

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: P651492

Luminaire Tested: **GALN-SA7D-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651492  
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-SA7D-840-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 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: 40815.4 lumens  
Efficiency: N/A  
Efficacy: 94.3 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

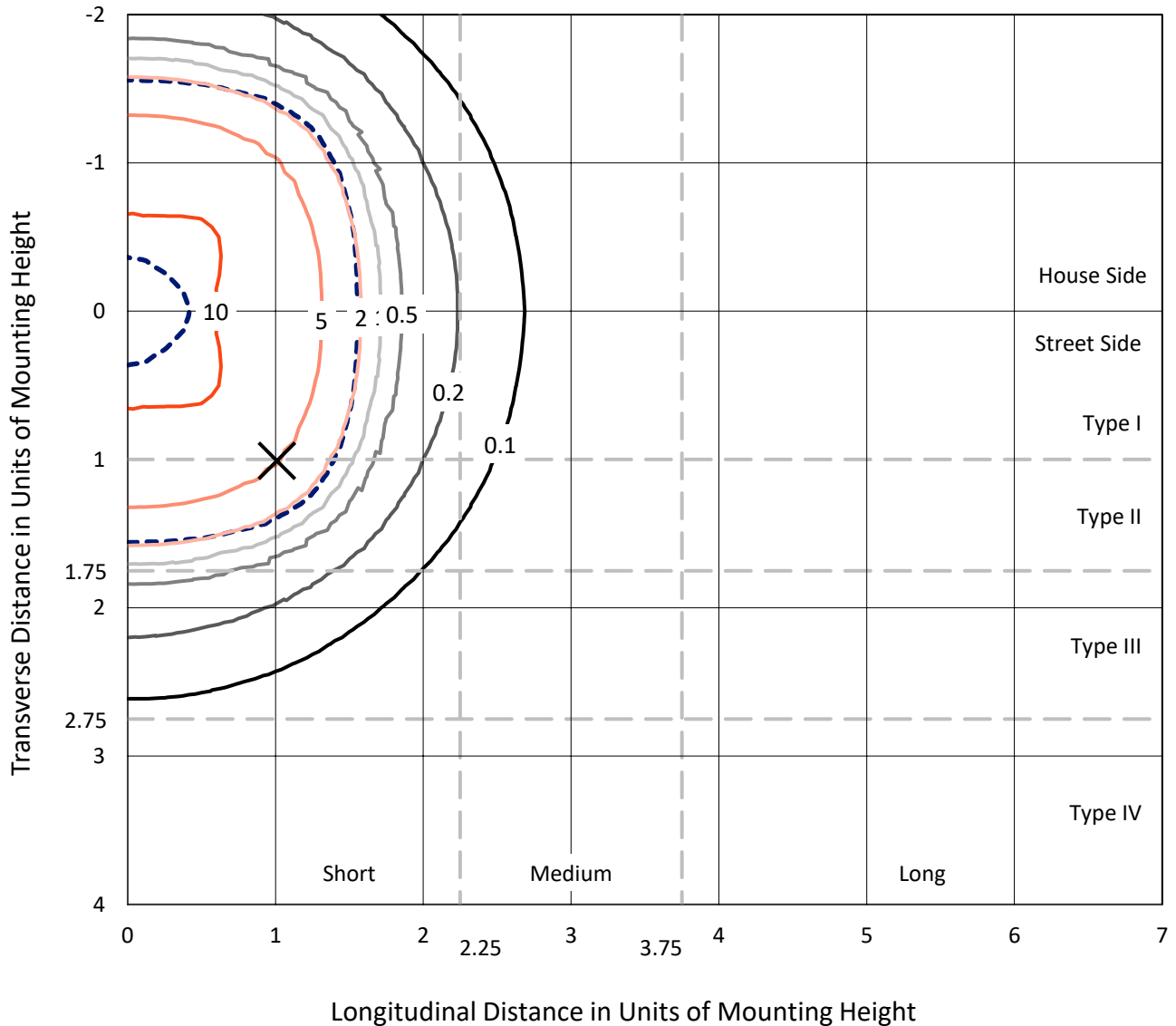
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

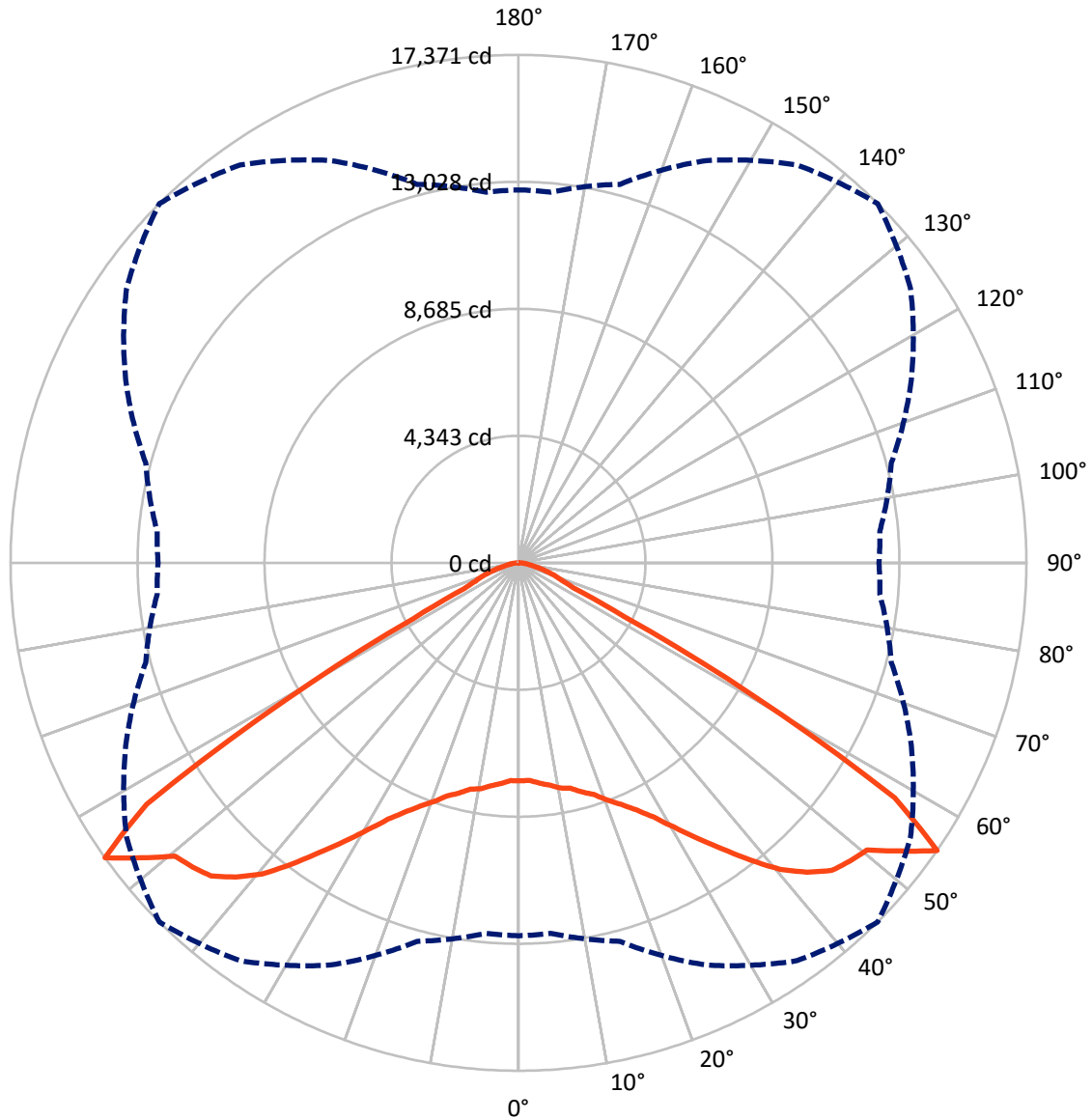
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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
<b>House Side</b>	Lumens	20407.7	0.0	20407.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20407.7	0.0	20407.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40815.4	0.0	40815.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	728.0	1.8
10°-20°	2306.7	5.7
20°-30°	4301.3	10.5
30°-40°	7201.8	17.6
40°-50°	11206.6	27.5
50°-60°	11635.9	28.5
60°-70°	2467.6	6.0
70°-80°	812.7	2.0
80°-90°	154.8	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°	40815.4	100.0
0°-180°	40815.4	100.0

**Coefficient of Utilization**



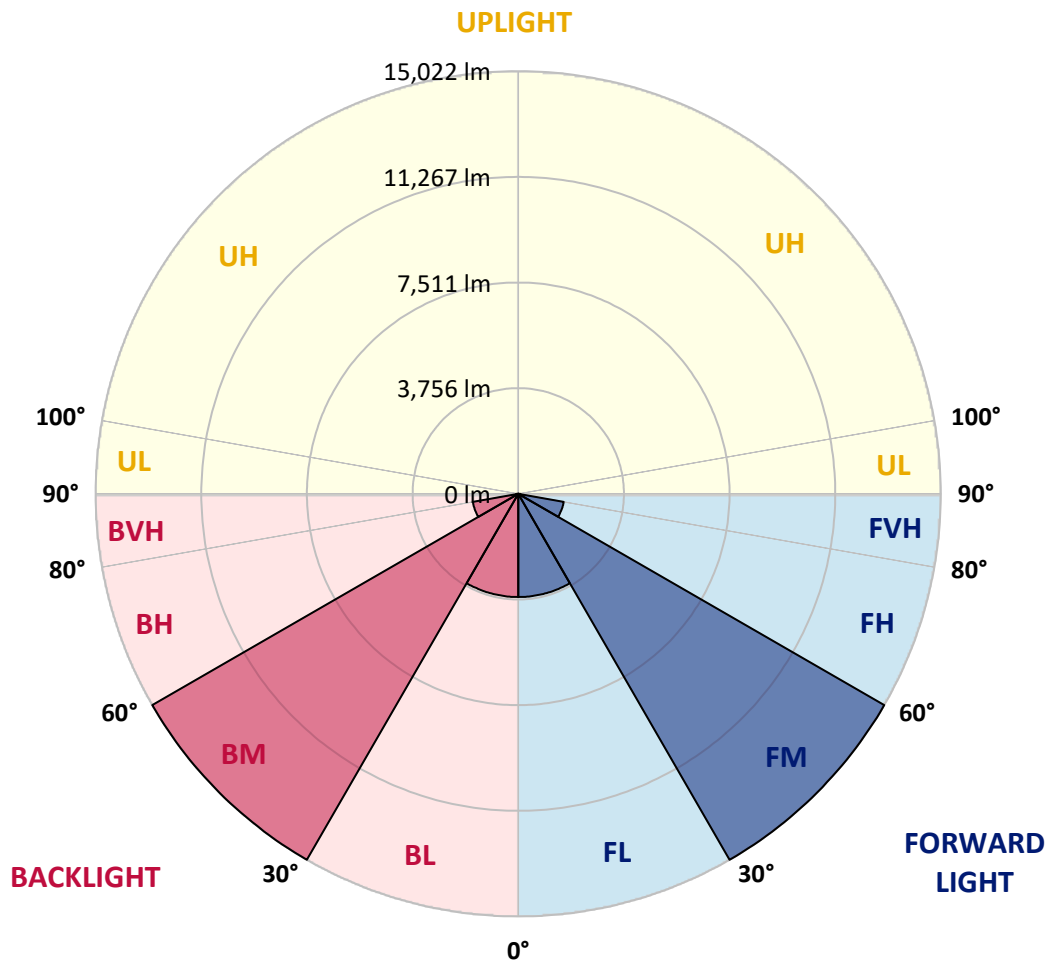
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3668.0	9.0			
FM	(30°-60°)	15022.2	36.8			
FH	(60°-80°)	1640.1	4.0			G1/1800
FVH	(80°-90°)	77.4	0.2			G1/100
BL	(0°-30°)	3668.0	9.0	B4/5000		
BM	(30°-60°)	15022.2	36.8	B5		
BH	(60°-80°)	1640.1	4.0	B3/2500		G1/1800
BVH	(80°-90°)	77.4	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°	7452.3	7452.3	7452.3	7452.3	7452.3	7452.3	7452.3	7452.3	7452.3	7452.3	7452.3
2.5°	7541.1	7506.5	7447.4	7491.7	7526.3	7452.3	7481.9	7496.7	7486.8	7447.4	7462.1
5°	7649.6	7629.8	7580.5	7615.0	7570.7	7570.7	7541.1	7501.6	7560.8	7550.9	7575.6
7.5°	7649.6	7624.9	7723.6	7659.4	7679.2	7679.2	7629.8	7590.4	7620.0	7575.6	7550.9
10°	7802.5	7836.9	7792.6	7807.4	7797.5	7832.1	7758.1	7733.4	7708.8	7694.0	7664.4
12.5°	7985.0	7960.3	7975.1	7965.2	7999.8	7911.0	7866.5	7812.3	7856.7	7792.6	7836.9
15°	8132.9	8118.1	8132.9	8172.3	8137.9	8132.9	8054.0	7999.8	7930.7	7945.5	7876.5
17.5°	8335.2	8320.3	8325.2	8359.8	8354.8	8330.2	8271.0	8167.5	8142.7	8103.3	8058.9
20°	8636.0	8611.3	8601.4	8616.2	8640.9	8660.6	8542.3	8502.8	8419.0	8354.8	8280.9
22.5°	8892.4	8882.6	8922.0	8857.9	8912.2	8971.4	8857.9	8838.2	8631.0	8596.5	8517.6
25°	9247.6	9232.8	9208.1	9301.8	9365.9	9361.0	9252.5	9143.9	8986.2	8946.7	8946.7
27.5°	9622.4	9538.5	9666.8	9691.4	9804.9	9839.4	9745.7	9587.8	9439.9	9356.0	9375.8
30°	10090.9	10012.0	10041.6	10219.2	10367.1	10495.3	10258.6	10026.8	9819.7	9671.7	9647.0
32.5°	10559.4	10480.5	10569.4	10741.9	11037.9	11230.2	10998.4	10594.0	10352.3	10135.3	10179.7
35°	10939.2	10998.4	11141.4	11402.9	11708.7	12019.3	11649.4	11338.7	10993.5	10751.8	10786.3
37.5°	11550.8	11733.3	11846.7	12147.6	12581.6	12902.2	12517.4	12113.0	11743.1	11427.5	11319.0
40°	12349.7	12473.1	12601.3	12956.4	13469.4	13790.0	13425.0	12897.2	12532.2	12206.8	12192.0
42.5°	13227.7	13346.1	13479.2	13913.3	14219.0	14460.7	14125.4	13844.2	13439.8	13183.3	13168.5
45°	14248.6	14164.8	14312.7	14598.8	14855.3	15013.1	14796.0	14658.0	14367.0	14130.2	14105.6
47.5°	14929.3	14855.3	15121.6	15378.0	15417.5	15244.9	15289.3	15417.5	15111.7	14722.1	14845.4
50°	15323.8	15323.8	15501.3	15738.1	15664.1	15442.2	15792.3	15802.2	15496.4	15151.2	15151.2
52.5°	14638.3	14791.2	15294.2	16068.6	16315.1	16379.2	16300.3	15965.0	15166.0	14460.7	14426.2
55°	12754.2	12719.7	13400.3	15175.8	16611.0	17370.6	16364.4	14820.7	13198.1	12404.1	12325.1
57.5°	8295.6	8335.2	9351.1	11161.2	13750.5	15166.0	13469.4	11299.3	9351.1	8256.2	8359.8
60°	3733.5	3866.7	4483.2	5834.6	8058.9	9213.0	8078.6	6130.5	4705.1	4083.7	4138.0
62.5°	2145.4	2170.1	2194.8	2604.1	3432.7	4059.1	3565.8	2752.1	2426.5	2318.0	2318.0
65°	1810.1	1795.3	1800.2	1834.7	1923.5	2051.7	1997.5	1923.5	1933.4	1923.5	1908.7
67.5°	1538.8	1558.5	1543.7	1568.4	1573.3	1593.0	1627.6	1657.2	1662.1	1672.0	1662.1
70°	1262.6	1267.6	1277.4	1297.2	1302.0	1316.8	1366.2	1390.8	1405.6	1405.6	1425.3
72.5°	966.6	961.8	971.6	991.4	1016.0	1020.9	1065.3	1099.9	1119.5	1094.9	1099.9
75°	636.2	641.2	656.0	670.8	705.3	739.8	754.6	789.1	794.1	803.9	779.3
77.5°	379.8	389.6	404.4	434.0	463.6	493.2	527.7	552.4	562.2	552.4	522.8
80°	246.6	246.6	266.3	291.0	325.6	350.2	369.9	389.6	404.4	389.6	379.8
82.5°	152.9	152.9	177.5	207.1	231.8	246.6	276.2	300.8	315.6	305.8	291.0
85°	78.9	83.8	103.6	128.3	147.9	157.9	152.9	138.1	123.3	118.3	108.5
87.5°	24.6	24.6	29.6	29.6	24.6	24.6	29.6	24.6	29.6	29.6	29.6
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)