

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: P456281

Luminaire Tested: **GALN-SA7C-740-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456281
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-SA7C-740-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51104 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

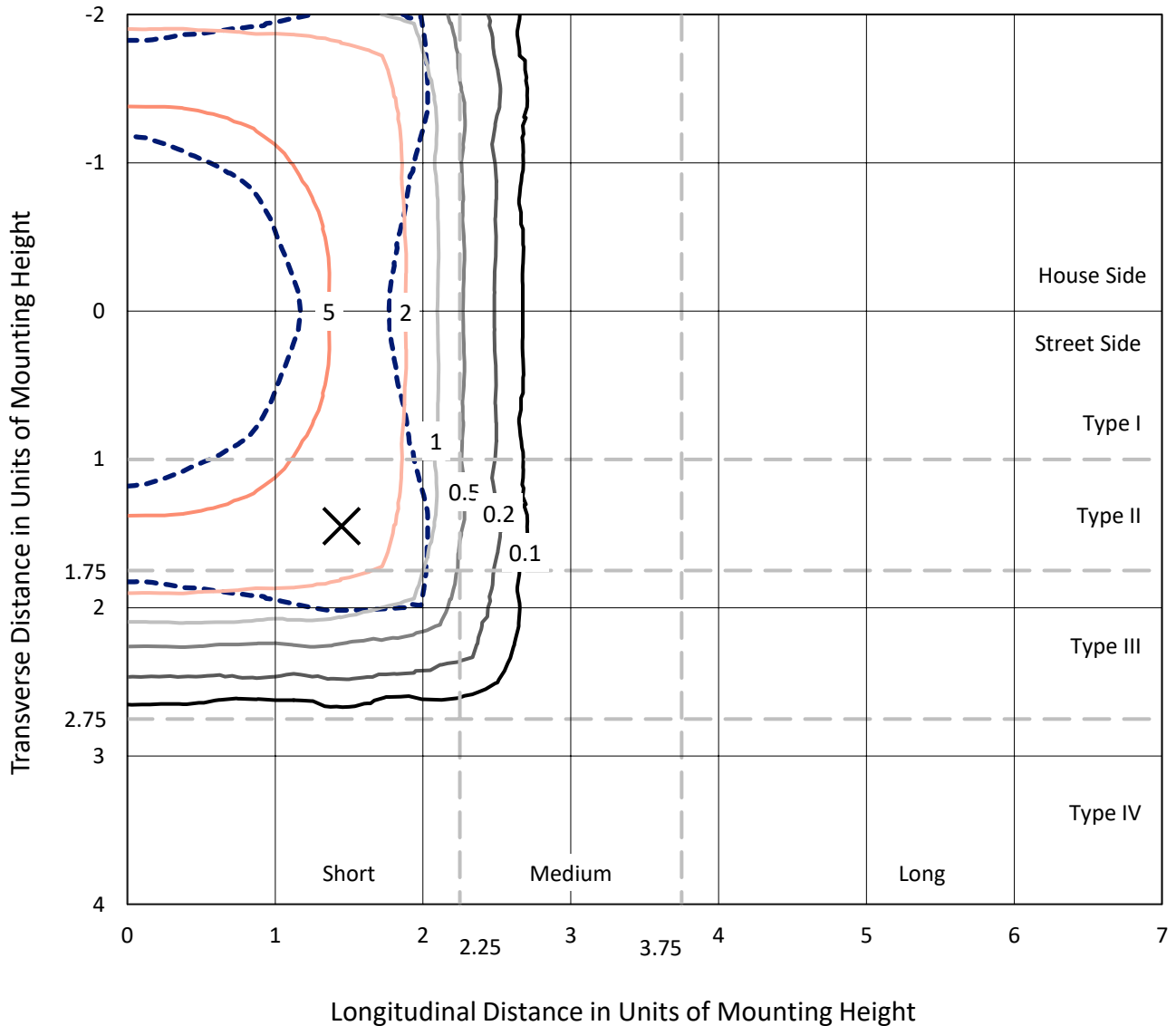
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

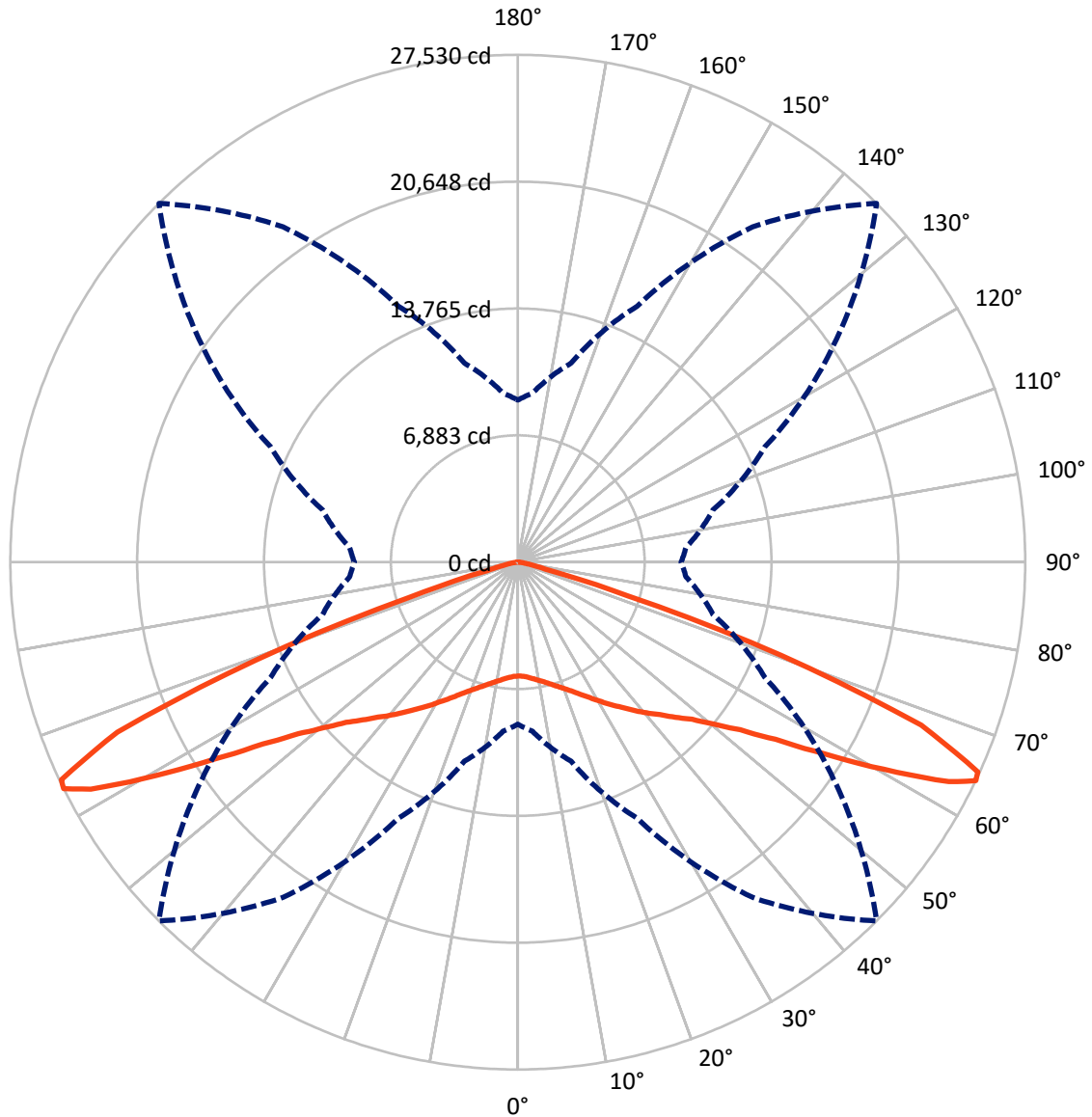
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	25552.0	0.0	25552.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25552.0	0.0	25552.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	51104.0	0.0	51104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.8	1.2
10°-20°	1957.4	3.8
20°-30°	3698.9	7.2
30°-40°	6125.9	12.0
40°-50°	9563.4	18.7
50°-60°	14784.9	28.9
60°-70°	12748.8	24.9
70°-80°	1444.8	2.8
80°-90°	173.1	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°	51104.0	100.0
0°-180°	51104.0	100.0

Coefficient of Utilization



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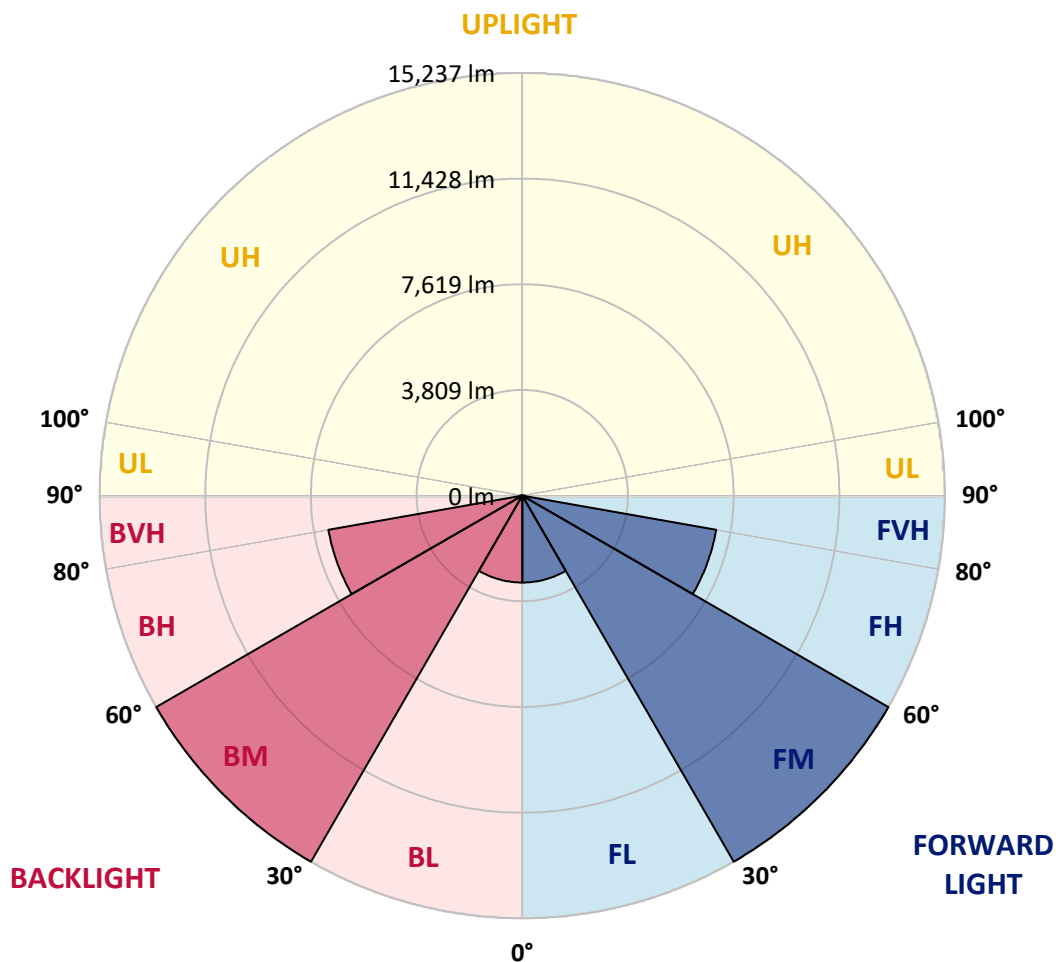
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3131.6	6.1			
FM	(30°-60°)	15237.1	29.8			
FH	(60°-80°)	7096.8	13.9			G3/7500
FVH	(80°-90°)	86.5	0.2			G1/100
BL	(0°-30°)	3131.6	6.1	B4/5000		
BM	(30°-60°)	15237.1	29.8	B5		
BH	(60°-80°)	7096.8	13.9	B5		G3/7500
BVH	(80°-90°)	86.5	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°	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8
2.5°	6201.1	6214.7	6203.8	6201.1	6198.4	6198.4	6198.4	6201.1	6212.0	6220.1	6214.7
5°	6279.6	6290.5	6285.0	6282.3	6279.6	6282.3	6276.9	6274.2	6282.3	6282.3	6279.6
7.5°	6377.1	6390.6	6385.2	6390.6	6393.3	6396.0	6382.5	6371.7	6369.0	6377.1	6371.7
10°	6509.7	6520.5	6523.2	6525.9	6531.4	6528.7	6512.4	6493.5	6490.8	6488.1	6485.3
12.5°	6658.6	6666.7	6669.4	6680.2	6688.4	6691.1	6672.1	6655.9	6628.8	6634.2	6623.4
15°	6826.4	6842.6	6839.9	6856.2	6877.8	6883.2	6864.3	6837.2	6812.9	6799.3	6791.2
17.5°	7032.1	7042.9	7037.5	7053.8	7080.8	7094.4	7078.1	7042.9	7018.6	6988.8	6972.6
20°	7275.7	7294.7	7300.1	7300.1	7324.4	7338.0	7313.6	7302.8	7264.9	7243.2	7229.7
22.5°	7551.8	7559.9	7576.2	7592.4	7616.8	7611.3	7603.2	7587.0	7551.8	7532.9	7511.2
25°	7863.1	7871.2	7911.8	7947.0	7955.1	7949.7	7938.9	7930.7	7898.3	7855.0	7838.7
27.5°	8225.8	8242.0	8296.2	8328.6	8328.6	8331.3	8309.7	8336.8	8266.4	8215.0	8209.5
30°	8680.5	8691.3	8737.4	8769.8	8753.6	8740.1	8734.6	8761.7	8685.9	8593.9	8572.2
32.5°	9129.8	9167.7	9208.3	9278.7	9221.9	9197.5	9192.1	9211.0	9124.4	9021.6	8991.8
35°	9611.6	9638.7	9714.5	9774.0	9722.6	9665.8	9690.1	9749.7	9646.8	9508.8	9503.4
37.5°	10144.9	10169.2	10266.7	10328.9	10291.0	10193.6	10234.2	10304.6	10201.7	10031.2	9996.0
40°	10699.7	10751.2	10873.0	10937.9	10875.7	10745.8	10821.5	10897.3	10805.3	10607.7	10529.2
42.5°	11322.3	11403.5	11579.4	11611.9	11492.8	11316.9	11449.5	11571.3	11506.3	11279.0	11249.2
45°	12050.4	12099.1	12315.7	12386.0	12220.9	12001.7	12166.8	12388.7	12340.0	12077.5	12020.6
47.5°	12865.1	12911.1	13135.8	13241.4	13032.9	12737.9	13035.7	13325.3	13295.5	13014.0	12986.9
50°	13828.7	13839.6	14150.8	14269.9	14061.5	13807.1	14072.3	14432.3	14313.2	13953.2	13947.8
52.5°	14884.4	14897.9	15290.4	15520.4	15404.0	15117.1	15431.1	15650.4	15347.2	14876.2	14841.0
55°	15799.2	15866.9	16402.8	17014.6	17174.3	16965.8	17060.6	16957.7	16210.7	15550.2	15447.4
57.5°	16172.8	16305.4	17120.1	18262.4	19301.8	19610.3	18879.5	17899.7	16554.4	15620.6	15520.4
60°	15260.6	15404.0	16668.1	18836.2	21488.8	22828.6	20774.2	18059.4	15772.2	14459.4	14302.4
62.5°	12220.9	12261.5	14121.1	17485.5	22763.7	26233.7	21572.7	16697.9	13495.8	11712.1	11649.8
64°	8794.2	9211.0	11181.5	15331.0	22206.1	27530.2	21112.6	14789.6	10962.3	9156.9	8864.6
65°	6577.4	6691.1	9013.4	13092.5	21223.5	27432.8	20219.3	12965.3	9078.4	7007.7	6682.9
67.5°	2484.8	2498.3	3326.6	6525.9	15109.0	23602.8	15431.1	7053.8	3824.6	2766.3	2666.1
70°	1031.3	1050.2	1220.7	2195.2	6493.5	15155.0	7440.8	2544.3	1399.4	1134.1	1117.9
72.5°	755.2	766.0	817.4	974.4	1997.6	6222.8	2446.9	1080.0	820.1	733.5	725.4
75°	592.8	598.2	636.1	717.3	931.1	1724.2	1017.7	741.6	625.3	563.0	557.6
77.5°	452.0	465.6	492.6	546.8	625.3	817.4	674.0	554.9	481.8	430.4	422.3
80°	311.3	327.5	378.9	400.6	419.5	530.5	460.1	419.5	376.2	314.0	295.0
82.5°	192.2	203.0	254.4	273.4	265.3	297.7	295.0	300.4	268.0	194.9	181.4
85°	100.1	105.6	138.0	143.5	132.6	121.8	151.6	175.9	165.1	111.0	108.3
87.5°	21.7	24.4	29.8	27.1	29.8	29.8	37.9	56.8	59.5	37.9	35.2
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)