

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: P647587

Luminaire Tested: **GALN-SA8D-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647587  
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-SA8D-835-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1200mA 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: 44056.3 lumens  
Efficiency: N/A  
Efficacy: 89.4 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

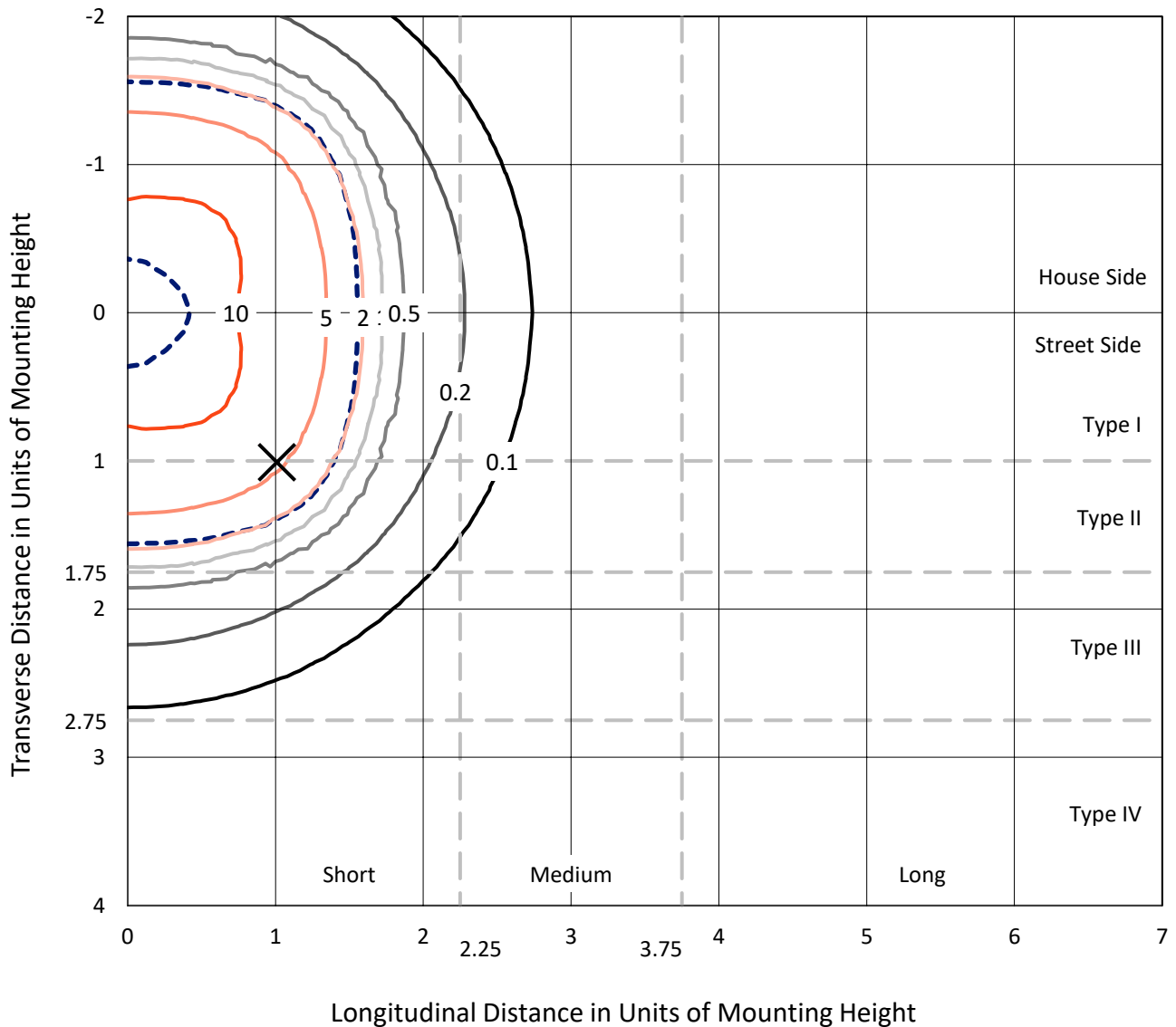
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647587  
 CATALOG NUMBER: GALN-SA8D-835-U-5NQ-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

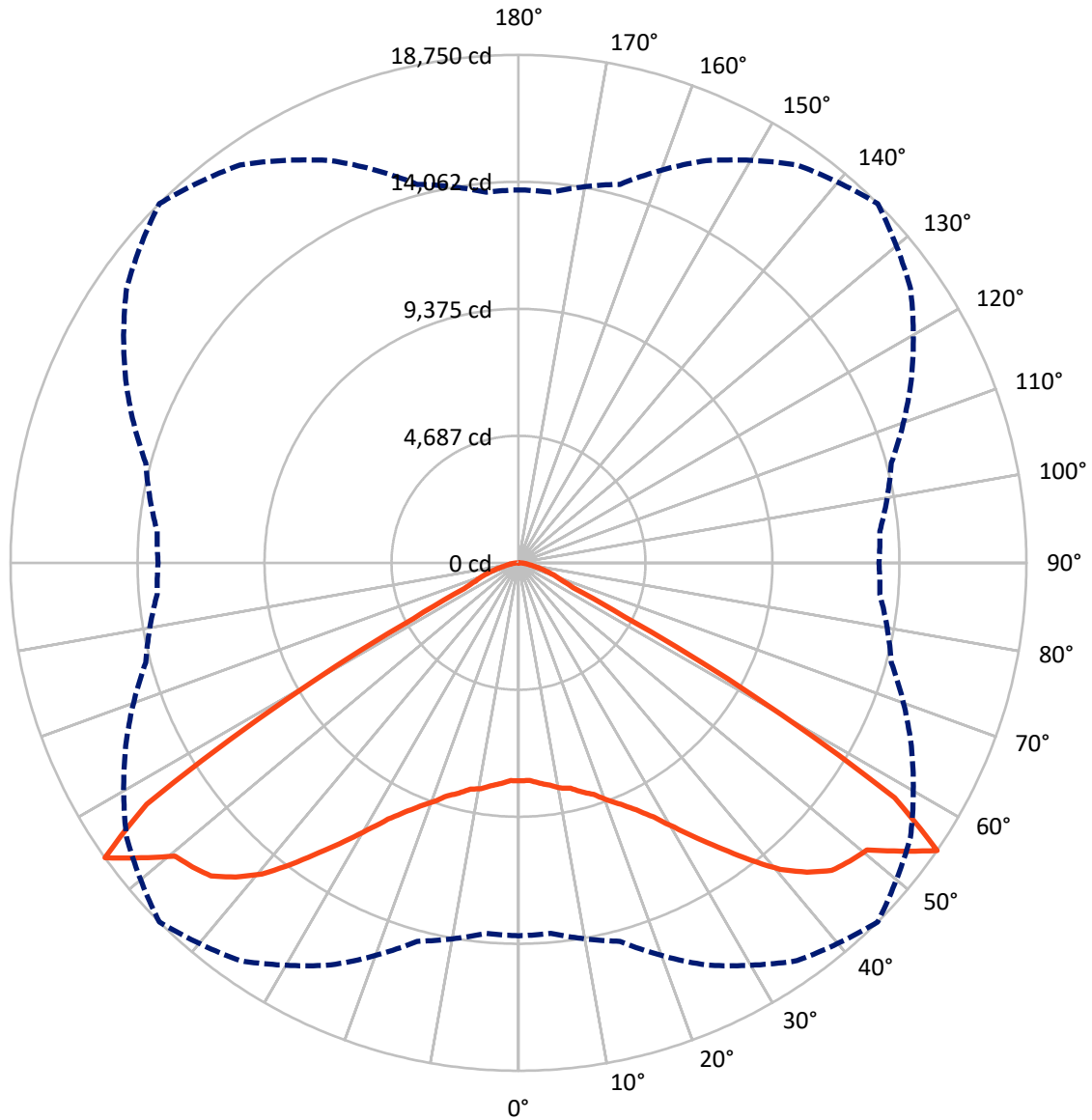
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc  
 Type V - Short - N/A

REPORT NUMBER: P647587  
CATALOG NUMBER: GALN-SA8D-835-U-5NQ-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P647587  
 CATALOG NUMBER: GALN-SA8D-835-U-5NQ-GRSWH

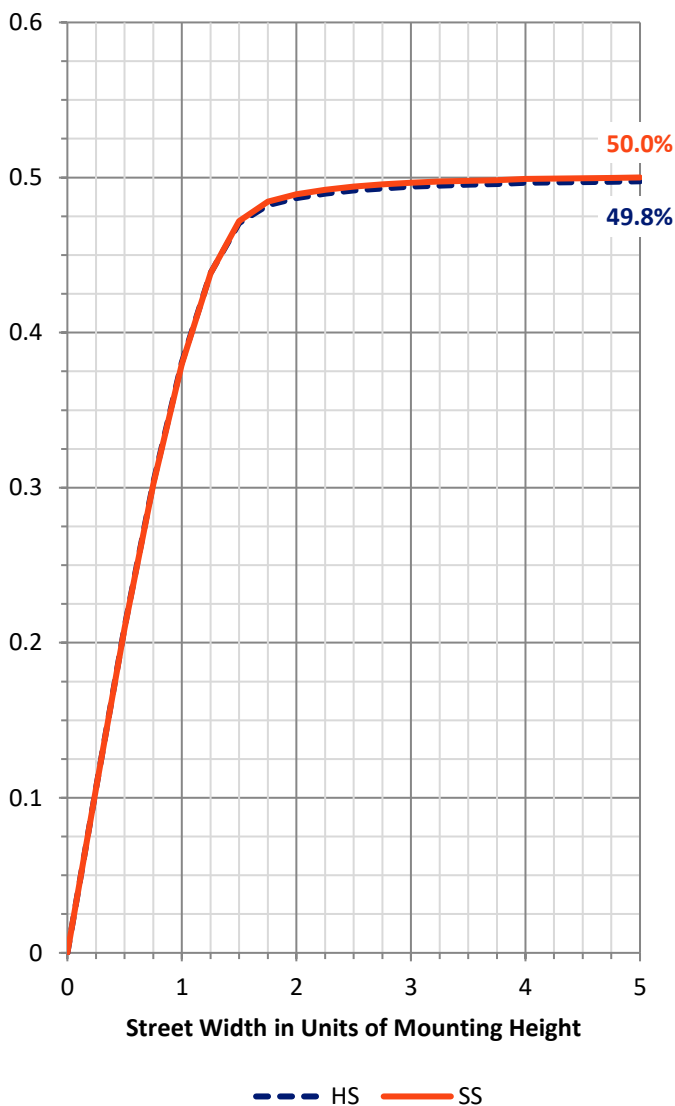
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22028.1	0.0	22028.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22028.1	0.0	22028.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	44056.3	0.0	44056.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	785.8	1.8
10°-20°	2489.9	5.7
20°-30°	4642.9	10.5
30°-40°	7773.6	17.6
40°-50°	12096.4	27.5
50°-60°	12559.9	28.5
60°-70°	2663.5	6.0
70°-80°	877.2	2.0
80°-90°	167.0	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°	44056.3	100.0
0°-180°	44056.3	100.0

**Coefficient of Utilization**



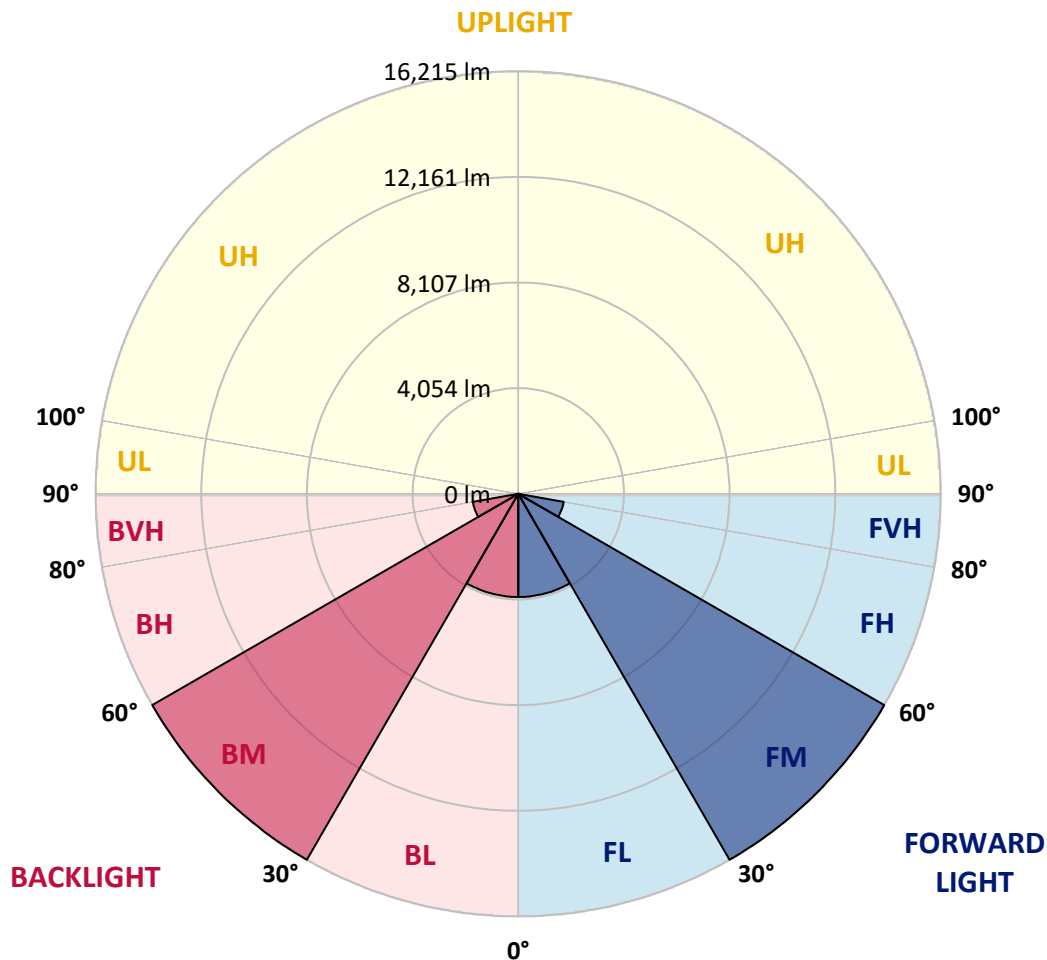
REPORT NUMBER: P647587  
 CATALOG NUMBER: GALN-SA8D-835-U-5NQ-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3959.3	9.0			
FM (30°-60°)	16215.0	36.8			
FH (60°-80°)	1770.4	4.0			G1/1800
FVH (80°-90°)	83.5	0.2			G1/100
BL (0°-30°)	3959.3	9.0	B4/5000		
BM (30°-60°)	16215.0	36.8	B5		
BH (60°-80°)	1770.4	4.0	B3/2500		G1/1800
BVH (80°-90°)	83.5	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





REPORT NUMBER: P647587

CATALOG NUMBER: GALN-SA8D-835-U-5NQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8044.0	8044.0	8044.0	8044.0	8044.0	8044.0	8044.0	8044.0	8044.0	8044.0	8044.0
2.5°	8139.8	8102.6	8038.7	8086.6	8123.9	8044.0	8075.9	8091.9	8081.3	8038.7	8054.6
5°	8257.0	8235.7	8182.4	8219.7	8171.8	8171.8	8139.8	8097.2	8161.1	8150.5	8177.1
7.5°	8257.0	8230.3	8336.8	8267.6	8288.9	8288.9	8235.7	8193.1	8225.0	8177.1	8150.5
10°	8422.0	8459.3	8411.4	8427.4	8416.7	8454.0	8374.1	8347.5	8320.9	8304.9	8272.9
12.5°	8619.0	8592.3	8608.3	8597.7	8634.9	8539.1	8491.2	8432.7	8480.6	8411.4	8459.3
15°	8778.7	8762.7	8778.7	8821.3	8784.0	8778.7	8693.5	8634.9	8560.4	8576.4	8501.8
17.5°	8997.0	8981.0	8986.3	9023.6	9018.3	8991.7	8927.8	8816.0	8789.3	8746.7	8698.8
20°	9321.7	9295.1	9284.4	9300.4	9327.0	9348.3	9220.5	9177.9	9087.4	9018.3	8938.4
22.5°	9598.5	9587.9	9630.4	9561.3	9619.8	9683.7	9561.3	9540.0	9316.4	9279.1	9193.9
25°	9981.8	9965.9	9939.2	10040.4	10109.6	10104.3	9987.2	9870.0	9699.6	9657.1	9657.1
27.5°	10386.4	10295.9	10434.3	10461.0	10583.4	10620.7	10519.5	10349.1	10189.4	10099.0	10120.3
30°	10892.2	10807.0	10838.9	11030.6	11190.3	11328.7	11073.2	10822.9	10599.4	10439.7	10413.0
32.5°	11397.9	11312.7	11408.5	11594.9	11914.3	12121.9	11871.7	11435.2	11174.3	10940.1	10988.0
35°	11807.8	11871.7	12026.1	12308.3	12638.3	12973.7	12574.4	12239.1	11866.4	11605.5	11642.8
37.5°	12467.9	12664.9	12787.4	13112.1	13580.6	13926.7	13511.4	13074.8	12675.6	12334.8	12217.8
40°	13330.4	13463.5	13601.9	13985.2	14538.8	14884.9	14491.0	13921.3	13527.3	13176.0	13160.0
42.5°	14278.0	14405.8	14549.5	15018.0	15348.1	15608.9	15246.9	14943.5	14507.0	14230.1	14214.1
45°	15380.0	15289.5	15449.2	15758.0	16034.8	16205.1	15970.9	15821.8	15507.8	15252.2	15225.6
47.5°	16114.7	16034.8	16322.3	16599.1	16641.7	16455.4	16503.3	16641.7	16311.6	15891.1	16024.2
50°	16540.6	16540.6	16732.2	16987.7	16907.9	16668.3	17046.3	17057.0	16726.8	16354.2	16354.2
52.5°	15800.5	15965.6	16508.6	17344.4	17610.6	17679.8	17594.6	17232.7	16370.2	15608.9	15571.7
55°	13766.9	13729.7	14464.4	16380.8	17930.0	18749.9	17663.9	15997.6	14246.1	13389.0	13303.8
57.5°	8954.4	8997.0	10093.7	12047.4	14842.3	16370.2	14538.8	12196.5	10093.7	8911.8	9023.6
60°	4030.0	4173.7	4839.2	6297.9	8698.8	9944.6	8720.1	6617.3	5078.8	4408.0	4466.5
62.5°	2315.8	2342.4	2369.0	2810.9	3705.2	4381.4	3849.0	2970.6	2619.2	2502.1	2502.1
65°	1953.7	1937.8	1943.1	1980.4	2076.2	2214.6	2156.1	2076.2	2086.9	2076.2	2060.2
67.5°	1661.0	1682.3	1666.3	1692.9	1698.2	1719.5	1756.8	1788.8	1794.1	1804.7	1794.1
70°	1362.9	1368.2	1378.8	1400.1	1405.4	1421.4	1474.6	1501.2	1517.2	1517.2	1538.5
72.5°	1043.4	1038.1	1048.8	1070.0	1096.7	1102.0	1149.9	1187.2	1208.5	1181.9	1187.2
75°	686.8	692.1	708.1	724.0	761.3	798.6	814.6	851.7	857.1	867.7	841.1
77.5°	409.9	420.5	436.5	468.5	500.4	532.4	569.6	596.3	606.9	596.3	564.3
80°	266.2	266.2	287.4	314.1	351.3	378.0	399.3	420.5	436.5	420.5	409.9
82.5°	165.1	165.1	191.7	223.6	250.2	266.2	298.1	324.7	340.7	330.0	314.1
85°	85.2	90.5	111.8	138.4	159.7	170.4	165.1	149.1	133.1	127.8	117.1
87.5°	26.6	26.6	31.9	31.9	26.6	26.6	31.9	26.6	31.9	31.9	31.9
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)