

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: P651881

Luminaire Tested: **GALN-SA5A-840-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651881  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-840-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20157.9 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

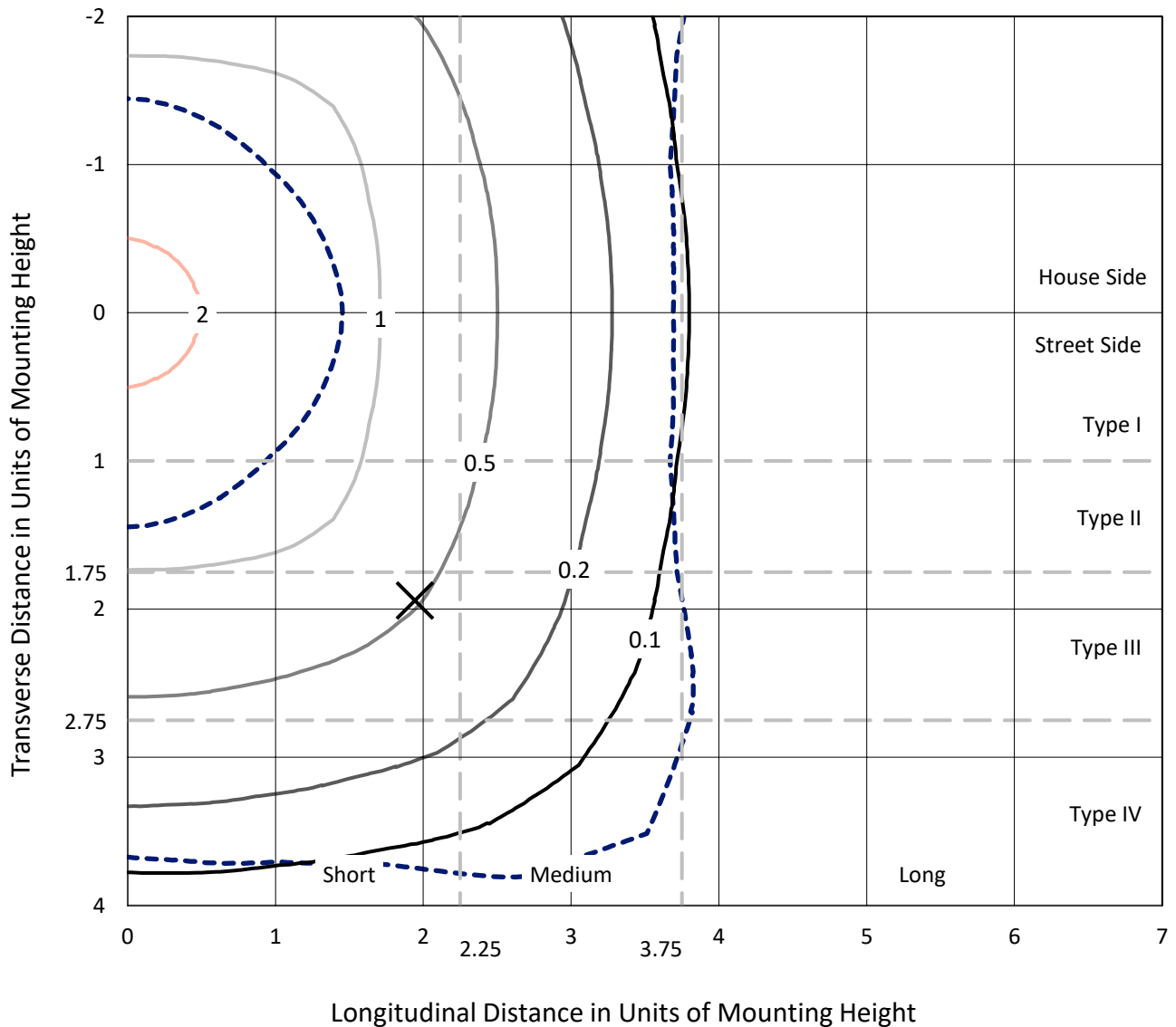
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

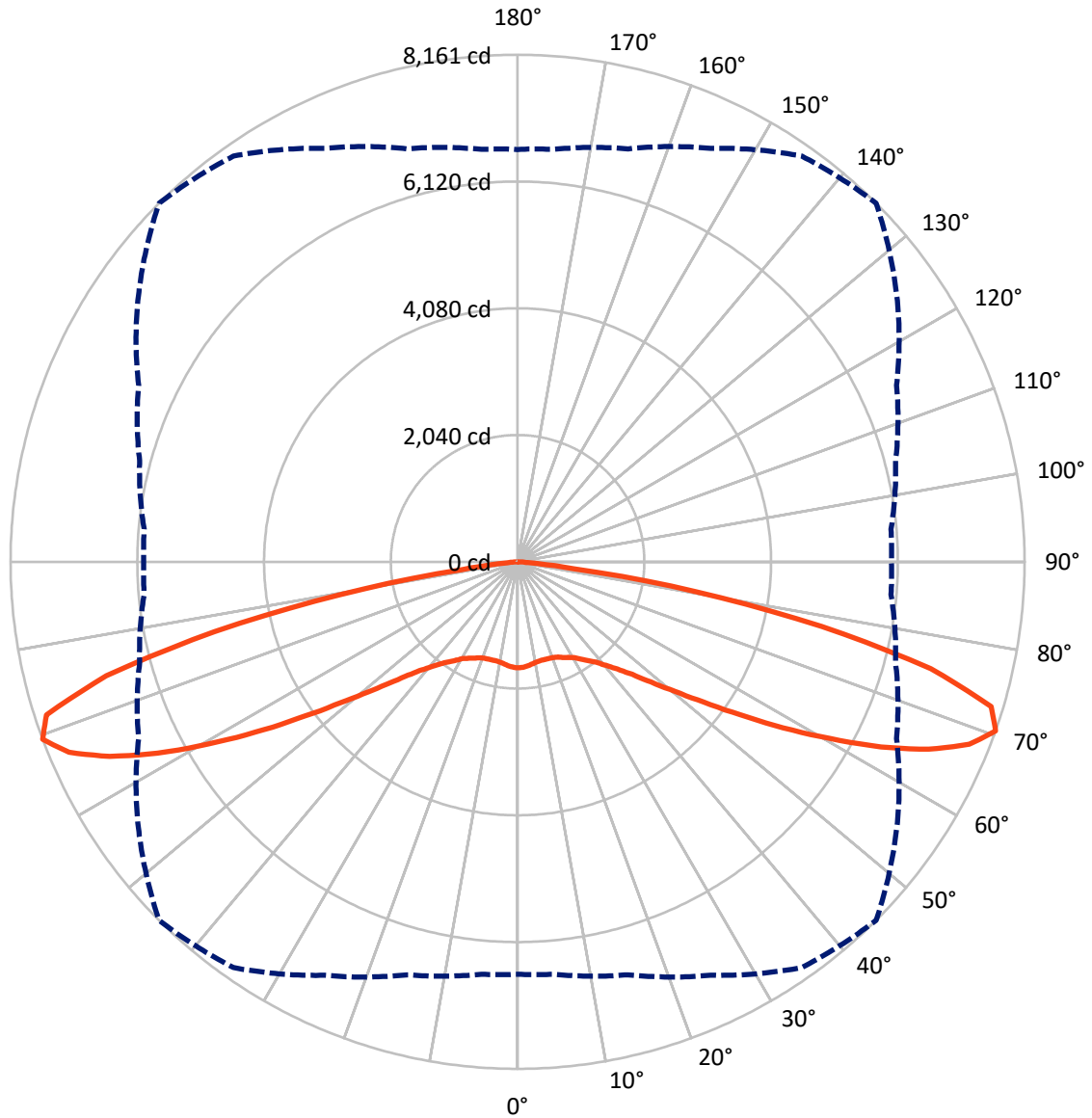
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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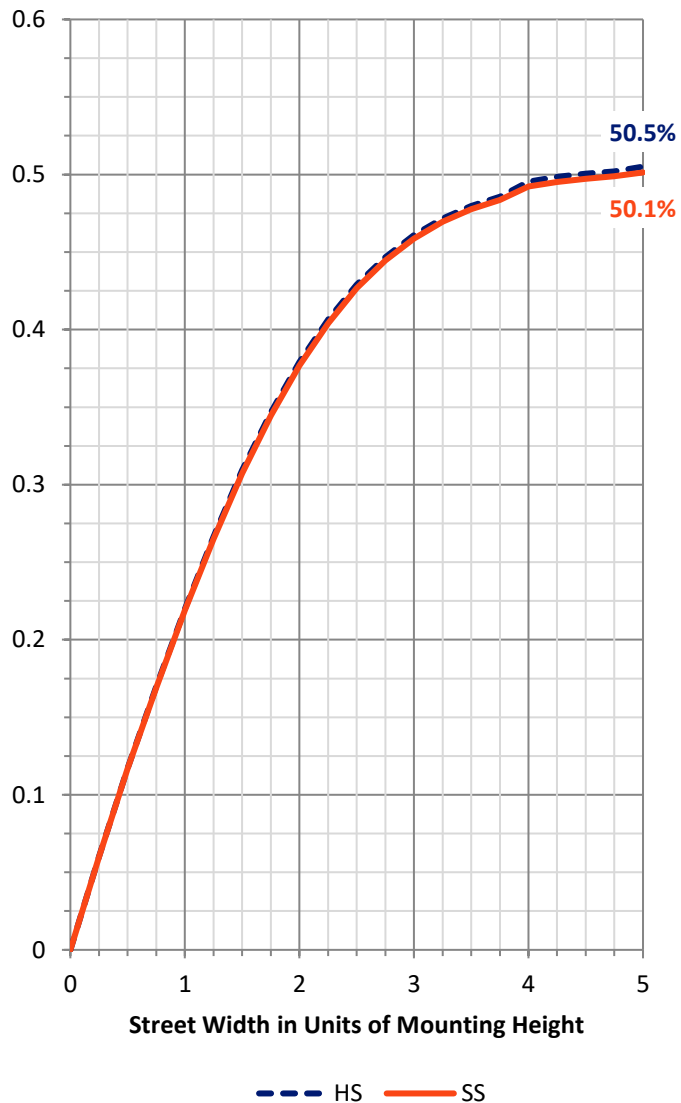
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10079.0	0.0	10079.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10079.0	0.0	10079.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20157.9	0.0	20157.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.6	0.8
10°-20°	467.2	2.3
20°-30°	796.1	3.9
30°-40°	1233.9	6.1
40°-50°	2076.8	10.3
50°-60°	3778.7	18.7
60°-70°	6397.2	31.7
70°-80°	4951.7	24.6
80°-90°	296.7	1.5
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°	20157.9	100.0
0°-180°	20157.9	100.0

**Coefficient of Utilization**

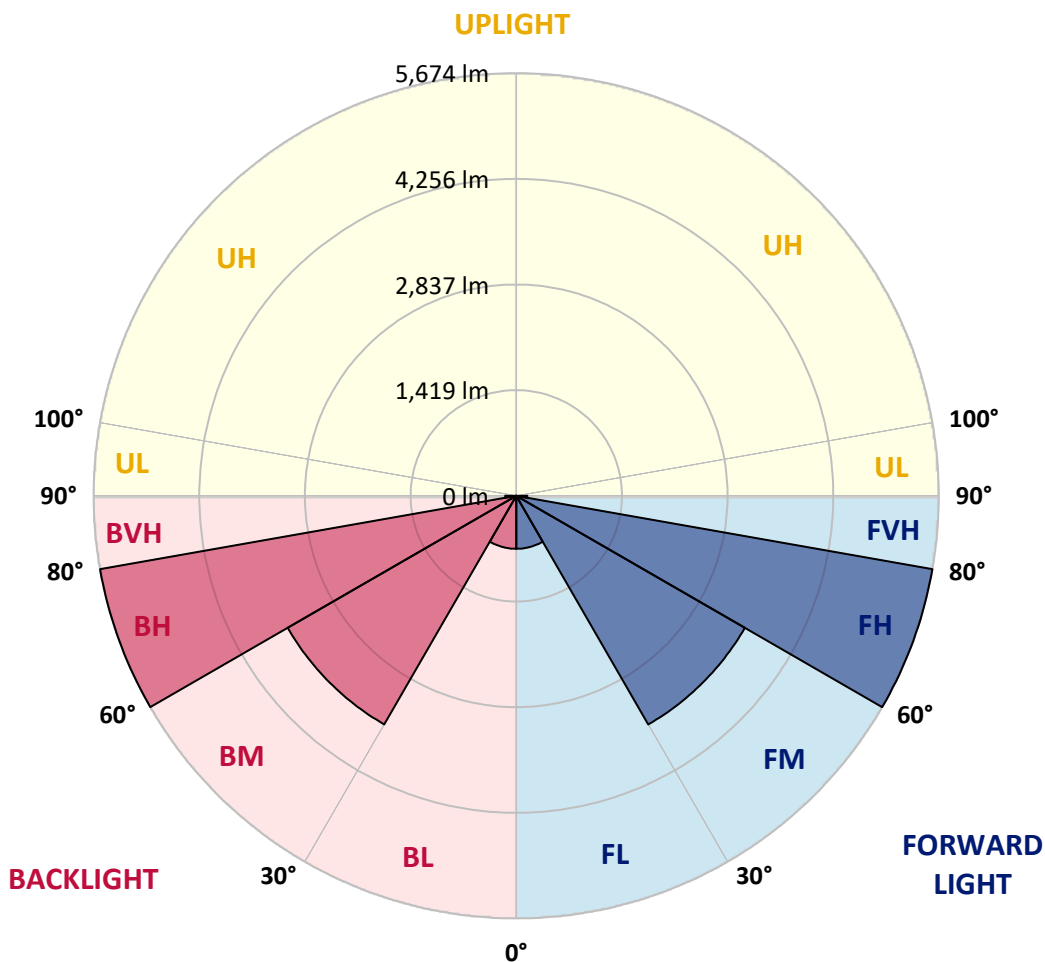


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	711.5	3.5			
FM (30°-60°)	3544.7	17.6			
FH (60°-80°)	5674.4	28.1			G3/7500
FVH (80°-90°)	148.4	0.7			G2/225
BL (0°-30°)	711.5	3.5	B2/1000		
BM (30°-60°)	3544.7	17.6	B3/5000		
BH (60°-80°)	5674.4	28.1	B5		G3/7500
BVH (80°-90°)	148.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1706.6	1706.6	1706.6	1706.6	1706.6	1706.6	1706.6	1706.6	1706.6	1706.6	1706.6
2.5°	1702.4	1703.4	1703.4	1701.3	1700.2	1700.2	1699.2	1699.2	1702.4	1703.4	1704.5
5°	1687.5	1687.5	1687.5	1686.4	1684.3	1684.3	1682.2	1682.2	1683.2	1686.4	1684.3
7.5°	1667.2	1669.4	1669.4	1665.1	1661.9	1661.9	1660.8	1661.9	1663.0	1666.2	1665.1
10°	1660.8	1661.9	1656.6	1649.1	1643.8	1640.6	1641.6	1643.8	1649.1	1651.2	1652.3
12.5°	1665.1	1665.1	1655.5	1644.8	1635.3	1631.0	1629.9	1637.4	1647.0	1653.4	1655.5
15°	1670.4	1668.3	1656.6	1642.7	1633.1	1632.1	1631.0	1636.3	1650.2	1663.0	1664.0
17.5°	1673.6	1672.6	1657.6	1640.6	1635.3	1635.3	1634.2	1638.5	1653.4	1669.4	1670.4
20°	1684.3	1681.1	1664.0	1645.9	1641.6	1643.8	1640.6	1645.9	1661.9	1681.1	1685.4
22.5°	1705.5	1702.4	1685.4	1667.2	1665.1	1665.1	1664.0	1669.4	1686.4	1706.6	1709.8
25°	1731.1	1727.9	1711.9	1699.2	1701.3	1705.5	1703.4	1704.5	1718.3	1735.3	1740.7
27.5°	1765.2	1759.9	1746.0	1735.3	1741.7	1741.7	1741.7	1740.7	1749.2	1765.2	1770.5
30°	1806.7	1804.5	1789.6	1788.6	1793.9	1788.6	1788.6	1789.6	1790.7	1805.6	1810.9
32.5°	1861.0	1856.8	1849.3	1847.2	1862.1	1866.3	1851.4	1837.6	1845.0	1860.0	1863.2
35°	1950.4	1944.1	1933.4	1921.7	1933.4	1953.6	1921.7	1911.0	1930.2	1950.4	1952.5
37.5°	2071.8	2068.6	2051.5	2030.3	2029.2	2050.5	2017.5	2016.5	2052.6	2077.1	2080.3
40°	2224.0	2227.2	2205.9	2185.7	2175.1	2192.1	2166.5	2176.1	2211.2	2238.9	2236.8
42.5°	2438.1	2426.3	2393.3	2374.1	2362.5	2356.1	2349.7	2364.6	2403.9	2433.8	2457.1
45°	2688.2	2684.0	2642.4	2619.0	2593.5	2583.9	2581.8	2608.4	2656.3	2692.5	2695.7
47.5°	2971.4	2961.8	2935.2	2910.7	2901.1	2889.4	2878.7	2899.0	2946.9	2972.4	2979.9
50°	3263.1	3265.3	3265.3	3261.0	3270.6	3272.7	3244.0	3251.4	3278.0	3275.9	3273.8
52.5°	3596.4	3608.1	3663.4	3668.8	3714.5	3745.4	3693.3	3662.4	3652.8	3595.3	3599.6
55°	3988.1	3998.8	4081.8	4164.9	4288.3	4340.6	4230.9	4135.0	4066.9	3979.6	3983.9
57.5°	4476.8	4482.1	4560.9	4720.6	4916.5	5038.9	4846.3	4656.7	4518.4	4435.3	4402.3
60°	5002.8	5008.1	5123.0	5317.9	5622.3	5771.4	5532.9	5223.1	5048.5	4921.8	4930.4
62.5°	5634.0	5655.4	5758.7	6026.9	6396.3	6563.5	6247.3	5833.2	5596.8	5439.3	5445.6
65°	6310.1	6346.3	6459.1	6754.1	7094.8	7274.6	6887.1	6409.1	6115.2	5922.6	5942.8
67.5°	6748.8	6780.6	6943.5	7269.4	7694.1	7843.2	7342.8	6786.0	6418.7	6188.8	6146.2
70°	6636.9	6663.6	6880.7	7342.8	7972.0	8160.5	7451.4	6730.6	6298.4	6033.3	6016.3
72.5°	5858.7	5803.3	6120.6	6783.8	7654.8	7970.9	7109.6	6147.2	5603.2	5330.7	5298.7
75°	3882.7	4003.1	4471.5	5252.9	6476.2	6867.9	6068.4	4935.7	4251.1	4024.4	3989.2
77.5°	1297.8	1390.4	1806.7	2977.8	4415.1	5003.8	4421.5	3228.0	2283.7	1839.7	1848.2
80°	343.9	339.6	439.7	818.7	1907.8	2897.9	2220.8	1093.4	598.3	433.3	410.9
82.5°	123.5	138.4	177.8	226.7	505.7	900.7	635.6	306.6	224.6	166.1	160.8
85°	54.3	53.2	76.6	90.5	126.7	168.2	149.0	129.9	114.0	75.6	70.3
87.5°	11.7	11.7	18.1	13.9	22.4	22.4	27.7	33.0	34.1	22.4	18.1
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)