

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: P534073

Luminaire Tested: **GALN-SA9C-740-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-740-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43784 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

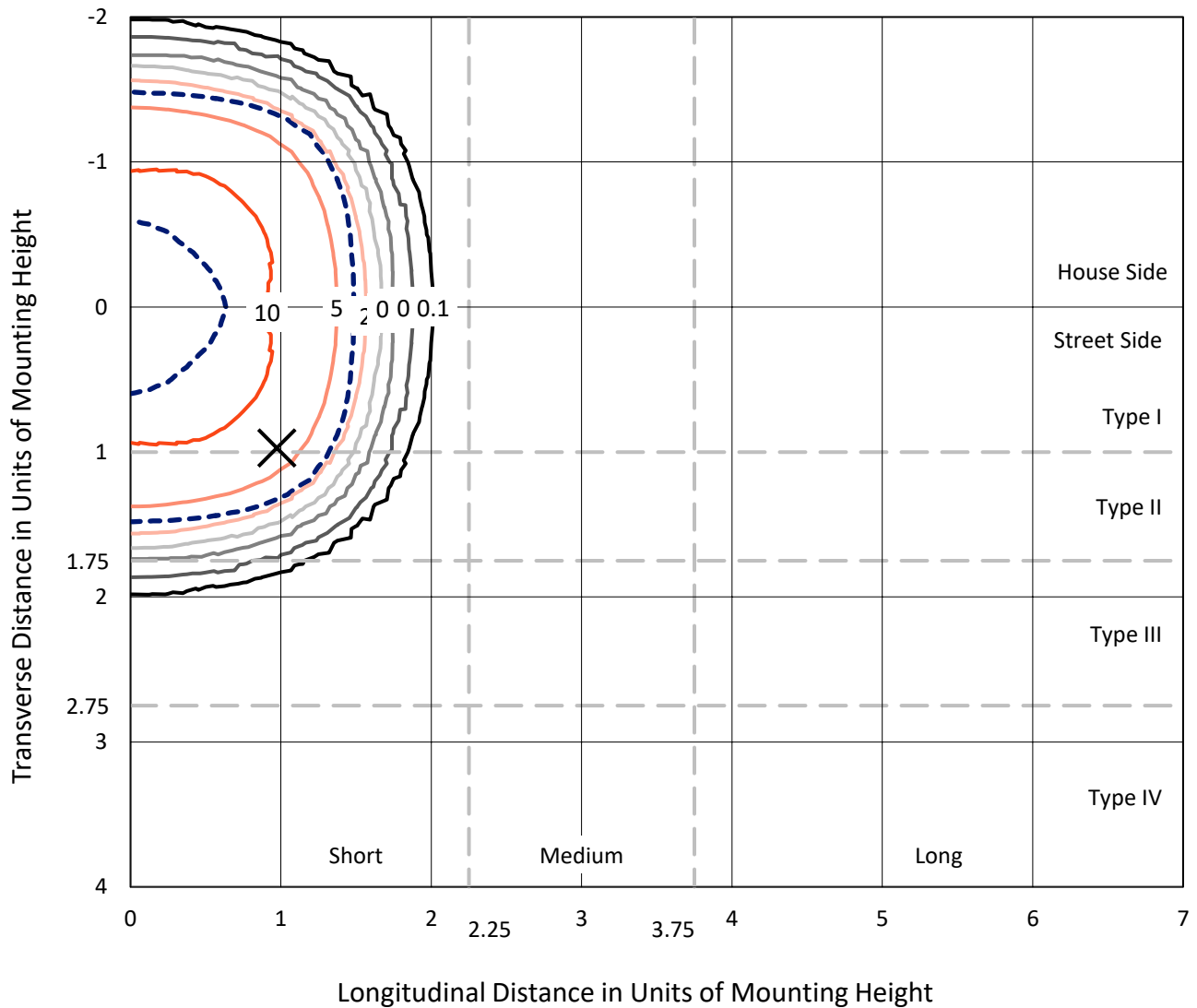
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

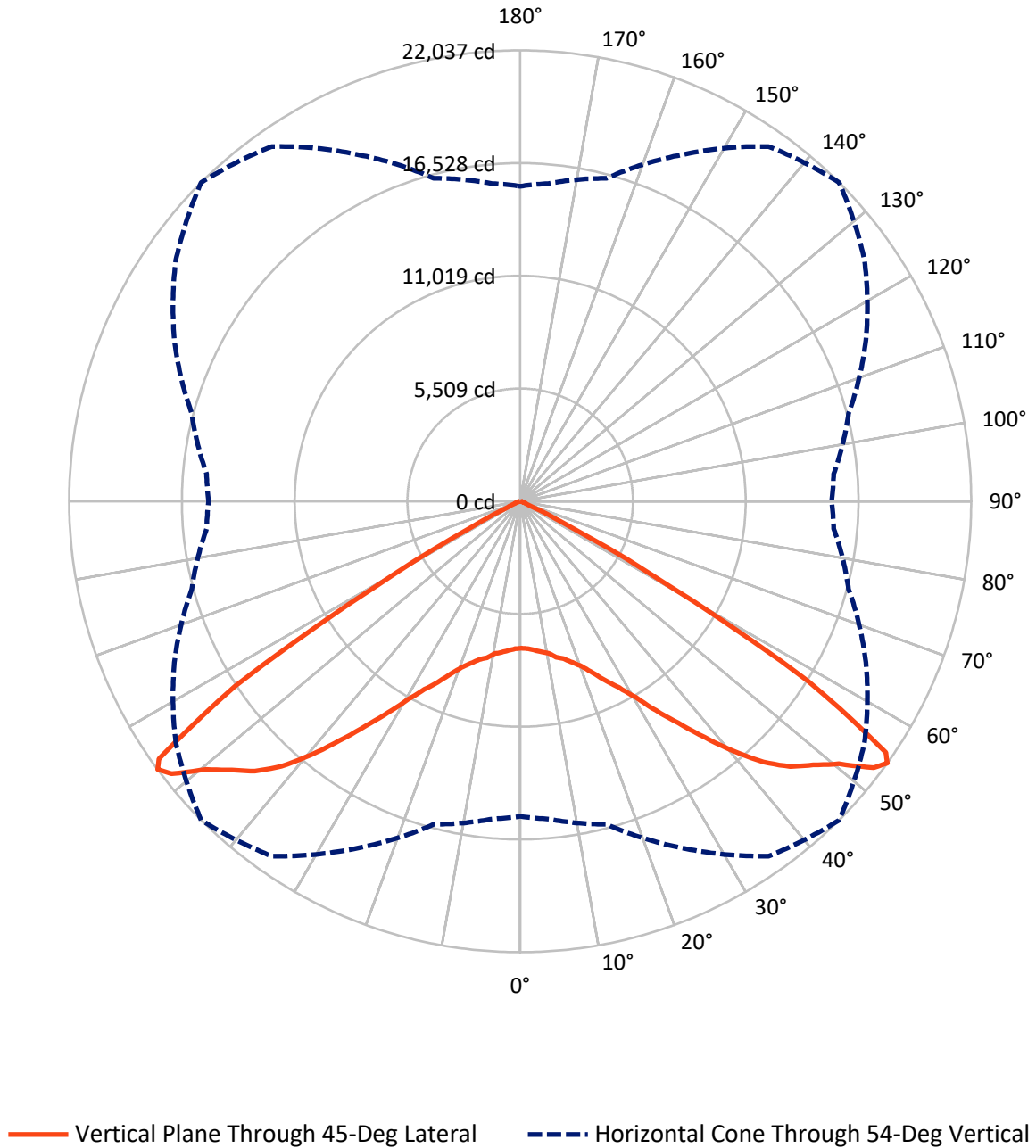
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21892.0	0.0	21892.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21892.0	0.0	21892.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	43784.0	0.0	43784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.7	1.6
10°-20°	2275.5	5.2
20°-30°	4459.9	10.2
30°-40°	8019.8	18.3
40°-50°	13728.4	31.4
50°-60°	13283.5	30.3
60°-70°	1137.1	2.6
70°-80°	134.8	0.3
80°-90°	42.3	0.1
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°	43784.0	100.0
0°-180°	43784.0	100.0

Coefficient of Utilization



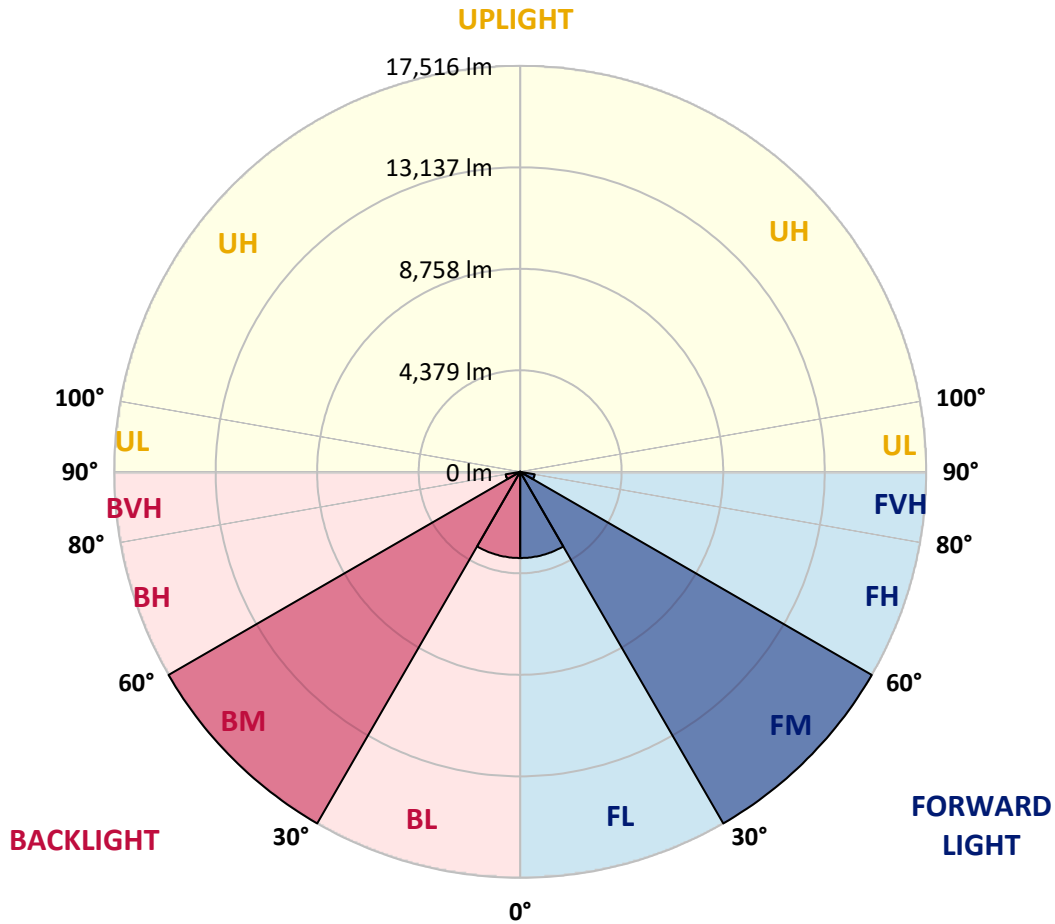
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3719.0	8.5			
FM (30°-60°)	17515.9	40.0			
FH (60°-80°)	636.0	1.5			G0/660
FVH (80°-90°)	21.1	0.0			G1/100
BL (0°-30°)	3719.0	8.5	B4/5000		
BM (30°-60°)	17515.9	40.0	B5		
BH (60°-80°)	636.0	1.5	B2/1000		G0/660
BVH (80°-90°)	21.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7179.2	7179.2	7179.2	7179.2	7179.2	7179.2	7179.2	7179.2	7179.2	7179.2	7179.2
2.5°	7213.9	7255.5	7227.8	7248.6	7248.6	7213.9	7234.7	7151.5	7207.0	7165.3	7172.3
5°	7324.9	7317.9	7317.9	7324.9	7297.1	7311.0	7283.3	7255.5	7234.7	7207.0	7290.2
7.5°	7463.6	7463.6	7415.1	7428.9	7415.1	7435.9	7380.4	7324.9	7304.1	7283.3	7269.4
10°	7595.4	7581.5	7560.7	7623.1	7574.6	7546.8	7519.1	7484.4	7408.1	7380.4	7352.6
12.5°	7789.6	7782.7	7754.9	7817.4	7789.6	7817.4	7713.3	7623.1	7609.3	7519.1	7567.7
15°	8018.5	8080.9	8032.4	8032.4	8018.5	7983.8	7942.2	7900.6	7775.7	7741.1	7748.0
17.5°	8316.8	8296.0	8302.9	8302.9	8372.3	8282.1	8198.9	8094.8	8032.4	8011.6	7942.2
20°	8601.2	8628.9	8622.0	8670.5	8712.2	8615.1	8524.9	8511.0	8337.6	8365.3	8268.2
22.5°	9100.6	9079.8	9114.5	9149.2	9121.4	9107.5	9024.3	8920.3	8767.7	8698.3	8684.4
25°	9627.8	9593.1	9530.7	9613.9	9655.5	9717.9	9558.4	9502.9	9267.1	9163.0	9170.0
27.5°	10078.6	10127.2	10196.6	10231.2	10335.3	10314.5	10203.5	10023.2	9842.8	9724.9	9648.6
30°	10696.0	10723.7	10841.7	10890.2	11070.6	11119.1	10945.7	10737.6	10418.5	10265.9	10175.8
32.5°	11264.8	11459.0	11452.1	11694.8	11986.2	12187.3	11875.2	11556.1	11237.0	11056.7	10897.1
35°	12187.3	12152.6	12353.8	12610.4	13082.1	13311.0	12971.1	12603.5	12118.0	11826.6	11701.8
37.5°	13047.4	13061.3	13331.8	13741.1	14282.1	14635.9	14337.6	13734.1	13234.7	12860.2	12686.7
40°	14296.0	14323.7	14601.2	15065.9	15676.3	16057.9	15711.0	15100.6	14434.7	14143.4	14143.4
42.5°	15759.6	15877.5	16057.9	16460.2	17008.1	17431.3	17119.1	16640.5	15967.7	15593.1	15648.6
45°	17264.8	17320.3	17438.2	18034.7	18291.4	18499.5	18208.1	17986.2	17535.3	17077.5	17001.2
47.5°	18672.9	18693.7	19040.5	19227.8	19429.0	19255.5	19442.8	19151.5	18645.1	18201.2	18111.0
50°	19297.2	19262.5	19755.0	20323.8	20476.4	20171.2	20011.6	19817.4	19047.5	18513.3	18277.5
52.5°	17479.8	17681.0	18596.6	20178.1	21371.2	21627.8	20698.3	19803.5	18367.7	17327.2	17167.7
54°	15398.9	15586.2	16342.2	18686.8	21170.0	22037.1	20538.8	18638.2	16612.8	15378.1	15218.5
55°	13338.8	13130.7	14504.1	16897.2	20226.6	21676.4	19907.6	17133.0	14816.2	13685.6	13463.6
57.5°	7220.8	7255.5	8413.9	10675.2	14212.8	16619.7	14677.5	11590.8	8753.8	7484.4	7373.4
60°	2289.0	2344.5	2850.9	4314.5	6790.8	8108.7	6950.3	4654.3	3218.5	2580.4	2476.3
62.5°	714.5	742.2	811.6	1206.9	1859.0	2656.7	2080.9	1248.6	929.5	853.2	867.1
65°	437.0	437.0	443.9	471.7	554.9	645.1	624.3	548.0	527.2	513.3	506.4
67.5°	284.4	277.5	291.3	312.1	326.0	332.9	353.8	374.6	367.6	353.8	353.8
70°	173.4	166.5	180.3	208.1	215.0	228.9	249.7	277.5	270.5	256.6	263.6
72.5°	97.1	97.1	104.0	124.9	145.7	159.5	180.3	201.2	208.1	201.2	201.2
75°	34.7	41.6	55.5	76.3	90.2	111.0	131.8	152.6	173.4	159.5	152.6
77.5°	13.9	13.9	27.7	48.6	69.4	90.2	124.9	145.7	159.5	145.7	131.8
80°	6.9	6.9	20.8	41.6	62.4	83.2	104.0	124.9	131.8	117.9	104.0
82.5°	6.9	6.9	20.8	41.6	62.4	76.3	111.0	124.9	138.7	124.9	104.0
85°	0.0	6.9	20.8	41.6	55.5	62.4	62.4	41.6	34.7	20.8	20.8
87.5°	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)