

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: P651438

Luminaire Tested: **GALN-SA6D-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651438
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-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 40262 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

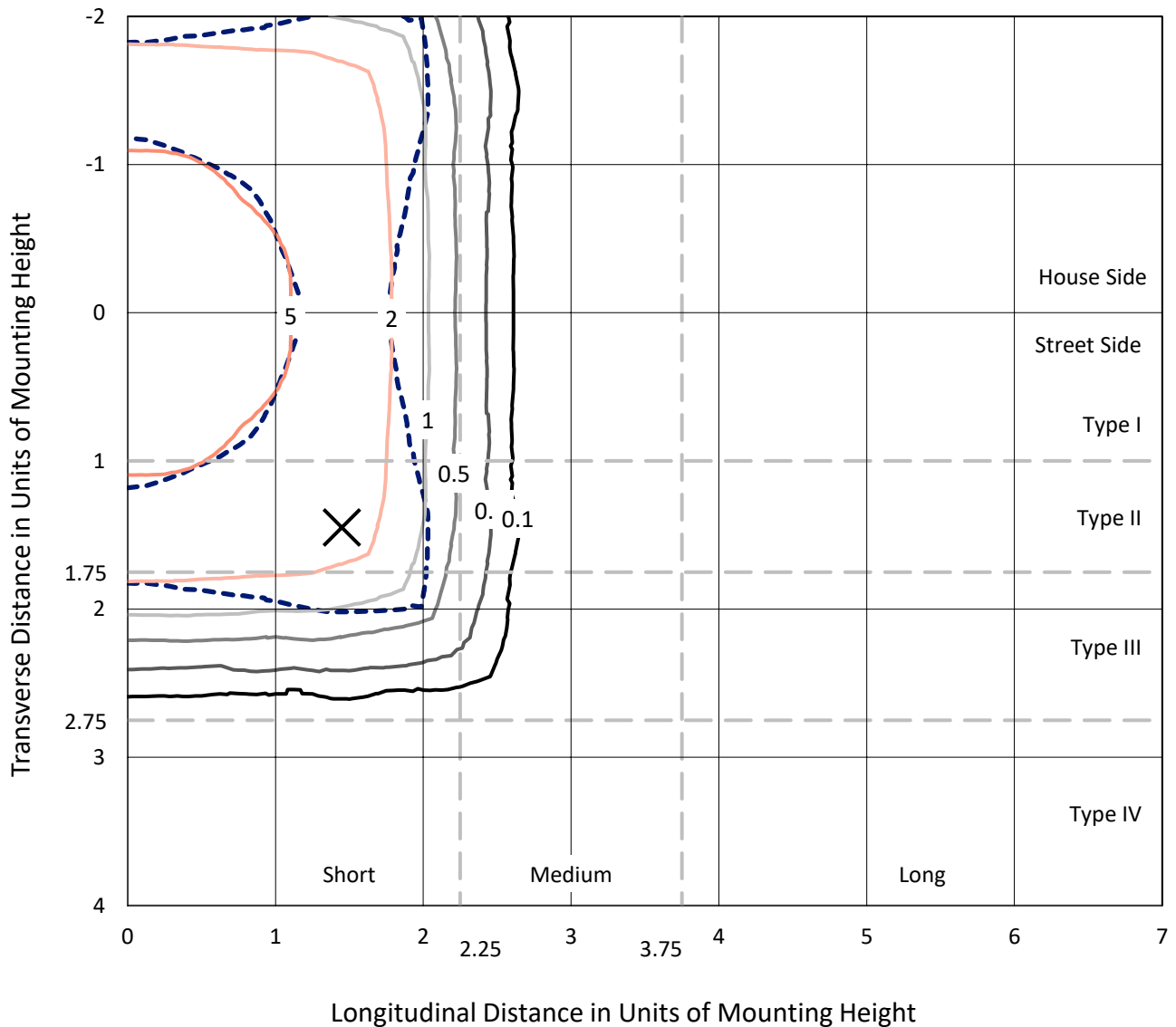
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

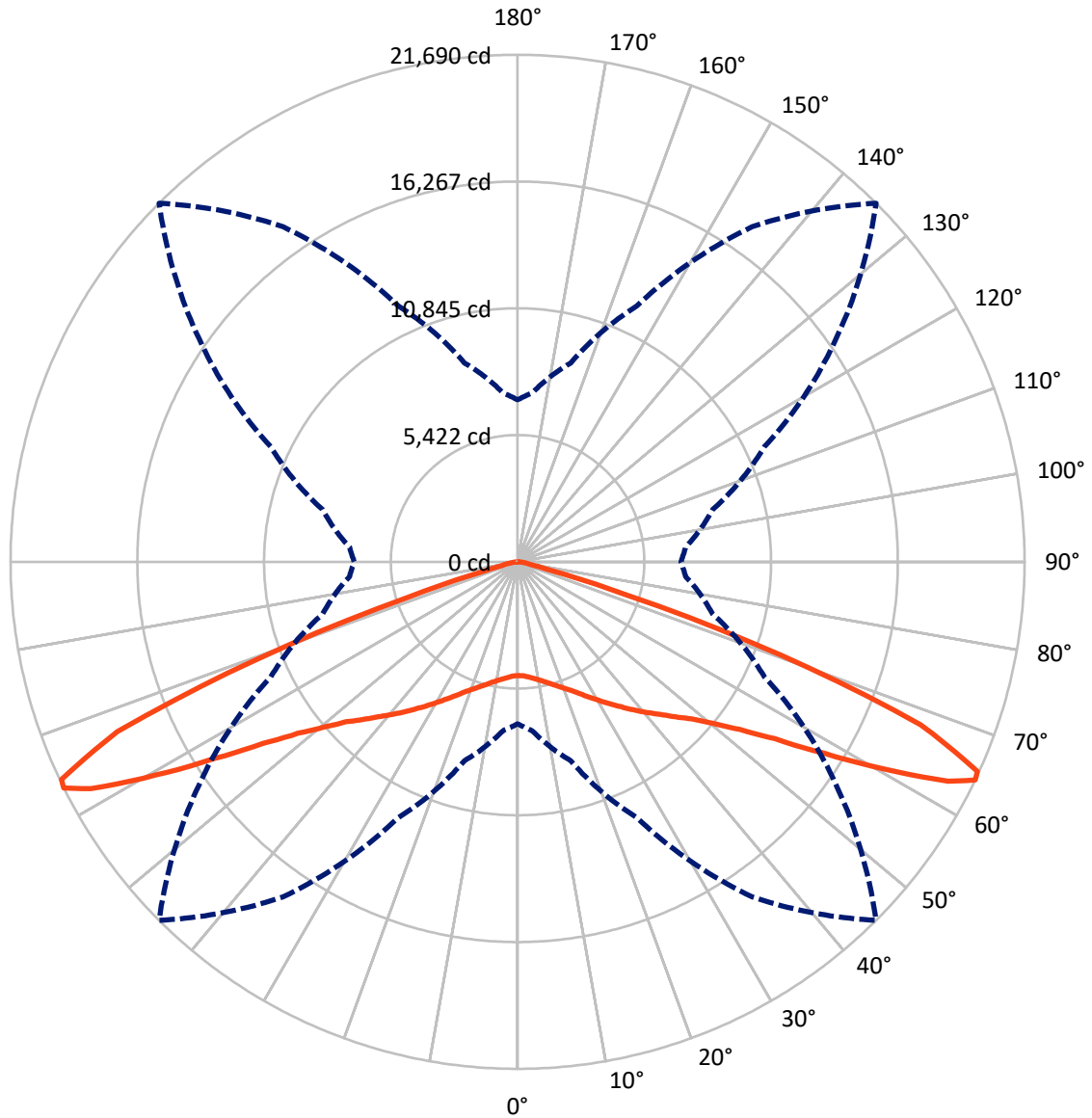
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type V - Short - N/A

REPORT NUMBER: P651438
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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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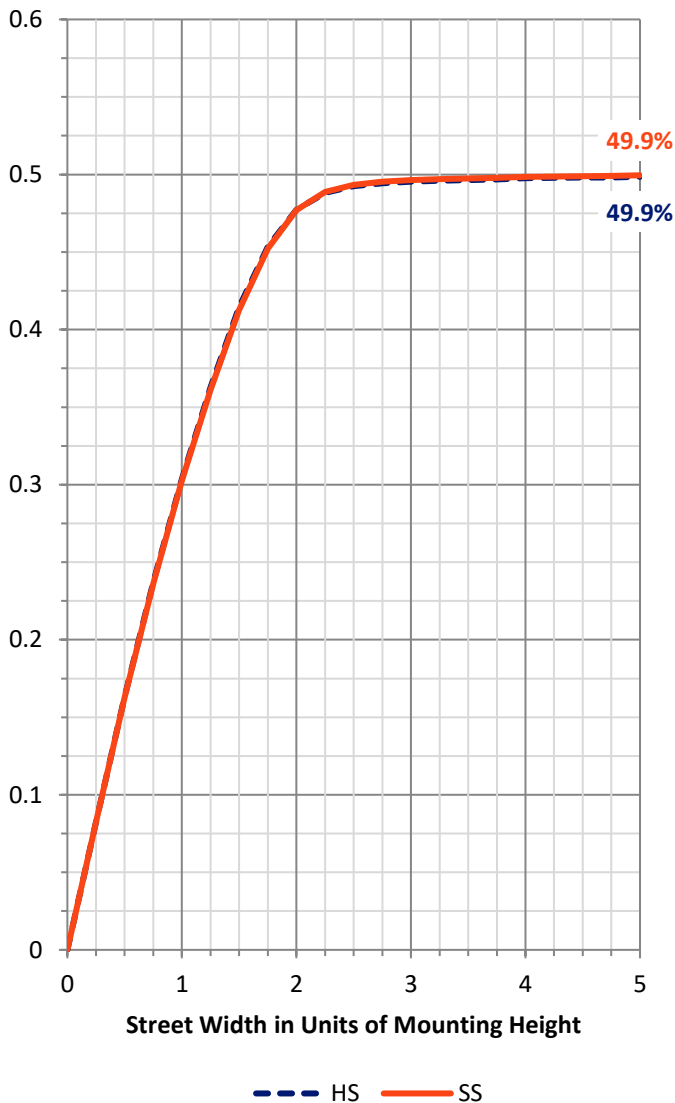
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20131.0	0.0	20131.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20131.0	0.0	20131.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40262.0	0.0	40262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.1	1.2
10°-20°	1542.1	3.8
20°-30°	2914.2	7.2
30°-40°	4826.2	12.0
40°-50°	7534.5	18.7
50°-60°	11648.2	28.9
60°-70°	10044.1	24.9
70°-80°	1138.3	2.8
80°-90°	136.4	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°	40262.0	100.0
0°-180°	40262.0	100.0

Coefficient of Utilization



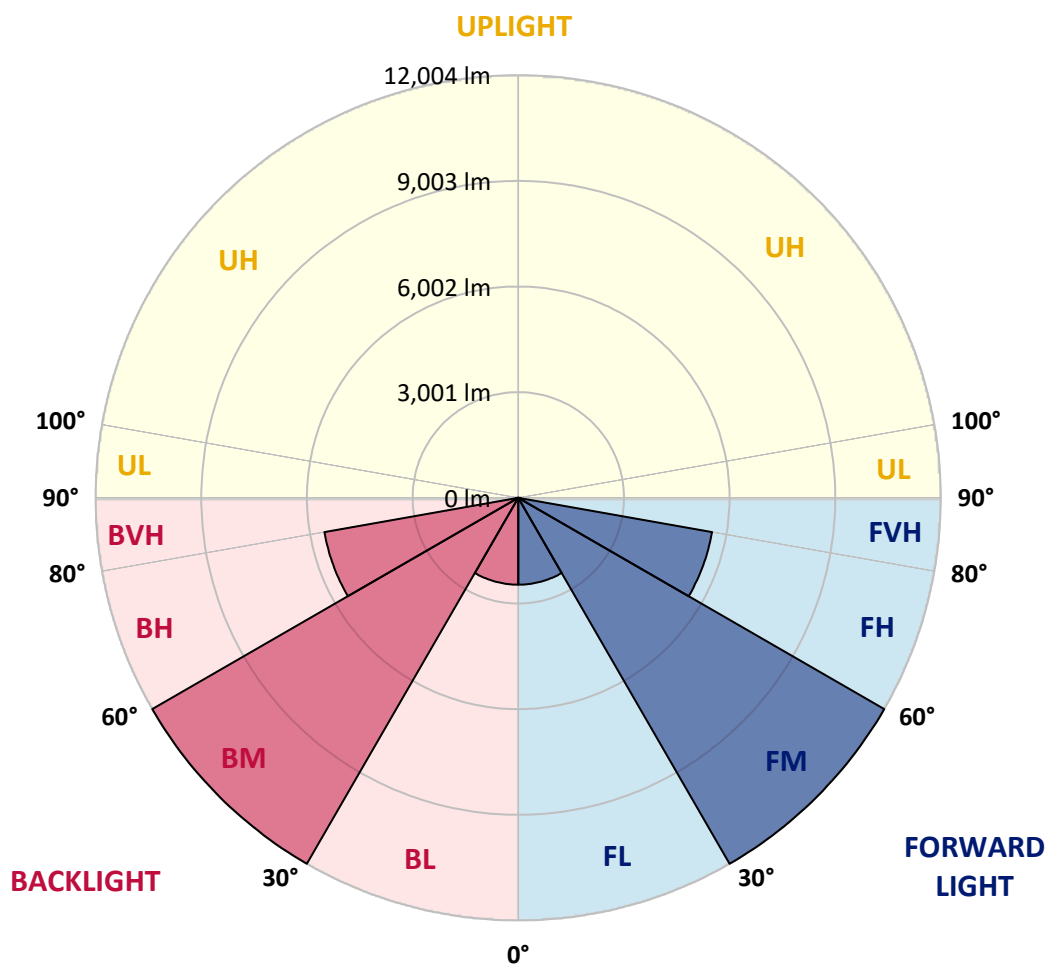
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2467.2	6.1			
FM (30°-60°)	12004.5	29.8			
FH (60°-80°)	5591.2	13.9			G3/7500
FVH (80°-90°)	68.2	0.2			G1/100
BL (0°-30°)	2467.2	6.1	B3/2500		
BM (30°-60°)	12004.5	29.8	B5		
BH (60°-80°)	5591.2	13.9	B5		G3/7500
BVH (80°-90°)	68.2	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4866.4	4866.4	4866.4	4866.4	4866.4	4866.4	4866.4	4866.4	4866.4	4866.4	4866.4
2.5°	4885.5	4896.2	4887.6	4885.5	4883.4	4883.4	4883.4	4885.5	4894.0	4900.4	4896.2
5°	4947.4	4955.9	4951.6	4949.5	4947.4	4949.5	4945.2	4943.1	4949.5	4949.5	4947.4
7.5°	5024.1	5034.8	5030.5	5034.8	5036.9	5039.1	5028.4	5019.8	5017.7	5024.1	5019.8
10°	5128.7	5137.2	5139.3	5141.5	5145.7	5143.6	5130.8	5115.9	5113.7	5111.6	5109.4
12.5°	5245.9	5252.3	5254.5	5263.0	5269.4	5271.6	5256.6	5243.8	5222.4	5226.7	5218.2
15°	5378.1	5391.0	5388.8	5401.6	5418.6	5422.9	5408.0	5386.7	5367.5	5356.8	5350.4
17.5°	5540.2	5548.7	5544.5	5557.2	5578.6	5589.3	5576.5	5548.7	5529.6	5506.1	5493.3
20°	5732.2	5747.1	5751.3	5751.3	5770.5	5781.2	5762.0	5753.4	5723.6	5706.5	5695.8
22.5°	5949.7	5956.0	5968.8	5981.6	6000.8	5996.6	5990.2	5977.4	5949.7	5934.7	5917.7
25°	6194.9	6201.3	6233.2	6261.0	6267.4	6263.1	6254.6	6248.2	6222.6	6188.5	6175.7
27.5°	6480.7	6493.4	6536.1	6561.7	6561.7	6563.8	6546.8	6568.0	6512.6	6472.1	6467.9
30°	6838.9	6847.4	6883.7	6909.2	6896.5	6885.8	6881.6	6902.8	6843.1	6770.6	6753.6
32.5°	7192.9	7222.8	7254.7	7310.1	7265.4	7246.2	7241.9	7256.9	7188.6	7107.6	7084.2
35°	7572.4	7593.8	7653.5	7700.4	7659.9	7615.1	7634.3	7681.3	7600.2	7491.5	7487.2
37.5°	7992.6	8011.8	8088.6	8137.6	8107.7	8031.0	8062.9	8118.4	8037.4	7903.0	7875.3
40°	8429.8	8470.2	8566.2	8617.4	8568.4	8466.0	8525.7	8585.4	8512.9	8357.3	8295.4
42.5°	8920.2	8984.2	9122.8	9148.4	9054.5	8915.9	9020.4	9116.4	9065.2	8886.1	8862.6
45°	9493.9	9532.2	9702.9	9758.3	9628.2	9455.4	9585.5	9760.4	9722.0	9515.2	9470.4
47.5°	10135.7	10172.0	10349.0	10432.2	10267.9	10035.5	10270.0	10498.3	10474.8	10253.1	10231.7
50°	10894.9	10903.4	11148.6	11242.5	11078.3	10877.8	11086.8	11370.4	11276.6	10993.0	10988.8
52.5°	11726.6	11737.2	12046.4	12227.7	12136.0	11910.0	12157.3	12330.1	12091.2	11720.2	11692.4
55°	12447.4	12500.6	12922.9	13404.9	13530.7	13366.4	13441.1	13360.0	12771.5	12251.2	12170.1
57.5°	12741.7	12846.1	13488.0	14387.9	15206.8	15449.9	14874.1	14102.1	13042.3	12306.6	12227.7
60°	12023.0	12136.0	13131.9	14840.0	16929.8	17985.5	16366.9	14228.0	12426.0	11391.8	11268.1
62.5°	9628.2	9660.1	11125.2	13775.9	17934.2	20668.1	16995.9	13155.3	10632.6	9227.3	9178.3
64°	6928.5	7256.9	8809.3	12078.4	17495.0	21689.6	16633.5	11652.0	8636.6	7214.2	6983.9
65°	5182.0	5271.6	7101.2	10314.9	16720.8	21612.8	15929.7	10214.6	7152.4	5521.0	5265.1
67.5°	1957.6	1968.3	2620.8	5141.5	11903.6	18595.4	12157.3	5557.2	3013.2	2179.4	2100.5
70°	812.5	827.4	961.8	1729.4	5115.9	11939.8	5862.2	2004.5	1102.5	893.5	880.7
72.5°	594.9	603.5	644.0	767.7	1573.8	4902.6	1927.7	850.8	646.1	577.9	571.5
75°	467.0	471.3	501.2	565.2	733.6	1358.4	801.8	584.3	492.6	443.5	439.3
77.5°	356.2	366.8	388.1	430.8	492.6	644.0	531.0	437.2	379.5	339.1	332.7
80°	245.2	258.0	298.6	315.6	330.5	418.0	362.6	330.5	296.5	247.3	232.5
82.5°	151.4	160.0	200.5	215.4	209.0	234.6	232.5	236.7	211.1	153.6	142.9
85°	78.9	83.2	108.7	113.0	104.5	96.0	119.4	138.6	130.1	87.5	85.3
87.5°	17.1	19.2	23.5	21.4	23.5	23.5	29.9	44.7	46.9	29.9	27.8
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)