

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: P651392

Luminaire Tested: **GALN-SA5D-840-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651392  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-840-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28548.6 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

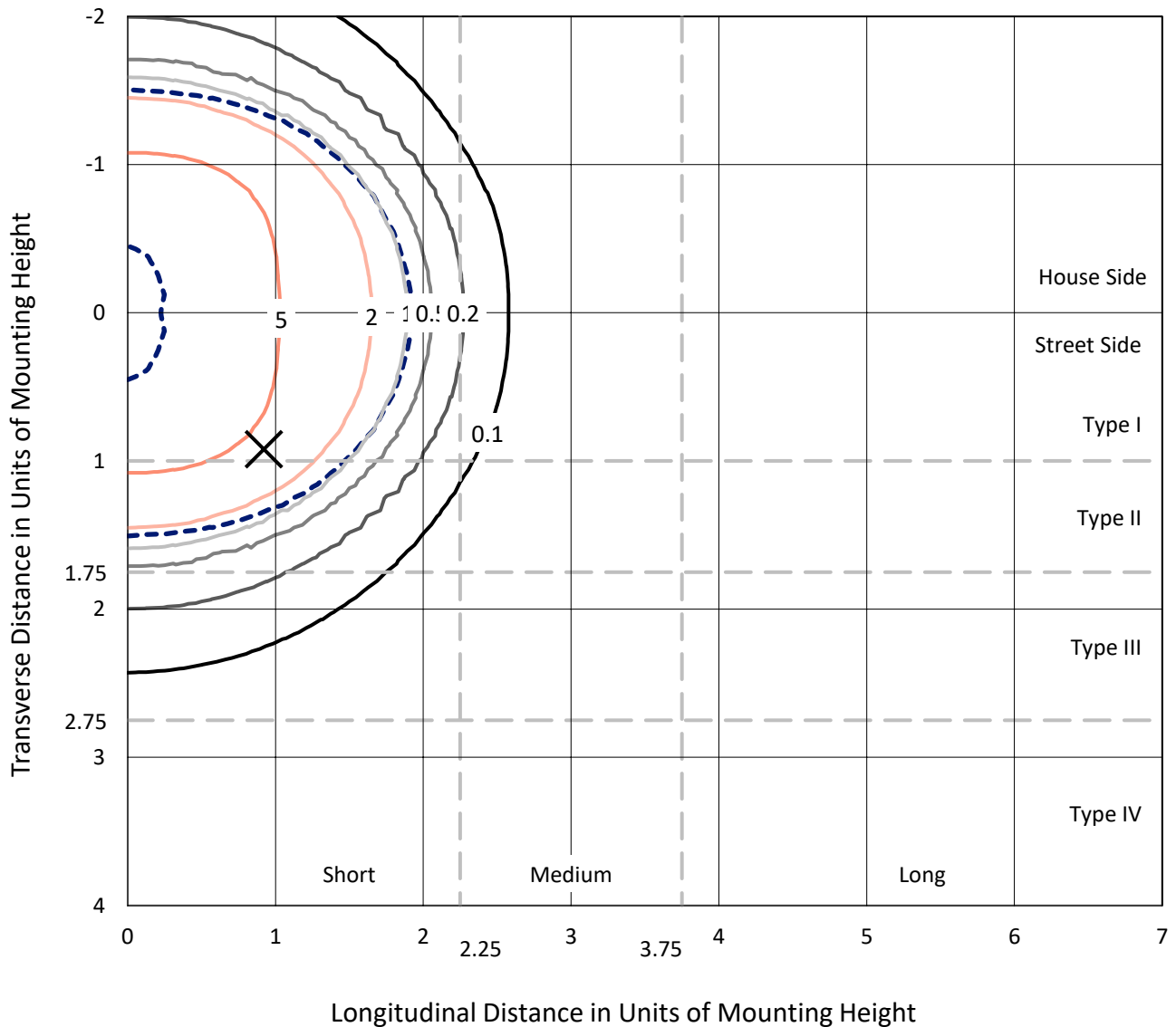
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651392  
 CATALOG NUMBER: GALN-SA5D-840-U-RW-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

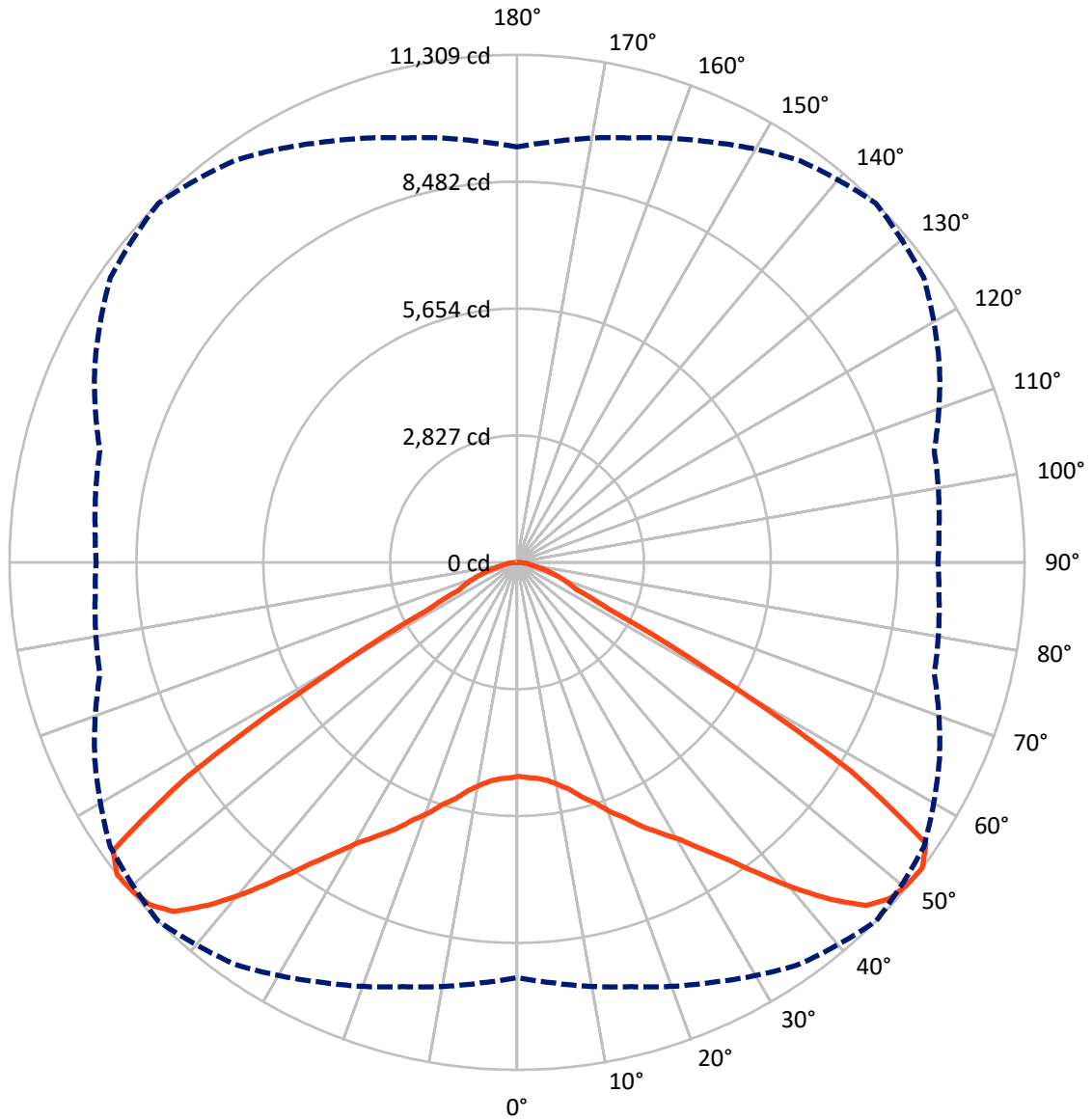
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type V - Short - N/A

REPORT NUMBER: P651392  
CATALOG NUMBER: GALN-SA5D-840-U-RW-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P651392  
 CATALOG NUMBER: GALN-SA5D-840-U-RW-GRSWH

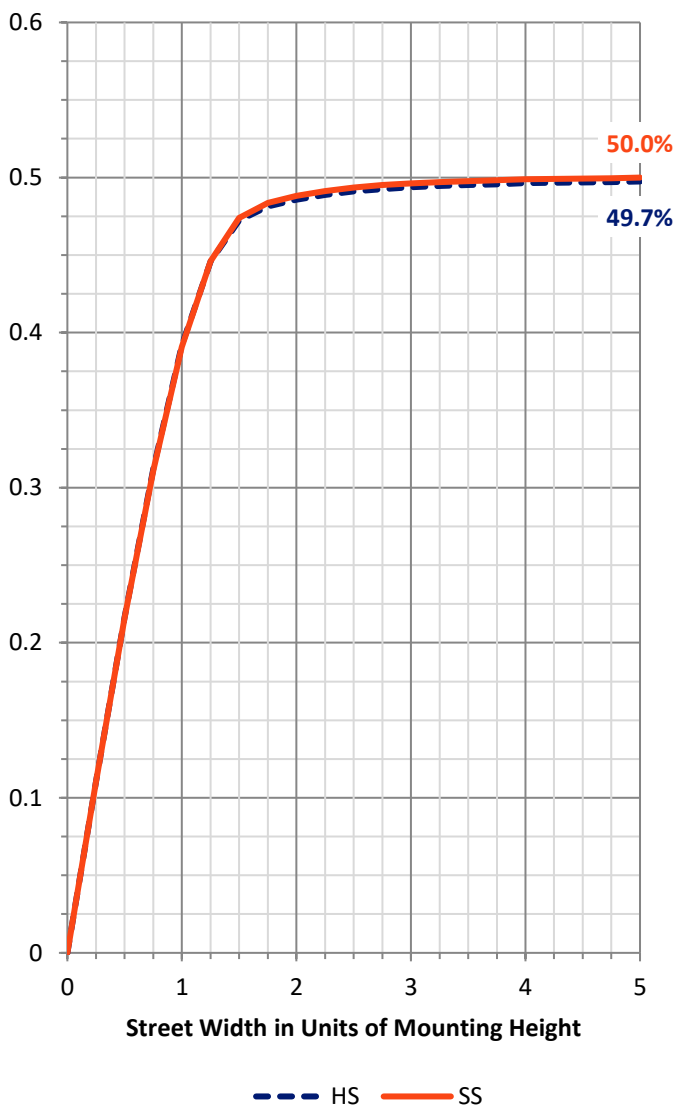
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14274.3	0.0	14274.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14274.3	0.0	14274.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28548.6	0.0	28548.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	468.9	1.6
10°-20°	1540.6	5.4
20°-30°	2933.2	10.3
30°-40°	5036.5	17.6
40°-50°	7741.2	27.1
50°-60°	7861.0	27.5
60°-70°	2190.8	7.7
70°-80°	646.2	2.3
80°-90°	130.2	0.5
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°	28548.6	100.0
0°-180°	28548.6	100.0

**Coefficient of Utilization**



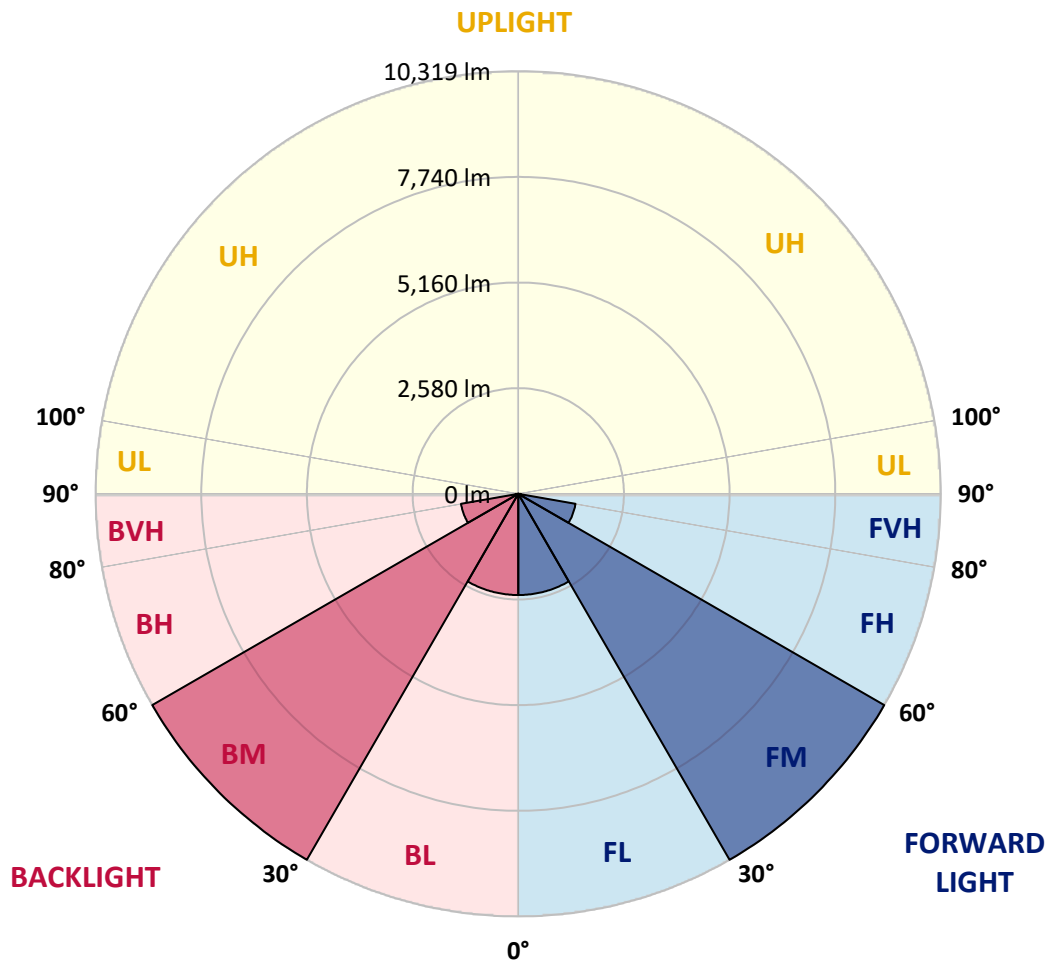
REPORT NUMBER: P651392  
 CATALOG NUMBER: GALN-SA5D-840-U-RW-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2471.3	8.7			
FM (30°-60°)	10319.4	36.1			
FH (60°-80°)	1418.5	5.0			G1/1800
FVH (80°-90°)	65.1	0.2			G1/100
BL (0°-30°)	2471.3	8.7	B3/2500		
BM (30°-60°)	10319.4	36.1	B5		
BH (60°-80°)	1418.5	5.0	B3/2500		G1/1800
BVH (80°-90°)	65.1	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





REPORT NUMBER: P651392

CATALOG NUMBER: GALN-SA5D-840-U-RW-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3	4772.3
2.5°	4782.9	4733.3	4751.0	4761.7	4807.7	4804.1	4793.5	4807.7	4821.9	4825.4	4818.3
5°	4779.3	4743.9	4758.1	4768.7	4814.8	4839.6	4832.5	4892.8	4935.2	4924.6	4977.8
7.5°	4751.0	4772.3	4754.6	4807.7	4846.7	4906.9	4970.6	5027.3	5080.5	5140.7	5151.4
10°	4814.8	4814.8	4846.7	4889.2	4991.9	5038.0	5130.1	5211.6	5314.4	5385.2	5356.8
12.5°	4882.1	4892.8	4892.8	5002.5	5087.6	5190.3	5275.3	5385.2	5530.4	5615.4	5658.0
15°	4949.5	4956.5	4991.9	5140.7	5268.3	5431.3	5509.2	5608.4	5689.9	5849.3	5852.9
17.5°	5009.7	5048.6	5154.9	5321.4	5480.9	5636.7	5760.8	5863.5	5934.3	5998.1	5984.0
20°	5236.4	5264.7	5374.6	5541.1	5778.4	5930.8	5973.3	5991.0	6037.1	6164.6	6125.7
22.5°	5456.1	5466.7	5569.4	5824.5	5991.0	6193.0	6239.0	6228.4	6246.1	6278.0	6334.7
25°	5682.8	5700.6	5842.3	6058.3	6292.2	6533.1	6572.1	6490.6	6465.8	6501.2	6504.7
27.5°	5973.3	5976.8	6157.5	6345.3	6611.0	6837.8	6898.0	6834.2	6717.3	6745.7	6791.7
30°	6341.8	6317.0	6497.7	6766.9	7046.8	7174.3	7277.1	7245.2	7117.6	7092.8	7053.9
32.5°	6766.9	6774.0	6937.0	7231.0	7415.3	7627.9	7737.7	7684.6	7603.1	7560.5	7585.3
35°	7365.6	7397.5	7507.4	7751.8	8049.5	8155.8	8329.3	8216.0	8003.4	8056.5	8102.6
37.5°	7858.1	7950.2	8155.8	8446.2	8623.4	8818.2	8882.1	8729.7	8573.8	8510.0	8662.4
40°	8612.8	8584.4	8811.2	9101.7	9363.9	9558.7	9477.2	9324.9	8938.7	8942.3	8984.7
42.5°	9261.1	9275.3	9448.9	9796.1	10153.9	10274.4	10015.7	9643.7	9215.1	9169.0	9261.1
45°	9806.7	9863.4	9962.6	10426.7	10777.5	10908.5	10430.3	9990.9	9417.0	9225.7	9378.0
47.5°	10001.6	10093.7	10309.8	10734.9	11082.2	11188.4	10805.8	10175.2	9604.8	9293.0	9374.5
50°	10029.9	9998.1	10352.3	10742.0	11046.7	11277.1	10940.5	10309.8	9558.7	9395.7	9370.9
52.5°	9254.0	9409.9	9789.0	10323.9	10940.5	11308.9	11060.9	10384.2	9622.5	9438.3	9378.0
55°	7489.7	7305.4	7996.3	8896.2	10029.9	11053.9	11018.4	10423.2	9661.5	9509.1	9427.6
57.5°	4180.6	4233.8	4623.5	5601.3	7064.5	8765.1	9796.1	10012.2	9643.7	9555.2	9597.7
60°	1934.4	1952.1	2118.6	2575.6	3482.7	4970.6	6327.6	7705.7	8339.9	8467.5	8467.5
62.5°	1442.0	1434.8	1477.4	1558.9	1750.2	2285.2	3050.4	4145.2	5016.7	5626.1	5785.6
65°	1303.8	1300.3	1321.5	1349.8	1364.0	1438.4	1608.5	1945.1	2228.5	2391.5	2363.1
67.5°	1140.8	1137.3	1144.3	1162.1	1186.9	1225.8	1268.4	1339.2	1438.4	1431.3	1413.6
70°	921.1	921.1	931.7	946.0	974.3	1020.4	1069.9	1119.5	1204.6	1222.3	1218.8
72.5°	680.2	669.6	690.9	719.2	747.6	804.2	857.4	903.4	963.7	981.4	974.3
75°	432.3	439.3	453.5	485.3	535.0	574.0	630.7	669.6	708.5	722.8	726.3
77.5°	240.9	248.0	272.8	311.8	361.4	403.8	453.5	485.3	510.2	513.7	517.3
80°	145.2	148.8	173.6	209.0	251.5	297.6	336.6	368.4	389.7	379.1	375.5
82.5°	88.6	92.1	113.4	145.2	180.6	216.1	258.6	286.9	308.2	294.1	279.9
85°	46.1	49.6	67.3	88.6	116.9	134.6	134.6	120.4	116.9	109.8	106.3
87.5°	14.2	14.2	17.7	21.3	17.7	21.3	24.8	28.3	28.3	31.9	28.3
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)