

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: P533136

Luminaire Tested: **GALN-SA8C-740-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50109 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

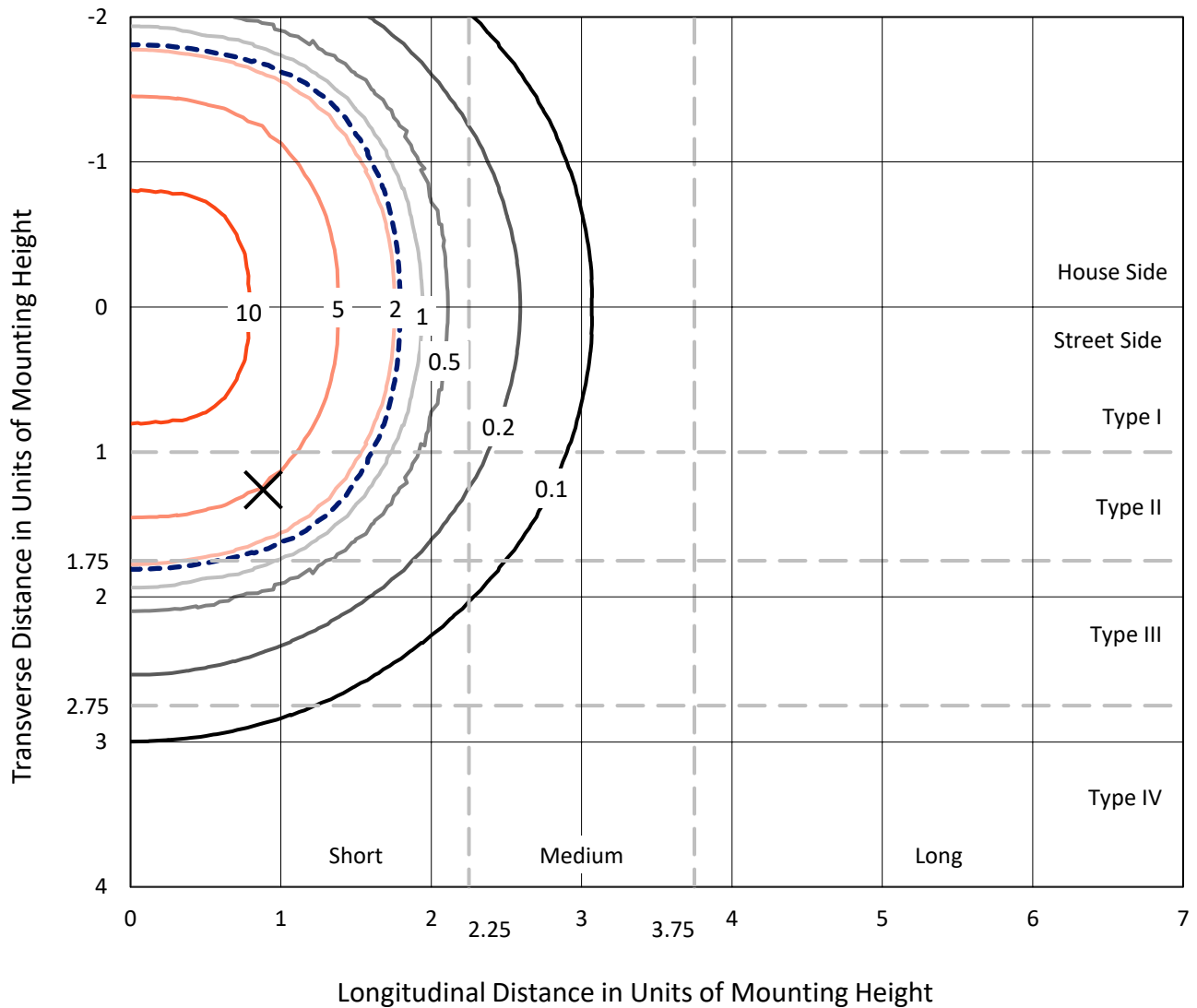
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

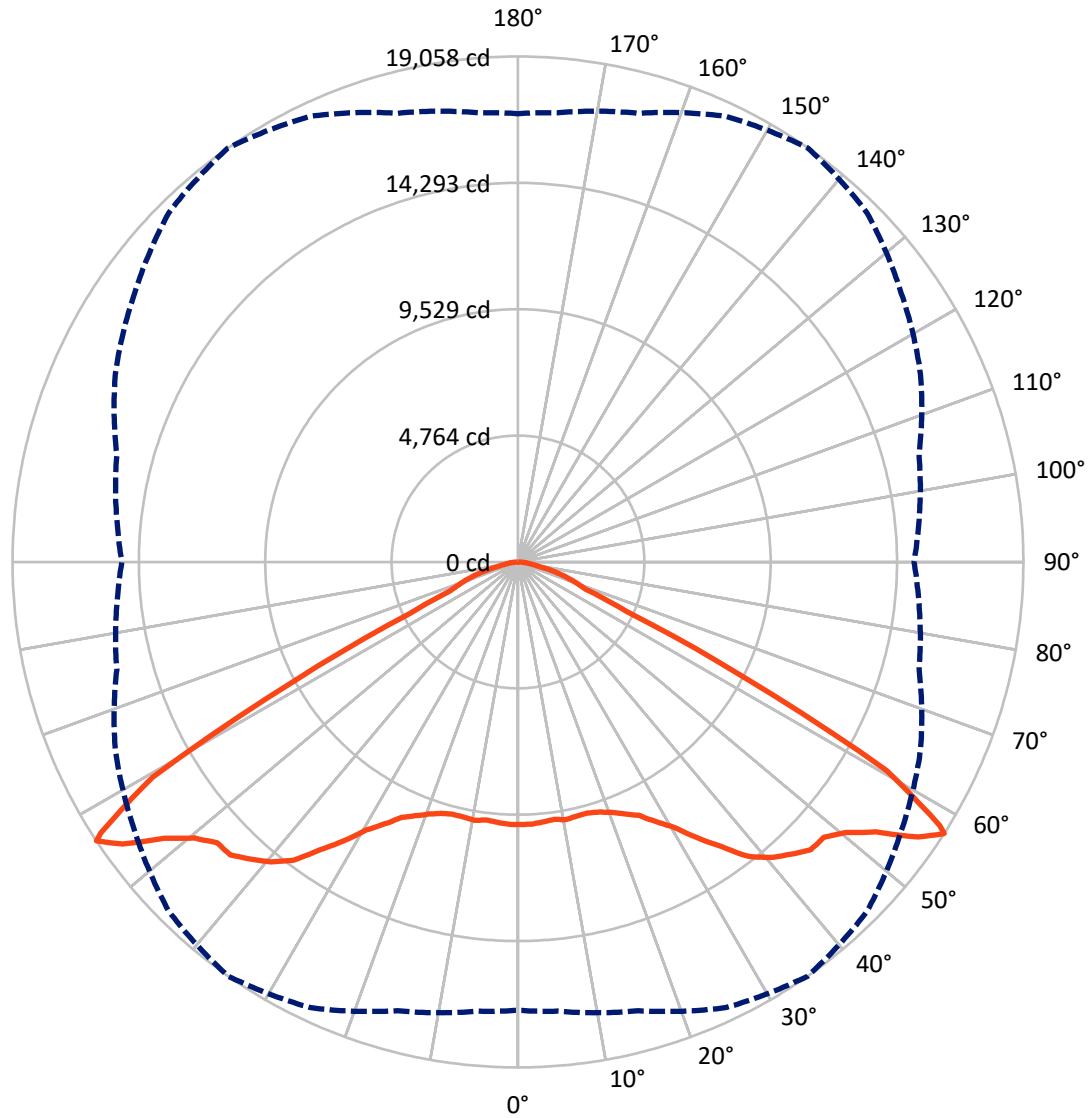
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type V - Short - N/A

REPORT NUMBER: P533136
CATALOG NUMBER: GALN-SA8C-740-U-5MQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25054.5	0.0	25054.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25054.5	0.0	25054.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50109.0	0.0	50109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	938.2	1.9
10°-20°	2778.7	5.5
20°-30°	4852.9	9.7
30°-40°	7951.6	15.9
40°-50°	11658.9	23.3
50°-60°	14685.4	29.3
60°-70°	5523.0	11.0
70°-80°	1468.5	2.9
80°-90°	251.8	0.5
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°	50109.0	100.0
0°-180°	50109.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533136

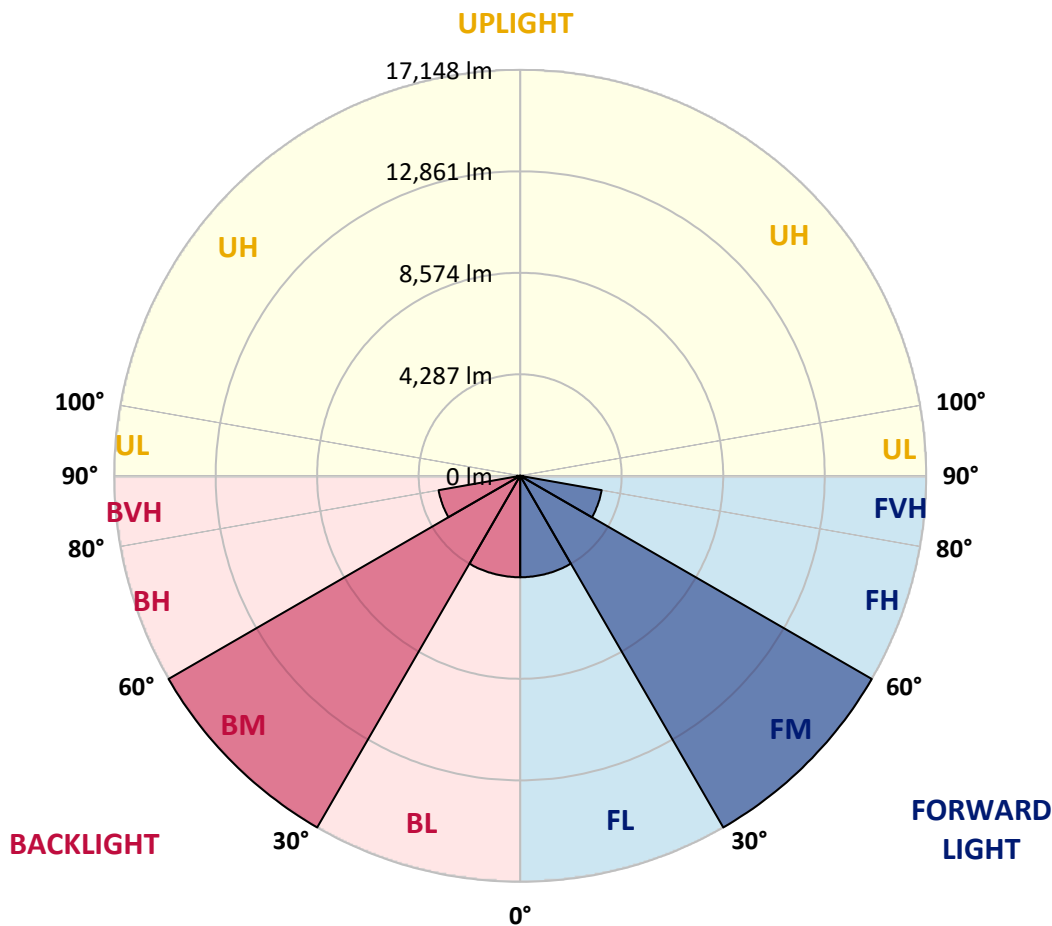
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4284.9	8.6			
FM (30°-60°)	17148.0	34.2			
FH (60°-80°)	3495.8	7.0			G2/5000
FVH (80°-90°)	125.9	0.3			G2/225
BL (0°-30°)	4284.9	8.6	B4/5000		
BM (30°-60°)	17148.0	34.2	B5		
BH (60°-80°)	3495.8	7.0	B4/5000		G2/5000
BVH (80°-90°)	125.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9896.2	9896.2	9896.2	9896.2	9896.2	9896.2	9896.2	9896.2	9896.2	9896.2	9896.2
2.5°	9846.8	9945.5	9902.3	9877.6	9896.2	9865.3	9815.9	9871.5	9859.1	9809.7	9791.2
5°	9822.1	9896.2	9846.8	9896.2	9846.8	9933.2	9908.5	9815.9	9927.0	9822.1	9859.1
7.5°	9803.6	9828.2	9840.6	9815.9	9797.4	9902.3	9846.8	9803.6	9741.8	9723.3	9754.2
10°	9760.3	9822.1	9729.5	9852.9	9877.6	9803.6	9803.6	9723.3	9673.9	9643.0	9748.0
12.5°	9871.5	9766.5	9754.2	9815.9	9834.4	9865.3	9778.9	9735.6	9643.0	9655.4	9636.9
15°	9741.8	9785.0	9791.2	9803.6	9822.1	9896.2	9815.9	9723.3	9686.3	9556.6	9569.0
17.5°	9791.2	9748.0	9791.2	9933.2	9908.5	9964.1	9877.6	9735.6	9649.2	9575.1	9673.9
20°	9877.6	9859.1	9877.6	10050.5	10081.4	10130.8	10056.7	9927.0	9760.3	9673.9	9723.3
22.5°	9970.2	9957.9	9970.2	10136.9	10316.0	10377.7	10303.6	10001.1	9914.7	9754.2	9698.6
25°	10136.9	10149.3	10278.9	10464.1	10581.4	10698.7	10562.9	10346.8	10069.0	9970.2	9852.9
27.5°	10507.3	10538.2	10612.3	10883.9	11087.6	11192.6	11001.2	10704.9	10532.0	10328.3	10297.4
30°	10964.2	10964.2	11093.8	11328.4	11606.2	11766.7	11532.1	11180.3	10970.4	10859.2	10791.3
32.5°	11569.2	11501.3	11550.7	11964.3	12396.4	12532.3	12217.4	11785.3	11451.9	11303.7	11254.3
35°	12087.8	12131.0	12242.1	12686.6	13168.1	13483.0	12989.1	12427.3	12087.8	11951.9	11927.2
37.5°	12760.7	12834.8	12890.3	13501.5	14081.8	14199.1	13723.7	13273.1	12859.4	12748.3	12686.6
40°	13711.4	13662.0	13680.5	14131.2	14655.9	14730.0	14260.8	13939.8	13600.3	13532.4	13532.4
42.5°	14495.4	14439.9	14501.6	14668.3	15069.6	15014.0	14754.7	14520.1	14378.1	14304.1	14378.1
45°	14970.8	14958.4	15069.6	15193.0	15477.0	15291.8	15088.1	15125.1	14989.3	14865.8	14859.7
47.5°	15489.4	15409.1	15544.9	15730.1	15514.1	15427.6	15415.3	15495.5	15452.3	15236.3	15168.3
50°	15742.5	15711.6	15927.7	16143.8	16026.5	15828.9	15872.1	16001.8	15446.2	15156.0	14989.3
52.5°	16421.6	16427.7	16841.4	16958.7	16909.3	16619.1	16711.7	16359.8	15705.4	15298.0	15316.5
55°	17489.6	17446.4	17909.4	18255.1	18310.7	17940.3	17495.8	17001.9	16180.8	15767.2	15643.7
57°	16903.1	17001.9	17514.3	18539.1	19057.7	18619.3	17650.1	16748.8	15656.1	15156.0	14933.8
57.5°	16119.1	16279.6	17168.6	18199.5	18742.8	18705.8	17458.7	16279.6	15304.2	14526.3	14544.8
60°	11810.0	11840.8	12643.4	14279.4	15977.1	16014.1	14495.4	12933.5	11847.0	11001.2	11118.5
62.5°	6229.1	6371.1	6692.1	8007.1	9476.4	9834.4	8914.6	8112.0	7173.6	6531.6	6593.3
65°	3296.7	3278.1	3432.5	3802.9	4525.2	4710.4	4586.9	3951.1	3623.9	3518.9	3525.1
67.5°	2679.3	2710.2	2691.7	2710.2	2759.6	2839.8	2821.3	2846.0	2864.5	2895.4	2889.2
70°	2271.9	2271.9	2284.2	2290.4	2290.4	2327.4	2370.6	2450.9	2457.1	2487.9	2500.3
72.5°	1790.3	1778.0	1796.5	1839.7	1845.9	1876.8	1938.5	1987.9	2006.4	2006.4	1969.4
75°	1216.2	1228.5	1253.2	1290.3	1327.3	1382.9	1432.3	1463.1	1475.5	1457.0	1438.4
77.5°	685.3	697.6	716.1	771.7	814.9	864.3	919.9	950.7	981.6	987.8	950.7
80°	407.5	407.5	438.3	481.5	530.9	580.3	629.7	666.7	679.1	679.1	660.6
82.5°	246.9	253.1	277.8	321.0	364.2	395.1	438.3	469.2	493.9	487.7	475.4
85°	129.6	129.6	154.3	191.4	222.2	253.1	253.1	234.6	222.2	191.4	179.0
87.5°	43.2	37.0	49.4	49.4	43.2	49.4	49.4	55.6	55.6	55.6	55.6
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)