

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: P458239

Luminaire Tested: **GALN-SA9C-827-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458239  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-827-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46770 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

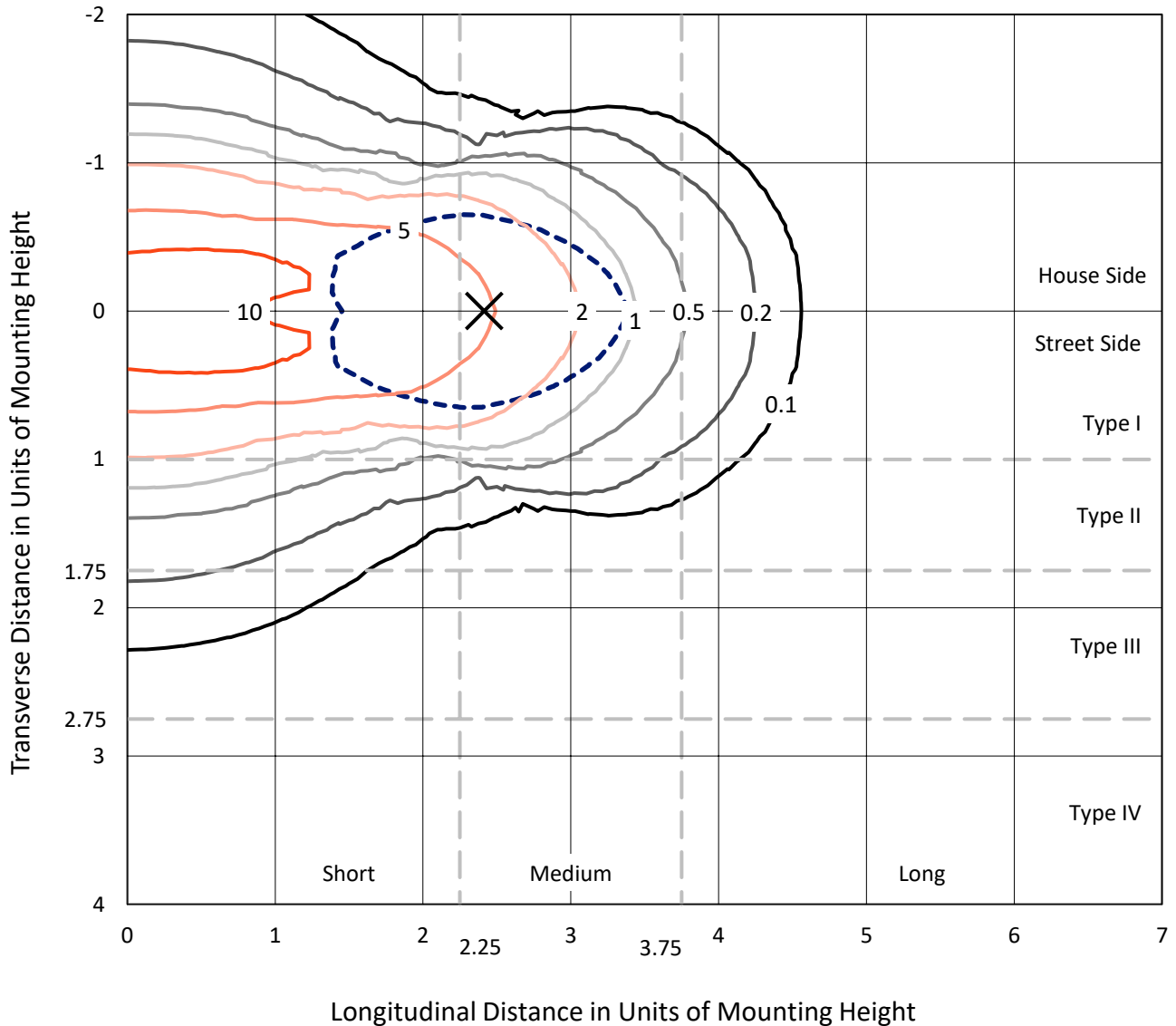
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

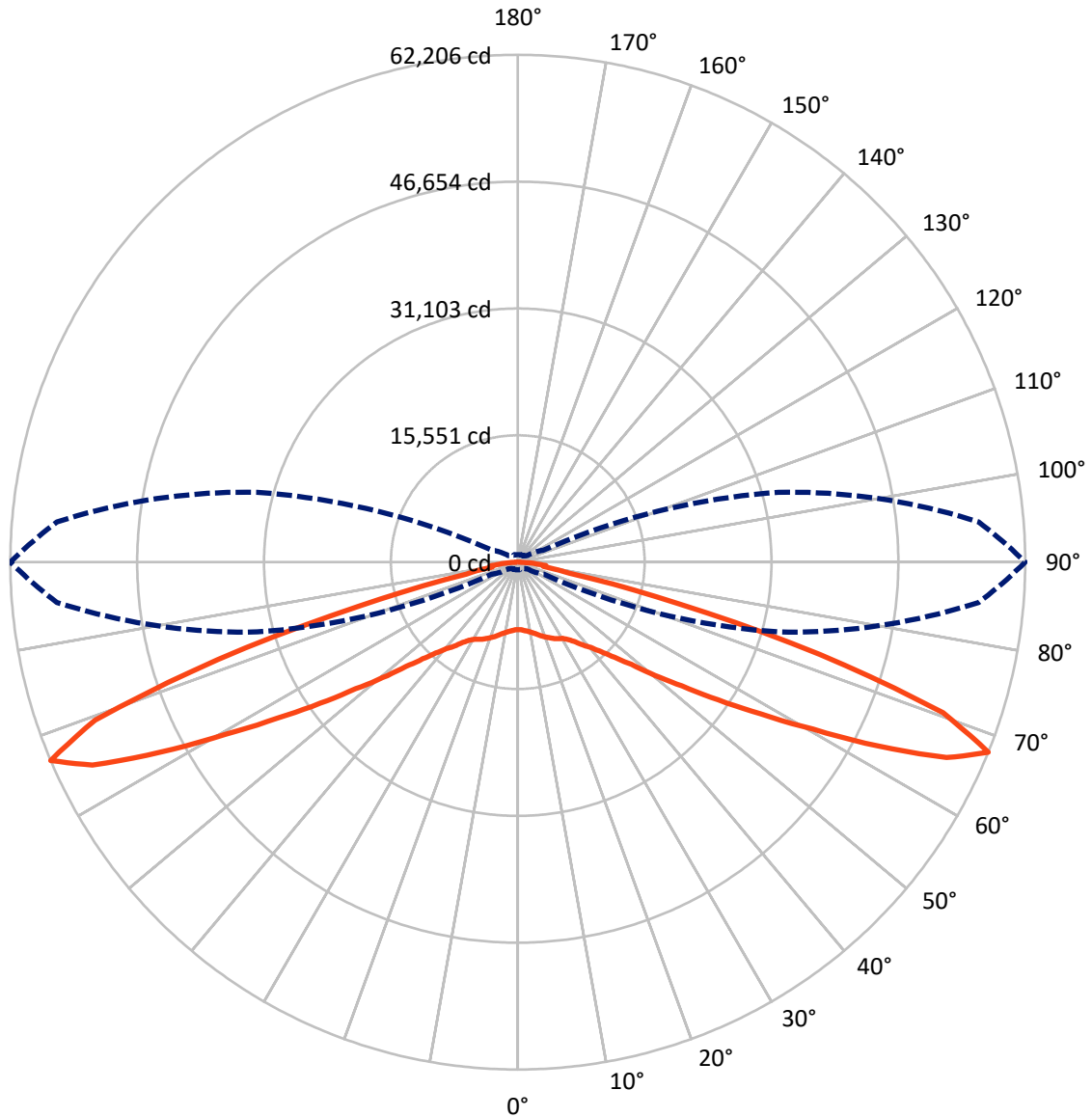
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23385.0	0.0	23385.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23385.0	0.0	23385.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	46770.0	0.0	46770.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	825.5	1.8
10°-20°	2641.1	5.6
20°-30°	4420.6	9.5
30°-40°	5988.7	12.8
40°-50°	7585.7	16.2
50°-60°	9476.4	20.3
60°-70°	11139.1	23.8
70°-80°	4261.2	9.1
80°-90°	431.7	0.9
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°	46770.0	100.0
0°-180°	46770.0	100.0

**Coefficient of Utilization**



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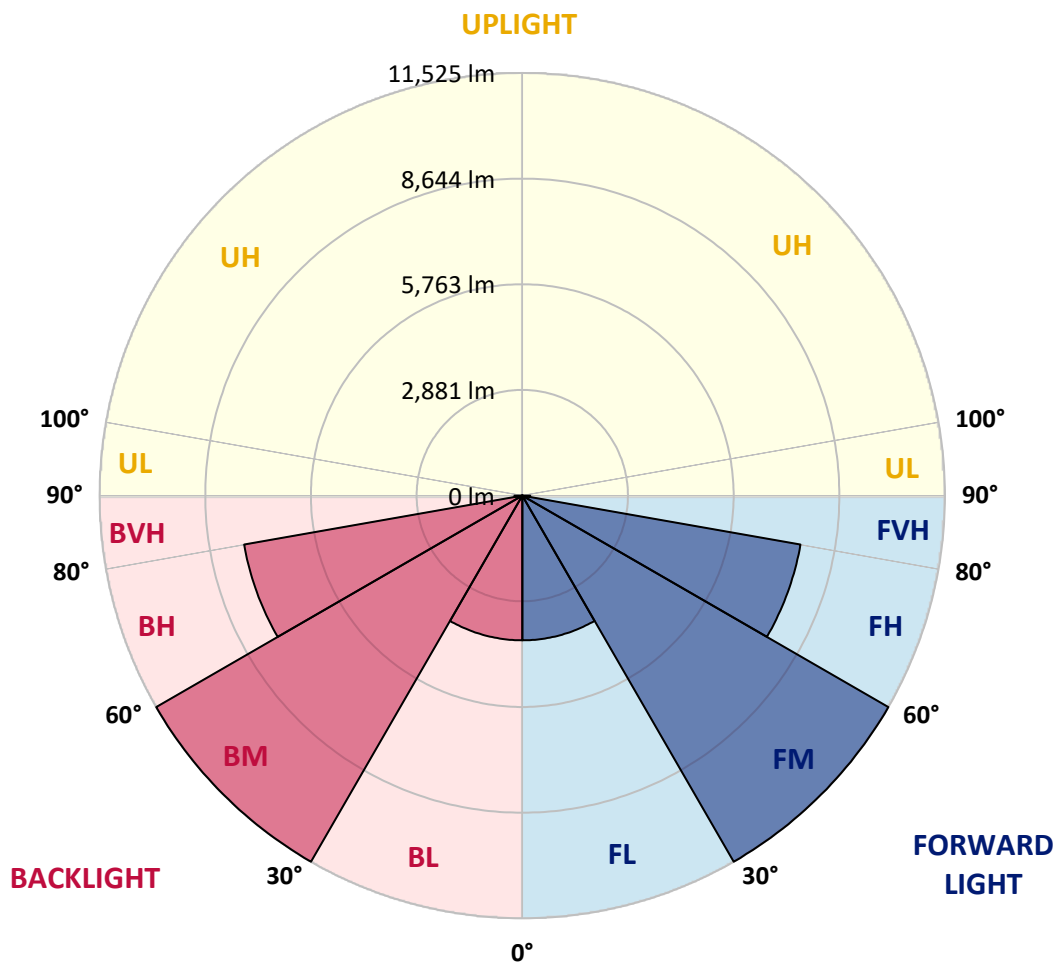
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3943.6	8.4			
FM (30°-60°)	11525.4	24.6			
FH (60°-80°)	7700.2	16.5			G4/12000
FVH (80°-90°)	215.9	0.5			G2/225
BL (0°-30°)	3943.6	8.4	B4/5000		
BM (30°-60°)	11525.4	24.6	B5		
BH (60°-80°)	7700.2	16.5	B5		G5
BVH (80°-90°)	215.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8279.7	8279.7	8279.7	8279.7	8279.7	8279.7	8279.7	8279.7	8279.7	8279.7	8279.7
2.5°	8385.9	8380.8	8383.3	8380.8	8388.5	8383.3	8352.3	8326.4	8305.6	8308.2	8300.5
5°	8564.6	8567.2	8569.8	8556.9	8575.0	8564.6	8515.4	8474.0	8432.5	8417.0	8411.8
7.5°	8712.3	8725.2	8733.0	8745.9	8777.0	8777.0	8751.1	8691.5	8600.9	8549.1	8546.5
10°	8859.9	8870.2	8893.5	8935.0	8986.8	9036.0	9025.6	8945.3	8828.8	8740.7	8720.0
12.5°	8911.7	8924.6	9002.3	9121.4	9238.0	9333.8	9333.8	9269.1	9118.9	8984.2	8945.3
15°	8730.4	8753.7	8893.5	9147.3	9452.9	9662.7	9709.3	9618.7	9458.1	9250.9	9204.3
17.5°	8370.4	8427.4	8632.0	9007.5	9515.1	9950.2	10084.9	10040.8	9833.7	9569.5	9515.1
20°	7984.5	8046.7	8264.2	8761.5	9463.3	10118.5	10509.6	10520.0	10263.6	9880.3	9800.0
22.5°	7559.8	7606.4	7886.1	8468.8	9307.9	10157.4	10874.8	11053.5	10706.4	10191.1	10077.1
25°	7083.2	7135.0	7427.7	8057.0	9015.3	10113.4	11208.9	11602.5	11170.0	10522.6	10377.5
27.5°	6627.4	6648.1	6961.5	7601.2	8629.4	9999.4	11454.9	12107.5	11682.8	10797.1	10613.2
30°	6189.7	6238.9	6516.1	7148.0	8186.5	9776.7	11667.3	12682.5	12234.4	11084.6	10848.9
32.5°	5726.2	5785.7	6086.1	6725.8	7743.6	9442.6	11796.8	13311.8	13003.6	11550.7	11299.5
35°	5280.7	5319.5	5622.6	6244.1	7311.1	9054.1	11820.1	14021.4	13995.5	12257.8	11923.7
37.5°	4824.9	4881.9	5187.5	5783.1	6852.7	8642.3	11703.5	14775.1	15192.1	13239.3	12879.3
40°	4387.2	4436.4	4736.8	5337.7	6332.2	8139.9	11426.4	15464.0	16588.0	14249.3	13739.1
42.5°	3910.7	3923.6	4252.5	4863.7	5822.0	7557.2	11027.6	16077.8	18144.5	15603.8	14969.3
45°	3369.4	3403.1	3708.7	4309.5	5236.7	6904.5	10486.3	16585.4	20117.9	17481.5	16616.5
47.5°	2828.1	2856.6	3136.3	3729.4	4597.0	6156.1	9652.4	17030.8	22143.2	19866.7	18732.4
50°	2299.8	2315.3	2543.2	3069.0	3877.0	5368.8	8619.0	17173.3	24432.6	23243.9	21796.2
52.5°	1818.1	1841.4	2014.9	2426.7	3107.8	4439.0	7502.8	16821.1	27105.4	27247.8	25207.0
55°	1473.6	1481.4	1610.9	1913.9	2429.3	3465.2	6156.1	15839.5	29980.1	32378.3	29775.5
57.5°	1269.0	1274.2	1346.7	1515.1	1869.9	2613.2	4775.7	13982.6	32562.2	38389.3	35043.2
60°	1152.5	1155.1	1196.5	1294.9	1481.4	2004.5	3421.2	11361.7	35110.6	45078.9	41590.4
62.5°	1080.0	1080.0	1108.5	1162.8	1253.5	1538.4	2478.5	8196.9	36856.1	51866.9	49660.3
65°	1010.0	1010.0	1030.8	1069.6	1118.8	1258.7	1831.0	5345.4	36812.1	56810.9	57776.9
67.5°	929.8	929.8	945.3	984.1	1012.6	1082.6	1414.1	3501.5	33067.2	56702.1	62205.6
70°	833.9	833.9	854.7	888.3	911.6	955.7	1116.2	2395.6	24292.8	48414.6	55321.8
72.5°	738.1	740.7	753.6	787.3	805.4	831.3	927.2	1678.2	14902.0	32966.2	38682.0
75°	631.9	637.1	650.1	683.7	699.3	709.6	782.1	1196.5	7539.0	17774.1	20237.1
77.5°	510.2	520.6	528.3	564.6	574.9	590.5	644.9	865.0	3309.8	6386.6	6443.5
80°	372.9	385.9	409.2	442.9	450.6	461.0	492.1	613.8	1499.5	2916.2	3167.4
82.5°	274.5	292.7	264.2	308.2	308.2	295.2	347.0	411.8	688.9	2887.7	3454.9
85°	150.2	152.8	137.3	158.0	168.3	165.8	183.9	202.0	334.1	1926.8	1986.4
87.5°	36.3	38.8	41.4	49.2	59.6	59.6	64.7	57.0	108.8	624.2	357.4
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)