

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: P456513

Luminaire Tested: **GALN-SA7D-740-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456513  
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-SA7D-740-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 56232 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

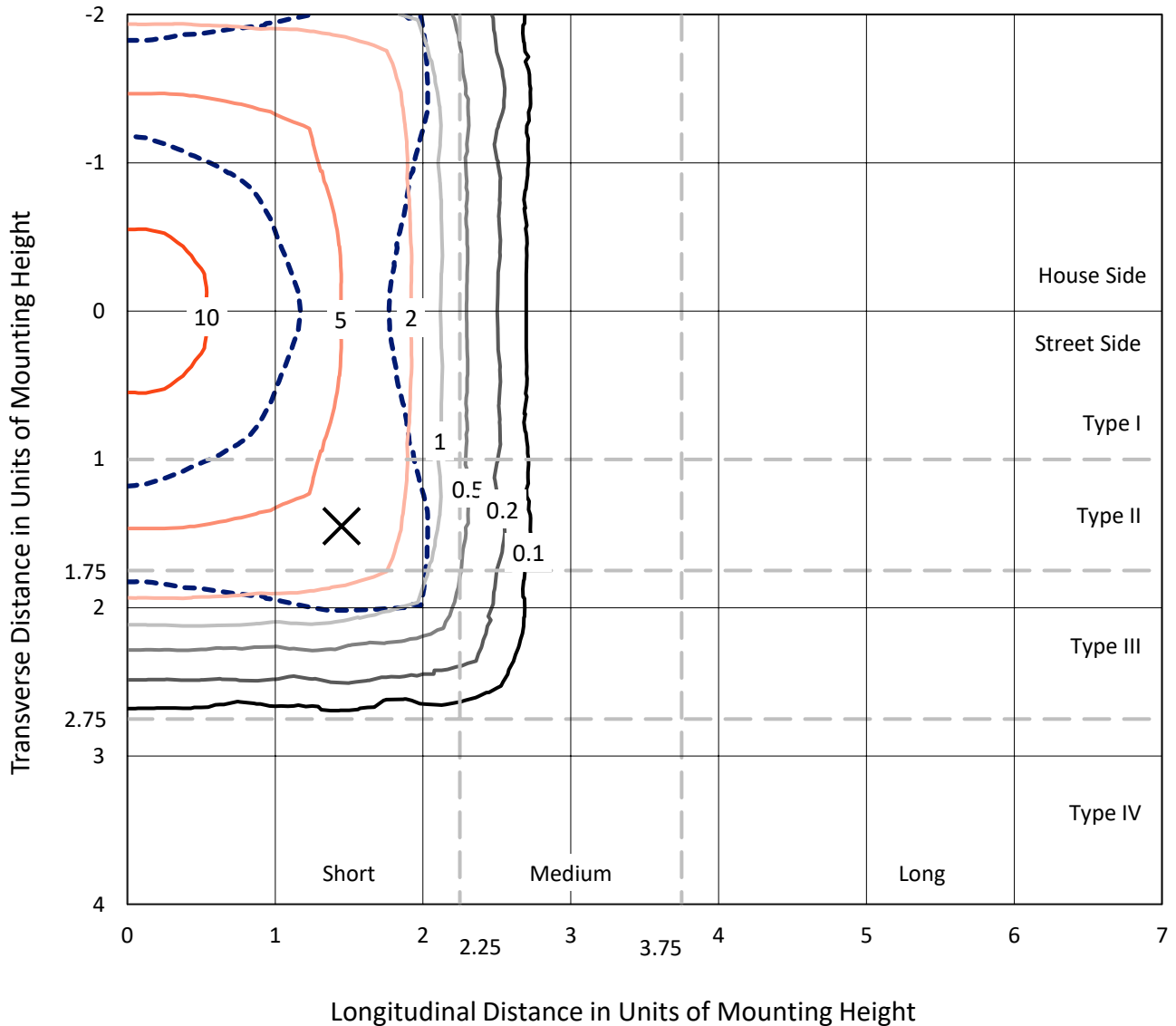
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

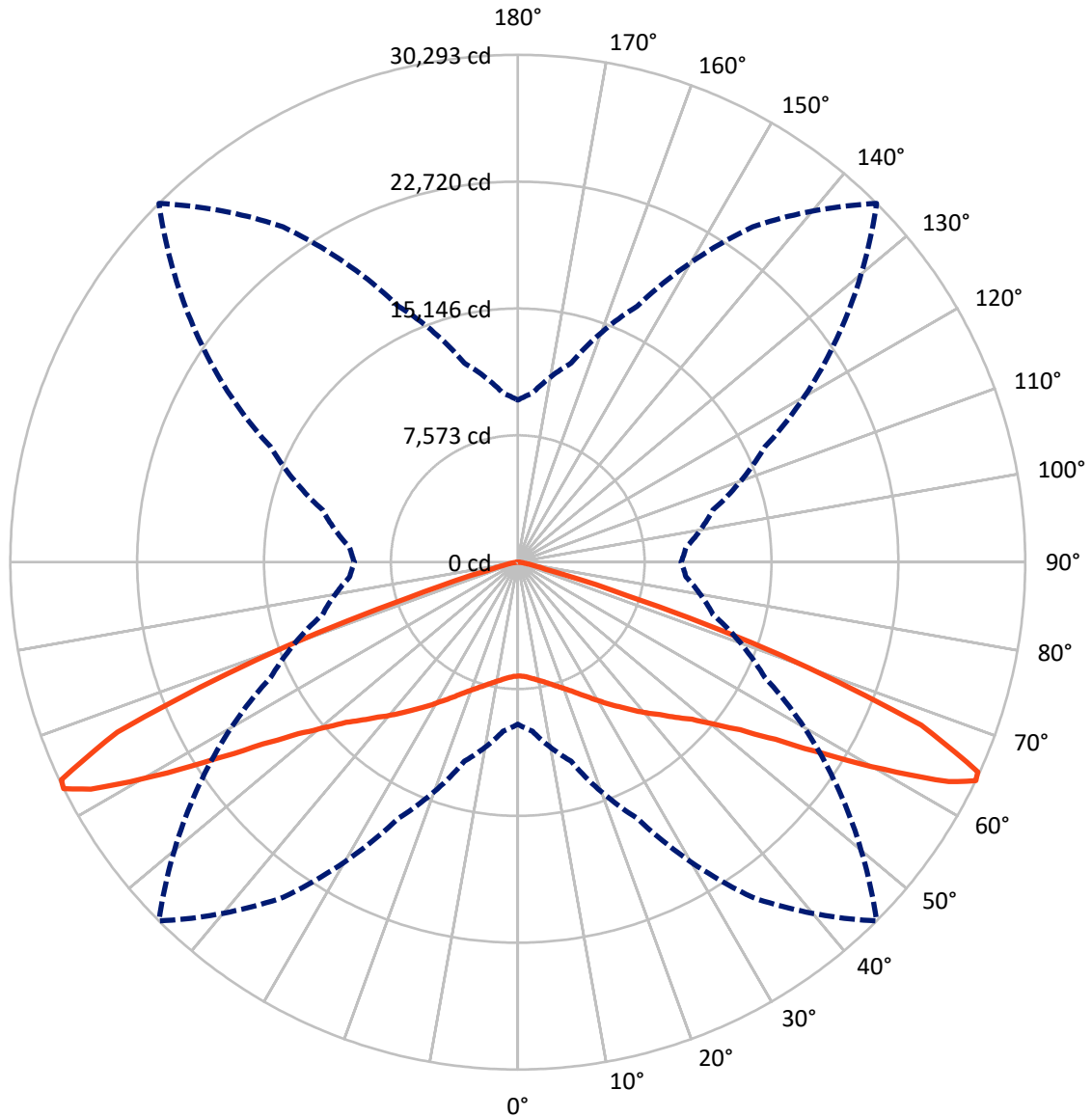
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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
<b>House Side</b>	Lumens	28116.0	0.0	28116.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	28116.0	0.0	28116.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	56232.0	0.0	56232.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	667.7	1.2
10°-20°	2153.8	3.8
20°-30°	4070.1	7.2
30°-40°	6740.5	12.0
40°-50°	10523.1	18.7
50°-60°	16268.4	28.9
60°-70°	14028.1	24.9
70°-80°	1589.7	2.8
80°-90°	190.5	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°	56232.0	100.0
0°-180°	56232.0	100.0

**Coefficient of Utilization**



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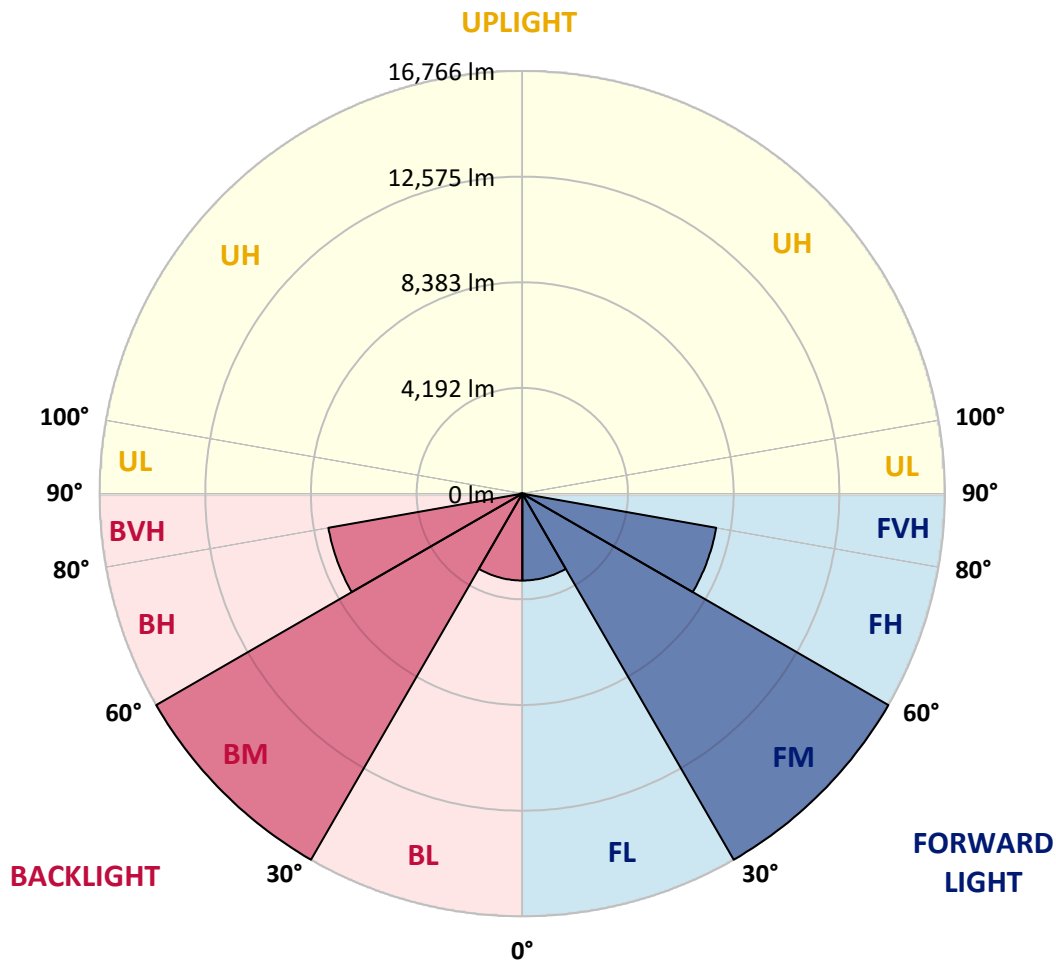
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3445.8	6.1			
FM (30°-60°)	16766.0	29.8			
FH (60°-80°)	7808.9	13.9			G4/12000
FVH (80°-90°)	95.2	0.2			G1/100
BL (0°-30°)	3445.8	6.1	B4/5000		
BM (30°-60°)	16766.0	29.8	B5		
BH (60°-80°)	7808.9	13.9	B5		G4/12000
BVH (80°-90°)	95.2	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-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6796.6	6796.6	6796.6	6796.6	6796.6	6796.6	6796.6	6796.6	6796.6	6796.6	6796.6
2.5°	6823.4	6838.3	6826.4	6823.4	6820.4	6820.4	6820.4	6823.4	6835.3	6844.2	6838.3
5°	6909.8	6921.7	6915.7	6912.7	6909.8	6912.7	6906.8	6903.8	6912.7	6912.7	6909.8
7.5°	7017.0	7031.9	7025.9	7031.9	7034.9	7037.8	7022.9	7011.0	7008.0	7017.0	7011.0
10°	7162.9	7174.8	7177.8	7180.8	7186.7	7183.8	7165.9	7145.0	7142.1	7139.1	7136.1
12.5°	7326.7	7335.7	7338.6	7350.6	7359.5	7362.5	7341.6	7323.7	7294.0	7299.9	7288.0
15°	7511.4	7529.3	7526.3	7544.1	7568.0	7573.9	7553.1	7523.3	7496.5	7481.6	7472.7
17.5°	7737.7	7749.7	7743.7	7761.6	7791.3	7806.2	7788.4	7749.7	7722.8	7690.1	7672.2
20°	8005.8	8026.6	8032.6	8032.6	8059.4	8074.3	8047.5	8035.6	7993.9	7970.1	7955.2
22.5°	8309.6	8318.5	8336.4	8354.3	8381.1	8375.1	8366.2	8348.3	8309.6	8288.7	8264.9
25°	8652.1	8661.0	8705.7	8744.4	8753.4	8747.4	8735.5	8726.6	8690.8	8643.2	8625.3
27.5°	9051.2	9069.1	9128.6	9164.4	9164.4	9167.3	9143.5	9173.3	9095.9	9039.3	9033.3
30°	9551.6	9563.5	9614.1	9649.8	9632.0	9617.1	9611.1	9640.9	9557.5	9456.2	9432.4
32.5°	10046.0	10087.7	10132.3	10209.8	10147.2	10120.4	10114.5	10135.3	10040.0	9926.8	9894.1
35°	10576.1	10605.9	10689.3	10754.8	10698.2	10635.7	10662.5	10728.0	10614.8	10462.9	10457.0
37.5°	11162.8	11189.6	11296.9	11365.4	11323.7	11216.4	11261.1	11338.6	11225.4	11037.7	10999.0
40°	11773.4	11830.0	11964.0	12035.5	11967.0	11824.0	11907.4	11990.8	11889.6	11672.1	11585.8
42.5°	12458.4	12547.8	12741.4	12777.1	12646.1	12452.5	12598.4	12732.4	12660.9	12410.8	12378.0
45°	13259.6	13313.2	13551.5	13628.9	13447.2	13206.0	13387.7	13631.9	13578.3	13289.4	13226.8
47.5°	14156.1	14206.7	14453.9	14570.1	14340.7	14016.1	14343.7	14662.4	14629.6	14319.9	14290.1
50°	15216.4	15228.3	15570.8	15701.8	15472.5	15192.5	15484.4	15880.5	15749.5	15353.4	15347.4
52.5°	16377.9	16392.8	16824.7	17077.8	16949.8	16634.1	16979.5	17220.8	16887.2	16369.0	16330.3
55°	17384.6	17459.1	18048.8	18721.9	18897.6	18668.3	18772.5	18659.3	17837.3	17110.6	16997.4
57.5°	17795.6	17941.5	18838.0	20094.9	21238.6	21578.1	20774.0	19695.8	18215.6	17188.0	17077.8
60°	16791.9	16949.8	18340.6	20726.3	23645.1	25119.4	22858.8	19871.5	17354.8	15910.3	15737.6
62.5°	13447.2	13491.9	15538.0	19240.1	25047.9	28866.1	23737.4	18373.4	14850.0	12887.3	12818.8
64°	9676.6	10135.3	12303.5	16869.3	24434.3	30292.7	23231.1	16273.7	12062.3	10075.7	9754.1
65°	7237.4	7362.5	9917.9	14406.3	23353.2	30185.5	22248.2	14266.3	9989.4	7710.9	7353.5
67.5°	2734.1	2749.0	3660.4	7180.8	16625.1	25971.2	16979.5	7761.6	4208.4	3043.9	2933.7
70°	1134.7	1155.6	1343.2	2415.4	7145.0	16675.8	8187.5	2799.6	1539.8	1247.9	1230.1
72.5°	831.0	842.9	899.5	1072.2	2198.0	6847.2	2692.4	1188.4	902.4	807.1	798.2
75°	652.3	658.2	699.9	789.3	1024.6	1897.2	1119.9	816.1	688.0	619.5	613.5
77.5°	497.4	512.3	542.1	601.6	688.0	899.5	741.6	610.6	530.1	473.6	464.6
80°	342.5	360.4	417.0	440.8	461.6	583.8	506.3	461.6	414.0	345.5	324.6
82.5°	211.5	223.4	280.0	300.8	291.9	327.6	324.6	330.6	294.9	214.4	199.5
85°	110.2	116.2	151.9	157.9	145.9	134.0	166.8	193.6	181.7	122.1	119.1
87.5°	23.8	26.8	32.8	29.8	32.8	32.8	41.7	62.5	65.5	41.7	38.7
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)