

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: P457441

Luminaire Tested: **GALN-SA8D-740-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457441
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-SA8D-740-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 65193 lumens
Efficiency: N/A
Efficacy: 132.2 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

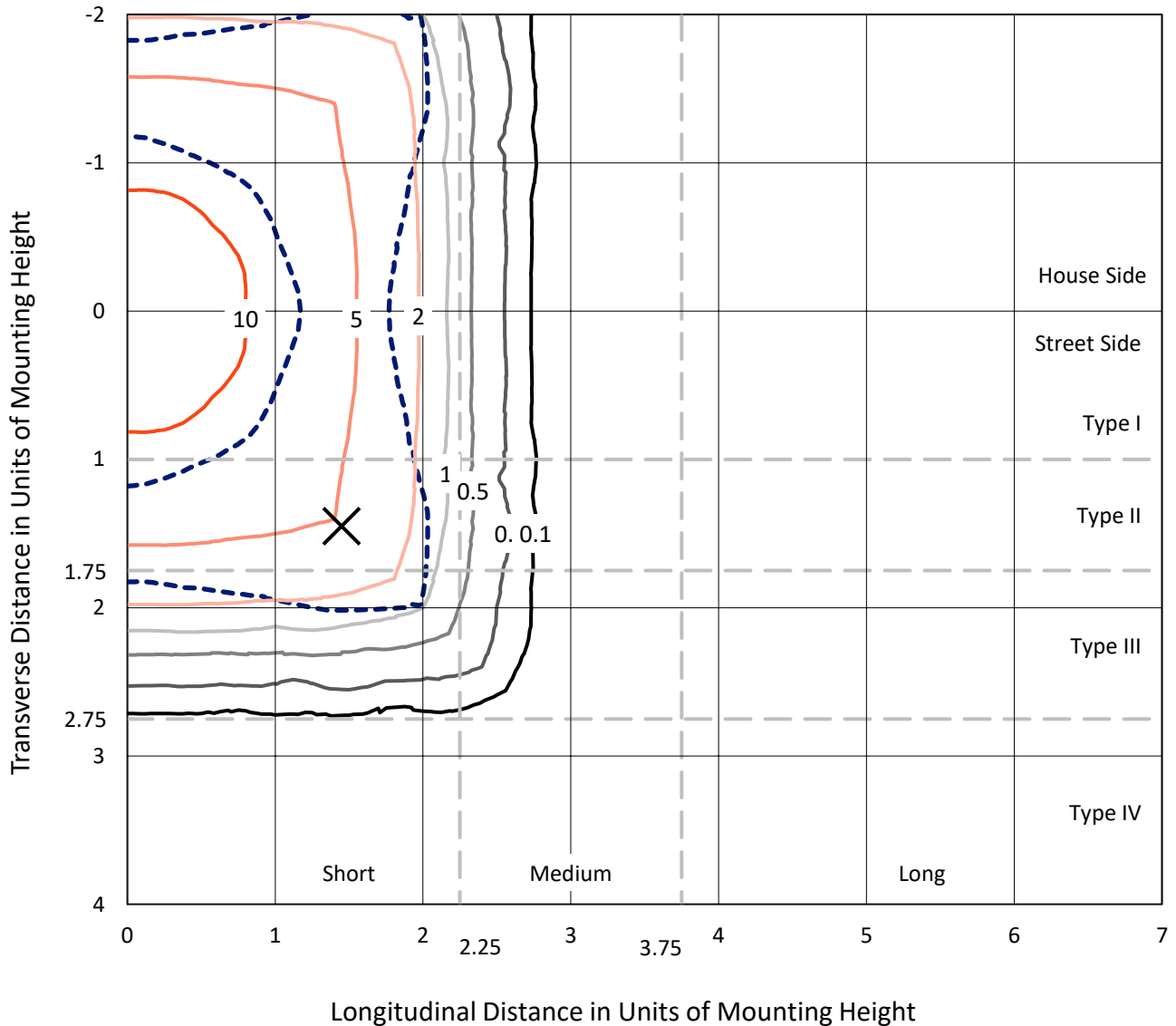
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

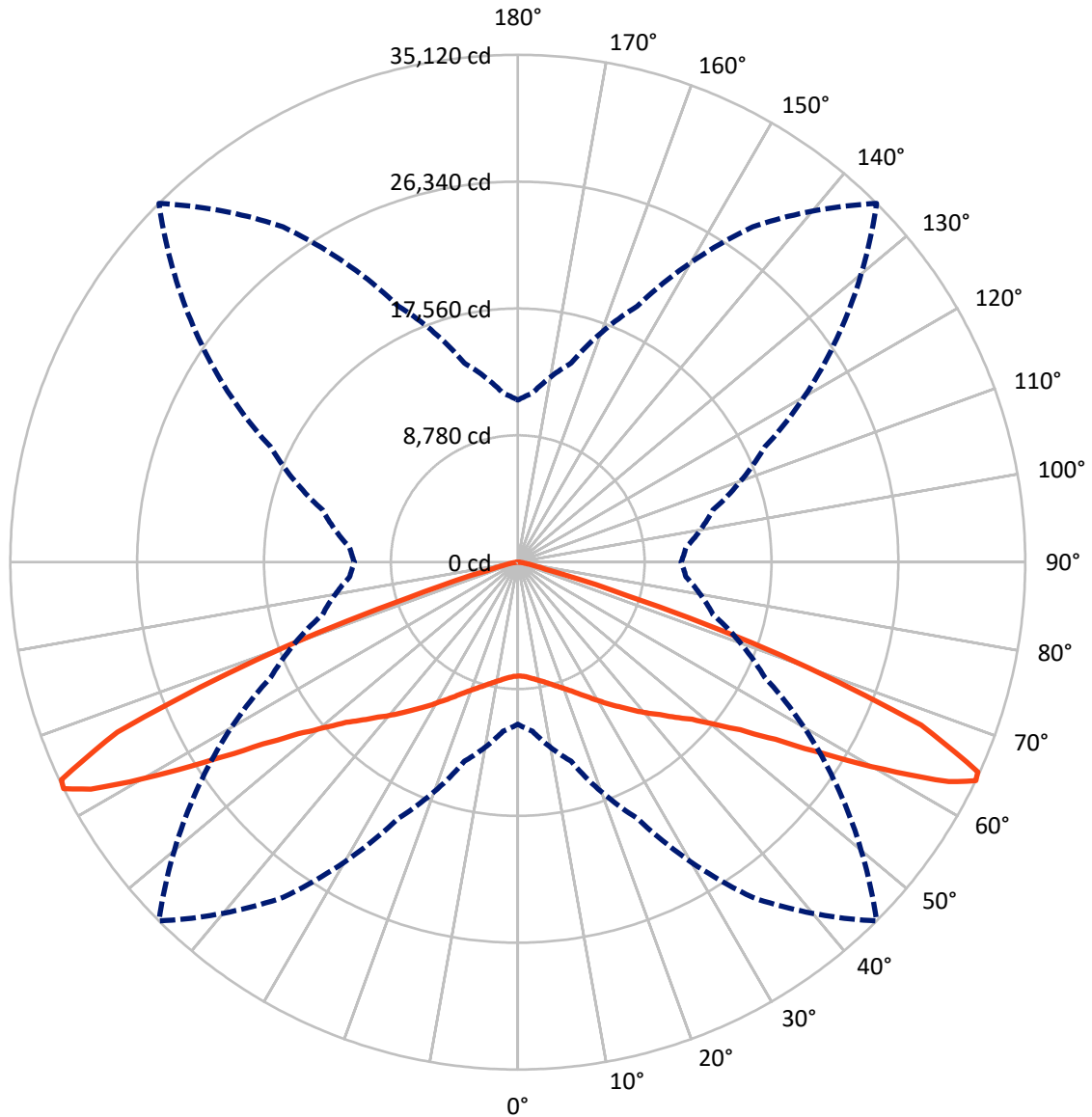
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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
House Side	Lumens	32596.5	0.0	32596.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32596.5	0.0	32596.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	65193.0	0.0	65193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.1	1.2
10°-20°	2497.0	3.8
20°-30°	4718.7	7.2
30°-40°	7814.7	12.0
40°-50°	12200.0	18.7
50°-60°	18860.9	28.9
60°-70°	16263.6	24.9
70°-80°	1843.1	2.8
80°-90°	220.8	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°	65193.0	100.0
0°-180°	65193.0	100.0

Coefficient of Utilization



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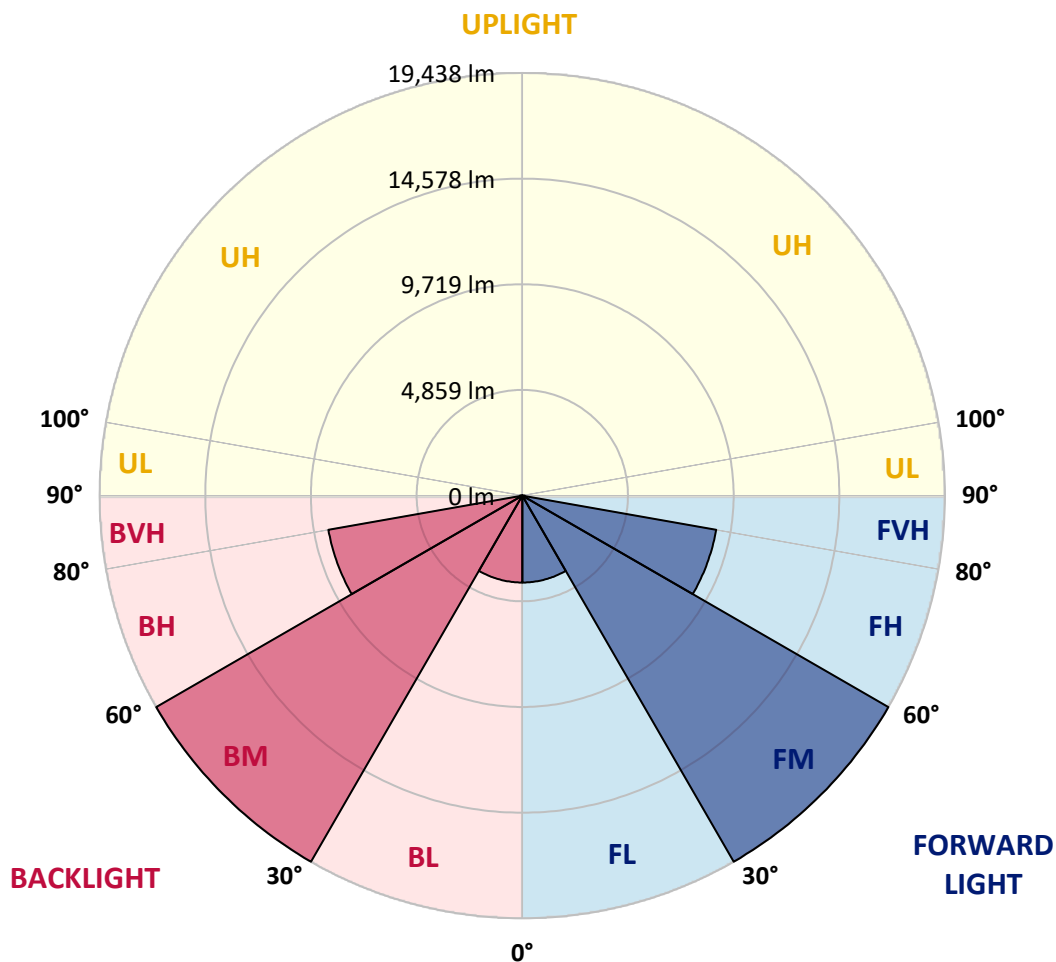
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3994.9	6.1			
FM	(30°-60°)	19437.8	29.8			
FH	(60°-80°)	9053.3	13.9			G4/12000
FVH	(80°-90°)	110.4	0.2			G2/225
BL	(0°-30°)	3994.9	6.1	B4/5000		
BM	(30°-60°)	19437.8	29.8	B5		
BH	(60°-80°)	9053.3	13.9	B5		G4/12000
BVH	(80°-90°)	110.4	0.2			G2/225
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°	7879.7	7879.7	7879.7	7879.7	7879.7	7879.7	7879.7	7879.7	7879.7	7879.7	7879.7
2.5°	7910.7	7928.0	7914.2	7910.7	7907.3	7907.3	7907.3	7910.7	7924.6	7934.9	7928.0
5°	8010.9	8024.7	8017.8	8014.3	8010.9	8014.3	8007.4	8004.0	8014.3	8014.3	8010.9
7.5°	8135.2	8152.5	8145.5	8152.5	8155.9	8159.4	8142.1	8128.3	8124.8	8135.2	8128.3
10°	8304.4	8318.2	8321.7	8325.1	8332.0	8328.6	8307.8	8283.7	8280.2	8276.8	8273.3
12.5°	8494.3	8504.7	8508.1	8521.9	8532.3	8535.7	8511.6	8490.8	8456.3	8463.2	8449.4
15°	8708.4	8729.1	8725.6	8746.4	8774.0	8780.9	8756.7	8722.2	8691.1	8673.9	8663.5
17.5°	8970.8	8984.6	8977.7	8998.4	9033.0	9050.2	9029.5	8984.6	8953.5	8915.6	8894.8
20°	9281.6	9305.7	9312.7	9312.7	9343.7	9361.0	9329.9	9316.1	9267.8	9240.1	9222.9
22.5°	9633.8	9644.1	9664.9	9685.6	9716.6	9709.7	9699.4	9678.7	9633.8	9609.6	9582.0
25°	10030.9	10041.2	10093.0	10137.9	10148.3	10141.4	10127.6	10117.2	10075.8	10020.5	9999.8
27.5°	10493.6	10514.3	10583.3	10624.8	10624.8	10628.2	10600.6	10635.1	10545.4	10479.8	10472.8
30°	11073.7	11087.5	11146.2	11187.6	11166.9	11149.6	11142.7	11177.3	11080.6	10963.2	10935.5
32.5°	11646.9	11695.2	11747.0	11836.8	11764.3	11733.2	11726.3	11750.4	11640.0	11508.7	11470.8
35°	12261.5	12296.0	12392.7	12468.7	12403.1	12330.5	12361.6	12437.6	12306.4	12130.3	12123.4
37.5°	12941.7	12972.8	13097.1	13176.5	13128.2	13003.9	13055.7	13145.4	13014.2	12796.7	12751.8
40°	13649.6	13715.2	13870.6	13953.4	13874.0	13708.3	13805.0	13901.6	13784.2	13532.2	13432.0
42.5°	14443.8	14547.3	14771.8	14813.2	14661.3	14436.9	14606.0	14761.4	14678.6	14388.5	14350.5
45°	15372.6	15434.8	15711.0	15800.8	15590.1	15310.5	15521.1	15804.2	15742.1	15407.1	15334.6
47.5°	16412.0	16470.7	16757.2	16891.9	16626.0	16249.7	16629.5	16999.0	16961.0	16601.9	16567.3
50°	17641.2	17655.0	18052.1	18204.0	17938.2	17613.6	17952.0	18411.2	18259.3	17800.0	17793.1
52.5°	18987.9	19005.1	19505.8	19799.3	19650.8	19284.8	19685.4	19965.1	19578.3	18977.5	18932.6
55°	20155.0	20241.3	20925.0	21705.3	21909.1	21643.2	21764.0	21632.8	20679.8	19837.3	19706.1
57.5°	20631.5	20800.7	21840.0	23297.2	24623.1	25016.7	24084.4	22834.5	21118.3	19927.1	19799.3
60°	19467.8	19650.8	21263.4	24029.2	27413.1	29122.3	26501.5	23038.2	20120.4	18445.7	18245.5
62.5°	15590.1	15641.9	18014.1	22306.2	29039.5	33466.2	27520.1	21301.4	17216.5	14941.0	14861.6
64°	11218.7	11750.4	14264.2	19557.6	28328.1	35120.1	26933.1	18867.0	13984.5	11681.4	11308.5
65°	8390.7	8535.7	11498.4	16702.0	27074.7	34995.8	25793.7	16539.7	11581.3	8939.7	8525.4
67.5°	3169.8	3187.1	4243.7	8325.1	19274.5	30109.9	19685.4	8998.4	4879.0	3528.9	3401.2
70°	1315.6	1339.8	1557.3	2800.4	8283.7	19333.2	9492.2	3245.8	1785.2	1446.8	1426.1
72.5°	963.4	977.2	1042.8	1243.1	2548.3	7938.4	3121.5	1377.7	1046.2	935.8	925.4
75°	756.2	763.1	811.4	915.0	1187.8	2199.5	1298.3	946.1	797.6	718.2	711.3
77.5°	576.6	593.9	628.4	697.5	797.6	1042.8	859.8	707.9	614.6	549.0	538.7
80°	397.1	417.8	483.4	511.0	535.2	676.8	587.0	535.2	480.0	400.5	376.4
82.5°	245.2	259.0	324.6	348.7	338.4	379.8	376.4	383.3	341.8	248.6	231.3
85°	127.8	134.7	176.1	183.0	169.2	155.4	193.4	224.4	210.6	141.6	138.1
87.5°	27.6	31.1	38.0	34.5	38.0	38.0	48.3	72.5	76.0	48.3	44.9
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)