

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: P652374

Luminaire Tested: **GALN-SA5B-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-840-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12500.6 lumens  
Efficiency: N/A  
Efficacy: 61.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

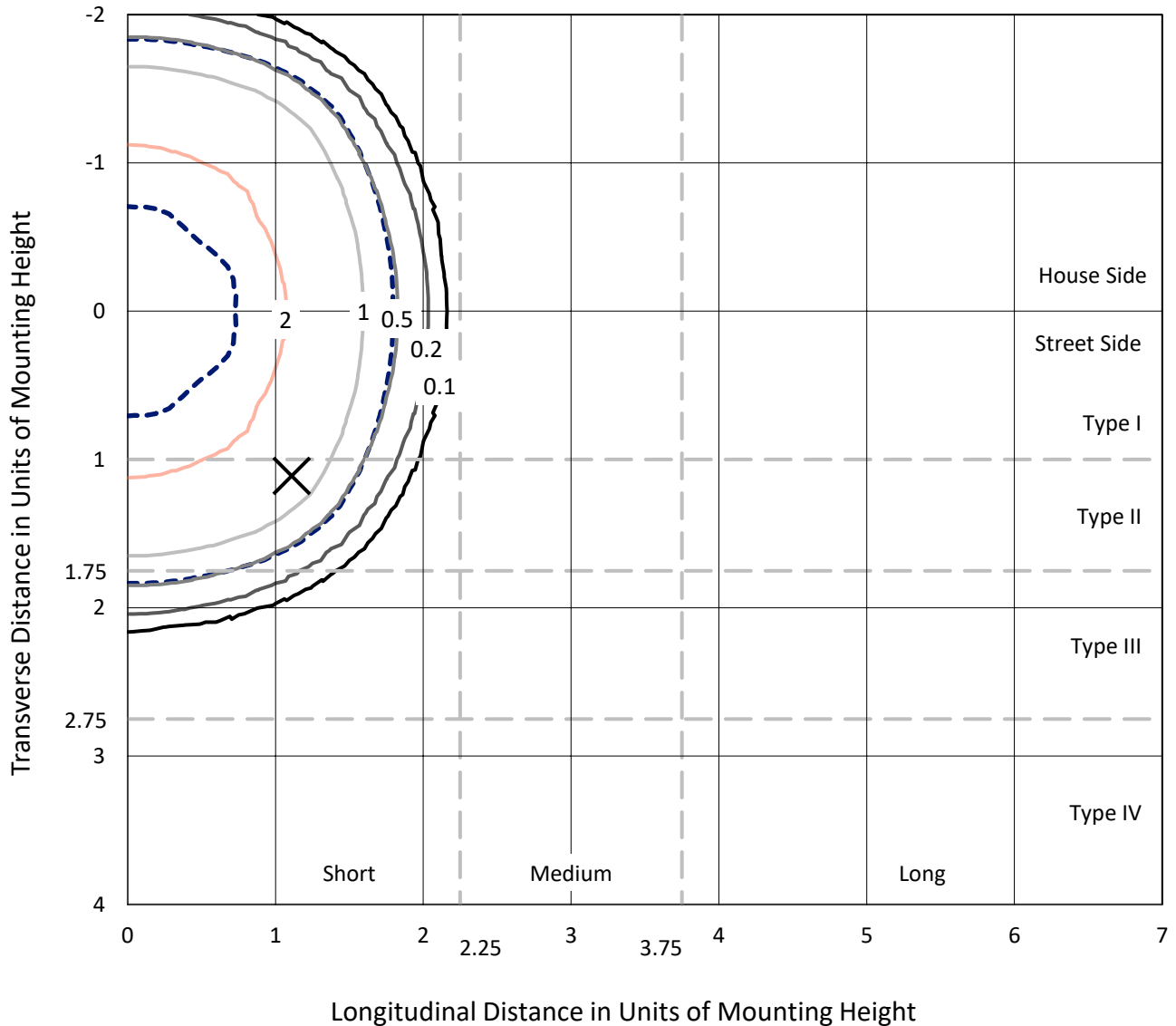
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

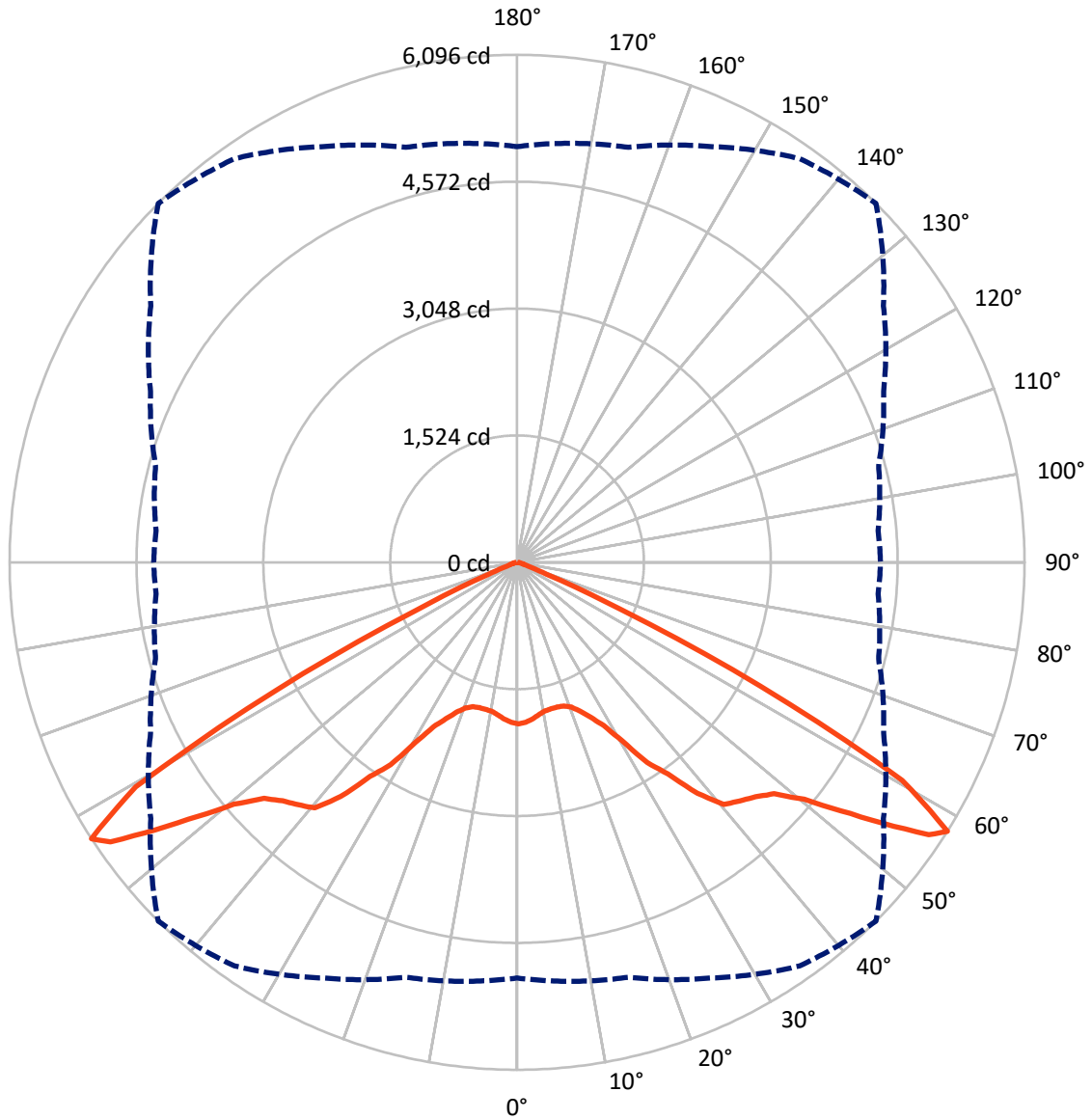
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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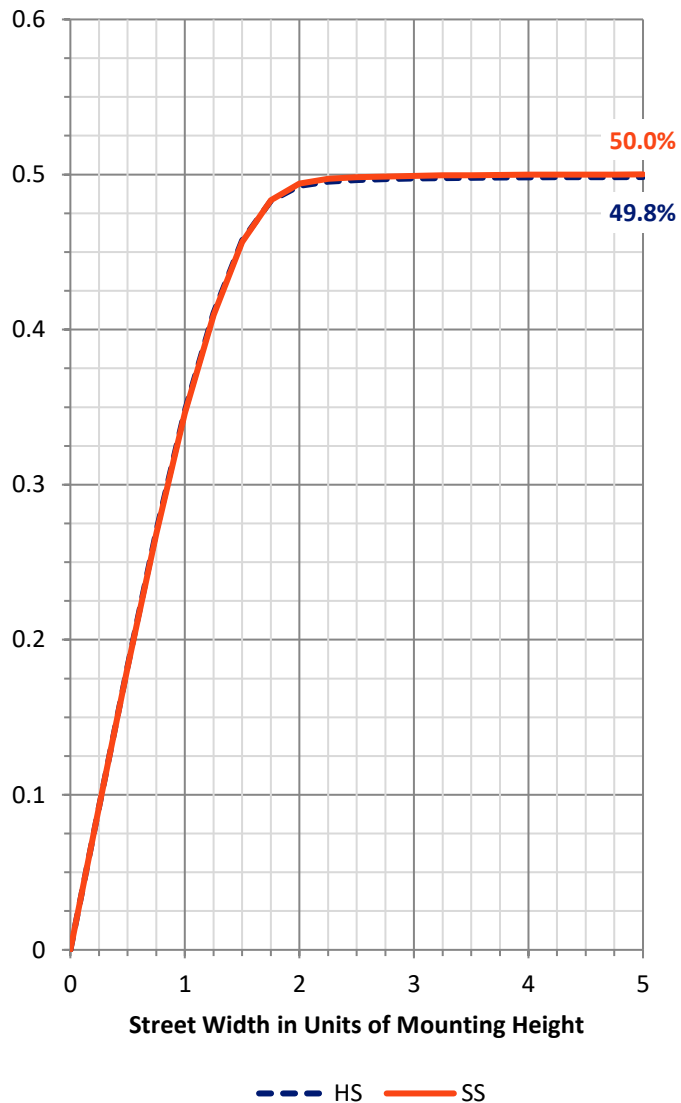
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6250.3	0.0	6250.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6250.3	0.0	6250.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12500.6	0.0	12500.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.2	1.4
10°-20°	515.0	4.1
20°-30°	950.7	7.6
30°-40°	1869.6	15.0
40°-50°	3045.1	24.4
50°-60°	4342.7	34.7
60°-70°	1503.5	12.0
70°-80°	80.7	0.6
80°-90°	15.1	0.1
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°	12500.6	100.0
0°-180°	12500.6	100.0

**Coefficient of Utilization**

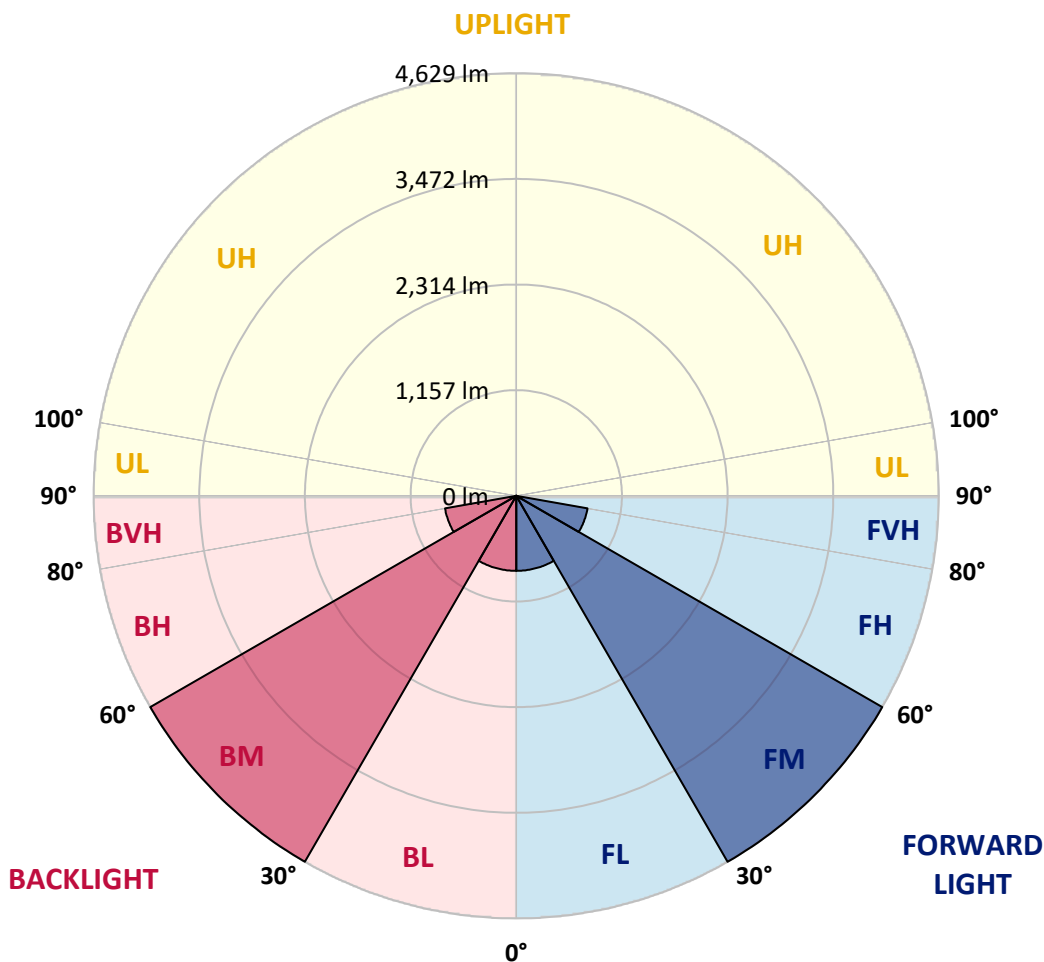


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.9	6.6			
FM (30°-60°)	4628.7	37.0			
FH (60°-80°)	792.1	6.3			G1/1800
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	821.9	6.6	B2/1000		
BM (30°-60°)	4628.7	37.0	B3/5000		
BH (60°-80°)	792.1	6.3	B2/1000		G1/1800
BVH (80°-90°)	7.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0
2.5°	1933.8	1944.2	1931.2	1926.0	1923.4	1923.4	1915.5	1915.5	1912.9	1915.5	1905.1
5°	1902.5	1912.9	1912.9	1910.3	1894.7	1892.1	1884.3	1879.0	1881.7	1871.2	1879.0
7.5°	1871.2	1879.0	1868.6	1866.0	1860.8	1850.4	1847.8	1824.3	1826.9	1826.9	1832.1
10°	1866.0	1863.4	1847.8	1834.7	1819.1	1816.5	1808.7	1803.4	1803.4	1800.8	1808.7
12.5°	1866.0	1853.0	1850.4	1821.7	1795.6	1806.0	1785.2	1772.2	1790.4	1795.6	1806.0
15°	1863.4	1876.4	1832.1	1819.1	1800.8	1803.4	1785.2	1772.2	1782.6	1787.8	1795.6
17.5°	1879.0	1871.2	1858.2	1832.1	1824.3	1813.9	1790.4	1780.0	1780.0	1793.0	1795.6
20°	1920.8	1899.9	1873.8	1860.8	1868.6	1855.6	1826.9	1787.8	1798.2	1808.7	1816.5
22.5°	1959.9	1944.2	1926.0	1918.2	1962.5	1941.6	1892.1	1847.8	1832.1	1850.4	1863.4
25°	2035.4	2035.4	2001.5	2011.9	2061.5	2064.1	2006.7	1928.6	1918.2	1926.0	1931.2
27.5°	2189.2	2197.0	2168.4	2178.8	2199.6	2217.8	2168.4	2103.2	2079.7	2077.1	2084.9
30°	2356.0	2371.6	2369.0	2413.3	2473.2	2483.6	2410.7	2303.8	2233.4	2220.4	2230.8
32.5°	2574.9	2582.7	2577.5	2629.6	2791.2	2866.8	2676.5	2525.4	2431.5	2455.0	2431.5
35°	2986.6	2978.8	2921.5	2931.9	3064.9	3119.6	2937.1	2840.7	2796.4	2843.3	2832.9
37.5°	3341.1	3312.4	3265.5	3333.3	3471.4	3520.9	3330.7	3161.2	3080.5	3158.6	3192.5
40°	3640.8	3567.9	3502.7	3570.5	3755.5	3823.2	3544.4	3406.2	3374.9	3432.3	3505.3
42.5°	3893.6	3846.6	3760.7	3765.9	3888.4	3919.6	3695.5	3614.7	3583.5	3674.7	3711.2
45°	4073.4	4029.1	3948.3	3943.1	4037.0	4016.1	3815.4	3760.7	3778.9	3838.8	3857.1
47.5°	4164.6	4188.1	4141.2	4154.2	4203.7	4154.2	3995.3	3995.3	3953.5	3990.0	3971.8
50°	4427.9	4354.9	4414.8	4414.8	4467.0	4472.2	4313.2	4255.9	4143.8	4081.2	4081.2
52.5°	4735.4	4740.6	4764.0	4850.0	4938.7	5014.2	4787.5	4542.5	4354.9	4274.1	4263.7
55°	4988.1	5040.3	5134.1	5295.7	5551.1	5655.4	5264.4	4826.6	4597.2	4472.2	4446.1
56°	5126.3	5076.8	5238.3	5459.9	5793.5	5929.0	5342.6	4883.9	4631.1	4490.4	4487.8
57.5°	4993.4	5048.1	5160.2	5509.4	5918.5	6095.8	5371.3	4857.9	4495.6	4352.3	4365.3
60°	3943.1	3995.3	4146.4	4537.3	5178.5	5316.5	4545.1	4005.7	3682.5	3476.6	3479.2
62.5°	2230.8	2269.9	2387.3	2749.5	3148.2	3281.2	2832.9	2473.2	2249.1	2134.5	2098.0
65°	820.9	805.3	823.5	1008.6	1253.6	1365.6	1178.0	995.6	878.3	836.5	820.9
67.5°	307.6	284.1	265.8	284.1	357.0	377.9	346.7	289.3	271.1	278.9	284.1
70°	190.2	179.8	143.3	135.5	132.9	130.3	138.1	145.9	166.8	195.4	200.7
72.5°	132.9	125.1	101.7	96.5	91.2	88.6	101.7	112.1	130.3	151.1	153.7
75°	52.1	54.7	52.1	57.4	60.0	62.6	73.0	80.8	88.6	88.6	86.0
77.5°	10.4	10.4	15.6	20.9	26.1	33.9	49.5	57.4	60.0	57.4	49.5
80°	0.0	0.0	5.2	10.4	20.9	28.7	44.3	49.5	54.7	49.5	39.1
82.5°	0.0	0.0	5.2	13.0	20.9	26.1	41.7	52.1	60.0	54.7	41.7
85°	0.0	0.0	5.2	10.4	15.6	18.2	18.2	13.0	13.0	7.8	5.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)