

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: P652152

Luminaire Tested: **GALN-SA1B-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652152  
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-SA1B-840-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4361.4 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

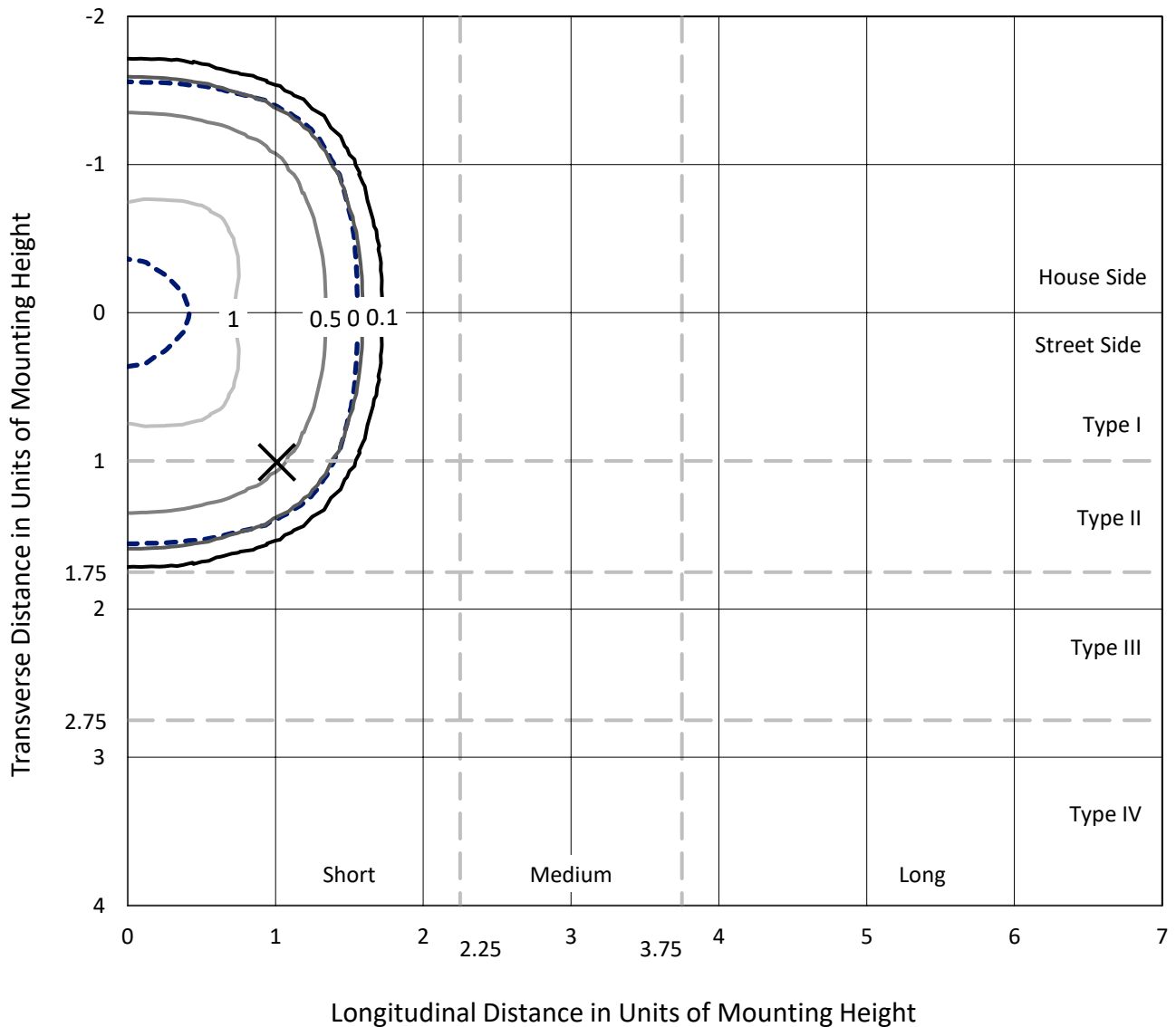
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

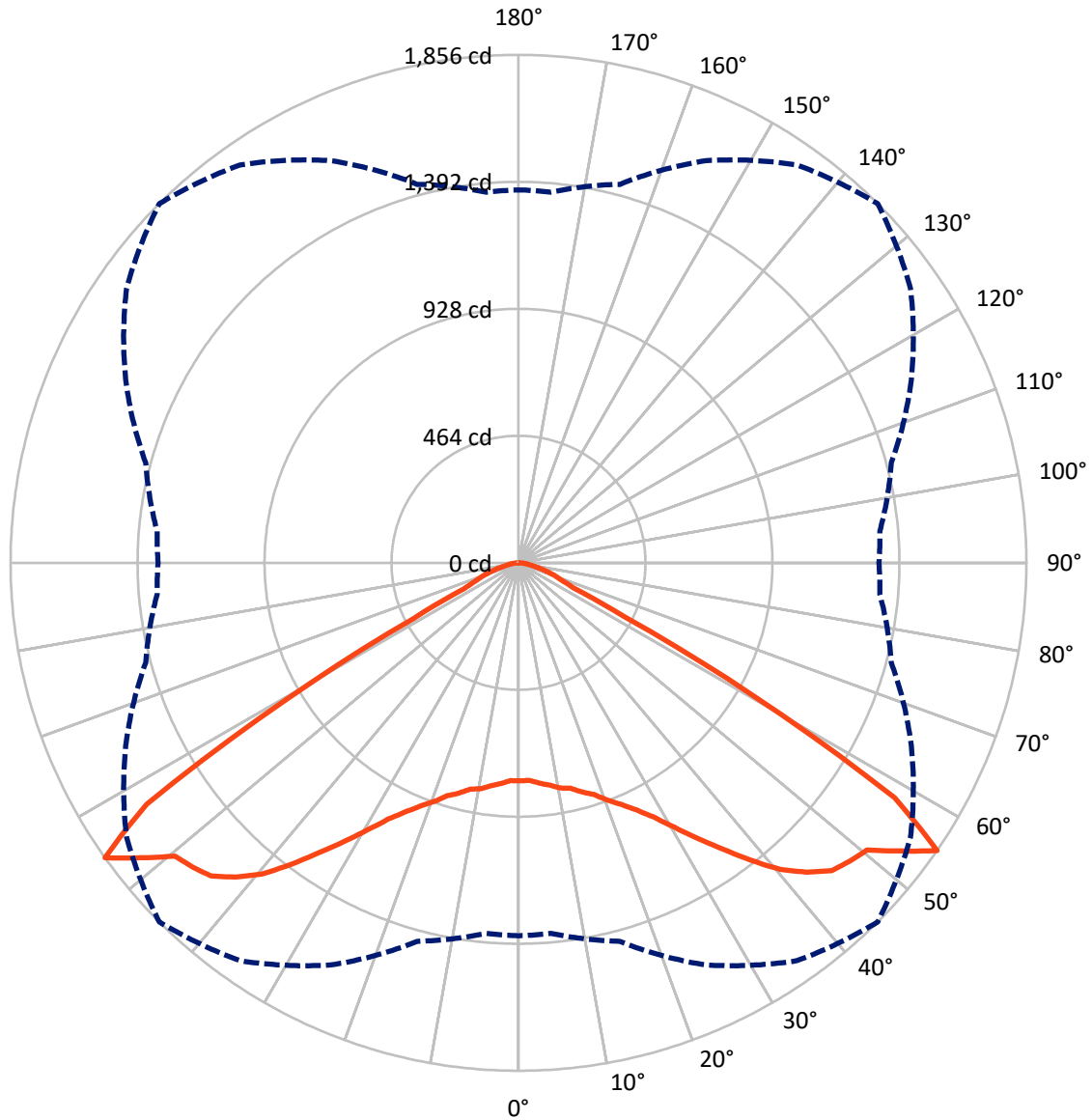
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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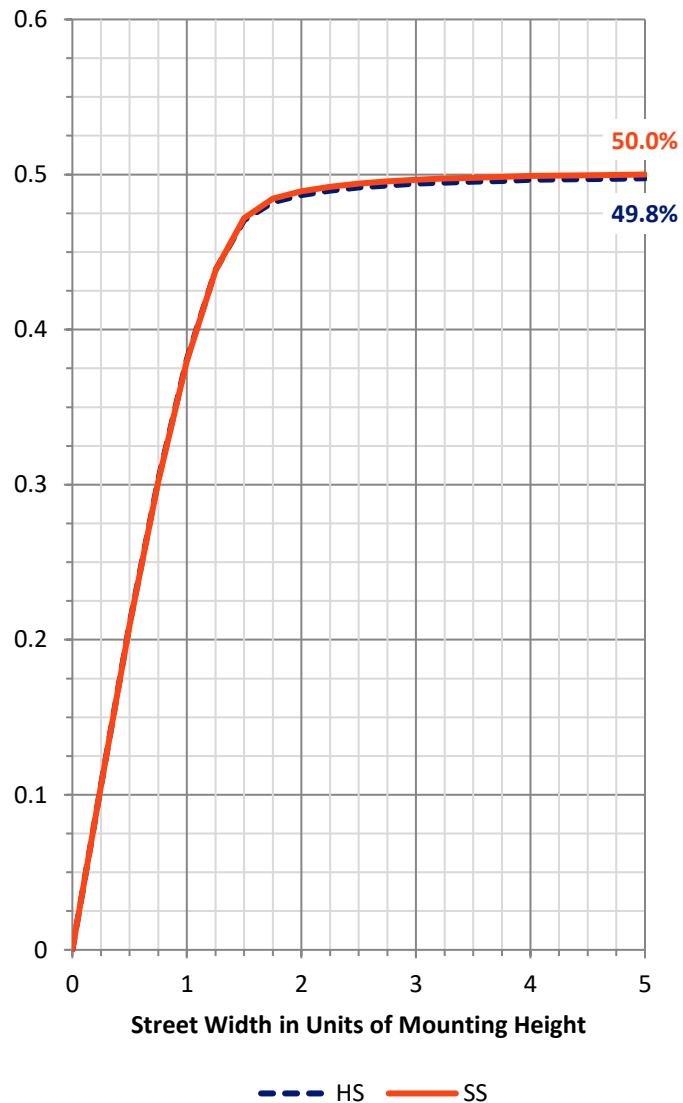
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2180.7	0.0	2180.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2180.7	0.0	2180.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4361.4	0.0	4361.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.8	1.8
10°-20°	246.5	5.7
20°-30°	459.6	10.5
30°-40°	769.6	17.6
40°-50°	1197.5	27.5
50°-60°	1243.4	28.5
60°-70°	263.7	6.0
70°-80°	86.8	2.0
80°-90°	16.5	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°	4361.4	100.0
0°-180°	4361.4	100.0

**Coefficient of Utilization**

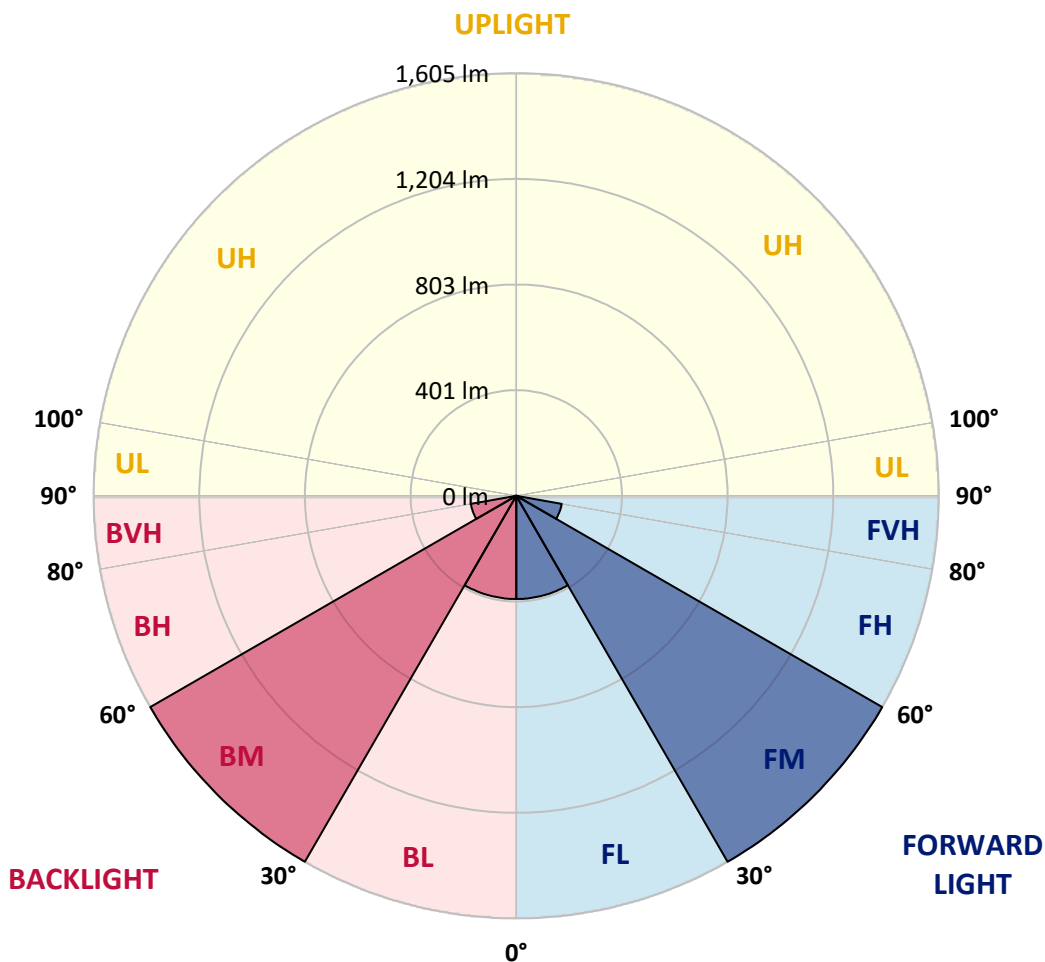


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	392.0	9.0			
FM (30°-60°)	1605.2	36.8			
FH (60°-80°)	175.3	4.0			G0/660
FVH (80°-90°)	8.3	0.2			G0/10
BL (0°-30°)	392.0	9.0	B1/500		
BM (30°-60°)	1605.2	36.8	B2/2500		
BH (60°-80°)	175.3	4.0	B1/500		G0/660
BVH (80°-90°)	8.3	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3
2.5°	805.8	802.1	795.8	800.5	804.2	796.3	799.5	801.1	800.0	795.8	797.4
5°	817.5	815.3	810.1	813.8	809.0	809.0	805.8	801.6	807.9	806.9	809.5
7.5°	817.5	814.8	825.4	818.5	820.6	820.6	815.3	811.1	814.3	809.5	806.9
10°	833.8	837.5	832.7	834.3	833.3	836.9	829.0	826.4	823.8	822.2	819.0
12.5°	853.3	850.6	852.2	851.2	854.8	845.4	840.6	834.8	839.6	832.7	837.5
15°	869.1	867.5	869.1	873.3	869.6	869.1	860.6	854.8	847.5	849.1	841.7
17.5°	890.7	889.1	889.6	893.3	892.8	890.1	883.8	872.8	870.1	865.9	861.2
20°	922.8	920.2	919.1	920.7	923.3	925.4	912.8	908.6	899.6	892.8	884.9
22.5°	950.2	949.2	953.4	946.5	952.3	958.7	946.5	944.4	922.3	918.6	910.1
25°	988.2	986.6	984.0	994.0	1000.8	1000.3	988.7	977.1	960.3	956.0	956.0
27.5°	1028.2	1019.3	1033.0	1035.6	1047.7	1051.4	1041.4	1024.5	1008.7	999.8	1001.9
30°	1078.3	1069.8	1073.0	1092.0	1107.8	1121.5	1096.2	1071.4	1049.3	1033.5	1030.9
32.5°	1128.4	1120.0	1129.4	1147.9	1179.5	1200.0	1175.3	1132.1	1106.3	1083.0	1087.7
35°	1168.9	1175.3	1190.5	1218.4	1251.2	1284.4	1244.8	1211.6	1174.7	1148.9	1152.6
37.5°	1234.3	1253.8	1265.9	1298.1	1344.4	1378.7	1337.6	1294.4	1254.9	1221.1	1209.5
40°	1319.7	1332.8	1346.5	1384.5	1439.3	1473.5	1434.6	1378.1	1339.1	1304.4	1302.8
42.5°	1413.5	1426.1	1440.4	1486.7	1519.4	1545.3	1509.4	1479.3	1436.2	1408.8	1407.2
45°	1522.5	1513.6	1529.4	1560.0	1587.4	1604.3	1581.1	1566.3	1535.2	1509.9	1507.3
47.5°	1595.3	1587.4	1615.8	1643.2	1647.4	1629.0	1633.8	1647.4	1614.8	1573.2	1586.4
50°	1637.4	1637.4	1656.4	1681.7	1673.8	1650.1	1687.6	1688.6	1655.9	1619.0	1619.0
52.5°	1564.2	1580.6	1634.3	1717.1	1743.4	1750.2	1741.8	1706.0	1620.6	1545.3	1541.6
55°	1362.8	1359.2	1431.9	1621.6	1775.0	1856.2	1748.7	1583.7	1410.3	1325.5	1317.0
57.5°	886.4	890.7	999.3	1192.6	1469.3	1620.6	1439.3	1207.4	999.3	882.2	893.3
60°	399.0	413.2	479.0	623.4	861.2	984.5	863.3	655.1	502.7	436.4	442.2
62.5°	229.3	231.9	234.6	278.3	366.8	433.7	381.1	294.1	259.3	247.7	247.7
65°	193.4	191.8	192.3	196.0	205.5	219.2	213.4	205.5	206.6	205.5	203.9
67.5°	164.4	166.5	164.9	167.6	168.1	170.2	173.9	177.1	177.6	178.6	177.6
70°	134.9	135.5	136.5	138.6	139.1	140.7	146.0	148.6	150.2	150.2	152.3
72.5°	103.3	102.8	103.9	106.0	108.6	109.1	113.9	117.5	119.7	117.0	117.5
75°	68.0	68.5	70.1	71.7	75.4	79.1	80.7	84.4	84.9	85.9	83.3
77.5°	40.6	41.6	43.2	46.3	49.5	52.7	56.4	59.0	60.0	59.0	55.8
80°	26.3	26.3	28.4	31.1	34.8	37.4	39.5	41.6	43.2	41.6	40.6
82.5°	16.3	16.3	19.0	22.1	24.8	26.3	29.5	32.1	33.7	32.7	31.1
85°	8.4	9.0	11.1	13.7	15.8	16.9	16.3	14.7	13.2	12.6	11.6
87.5°	2.6	2.6	3.2	3.2	2.6	2.6	3.2	2.6	3.2	3.2	3.2
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)