

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: P455586

Luminaire Tested: **GALN-SA6D-740-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455586  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6D-740-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48011 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

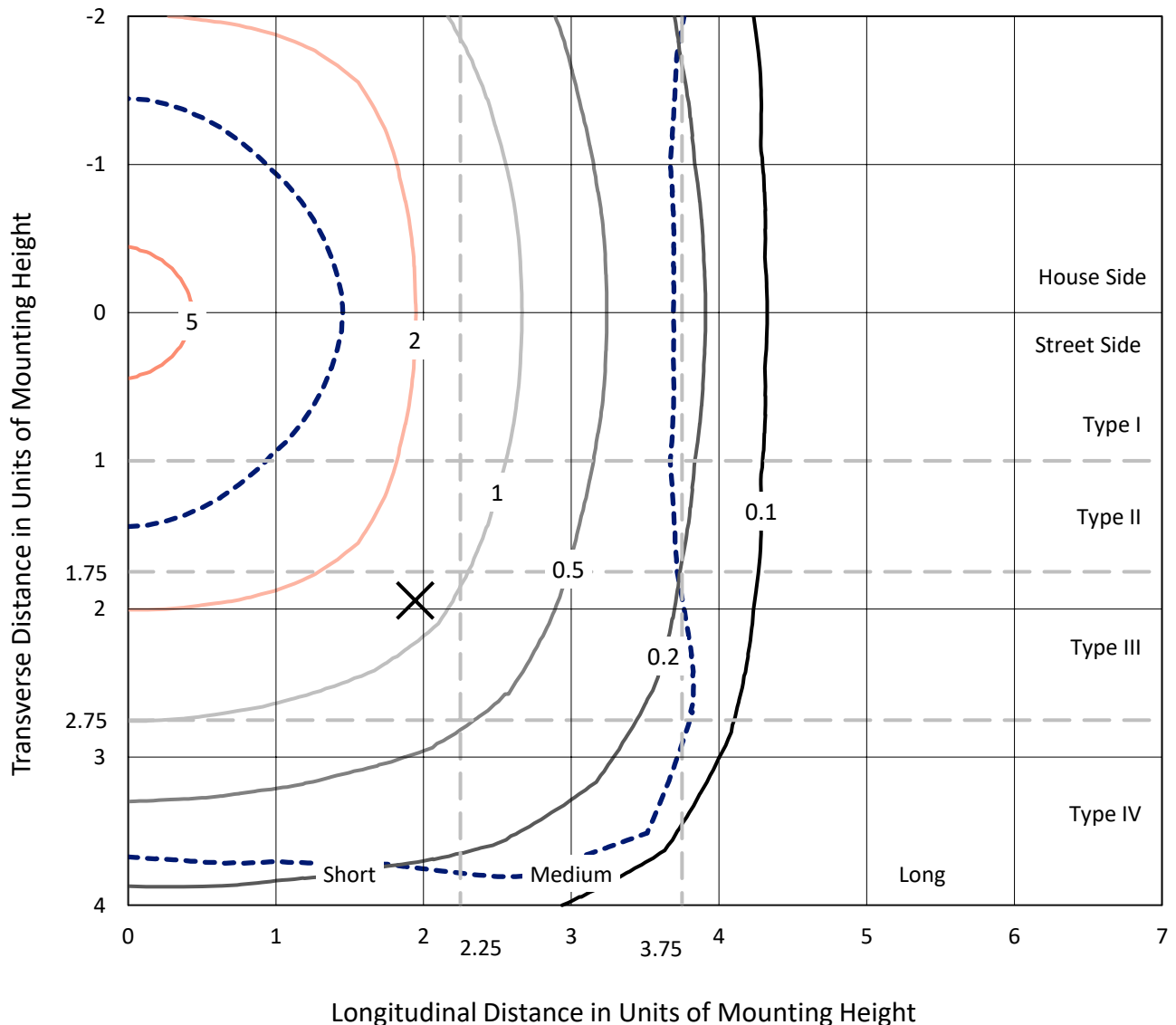
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

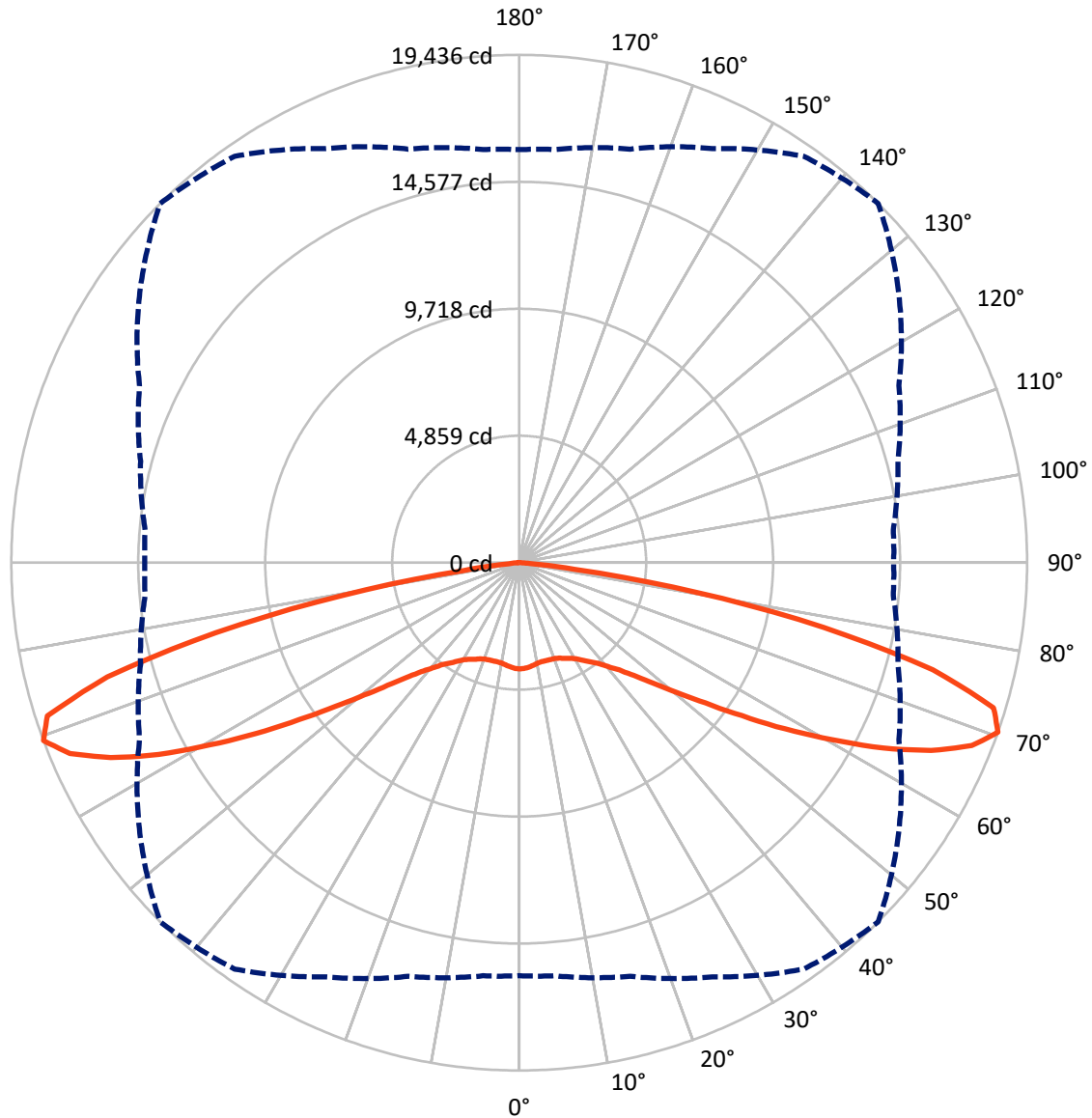
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	24005.5	0.0	24005.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24005.5	0.0	24005.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	48011.0	0.0	48011.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.1	0.8
10°-20°	1112.8	2.3
20°-30°	1896.0	3.9
30°-40°	2938.8	6.1
40°-50°	4946.5	10.3
50°-60°	8999.9	18.7
60°-70°	15236.5	31.7
70°-80°	11793.7	24.6
80°-90°	706.7	1.5
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°	48011.0	100.0
0°-180°	48011.0	100.0

**Coefficient of Utilization**



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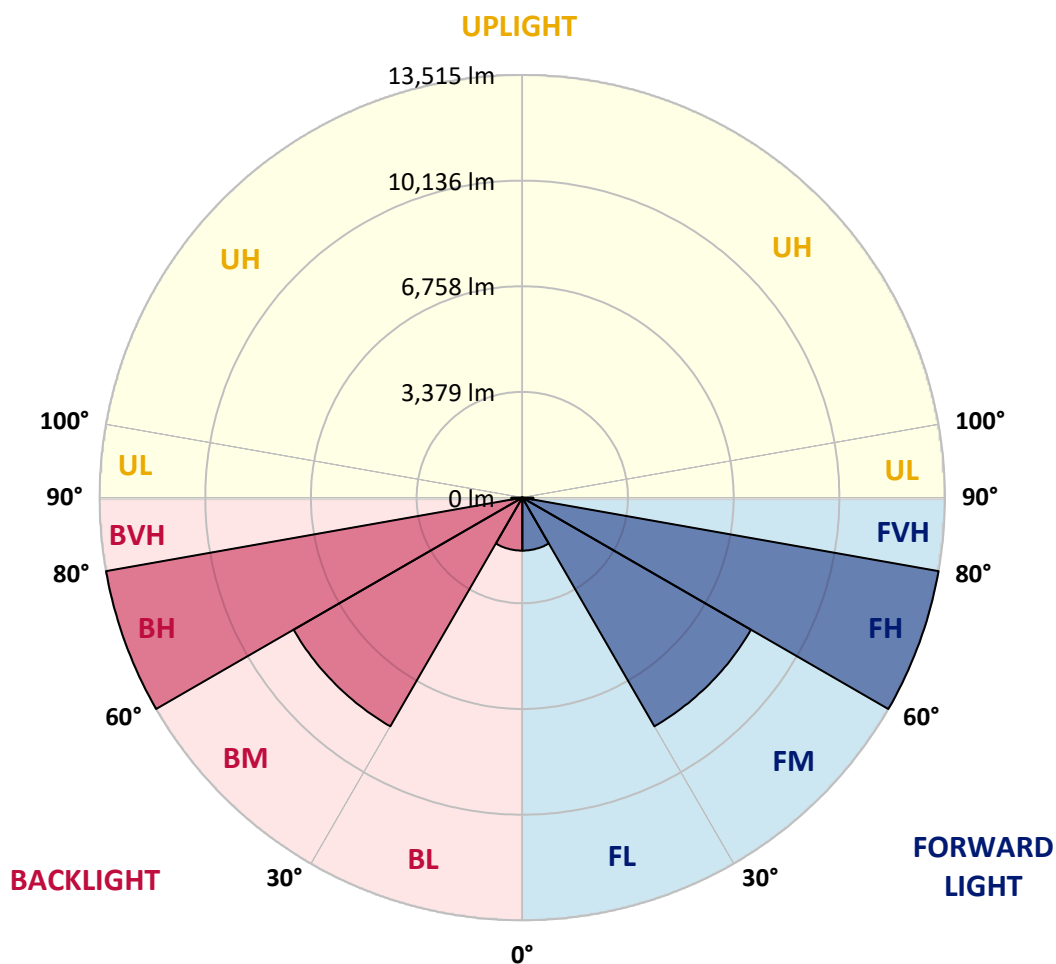
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1694.5	3.5			
FM (30°-60°)	8442.6	17.6			
FH (60°-80°)	13515.1	28.1			G5
FVH (80°-90°)	353.3	0.7			G3/500
BL (0°-30°)	1694.5	3.5	B3/2500		
BM (30°-60°)	8442.6	17.6	B4/8500		
BH (60°-80°)	13515.1	28.1	B5		G5
BVH (80°-90°)	353.3	0.7			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 V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7	4064.7
2.5°	4054.6	4057.1	4057.1	4052.0	4049.5	4049.5	4047.0	4047.0	4054.6	4057.1	4059.6
5°	4019.1	4019.1	4019.1	4016.5	4011.5	4011.5	4006.4	4006.4	4008.9	4016.5	4011.5
7.5°	3970.9	3976.0	3976.0	3965.8	3958.2	3958.2	3955.7	3958.2	3960.8	3968.4	3965.8
10°	3955.7	3958.2	3945.5	3927.8	3915.1	3907.5	3910.0	3915.1	3927.8	3932.9	3935.4
12.5°	3965.8	3965.8	3943.0	3917.6	3894.8	3884.7	3882.1	3899.9	3922.7	3937.9	3943.0
15°	3978.5	3973.4	3945.5	3912.6	3889.8	3887.2	3884.7	3897.4	3930.3	3960.8	3963.3
17.5°	3986.1	3983.6	3948.1	3907.5	3894.8	3894.8	3892.3	3902.4	3937.9	3976.0	3978.5
20°	4011.5	4003.9	3963.3	3920.2	3910.0	3915.1	3907.5	3920.2	3958.2	4003.9	4014.0
22.5°	4062.2	4054.6	4014.0	3970.9	3965.8	3965.8	3963.3	3976.0	4016.5	4064.7	4072.3
25°	4123.0	4115.4	4077.4	4047.0	4052.0	4062.2	4057.1	4059.6	4092.6	4133.2	4145.9
27.5°	4204.2	4191.5	4158.5	4133.2	4148.4	4148.4	4148.4	4145.9	4166.1	4204.2	4216.9
30°	4303.1	4298.0	4262.5	4260.0	4272.6	4260.0	4260.0	4262.5	4265.0	4300.5	4313.2
32.5°	4432.4	4422.3	4404.5	4399.4	4434.9	4445.1	4409.6	4376.6	4394.4	4429.9	4437.5
35°	4645.4	4630.2	4604.8	4576.9	4604.8	4653.0	4576.9	4551.6	4597.2	4645.4	4650.5
37.5°	4934.5	4926.9	4886.3	4835.6	4833.0	4883.7	4805.1	4802.6	4888.8	4947.1	4954.7
40°	5297.1	5304.7	5254.0	5205.8	5180.4	5221.0	5160.1	5183.0	5266.6	5332.6	5327.5
42.5°	5806.7	5778.8	5700.2	5654.6	5626.7	5611.5	5596.3	5631.8	5725.6	5796.6	5852.4
45°	6402.6	6392.5	6293.6	6237.8	6177.0	6154.1	6149.1	6212.5	6326.6	6412.8	6420.4
47.5°	7077.1	7054.3	6990.9	6932.6	6909.8	6881.9	6856.5	6904.7	7018.8	7079.7	7097.4
50°	7771.9	7777.0	7777.0	7766.8	7789.7	7794.7	7726.3	7744.0	7807.4	7802.3	7797.3
52.5°	8565.6	8593.5	8725.3	8738.0	8847.0	8920.6	8796.3	8722.8	8700.0	8563.0	8573.2
55°	9498.7	9524.1	9721.9	9919.6	10213.8	10338.0	10076.9	9848.6	9686.4	9478.4	9488.6
57.5°	10662.6	10675.3	10862.9	11243.3	11709.8	12001.4	11542.5	11091.1	10761.5	10563.7	10485.1
60°	11915.2	11927.9	12201.8	12665.8	13391.0	13746.0	13178.0	12440.1	12024.3	11722.5	11742.8
62.5°	13418.9	13469.6	13715.6	14354.6	15234.5	15632.6	14879.5	13893.1	13330.1	12954.9	12970.1
65°	15029.1	15115.3	15384.1	16086.4	16897.9	17326.4	16403.4	15264.9	14565.0	14106.1	14154.2
67.5°	16073.8	16149.8	16537.8	17313.7	18325.5	18680.5	17488.7	16162.5	15287.7	14740.0	14638.6
70°	15807.5	15870.9	16388.2	17488.7	18987.3	19436.1	17747.3	16030.7	15001.2	14369.8	14329.2
72.5°	13953.9	13822.1	14577.7	16157.4	18231.6	18984.7	16933.4	14641.1	13345.4	12696.2	12620.2
75°	9247.7	9534.2	10649.9	12511.1	15424.6	16357.8	14453.5	11755.5	10125.0	9584.9	9501.2
77.5°	3091.0	3311.6	4303.1	7092.3	10515.5	11917.8	10530.7	7688.2	5439.1	4381.7	4402.0
80°	819.0	808.9	1047.2	1949.9	4544.0	6902.2	5289.5	2604.2	1425.1	1032.0	978.8
82.5°	294.1	329.6	423.5	540.1	1204.5	2145.2	1513.8	730.3	535.0	395.6	382.9
85°	129.3	126.8	182.6	215.5	301.7	400.6	355.0	309.4	271.3	180.0	167.4
87.5°	27.9	27.9	43.1	33.0	53.2	53.2	65.9	78.6	81.1	53.2	43.1
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)