

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: P455817

Luminaire Tested: **GALN-SA7A-740-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455817  
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-SA7A-740-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33242 lumens  
Efficiency: N/A  
Efficacy: 154.6 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

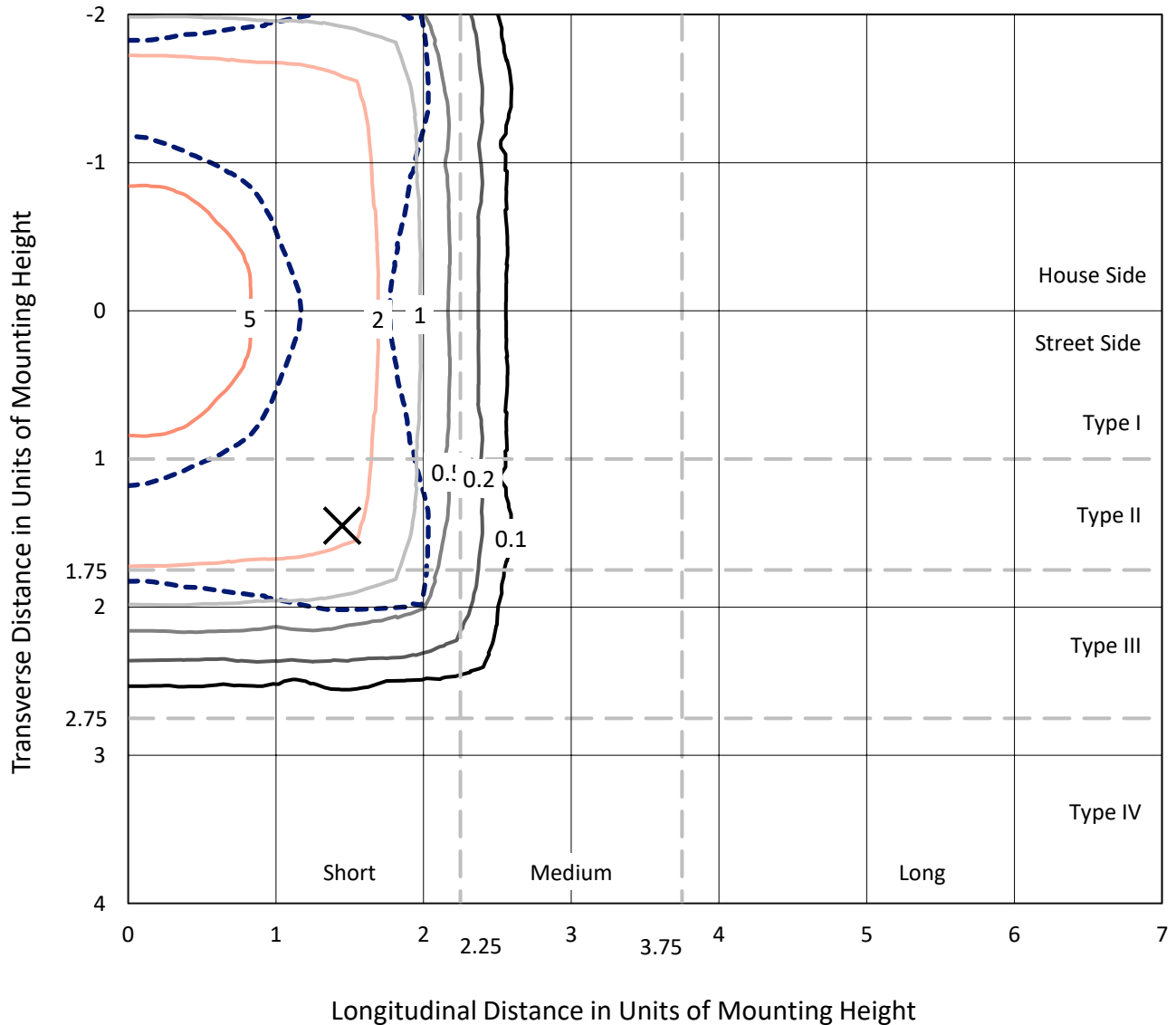
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

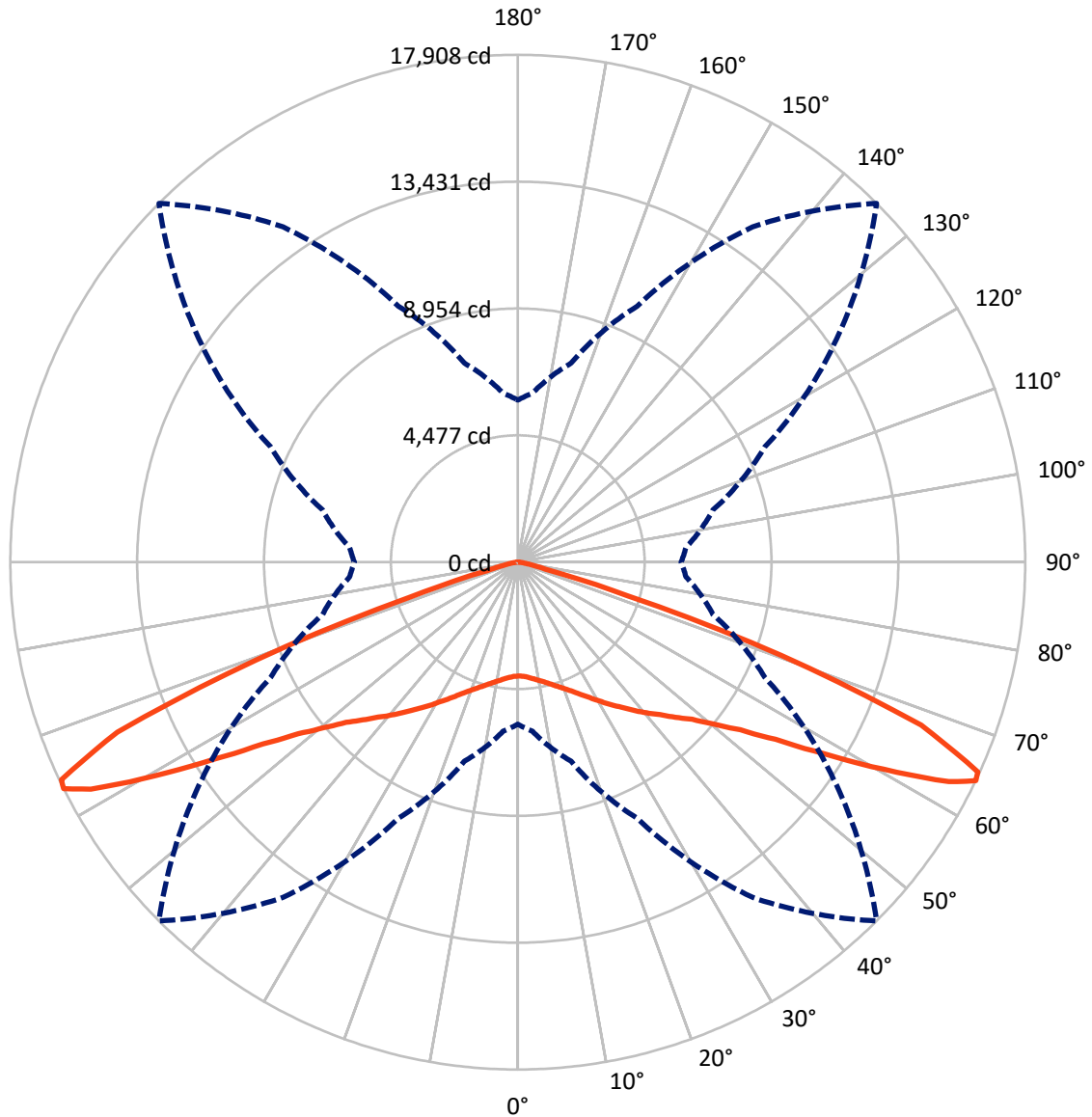
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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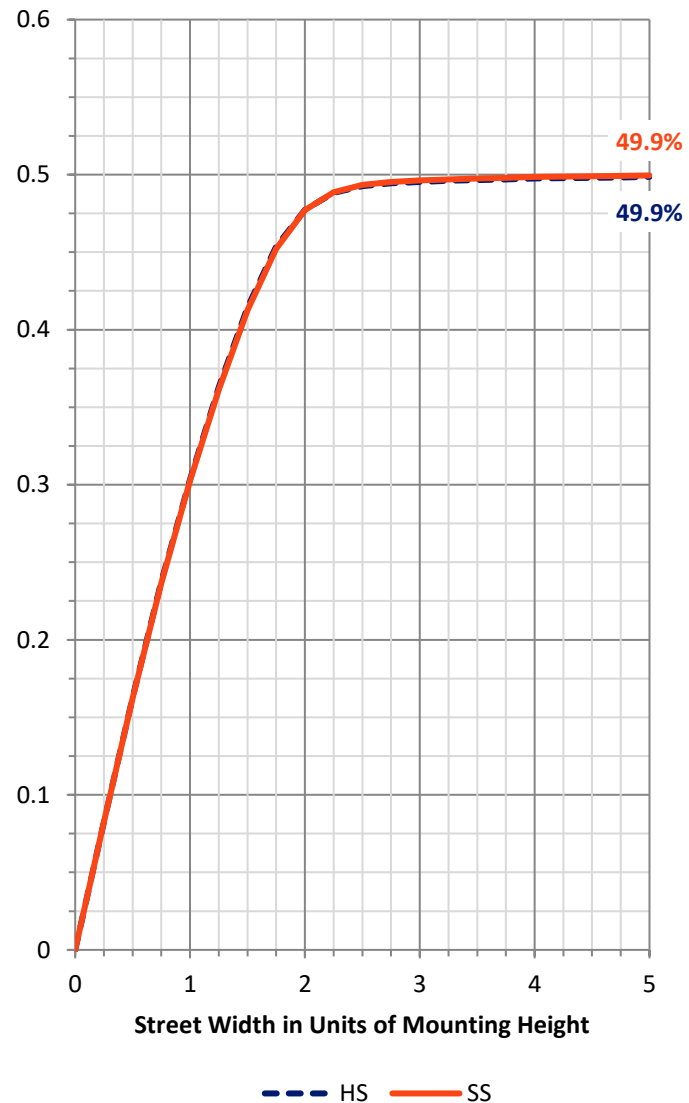
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16621.0	0.0	16621.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16621.0	0.0	16621.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33242.0	0.0	33242.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	394.7	1.2
10°-20°	1273.2	3.8
20°-30°	2406.1	7.2
30°-40°	3984.7	12.0
40°-50°	6220.8	18.7
50°-60°	9617.2	28.9
60°-70°	8292.8	24.9
70°-80°	939.8	2.8
80°-90°	112.6	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°	33242.0	100.0
0°-180°	33242.0	100.0



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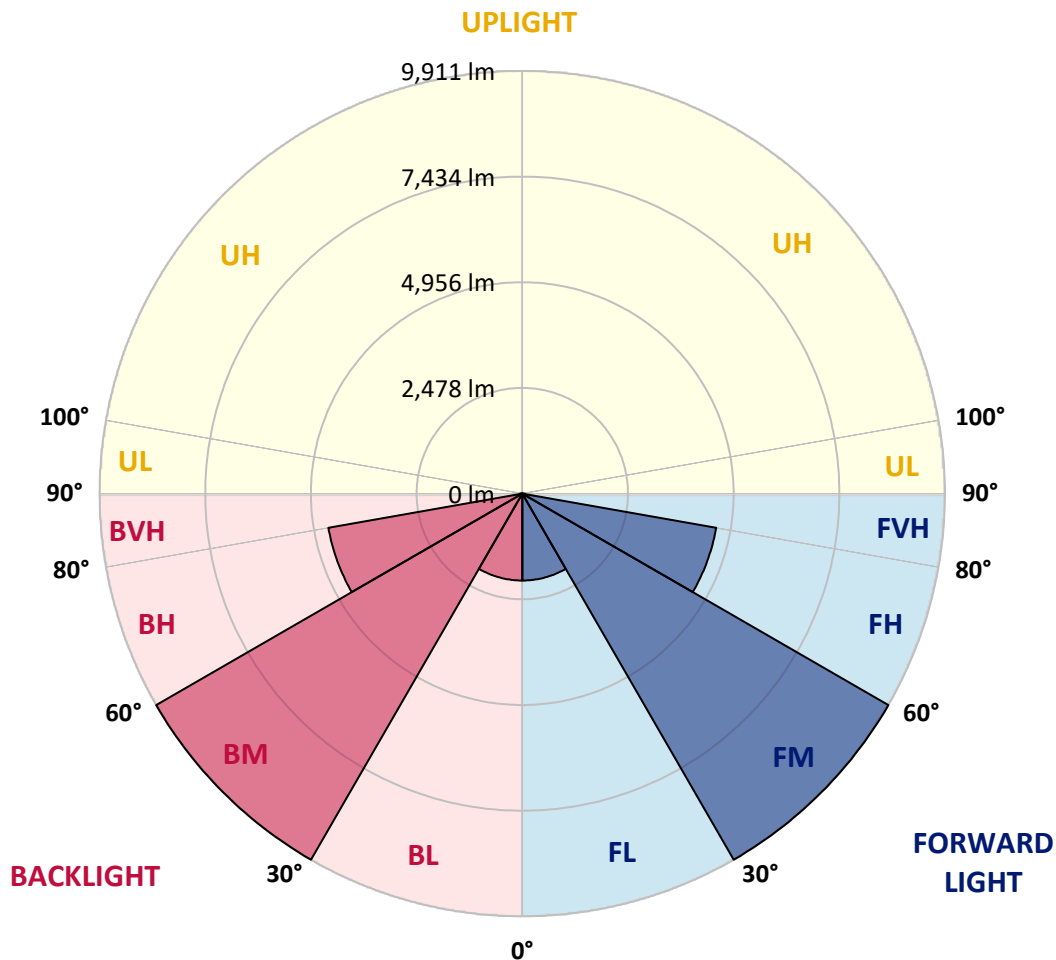
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2037.0	6.1			
FM	(30°-60°)	9911.4	29.8			
FH	(60°-80°)	4616.3	13.9			G2/5000
FVH	(80°-90°)	56.3	0.2			G1/100
BL	(0°-30°)	2037.0	6.1	B3/2500		
BM	(30°-60°)	9911.4	29.8	B5		
BH	(60°-80°)	4616.3	13.9	B4/5000		G2/5000
BVH	(80°-90°)	56.3	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°	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9
2.5°	4033.7	4042.5	4035.5	4033.7	4031.9	4031.9	4031.9	4033.7	4040.7	4046.0	4042.5
5°	4084.8	4091.8	4088.3	4086.5	4084.8	4086.5	4083.0	4081.2	4086.5	4086.5	4084.8
7.5°	4148.1	4156.9	4153.4	4156.9	4158.7	4160.5	4151.7	4144.6	4142.9	4148.1	4144.6
10°	4234.4	4241.5	4243.2	4245.0	4248.5	4246.7	4236.2	4223.9	4222.1	4220.3	4218.6
12.5°	4331.3	4336.5	4338.3	4345.3	4350.6	4352.4	4340.1	4329.5	4311.9	4315.4	4308.4
15°	4440.4	4451.0	4449.2	4459.8	4473.9	4477.4	4465.1	4447.5	4431.6	4422.8	4417.5
17.5°	4574.2	4581.3	4577.7	4588.3	4605.9	4614.7	4604.2	4581.3	4565.4	4546.1	4535.5
20°	4732.7	4745.0	4748.5	4748.5	4764.4	4773.2	4757.3	4750.3	4725.6	4711.6	4702.8
22.5°	4912.3	4917.6	4928.1	4938.7	4954.5	4951.0	4945.7	4935.2	4912.3	4900.0	4885.9
25°	5114.8	5120.0	5146.4	5169.3	5174.6	5171.1	5164.1	5158.8	5137.6	5109.5	5098.9
27.5°	5350.7	5361.2	5396.5	5417.6	5417.6	5419.3	5405.3	5422.9	5377.1	5343.6	5340.1
30°	5646.5	5653.5	5683.5	5704.6	5694.0	5685.2	5681.7	5699.3	5650.0	5590.1	5576.0
32.5°	5938.7	5963.4	5989.8	6035.6	5998.6	5982.8	5979.2	5991.6	5935.2	5868.3	5849.0
35°	6252.1	6269.8	6319.1	6357.8	6324.3	6287.4	6303.2	6341.9	6275.0	6185.2	6181.7
37.5°	6599.0	6614.8	6678.2	6718.7	6694.1	6630.7	6657.1	6702.9	6636.0	6525.1	6502.2
40°	6959.9	6993.4	7072.6	7114.9	7074.4	6989.9	7039.2	7088.5	7028.6	6900.1	6849.0
42.5°	7364.9	7417.7	7532.2	7553.3	7475.8	7361.4	7447.6	7526.9	7484.6	7336.7	7317.4
45°	7838.5	7870.2	8011.1	8056.8	7949.4	7806.8	7914.2	8058.6	8026.9	7856.1	7819.1
47.5°	8368.5	8398.4	8544.5	8613.2	8477.6	8285.7	8479.4	8667.8	8648.4	8465.3	8447.7
50°	8995.3	9002.3	9204.8	9282.3	9146.7	8981.2	9153.7	9387.9	9310.4	9076.3	9072.7
52.5°	9681.9	9690.7	9946.0	10095.7	10020.0	9833.4	10037.6	10180.2	9983.0	9676.7	9653.8
55°	10277.0	10321.1	10669.7	11067.6	11171.5	11035.9	11097.5	11030.6	10544.7	10115.1	10048.2
57.5°	10520.0	10606.3	11136.3	11879.3	12555.4	12756.1	12280.7	11643.3	10768.3	10160.8	10095.7
60°	9926.7	10020.0	10842.2	12252.5	13978.0	14849.5	13513.2	11747.2	10259.4	9405.5	9303.4
62.5°	7949.4	7975.8	9185.4	11373.9	14807.3	17064.4	14032.6	10861.6	8778.7	7618.4	7577.9
64°	5720.4	5991.6	7273.3	9972.4	14444.6	17907.8	13733.2	9620.3	7130.7	5956.4	5766.2
65°	4278.4	4352.4	5863.0	8516.4	13805.4	17844.4	13152.2	8433.6	5905.3	4558.4	4347.1
67.5°	1616.3	1625.1	2163.9	4245.0	9828.1	15353.1	10037.6	4588.3	2487.8	1799.4	1734.3
70°	670.8	683.1	794.1	1427.9	4223.9	9858.0	4840.1	1655.0	910.3	737.7	727.2
72.5°	491.2	498.3	531.7	633.8	1299.4	4047.8	1591.6	702.5	533.5	477.1	471.9
75°	385.6	389.1	413.8	466.6	605.7	1121.5	662.0	482.4	406.7	366.2	362.7
77.5°	294.0	302.8	320.4	355.7	406.7	531.7	438.4	360.9	313.4	279.9	274.7
80°	202.5	213.0	246.5	260.6	272.9	345.1	299.3	272.9	244.7	204.2	191.9
82.5°	125.0	132.1	165.5	177.8	172.5	193.7	191.9	195.4	174.3	126.8	118.0
85°	65.1	68.7	89.8	93.3	86.3	79.2	98.6	114.4	107.4	72.2	70.4
87.5°	14.1	15.8	19.4	17.6	19.4	19.4	24.6	37.0	38.7	24.6	22.9
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)