

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: P651658

Luminaire Tested: **GALN-SA1A-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4061.2 lumens
Efficiency: N/A
Efficacy: 123.1 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

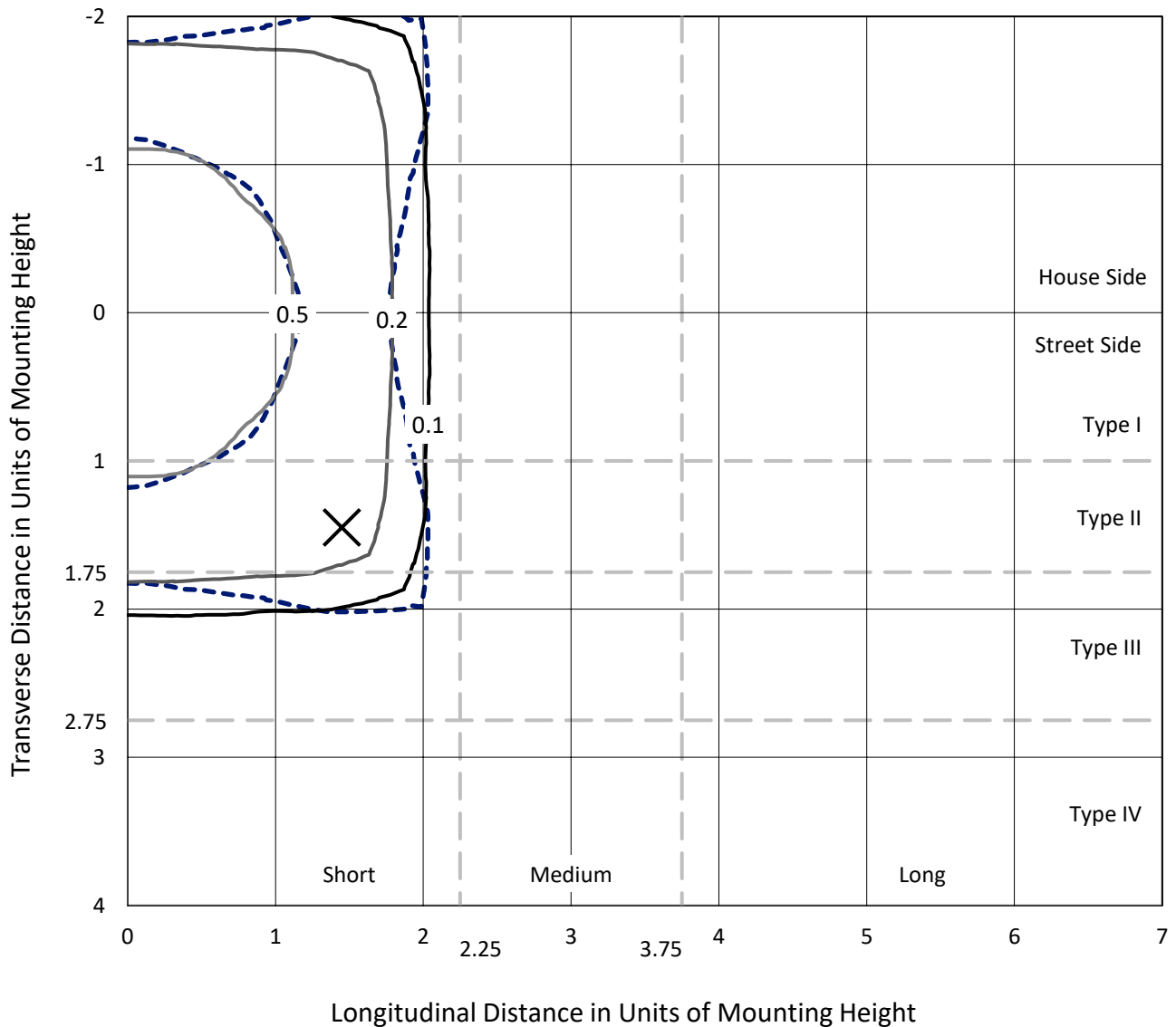
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

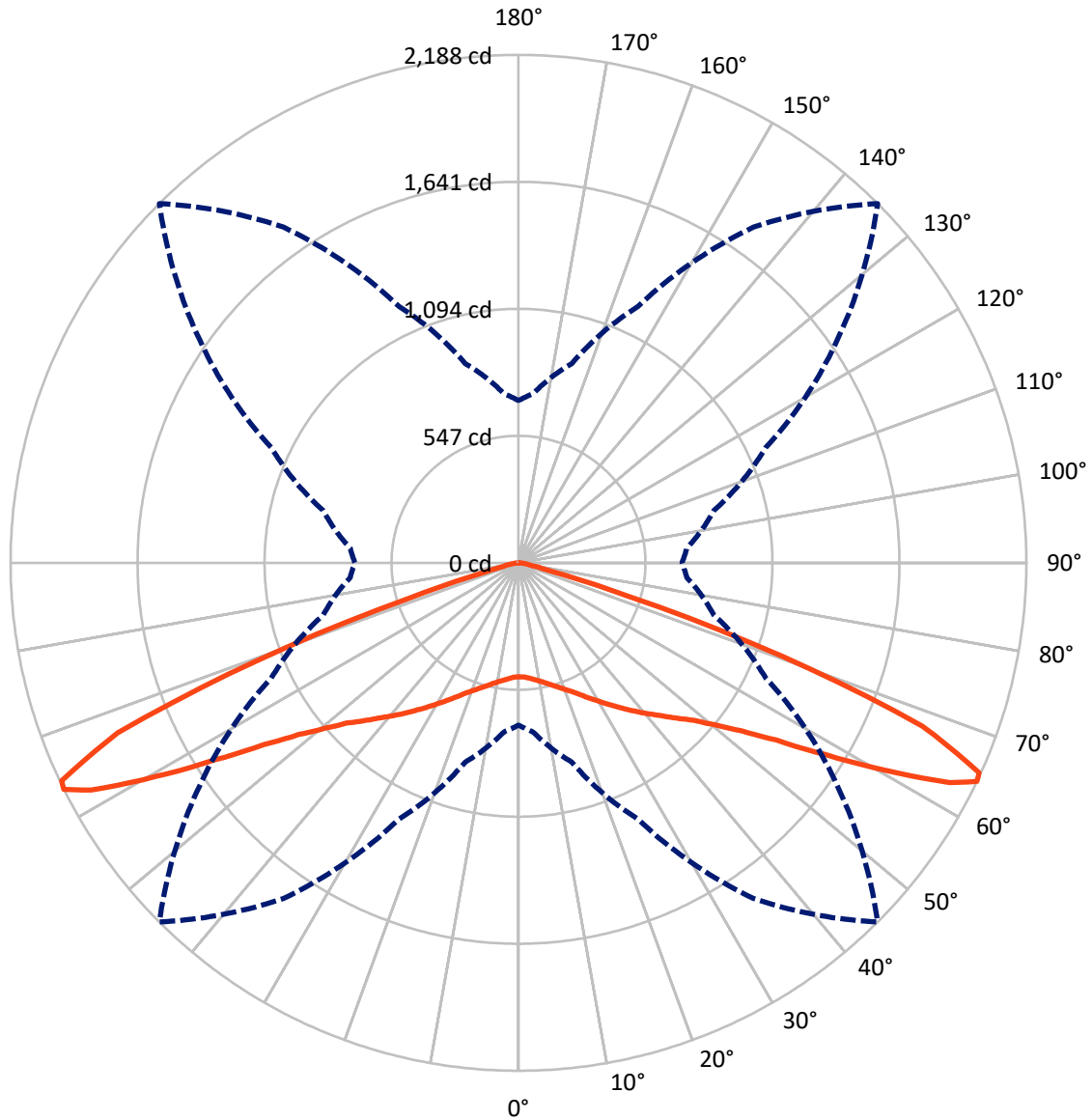
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2030.6	0.0	2030.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2030.6	0.0	2030.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4061.2	0.0	4061.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	1.2
10°-20°	155.6	3.8
20°-30°	294.0	7.2
30°-40°	486.8	12.0
40°-50°	760.0	18.7
50°-60°	1175.0	28.9
60°-70°	1013.1	24.9
70°-80°	114.8	2.8
80°-90°	13.8	0.3
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°	4061.2	100.0
0°-180°	4061.2	100.0

Coefficient of Utilization

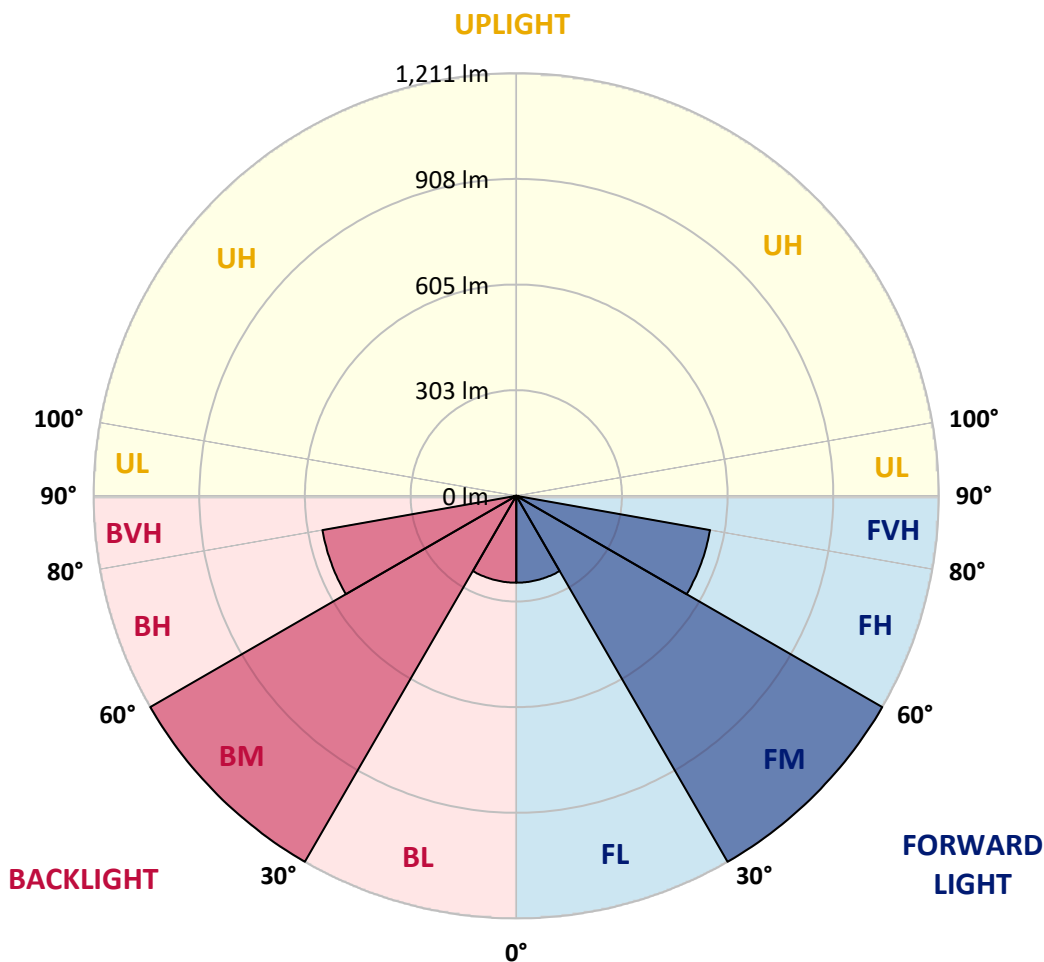


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.9	6.1			
FM (30°-60°)	1210.9	29.8			
FH (60°-80°)	564.0	13.9			G0/660
FVH (80°-90°)	6.9	0.2			G0/10
BL (0°-30°)	248.9	6.1	B1/500		
BM (30°-60°)	1210.9	29.8	B2/2500		
BH (60°-80°)	564.0	13.9	B2/1000		G0/660
BVH (80°-90°)	6.9	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°	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9
2.5°	492.8	493.8	493.0	492.8	492.6	492.6	492.6	492.8	493.7	494.3	493.8
5°	499.0	499.9	499.5	499.2	499.0	499.2	498.8	498.6	499.2	499.2	499.0
7.5°	506.8	507.9	507.5	507.9	508.0	508.3	507.2	506.4	506.1	506.8	506.4
10°	517.3	518.1	518.4	518.6	519.1	518.8	517.6	516.0	515.8	515.6	515.4
12.5°	529.2	529.8	530.0	530.8	531.5	531.8	530.3	528.9	526.8	527.2	526.4
15°	542.5	543.8	543.5	544.9	546.6	547.0	545.5	543.4	541.4	540.3	539.7
17.5°	558.8	559.7	559.3	560.5	562.7	563.8	562.5	559.7	557.8	555.4	554.1
20°	578.2	579.7	580.1	580.1	582.1	583.1	581.2	580.4	577.3	575.6	574.6
22.5°	600.1	600.8	602.1	603.3	605.3	604.8	604.3	602.9	600.1	598.6	596.9
25°	624.9	625.5	628.7	631.5	632.2	631.8	630.9	630.2	627.6	624.2	622.9
27.5°	653.7	655.0	659.3	661.9	661.9	662.1	660.4	662.5	656.9	652.9	652.4
30°	689.9	690.7	694.3	696.9	695.7	694.6	694.2	696.3	690.3	683.0	681.2
32.5°	725.5	728.6	731.8	737.4	732.8	730.9	730.5	732.0	725.1	717.0	714.6
35°	763.8	766.0	772.0	776.7	772.6	768.2	770.1	774.8	766.7	755.6	755.2
37.5°	806.2	808.1	815.9	820.8	817.8	810.1	813.3	818.9	810.7	797.2	794.4
40°	850.3	854.4	864.0	869.3	864.3	854.0	860.0	866.0	858.7	843.0	836.7
42.5°	899.8	906.3	920.2	922.8	913.3	899.4	909.9	919.5	914.4	896.3	894.0
45°	957.6	961.5	978.8	984.3	971.2	953.8	966.9	984.6	980.7	959.7	955.3
47.5°	1022.4	1026.0	1043.8	1052.3	1035.7	1012.3	1035.9	1059.0	1056.5	1034.2	1032.1
50°	1098.9	1099.8	1124.6	1134.0	1117.4	1097.3	1118.3	1147.0	1137.5	1108.9	1108.4
52.5°	1182.9	1184.0	1215.1	1233.4	1224.2	1201.4	1226.3	1243.8	1219.6	1182.2	1179.4
55°	1255.5	1260.9	1303.6	1352.2	1364.9	1348.3	1355.8	1347.6	1288.2	1235.8	1227.6
57.5°	1285.2	1295.8	1360.5	1451.3	1533.9	1558.4	1500.3	1422.5	1315.6	1241.3	1233.4
60°	1212.7	1224.2	1324.6	1496.9	1707.7	1814.2	1650.9	1435.2	1253.4	1149.1	1136.6
62.5°	971.2	974.4	1122.1	1389.6	1809.0	2084.8	1714.4	1326.9	1072.5	930.7	925.8
64°	698.9	732.0	888.6	1218.4	1764.7	2187.8	1677.8	1175.3	871.2	727.7	704.4
65°	522.7	531.8	716.3	1040.5	1686.6	2180.0	1606.8	1030.3	721.5	556.9	531.1
67.5°	197.5	198.6	264.3	518.6	1200.7	1875.7	1226.3	560.5	303.9	219.8	211.8
70°	81.9	83.4	97.1	174.4	516.0	1204.4	591.3	202.2	111.2	90.2	88.8
72.5°	60.0	60.9	64.9	77.5	158.8	494.5	194.4	85.9	65.2	58.3	57.6
75°	47.1	47.5	50.5	57.0	74.0	137.0	80.9	59.0	49.7	44.7	44.3
77.5°	35.9	37.0	39.2	43.5	49.7	64.9	53.6	44.1	38.3	34.2	33.6
80°	24.7	26.0	30.1	31.9	33.3	42.1	36.6	33.3	29.9	25.0	23.5
82.5°	15.3	16.1	20.2	21.7	21.1	23.6	23.5	23.9	21.3	15.5	14.4
85°	8.0	8.4	10.9	11.4	10.5	9.7	12.0	14.0	13.1	8.8	8.6
87.5°	1.7	1.9	2.4	2.2	2.4	2.4	3.0	4.5	4.7	3.0	2.8
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)