

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: P455585

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455585  
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-SA6D-740-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 47874 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

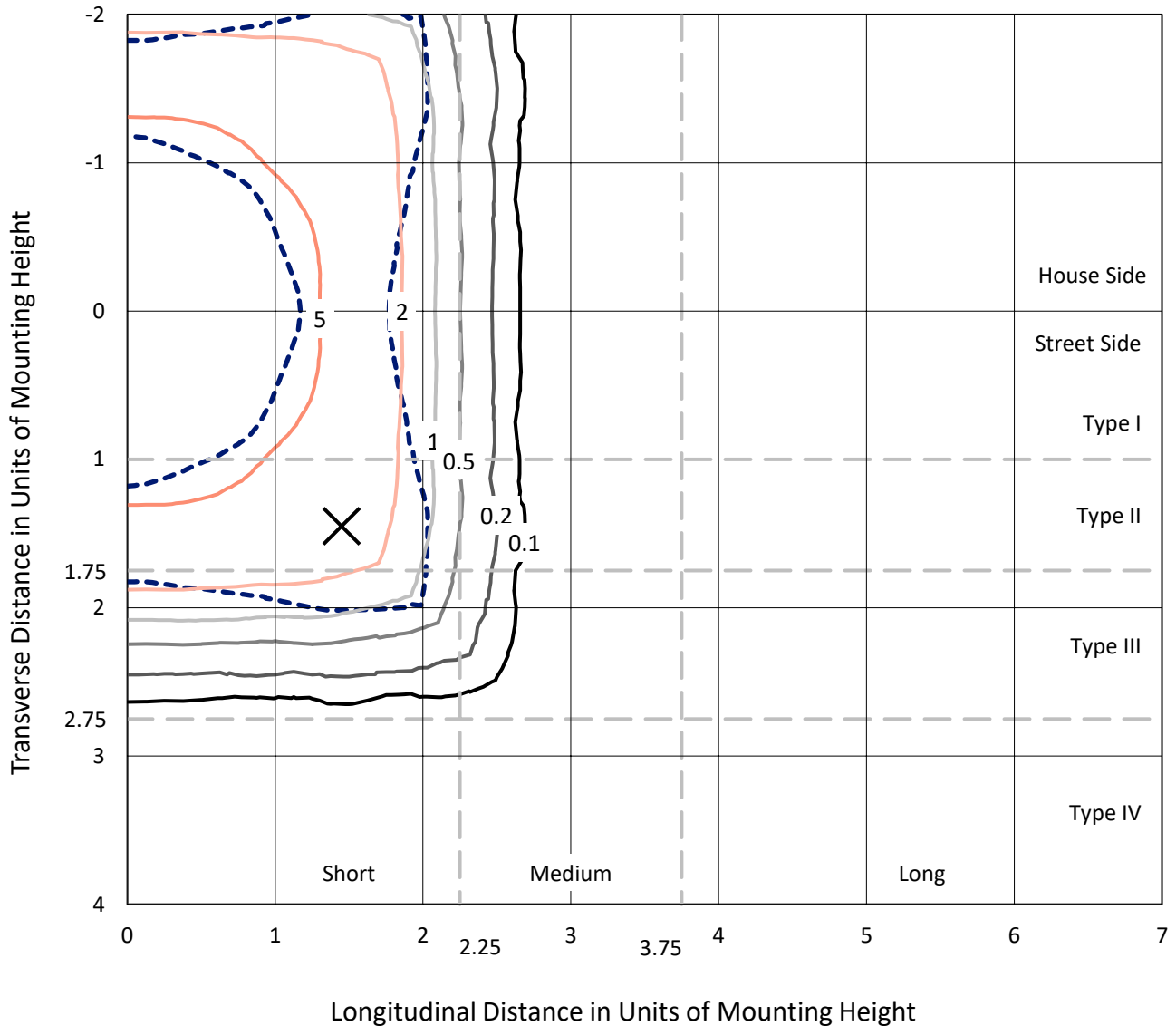
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

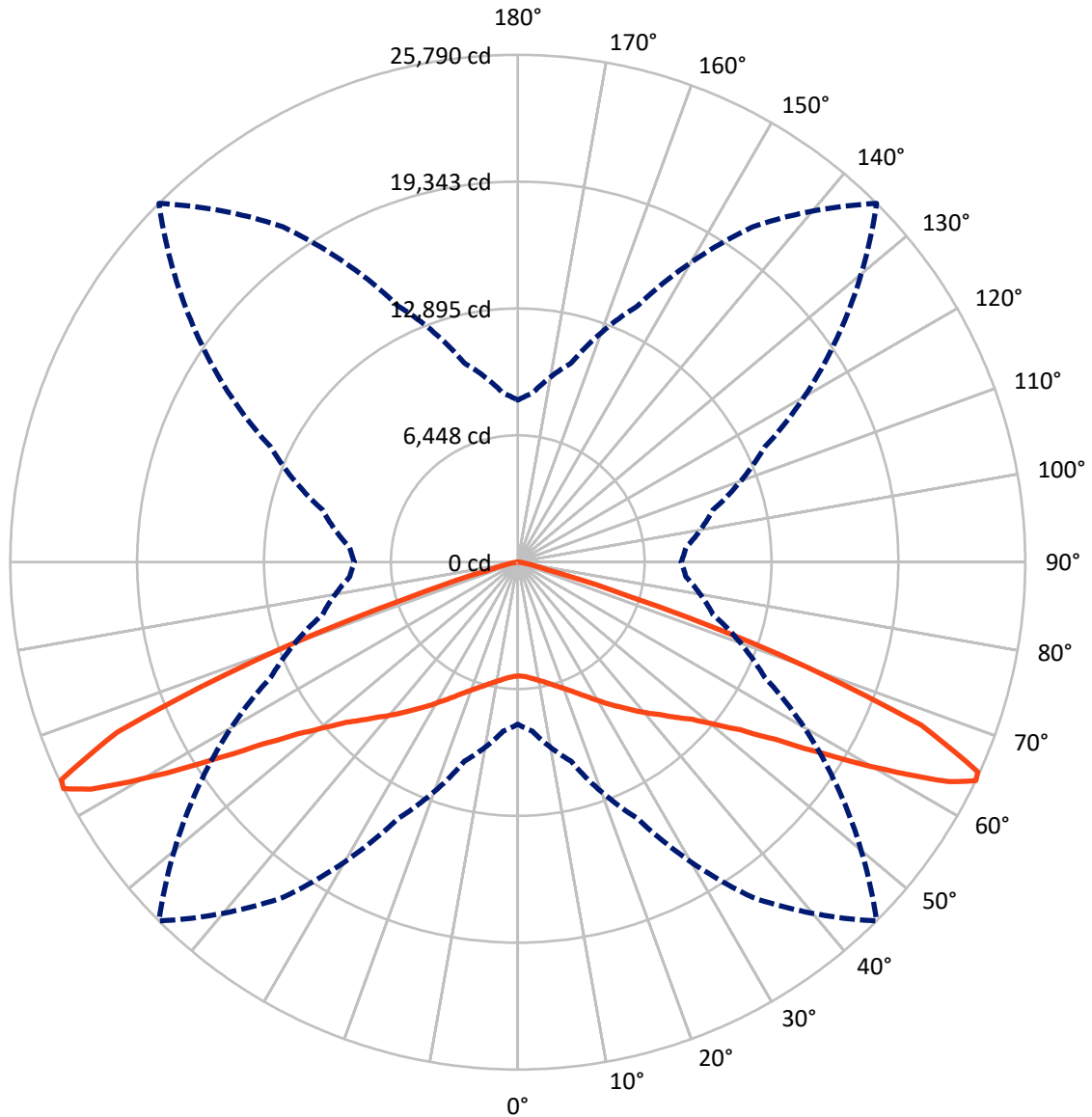
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	23937.0	0.0	23937.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23937.0	0.0	23937.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	47874.0	0.0	47874.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	568.5	1.2
10°-20°	1833.7	3.8
20°-30°	3465.1	7.2
30°-40°	5738.7	12.0
40°-50°	8959.0	18.7
50°-60°	13850.4	28.9
60°-70°	11943.0	24.9
70°-80°	1353.5	2.8
80°-90°	162.2	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°	47874.0	100.0
0°-180°	47874.0	100.0

**Coefficient of Utilization**



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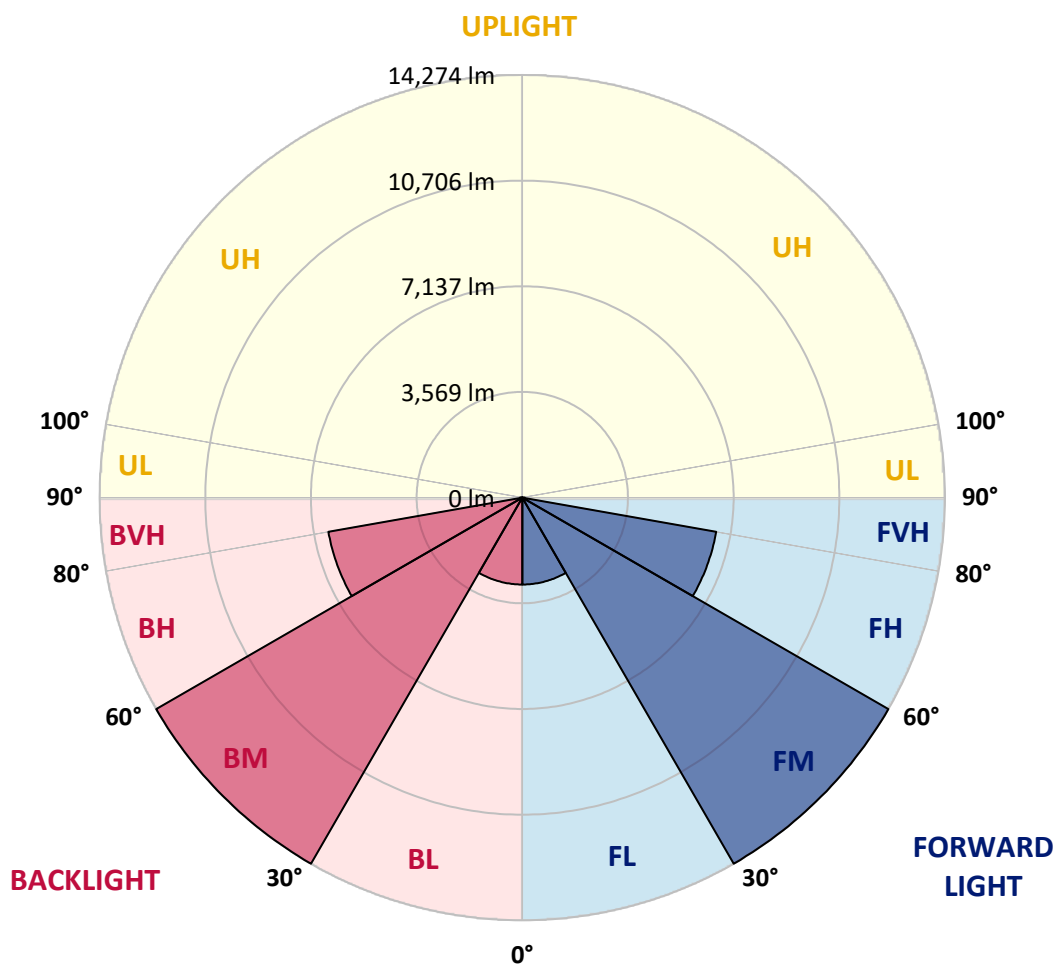
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2933.7	6.1			
FM	(30°-60°)	14274.0	29.8			
FH	(60°-80°)	6648.2	13.9			G3/7500
FVH	(80°-90°)	81.1	0.2			G1/100
BL	(0°-30°)	2933.7	6.1	B4/5000		
BM	(30°-60°)	14274.0	29.8	B5		
BH	(60°-80°)	6648.2	13.9	B5		G3/7500
BVH	(80°-90°)	81.1	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-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5786.4	5786.4	5786.4	5786.4	5786.4	5786.4	5786.4	5786.4	5786.4	5786.4	5786.4
2.5°	5809.2	5821.9	5811.7	5809.2	5806.7	5806.7	5806.7	5809.2	5819.3	5826.9	5821.9
5°	5882.7	5892.9	5887.8	5885.3	5882.7	5885.3	5880.2	5877.7	5885.3	5885.3	5882.7
7.5°	5974.0	5986.7	5981.6	5986.7	5989.2	5991.8	5979.1	5968.9	5966.4	5974.0	5968.9
10°	6098.3	6108.4	6110.9	6113.5	6118.5	6116.0	6100.8	6083.1	6080.5	6078.0	6075.4
12.5°	6237.7	6245.3	6247.9	6258.0	6265.6	6268.2	6250.4	6235.2	6209.8	6214.9	6204.8
15°	6394.9	6410.2	6407.6	6422.8	6443.1	6448.2	6430.4	6405.1	6382.3	6369.6	6362.0
17.5°	6587.6	6597.8	6592.7	6607.9	6633.3	6646.0	6630.8	6597.8	6575.0	6547.1	6531.9
20°	6815.9	6833.6	6838.7	6838.7	6861.5	6874.2	6851.4	6841.2	6805.7	6785.4	6772.7
22.5°	7074.5	7082.1	7097.3	7112.5	7135.3	7130.3	7122.7	7107.5	7074.5	7056.7	7036.5
25°	7366.1	7373.7	7411.7	7444.7	7452.3	7447.2	7437.1	7429.5	7399.1	7358.5	7343.3
27.5°	7705.9	7721.1	7771.8	7802.2	7802.2	7804.8	7784.5	7809.8	7743.9	7695.7	7690.7
30°	8131.9	8142.0	8185.1	8215.5	8200.3	8187.6	8182.6	8207.9	8136.9	8050.7	8030.4
32.5°	8552.8	8588.3	8626.3	8692.2	8639.0	8616.2	8611.1	8628.9	8547.7	8451.4	8423.5
35°	9004.1	9029.5	9100.5	9156.3	9108.1	9054.8	9077.7	9133.5	9037.1	8907.8	8902.7
37.5°	9503.7	9526.5	9617.8	9676.1	9640.6	9549.3	9587.3	9653.3	9556.9	9397.2	9364.2
40°	10023.5	10071.6	10185.7	10246.6	10188.3	10066.6	10137.6	10208.6	10122.4	9937.3	9863.7
42.5°	10606.7	10682.7	10847.6	10878.0	10766.4	10601.6	10725.8	10839.9	10779.1	10566.1	10538.2
45°	11288.8	11334.4	11537.3	11603.2	11448.5	11243.1	11397.8	11605.7	11560.1	11314.1	11260.9
47.5°	12052.0	12095.1	12305.6	12404.5	12209.2	11932.8	12211.7	12483.1	12455.2	12191.5	12166.1
50°	12954.7	12964.8	13256.4	13368.0	13172.8	12934.4	13182.9	13520.1	13408.6	13071.3	13066.3
52.5°	13943.6	13956.3	14323.9	14539.5	14430.4	14161.7	14455.8	14661.2	14377.2	13936.0	13903.0
55°	14800.7	14864.0	15366.1	15939.2	16088.8	15893.5	15982.3	15885.9	15186.1	14567.4	14471.0
57.5°	15150.6	15274.8	16038.1	17108.1	18081.8	18370.9	17686.2	16768.3	15508.1	14633.3	14539.5
60°	14296.1	14430.4	15614.6	17645.7	20130.6	21385.8	19461.2	16917.9	14775.3	13545.5	13398.4
62.5°	11448.5	11486.5	13228.5	16380.4	21324.9	24575.6	20209.2	15642.5	12642.8	10971.8	10913.5
64°	8238.4	8628.9	10474.8	14362.0	20802.6	25790.2	19778.2	13854.9	10269.4	8578.1	8304.3
65°	6161.7	6268.2	8443.8	12265.0	19882.1	25698.9	18941.4	12145.8	8504.6	6564.8	6260.5
67.5°	2327.7	2340.4	3116.3	6113.5	14154.1	22111.0	14455.8	6607.9	3582.9	2591.4	2497.6
70°	966.1	983.8	1143.6	2056.4	6083.1	14197.2	6970.5	2383.5	1310.9	1062.4	1047.2
72.5°	707.4	717.6	765.8	912.8	1871.3	5829.5	2292.2	1011.7	768.3	687.2	679.6
75°	555.3	560.4	595.9	672.0	872.3	1615.2	953.4	694.8	585.7	527.4	522.3
77.5°	423.5	436.1	461.5	512.2	585.7	765.8	631.4	519.8	451.3	403.2	395.6
80°	291.6	306.8	355.0	375.3	393.0	497.0	431.1	393.0	352.5	294.1	276.4
82.5°	180.0	190.2	238.4	256.1	248.5	278.9	276.4	281.5	251.0	182.6	169.9
85°	93.8	98.9	129.3	134.4	124.2	114.1	142.0	164.8	154.7	104.0	101.4
87.5°	20.3	22.8	27.9	25.4	27.9	27.9	35.5	53.2	55.8	35.5	33.0
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)