204.4	4204.4	4204.4	4204.4	4204.4	4204.4	4204.4	4204.4	4204.4	4204.4	4204.4
2.5°	4221.0	4230.2	4222.8	4221.0	4219.1	4219.1	4219.1	4221.0	4228.4	4233.8	4230.2
5°	4274.4	4281.8	4278.1	4276.2	4274.4	4276.2	4272.6	4270.8	4276.2	4276.2	4274.4
7.5°	4340.7	4350.0	4346.3	4350.0	4351.8	4353.6	4344.4	4337.0	4335.2	4340.7	4337.0
10°	4431.1	4438.4	4440.2	4442.1	4445.8	4443.9	4432.8	4420.0	4418.1	4416.3	4414.4
12.5°	4532.3	4537.9	4539.7	4547.1	4552.6	4554.4	4541.6	4530.6	4512.0	4515.7	4508.4
15°	4646.6	4657.6	4655.8	4666.9	4681.6	4685.3	4672.3	4653.9	4637.4	4628.2	4622.6
17.5°	4786.6	4794.0	4790.3	4801.4	4819.8	4829.0	4817.9	4794.0	4777.4	4757.1	4746.1
20°	4952.4	4965.3	4969.0	4969.0	4985.6	4994.8	4978.2	4970.8	4945.1	4930.3	4921.1
22.5°	5140.4	5145.9	5156.9	5168.0	5184.6	5180.9	5175.3	5164.3	5140.4	5127.5	5112.7
25°	5352.2	5357.8	5385.4	5409.3	5414.9	5411.2	5403.8	5398.3	5376.2	5346.7	5335.6
27.5°	5599.1	5610.1	5647.1	5669.1	5669.1	5670.9	5656.2	5674.6	5626.8	5591.7	5588.0
30°	5908.6	5916.0	5947.3	5969.4	5958.4	5949.1	5945.5	5964.0	5912.3	5849.7	5834.9
32.5°	6214.5	6240.3	6267.9	6315.8	6277.1	6260.6	6256.9	6269.7	6210.8	6140.8	6120.5
35°	6542.5	6560.9	6612.4	6653.0	6618.0	6579.3	6595.9	6636.4	6566.4	6472.4	6468.7
37.5°	6905.4	6922.0	6988.3	7030.7	7004.9	6938.6	6966.2	7014.1	6944.1	6828.0	6804.0
40°	7283.1	7318.1	7401.0	7445.2	7402.8	7314.4	7366.0	7417.6	7355.0	7220.5	7167.0
42.5°	7706.8	7762.1	7881.9	7904.0	7822.9	7703.1	7793.5	7876.4	7832.1	7677.4	7657.1
45°	8202.4	8235.7	8383.0	8430.9	8318.5	8169.3	8281.7	8432.8	8399.6	8220.9	8182.2
47.5°	8757.0	8788.4	8941.3	9013.2	8871.3	8670.5	8873.1	9070.3	9050.0	8858.3	8839.9
50°	9412.9	9420.3	9632.1	9713.2	9571.4	9398.2	9578.7	9823.8	9742.7	9497.7	9494.0
52.5°	10131.4	10140.7	10407.9	10564.5	10485.3	10289.9	10503.7	10652.9	10446.6	10126.0	10102.0
55°	10754.2	10800.3	11165.0	11581.5	11690.2	11548.3	11612.8	11542.8	11034.3	10584.7	10514.7
57.5°	11008.4	11098.8	11653.3	12430.8	13138.3	13348.4	12850.9	12183.9	11268.2	10632.6	10564.5
60°	10387.6	10485.3	11345.6	12821.4	14627.0	15539.0	14140.6	12292.6	10735.8	9842.2	9735.3
62.5°	8318.5	8346.2	9611.9	11902.0	15494.8	17856.8	14684.1	11365.9	9186.3	7972.2	7929.8
64°	5986.0	6269.7	7611.0	10435.5	15115.2	18739.2	14370.9	10067.0	7461.8	6232.9	6033.9
65°	4477.1	4554.4	6135.3	8911.8	14446.4	18673.0	13762.9	8825.2	6179.5	4770.1	4549.0
67.5°	1691.3	1700.6	2264.3	4442.1	10284.4	16065.9	10503.7	4801.4	2603.3	1882.9	1814.8
70°	702.0	714.8	830.9	1494.2	4420.0	10315.7	5064.8	1731.9	952.5	772.0	760.9
72.5°	514.0	521.4	556.4	663.3	1359.7	4235.7	1665.5	735.1	558.3	499.3	493.8
75°	403.5	407.2	432.9	488.2	633.8	1173.6	692.7	504.9	425.6	383.2	379.5
77.5°	307.7	316.9	335.3	372.1	425.6	556.4	458.8	377.7	328.0	292.9	287.5
80°	211.8	222.9	257.9	272.7	285.6	361.1	313.2	285.6	256.1	213.7	200.8
82.5°	130.8	138.2	173.2	186.1	180.6	202.7	200.8	204.5	182.4	132.6	123.5
85°	68.2	71.8	93.9	97.6	90.2	82.9	103.2	119.8	112.4	75.5	73.7
87.5°	14.7	16.6	20.3	18.4	20.3	20.3	25.8	38.7	40.5	25.8	24.0
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)