

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: P458515

Luminaire Tested: **GALN-SA1A-735-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458515  
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-SA1A-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4511 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

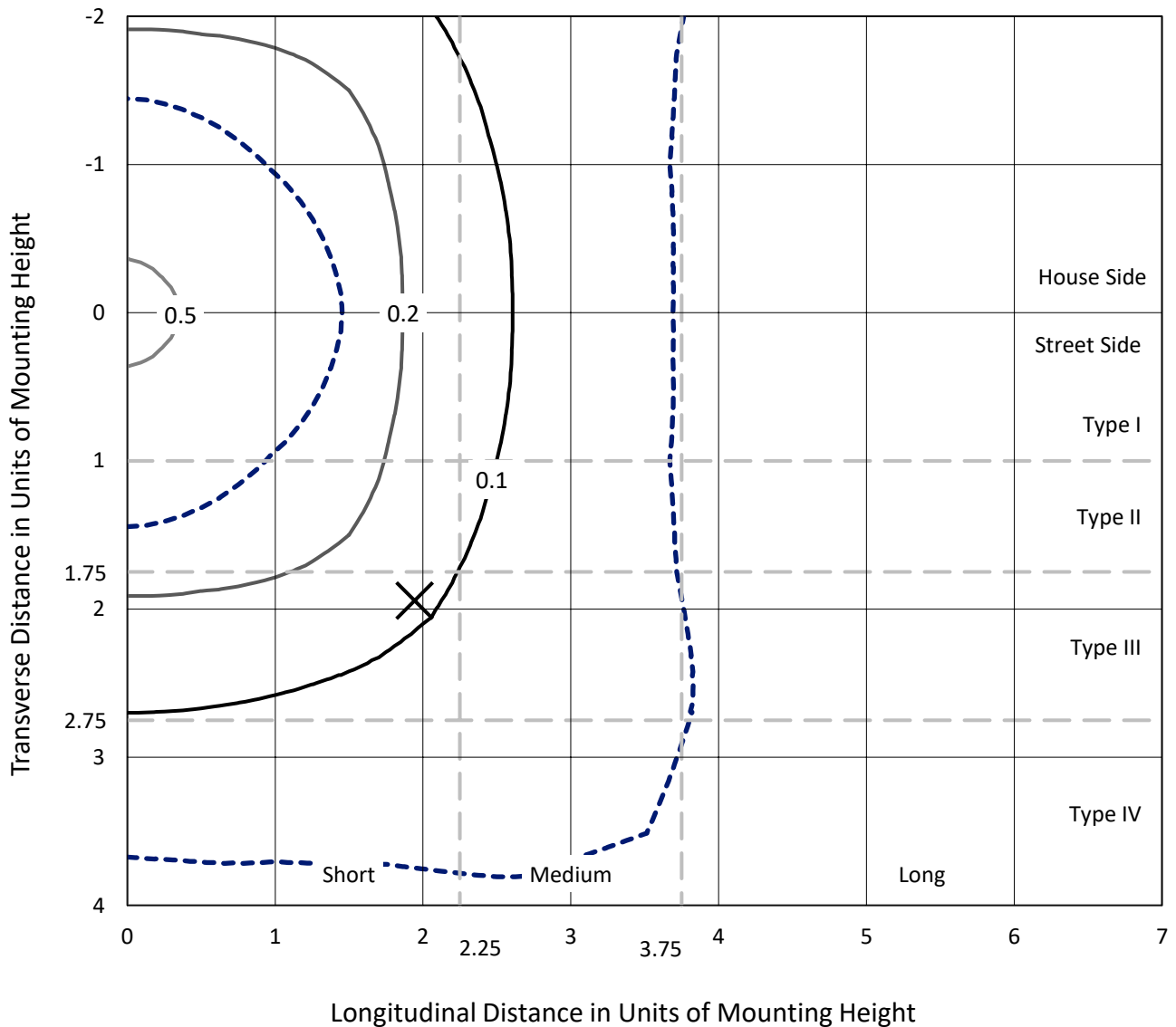
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458515  
 CATALOG NUMBER: GALN-SA1A-735-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

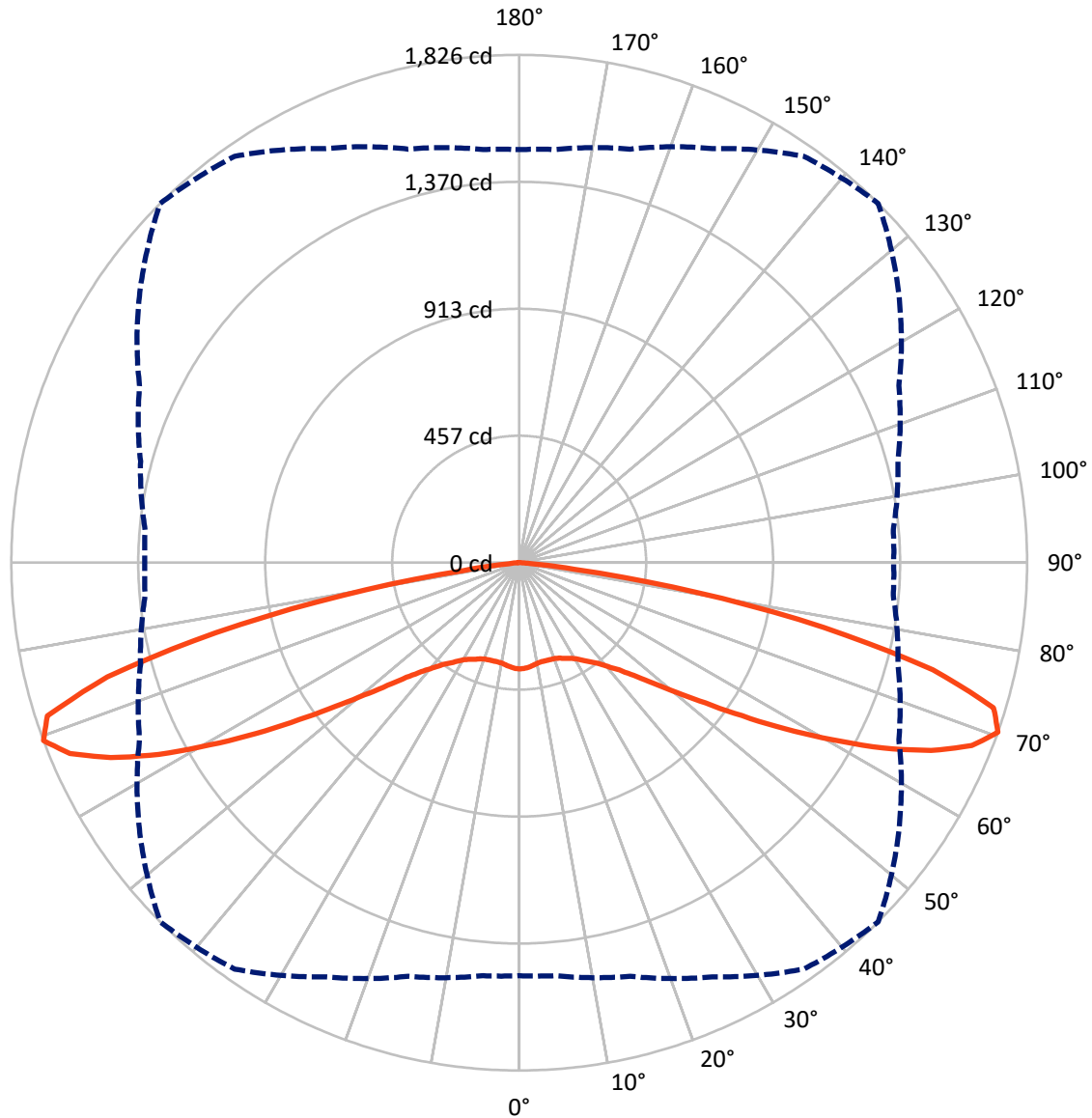
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc  
 Type V - Short - N/A

REPORT NUMBER: P458515  
CATALOG NUMBER: GALN-SA1A-735-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P458515

CATALOG NUMBER: GALN-SA1A-735-U-5WQ

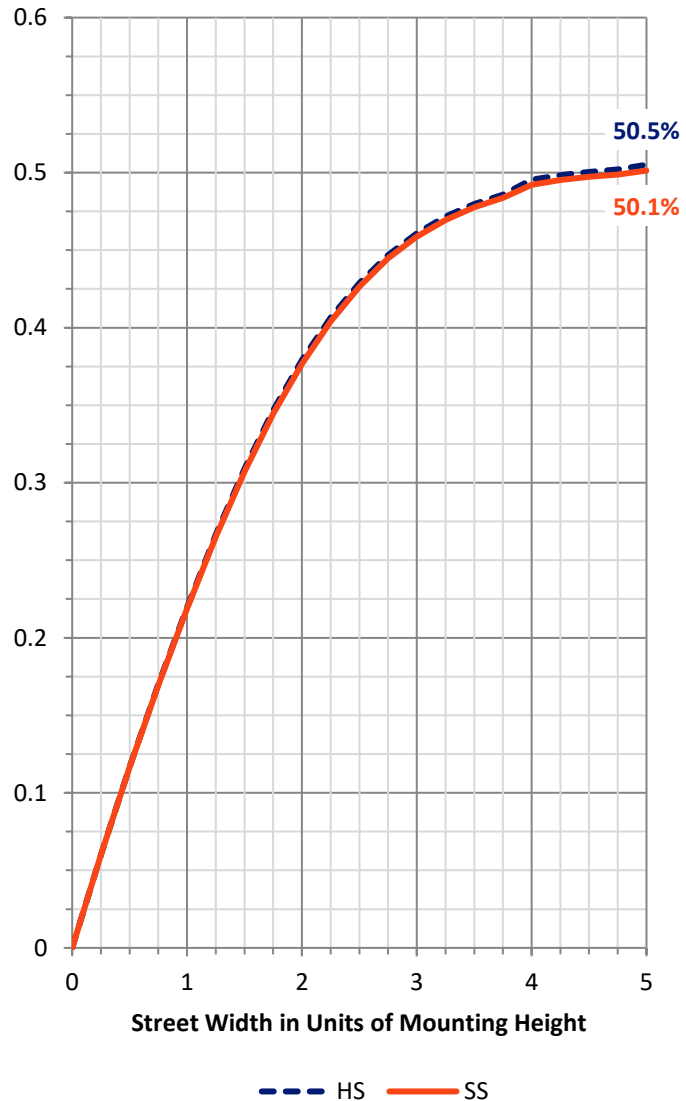
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2255.5	0.0	2255.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2255.5	0.0	2255.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4511.0	0.0	4511.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.7	0.8
10°-20°	104.6	2.3
20°-30°	178.1	3.9
30°-40°	276.1	6.1
40°-50°	464.8	10.3
50°-60°	845.6	18.7
60°-70°	1431.6	31.7
70°-80°	1108.1	24.6
80°-90°	66.4	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°	4511.0	100.0
0°-180°	4511.0	100.0



REPORT NUMBER: P458515

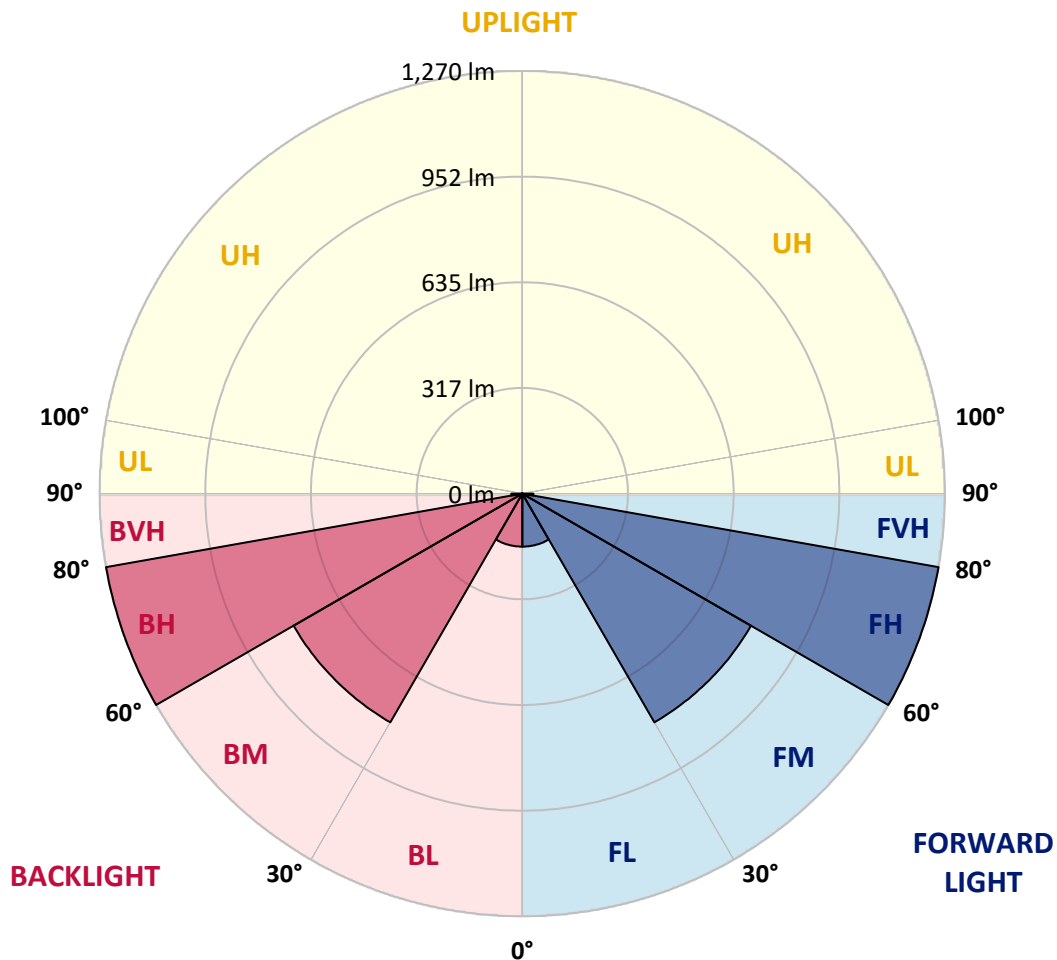
CATALOG NUMBER: GALN-SA1A-735-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	159.2	3.5			
FM (30°-60°)	793.2	17.6			
FH (60°-80°)	1269.8	28.2			G1/1800
FVH (80°-90°)	33.2	0.7			G1/100
BL (0°-30°)	159.2	3.5	B1/500		
BM (30°-60°)	793.2	17.6	B1/1000		
BH (60°-80°)	1269.8	28.2	B3/2500		G1/1800
BVH (80°-90°)	33.2	0.7			G1/100
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





REPORT NUMBER: P458515  
 CATALOG NUMBER: GALN-SA1A-735-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9
2.5°	381.0	381.2	381.2	380.7	380.5	380.5	380.2	380.2	381.0	381.2	381.4
5°	377.6	377.6	377.6	377.4	376.9	376.9	376.4	376.4	376.7	377.4	376.9
7.5°	373.1	373.6	373.6	372.6	371.9	371.9	371.7	371.9	372.1	372.9	372.6
10°	371.7	371.9	370.7	369.0	367.9	367.1	367.4	367.9	369.0	369.5	369.8
12.5°	372.6	372.6	370.5	368.1	365.9	365.0	364.8	366.4	368.6	370.0	370.5
15°	373.8	373.3	370.7	367.6	365.5	365.2	365.0	366.2	369.3	372.1	372.4
17.5°	374.5	374.3	371.0	367.1	365.9	365.9	365.7	366.7	370.0	373.6	373.8
20°	376.9	376.2	372.4	368.3	367.4	367.9	367.1	368.3	371.9	376.2	377.1
22.5°	381.7	381.0	377.1	373.1	372.6	372.6	372.4	373.6	377.4	381.9	382.6
25°	387.4	386.7	383.1	380.2	380.7	381.7	381.2	381.4	384.5	388.3	389.5
27.5°	395.0	393.8	390.7	388.3	389.8	389.8	389.8	389.5	391.4	395.0	396.2
30°	404.3	403.8	400.5	400.3	401.4	400.3	400.3	400.5	400.7	404.1	405.3
32.5°	416.5	415.5	413.8	413.4	416.7	417.6	414.3	411.2	412.9	416.2	416.9
35°	436.5	435.0	432.7	430.0	432.7	437.2	430.0	427.7	431.9	436.5	436.9
37.5°	463.6	462.9	459.1	454.3	454.1	458.9	451.5	451.2	459.3	464.8	465.5
40°	497.7	498.4	493.6	489.1	486.7	490.6	484.8	487.0	494.8	501.0	500.6
42.5°	545.6	543.0	535.6	531.3	528.7	527.2	525.8	529.1	538.0	544.6	549.9
45°	601.6	600.6	591.3	586.1	580.4	578.2	577.8	583.7	594.4	602.5	603.2
47.5°	664.9	662.8	656.8	651.4	649.2	646.6	644.2	648.7	659.5	665.2	666.9
50°	730.2	730.7	730.7	729.8	731.9	732.4	725.9	727.6	733.6	733.1	732.6
52.5°	804.8	807.4	819.8	821.0	831.2	838.2	826.5	819.6	817.4	804.6	805.5
55°	892.5	894.9	913.4	932.0	959.7	971.3	946.8	925.4	910.1	890.6	891.5
57.5°	1001.8	1003.0	1020.7	1056.4	1100.2	1127.6	1084.5	1042.1	1011.1	992.5	985.2
60°	1119.5	1120.7	1146.4	1190.0	1258.2	1291.5	1238.2	1168.8	1129.8	1101.4	1103.3
62.5°	1260.8	1265.6	1288.7	1348.7	1431.4	1468.8	1398.0	1305.4	1252.5	1217.2	1218.6
65°	1412.1	1420.2	1445.5	1511.4	1587.7	1627.9	1541.2	1434.3	1368.5	1325.4	1329.9
67.5°	1510.3	1517.4	1553.9	1626.8	1721.8	1755.2	1643.2	1518.6	1436.4	1384.9	1375.4
70°	1485.2	1491.2	1539.8	1643.2	1784.0	1826.2	1667.5	1506.2	1409.5	1350.2	1346.3
72.5°	1311.1	1298.7	1369.7	1518.1	1713.0	1783.8	1591.0	1375.6	1253.9	1192.9	1185.8
75°	868.9	895.8	1000.6	1175.5	1449.3	1536.9	1358.0	1104.5	951.3	900.6	892.7
77.5°	290.4	311.2	404.3	666.4	988.0	1119.8	989.4	722.4	511.0	411.7	413.6
80°	77.0	76.0	98.4	183.2	426.9	648.5	497.0	244.7	133.9	97.0	92.0
82.5°	27.6	31.0	39.8	50.7	113.2	201.6	142.2	68.6	50.3	37.2	36.0
85°	12.2	11.9	17.2	20.3	28.4	37.6	33.4	29.1	25.5	16.9	15.7
87.5°	2.6	2.6	4.1	3.1	5.0	5.0	6.2	7.4	7.6	5.0	4.1
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)