

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: P458339

Luminaire Tested: **GALN-SA9D-730-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458339  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-730-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 66987 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

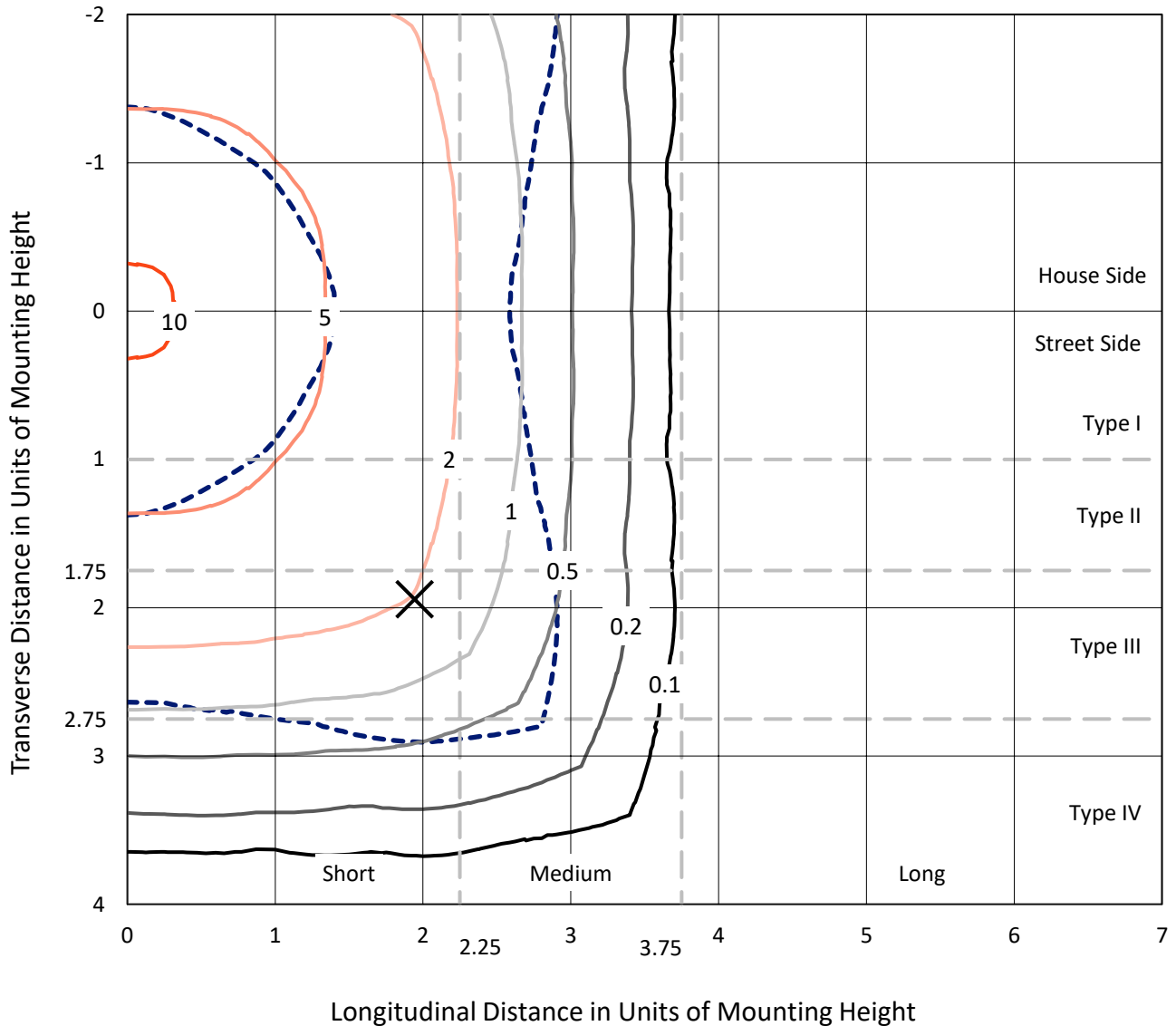
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

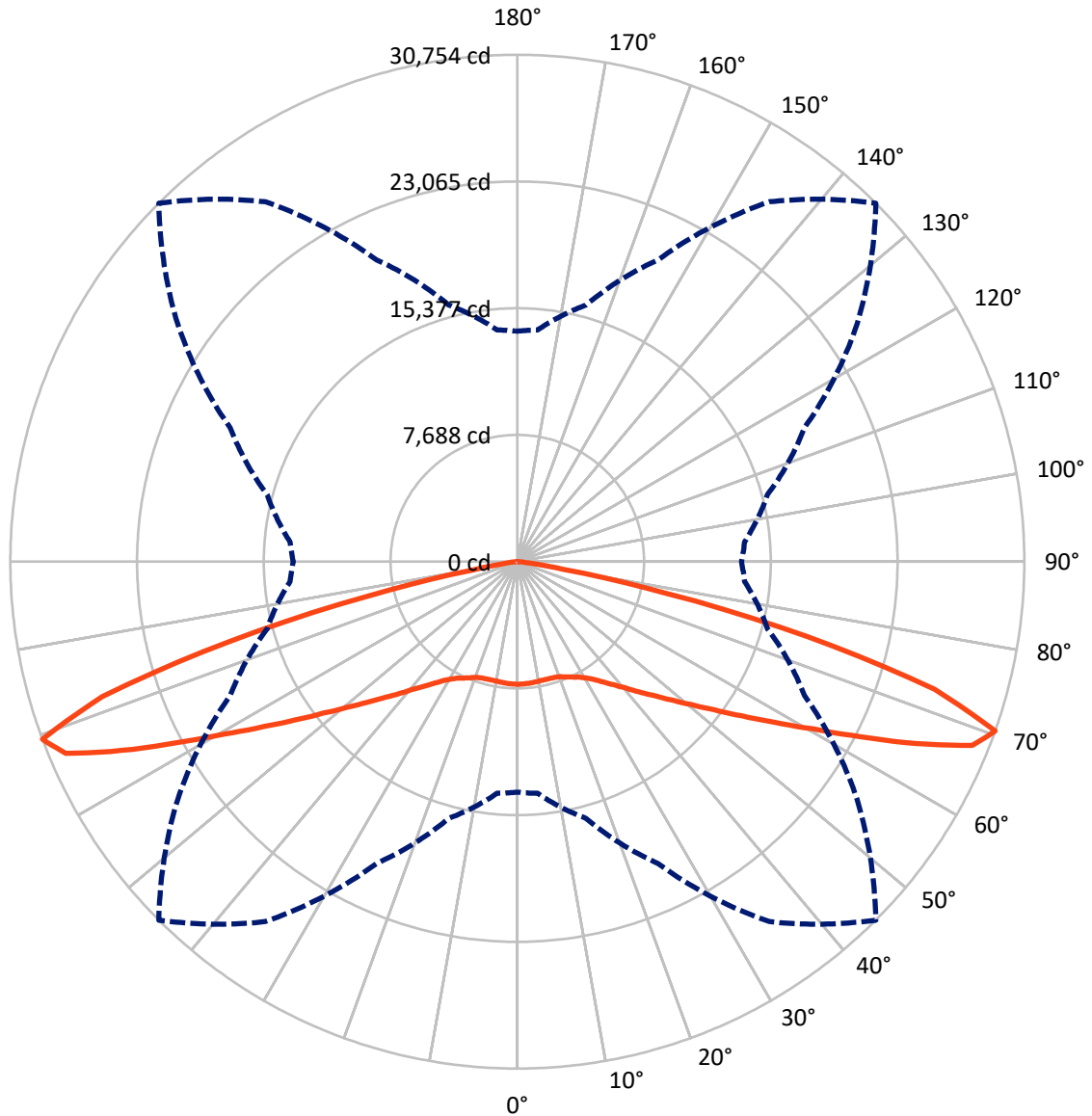
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	33493.5	0.0	33493.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	33493.5	0.0	33493.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	66987.0	0.0	66987.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	705.4	1.1
10°-20°	2069.9	3.1
20°-30°	3540.2	5.3
30°-40°	5619.0	8.4
40°-50°	9065.0	13.5
50°-60°	14749.0	22.0
60°-70°	21380.7	31.9
70°-80°	9483.7	14.2
80°-90°	374.0	0.6
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°	66987.0	100.0
0°-180°	66987.0	100.0

**Coefficient of Utilization**



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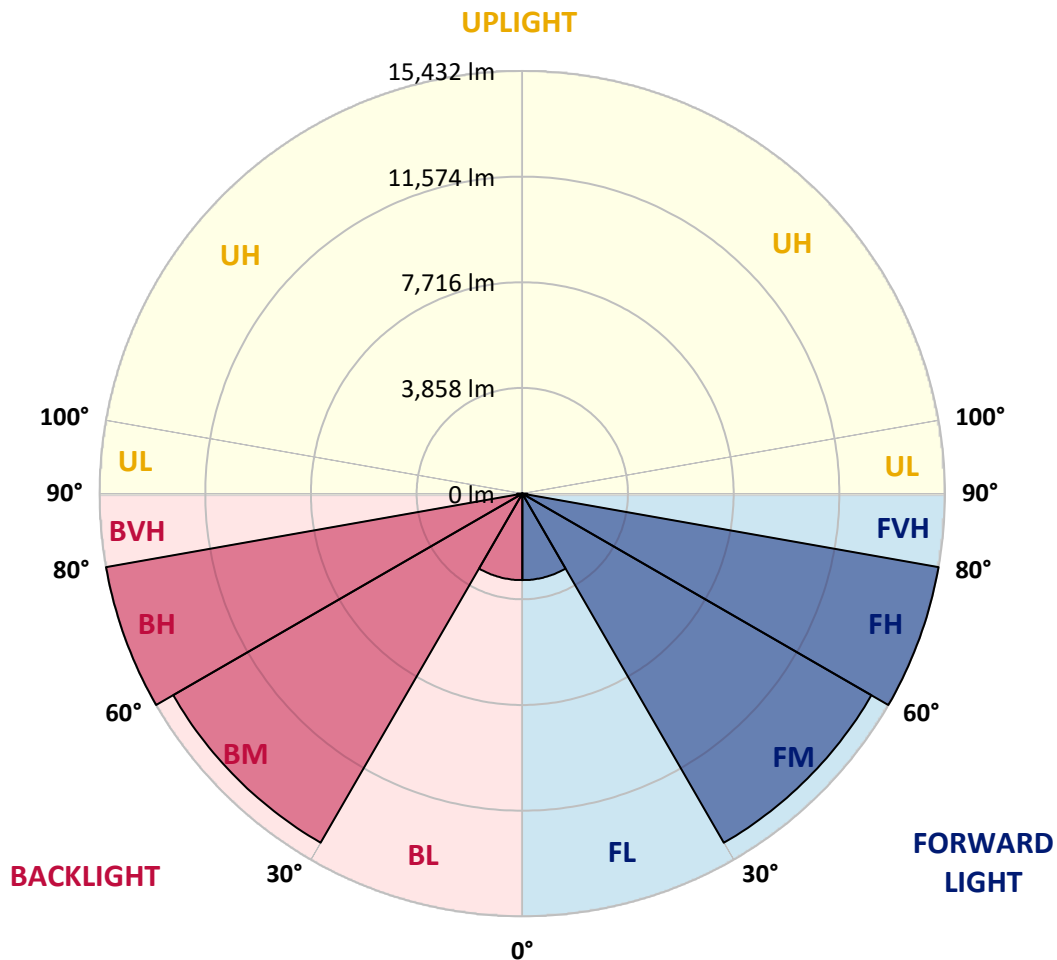
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3157.8	4.7			
FM (30°-60°)	14716.5	22.0			
FH (60°-80°)	15432.2	23.0			G5
FVH (80°-90°)	187.0	0.3			G2/225
BL (0°-30°)	3157.8	4.7	B4/5000		
BM (30°-60°)	14716.5	22.0	B5		
BH (60°-80°)	15432.2	23.0	B5		G5
BVH (80°-90°)	187.0	0.3			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 V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7438.6	7438.6	7438.6	7438.6	7438.6	7438.6	7438.6	7438.6	7438.6	7438.6	7438.6
2.5°	7438.6	7445.7	7435.1	7428.0	7424.5	7424.5	7420.9	7424.5	7445.7	7449.2	7438.6
5°	7417.4	7424.5	7420.9	7413.9	7410.3	7410.3	7406.8	7403.3	7420.9	7428.0	7424.5
7.5°	7389.2	7392.7	7389.2	7385.6	7389.2	7385.6	7375.0	7368.0	7382.1	7382.1	7378.6
10°	7339.7	7346.8	7343.3	7346.8	7353.9	7353.9	7339.7	7325.6	7329.1	7322.1	7322.1
12.5°	7279.7	7290.3	7293.8	7308.0	7325.6	7346.8	7315.0	7283.3	7276.2	7272.7	7269.1
15°	7240.9	7251.5	7265.6	7279.7	7311.5	7357.4	7311.5	7262.1	7247.9	7233.8	7226.8
17.5°	7230.3	7244.4	7265.6	7286.8	7329.1	7375.0	7336.2	7286.8	7251.5	7230.3	7223.2
20°	7258.5	7269.1	7300.9	7339.7	7399.8	7445.7	7406.8	7353.9	7300.9	7269.1	7258.5
22.5°	7315.0	7332.7	7371.5	7442.1	7526.9	7593.9	7541.0	7452.7	7368.0	7325.6	7311.5
25°	7438.6	7452.7	7498.6	7593.9	7692.8	7756.3	7699.8	7597.5	7481.0	7424.5	7406.8
27.5°	7625.7	7646.9	7696.3	7809.3	7890.5	7925.8	7887.0	7816.3	7731.6	7671.6	7657.5
30°	7890.5	7915.2	7989.3	8109.4	8162.3	8183.5	8165.9	8120.0	8059.9	7996.4	7982.3
32.5°	8247.1	8261.2	8345.9	8458.9	8508.3	8515.4	8494.2	8473.0	8374.2	8268.2	8261.2
35°	8646.0	8670.7	8773.1	8907.2	8953.1	8956.7	8914.3	8882.5	8766.0	8681.3	8681.3
37.5°	9175.6	9186.1	9285.0	9436.8	9486.2	9472.1	9450.9	9422.7	9299.1	9189.7	9193.2
40°	9796.9	9818.1	9902.8	10079.3	10079.3	10061.7	10075.8	10054.6	9931.1	9825.2	9828.7
42.5°	10534.8	10545.4	10647.7	10834.9	10820.7	10785.4	10799.5	10771.3	10693.6	10573.6	10531.2
45°	11322.1	11364.4	11540.9	11721.0	11692.7	11579.8	11636.3	11629.2	11558.6	11378.5	11389.1
47.5°	12271.7	12342.3	12511.8	12727.2	12695.4	12518.9	12582.4	12624.8	12525.9	12328.2	12292.9
50°	13341.4	13387.3	13638.0	13839.2	13811.0	13623.9	13768.6	13775.7	13528.6	13249.7	13249.7
52.5°	14481.8	14527.7	14866.6	15180.8	15198.4	14926.6	15043.1	15036.1	14633.6	14266.4	14195.8
55°	15759.8	15781.0	16218.7	16681.2	16780.1	16515.3	16529.4	16388.2	15865.7	15438.5	15399.7
57.5°	17080.2	17157.8	17641.5	18241.7	18534.7	18372.3	18298.2	17920.4	17415.6	16924.8	16900.1
60°	18541.8	18545.3	19173.7	19883.3	20476.4	20585.9	20282.3	19777.4	19124.3	18474.7	18446.4
62.5°	19555.0	19706.8	20501.1	21701.5	22764.1	23378.4	22577.0	21517.9	20232.8	19184.3	19078.4
65°	19763.3	19865.7	21076.6	23110.1	25281.3	26605.2	24751.8	22499.4	20307.0	18908.9	18838.3
67.5°	18079.3	18188.7	19819.8	22940.7	27046.5	29761.4	26163.9	22026.3	19050.1	17320.2	17182.5
70°	13984.0	14107.6	16123.4	20194.0	26654.7	30753.5	25157.8	19212.5	15710.4	13842.8	13592.1
72.5°	7435.1	7890.5	9613.3	13860.4	21634.4	26478.1	20628.2	14019.3	10132.3	8282.4	7950.5
75°	2714.9	2771.4	3731.7	6146.5	12585.9	18156.9	13069.6	6686.6	3844.6	2969.1	2817.3
77.5°	1122.7	1119.1	1228.6	1857.0	4571.9	9299.1	5101.5	1962.9	1225.1	1133.3	1119.1
80°	663.7	663.7	730.8	773.2	1203.9	2806.7	1345.1	875.5	734.3	670.8	681.4
82.5°	296.6	314.2	462.5	487.2	582.5	769.6	649.6	557.8	480.1	331.9	300.1
85°	162.4	141.2	243.6	254.2	278.9	286.0	307.1	303.6	278.9	162.4	165.9
87.5°	31.8	38.8	70.6	53.0	60.0	53.0	70.6	98.9	102.4	56.5	45.9
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)