

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: P457195

Luminaire Tested: **GALN-SA8C-730-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457195  
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-SA8C-730-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51611 lumens  
Efficiency: N/A  
Efficacy: 120.3 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

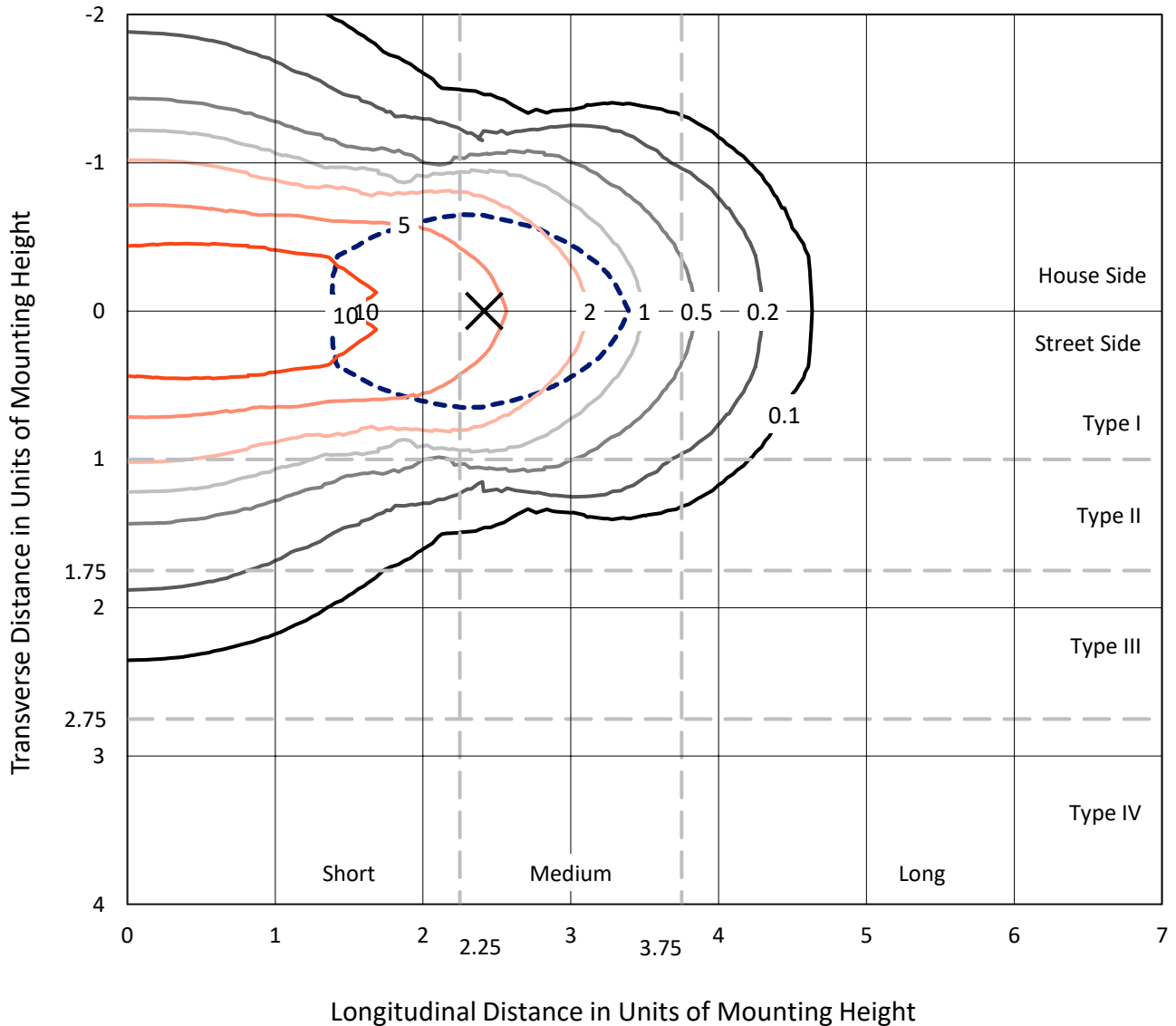
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

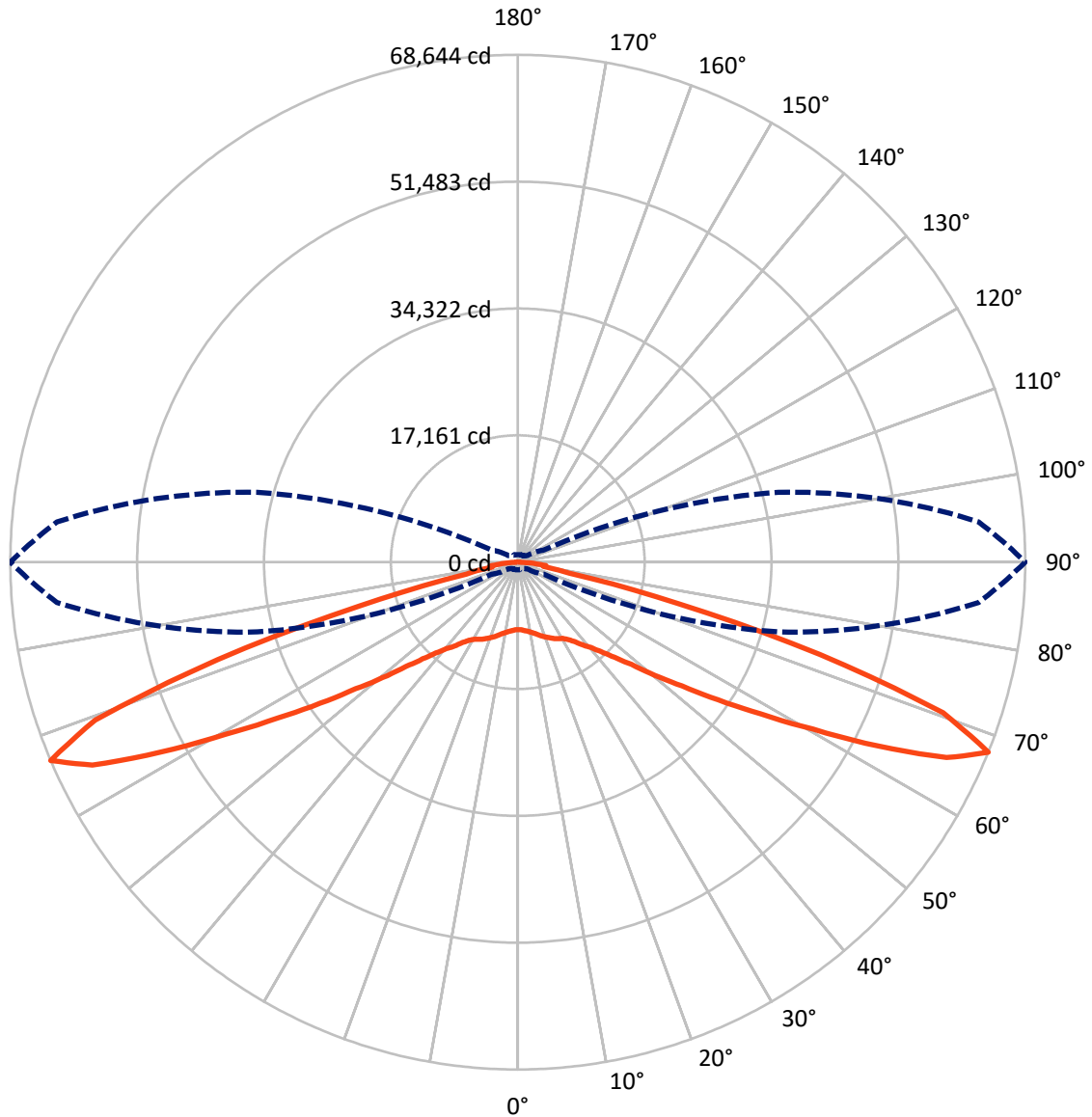
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	25805.5	0.0	25805.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25805.5	0.0	25805.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51611.0	0.0	51611.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	910.9	1.8
10°-20°	2914.5	5.6
20°-30°	4878.1	9.5
30°-40°	6608.6	12.8
40°-50°	8370.8	16.2
50°-60°	10457.3	20.3
60°-70°	12292.1	23.8
70°-80°	4702.3	9.1
80°-90°	476.4	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°	51611.0	100.0
0°-180°	51611.0	100.0

**Coefficient of Utilization**



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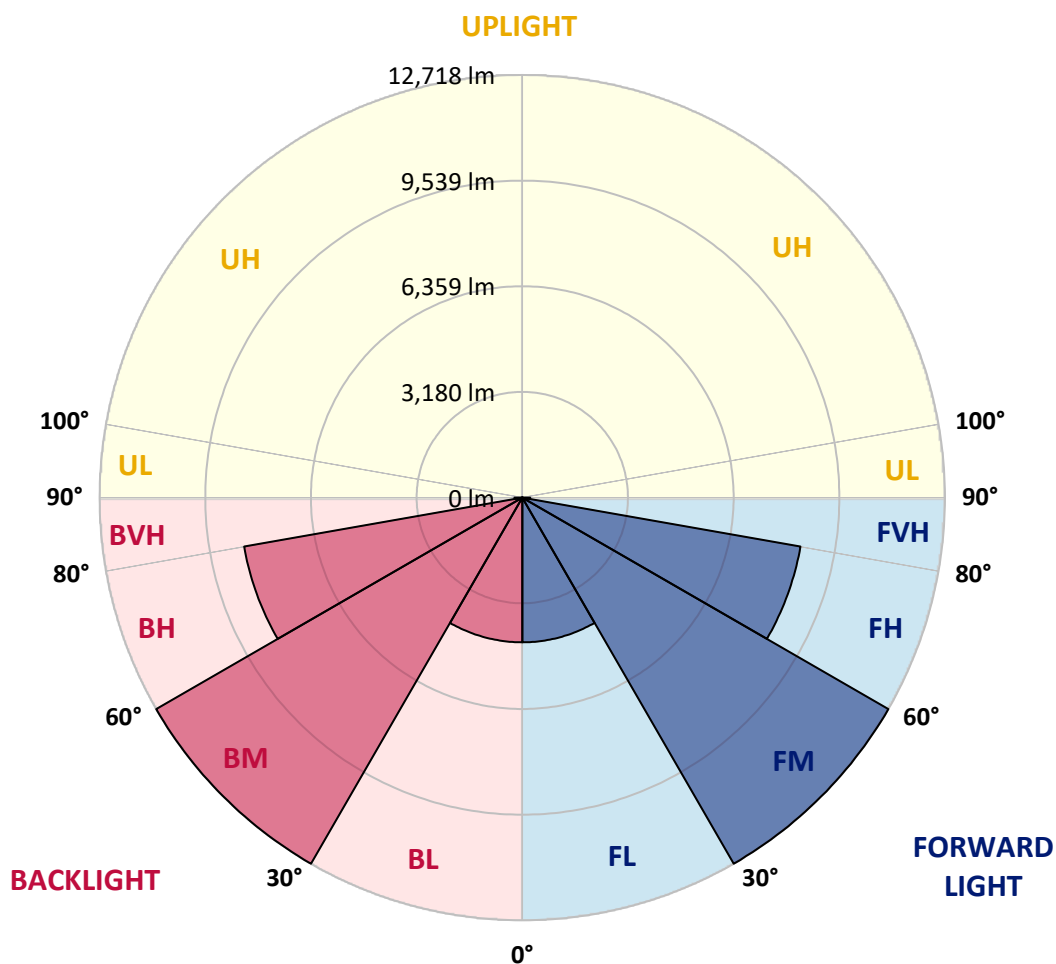
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4351.8	8.4			
FM	(30°-60°)	12718.4	24.6			
FH	(60°-80°)	8497.2	16.5			G4/12000
FVH	(80°-90°)	238.2	0.5			G3/500
BL	(0°-30°)	4351.8	8.4	B4/5000		
BM	(30°-60°)	12718.4	24.6	B5		
BH	(60°-80°)	8497.2	16.5	B5		G5
BVH	(80°-90°)	238.2	0.5			G3/500
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°	9136.8	9136.8	9136.8	9136.8	9136.8	9136.8	9136.8	9136.8	9136.8	9136.8	9136.8
2.5°	9253.9	9248.2	9251.1	9248.2	9256.8	9251.1	9216.8	9188.2	9165.3	9168.2	9159.6
5°	9451.1	9454.0	9456.8	9442.6	9462.6	9451.1	9396.8	9351.1	9305.4	9288.2	9282.5
7.5°	9614.0	9628.3	9636.9	9651.2	9685.5	9685.5	9656.9	9591.2	9491.1	9434.0	9431.1
10°	9776.9	9788.4	9814.1	9859.8	9917.0	9971.3	9959.8	9871.2	9742.6	9645.5	9622.6
12.5°	9834.1	9848.4	9934.1	10065.6	10194.2	10299.9	10299.9	10228.5	10062.7	9914.1	9871.2
15°	9634.0	9659.8	9814.1	10094.2	10431.4	10662.9	10714.3	10614.3	10437.1	10208.5	10157.0
17.5°	9236.8	9299.7	9525.4	9939.8	10500.0	10980.1	11128.7	11080.1	10851.5	10560.0	10500.0
20°	8811.0	8879.5	9119.6	9668.3	10442.8	11165.9	11597.4	11608.9	11325.9	10902.9	10814.3
22.5°	8342.3	8393.7	8702.4	9345.4	10271.3	11208.7	12000.4	12197.6	11814.6	11245.9	11120.1
25°	7816.4	7873.6	8196.5	8891.0	9948.4	11160.2	12369.1	12803.5	12326.2	11611.7	11451.7
27.5°	7313.4	7336.3	7682.1	8388.0	9522.6	11034.4	12640.6	13360.8	12892.1	11914.6	11711.7
30°	6830.4	6884.7	7190.5	7887.8	9033.9	10788.6	12874.9	13995.2	13500.8	12231.9	11971.8
32.5°	6318.8	6384.6	6716.1	7422.0	8545.2	10420.0	13017.8	14689.7	14349.6	12746.3	12469.1
35°	5827.3	5870.2	6204.5	6890.4	8067.9	9991.3	13043.5	15472.8	15444.2	13526.5	13157.8
37.5°	5324.3	5387.2	5724.4	6381.7	7562.0	9536.9	12914.9	16304.4	16764.5	14609.7	14212.4
40°	4841.3	4895.6	5227.1	5890.2	6987.6	8982.4	12609.1	17064.6	18304.9	15724.2	15161.2
42.5°	4315.5	4329.7	4692.7	5367.2	6424.6	8339.4	12169.0	17741.9	20022.6	17218.9	16518.7
45°	3718.1	3755.3	4092.5	4755.6	5778.7	7619.2	11571.7	18302.1	22200.3	19290.9	18336.4
47.5°	3120.8	3152.3	3460.9	4115.4	5072.8	6793.3	10651.4	18793.6	24435.2	21923.1	20671.3
50°	2537.8	2555.0	2806.5	3386.6	4278.3	5924.5	9511.1	18950.8	26961.6	25649.8	24052.2
52.5°	2006.3	2032.0	2223.5	2677.9	3429.5	4898.5	8279.4	18562.2	29910.9	30068.1	27816.1
55°	1626.2	1634.7	1777.6	2112.0	2680.7	3823.9	6793.3	17479.0	33083.2	35729.7	32857.4
57.5°	1400.4	1406.1	1486.1	1671.9	2063.4	2883.6	5270.0	15429.9	35932.6	42362.9	38670.4
60°	1271.8	1274.6	1320.4	1429.0	1634.7	2212.0	3775.3	12537.7	38744.8	49744.9	45895.3
62.5°	1191.8	1191.8	1223.2	1283.2	1383.2	1697.6	2735.0	9045.3	40671.0	57235.5	54800.5
65°	1114.6	1114.6	1137.5	1180.3	1234.6	1388.9	2020.5	5898.7	40622.4	62691.2	63757.2
67.5°	1026.0	1026.0	1043.1	1086.0	1117.4	1194.6	1560.4	3863.9	36489.9	62571.2	68644.3
70°	920.2	920.2	943.1	980.3	1006.0	1054.6	1231.8	2643.6	26807.2	53425.9	61047.9
72.5°	814.5	817.4	831.7	868.8	888.8	917.4	1023.1	1851.9	16444.4	36378.4	42685.8
75°	697.3	703.0	717.3	754.5	771.6	783.1	863.1	1320.4	8319.4	19613.9	22331.7
77.5°	563.0	574.4	583.0	623.0	634.5	651.6	711.6	954.5	3652.4	7047.6	7110.5
80°	411.5	425.8	451.6	488.7	497.3	508.7	543.0	677.3	1654.7	3218.0	3495.2
82.5°	302.9	322.9	291.5	340.1	340.1	325.8	383.0	454.4	760.2	3186.6	3812.5
85°	165.8	168.6	151.5	174.3	185.8	182.9	202.9	222.9	368.7	2126.3	2192.0
87.5°	40.0	42.9	45.7	54.3	65.7	65.7	71.4	62.9	120.0	688.8	394.4
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)