

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: P533140

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
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-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48163 lumens
Efficiency: N/A
Efficacy: 112.3 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

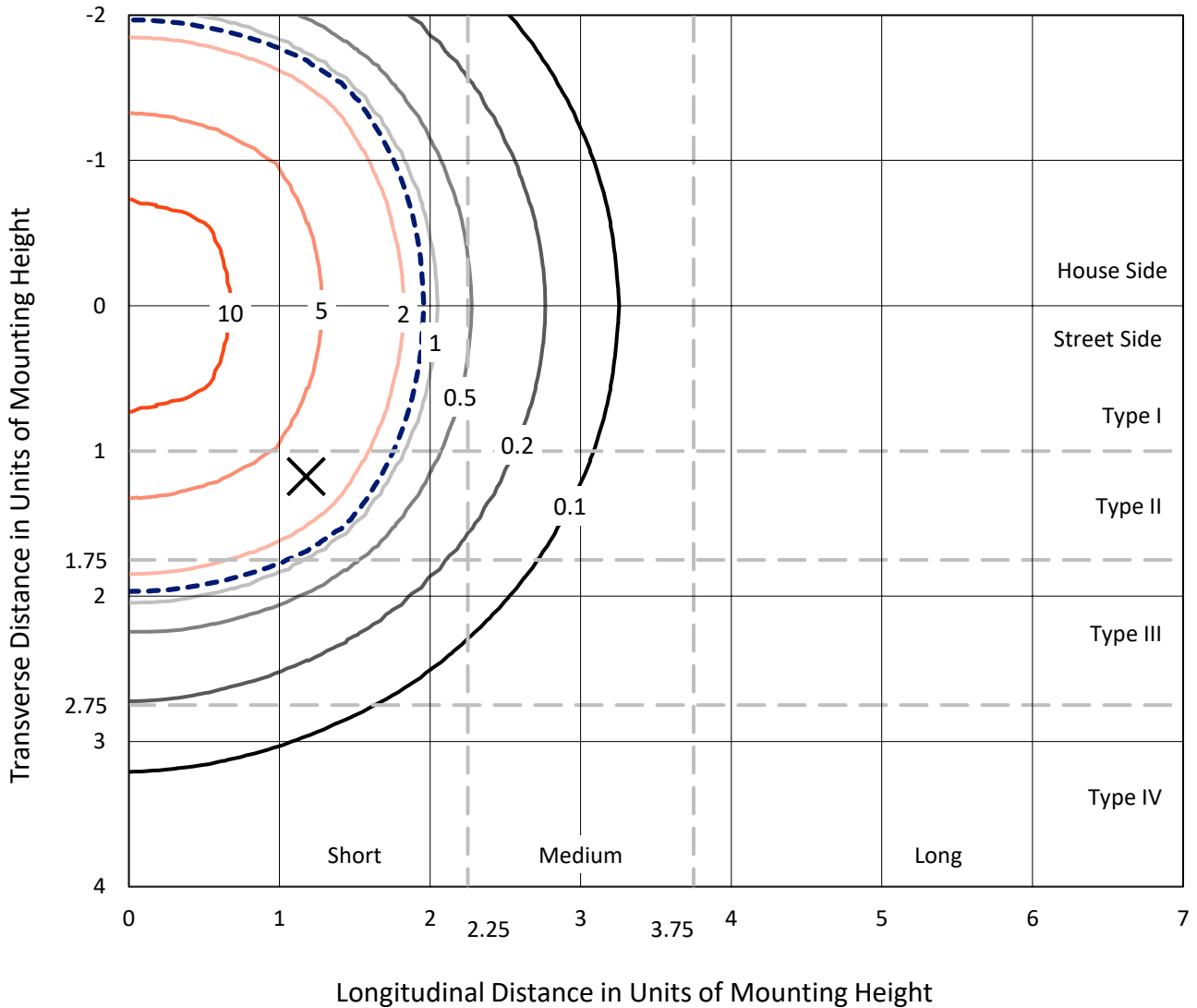
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

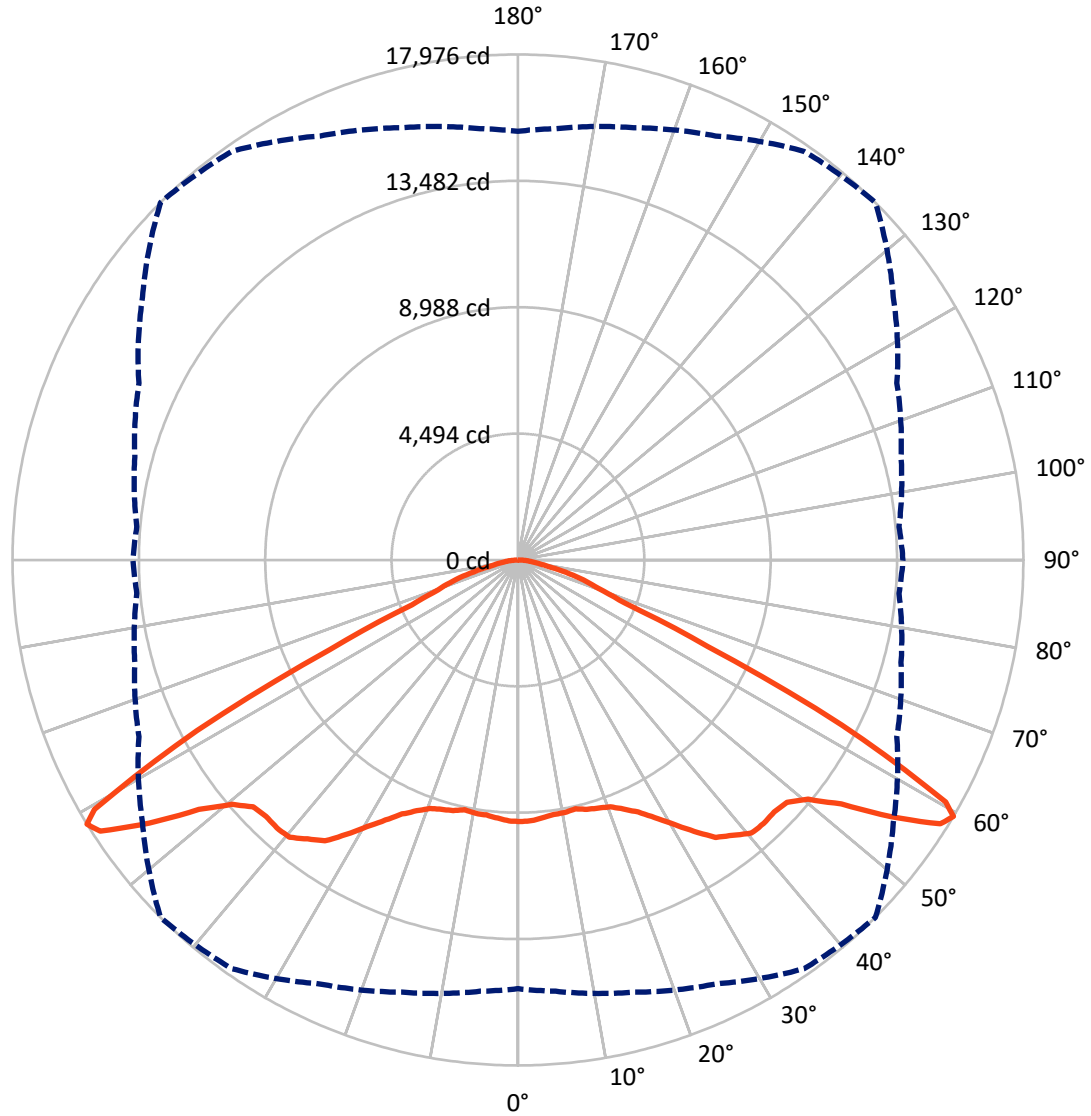
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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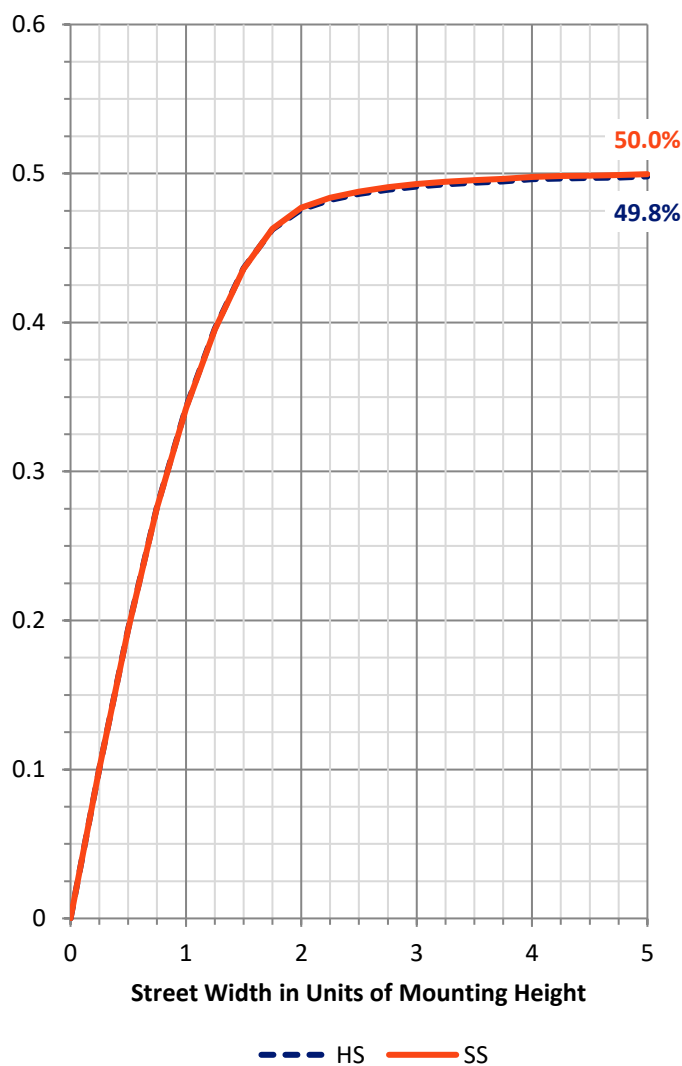
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24081.5	0.0	24081.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24081.5	0.0	24081.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	48163.0	0.0	48163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	877.0	1.8
10°-20°	2607.9	5.4
20°-30°	4553.7	9.5
30°-40°	7272.9	15.1
40°-50°	9907.2	20.6
50°-60°	13397.2	27.8
60°-70°	7347.0	15.3
70°-80°	1879.6	3.9
80°-90°	320.6	0.7
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°	48163.0	100.0
0°-180°	48163.0	100.0

Coefficient of Utilization



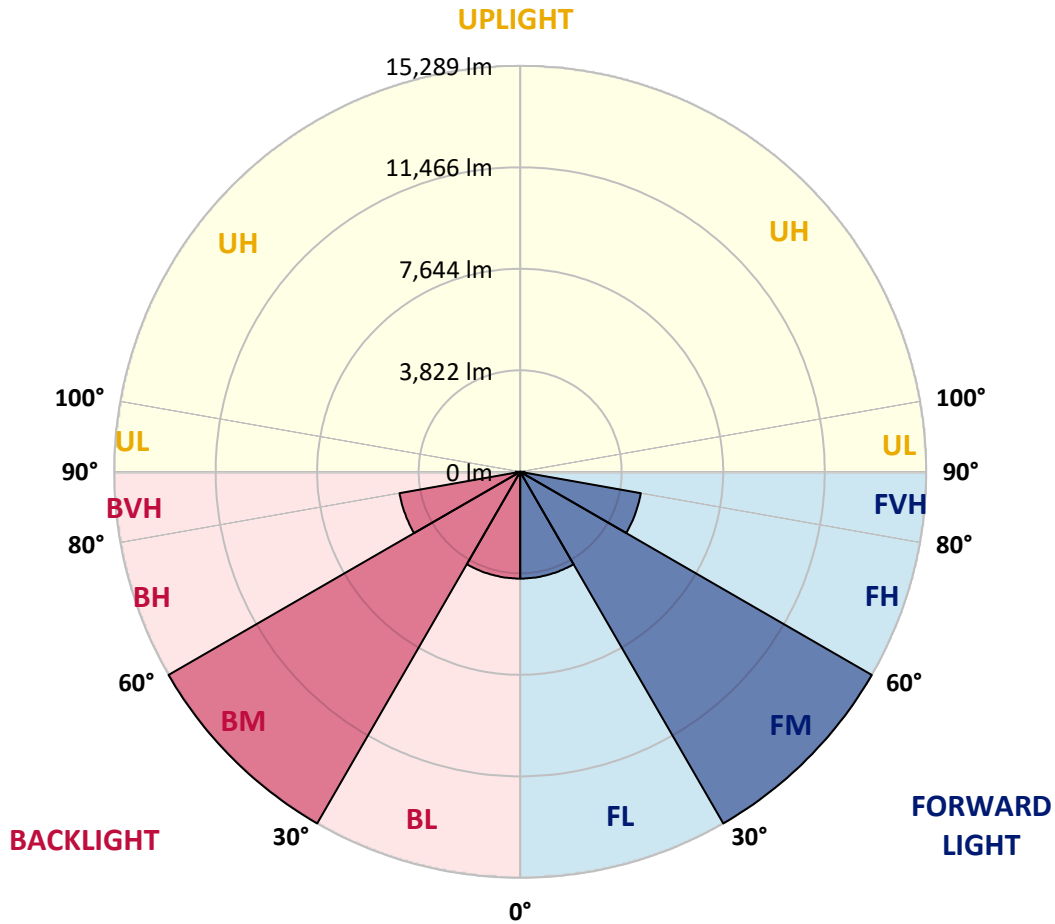
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4019.3	8.3			
FM (30°-60°)	15288.6	31.7			
FH (60°-80°)	4613.3	9.6			G2/5000
FVH (80°-90°)	160.3	0.3			G2/225
BL (0°-30°)	4019.3	8.3	B4/5000		
BM (30°-60°)	15288.6	31.7	B5		
BH (60°-80°)	4613.3	9.6	B4/5000		G2/5000
BVH (80°-90°)	160.3	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°	9302.8	9302.8	9302.8	9302.8	9302.8	9302.8	9302.8	9302.8	9302.8	9302.8	9302.8
2.5°	9247.2	9315.1	9265.8	9309.0	9302.8	9284.3	9253.4	9234.9	9210.2	9247.2	9185.5
5°	9210.2	9265.8	9321.3	9247.2	9247.2	9210.2	9191.7	9154.6	9154.6	9148.5	9142.3
7.5°	9271.9	9216.4	9191.7	9204.0	9216.4	9136.1	9191.7	9117.6	9055.9	9099.1	9148.5
10°	9216.4	9241.1	9148.5	9191.7	9123.8	9136.1	9099.1	9148.5	9080.6	9080.6	9080.6
12.5°	9271.9	9204.0	9234.9	9204.0	9185.5	9080.6	9129.9	9074.4	9068.2	9129.9	9074.4
15°	9383.0	9271.9	9247.2	9185.5	9204.0	9204.0	9154.6	9160.8	9092.9	9129.9	9142.3
17.5°	9346.0	9284.3	9265.8	9191.7	9253.4	9271.9	9179.3	9117.6	9160.8	9154.6	9148.5
20°	9376.9	9401.6	9383.0	9395.4	9420.1	9370.7	9284.3	9197.8	9142.3	9222.5	9216.4
22.5°	9574.4	9549.7	9537.4	9525.0	9568.2	9617.6	9500.3	9364.5	9364.5	9420.1	9444.8
25°	9734.9	9728.7	9722.6	9778.1	9926.3	9926.3	9778.1	9605.3	9562.1	9599.1	9568.2
27.5°	9969.5	10037.4	10012.7	10111.5	10327.5	10376.9	10179.4	9975.7	9858.4	9815.2	9870.7
30°	10506.5	10426.3	10444.8	10549.7	10741.1	10901.6	10599.1	10383.1	10222.6	10216.4	10241.1
32.5°	10864.6	10926.3	10981.9	11080.6	11383.1	11506.6	11142.4	10790.5	10691.7	10636.2	10654.7
35°	11580.6	11525.1	11512.7	11611.5	11914.0	12117.7	11660.9	11352.2	11222.6	11346.1	11346.1
37.5°	12259.7	12105.4	11988.1	12117.7	12395.5	12420.2	12031.3	11864.6	11796.7	11938.7	11932.5
40°	12580.7	12568.3	12296.7	12370.8	12741.2	12778.2	12414.0	12216.5	12204.1	12389.3	12574.5
42.5°	12914.0	12796.7	12525.1	12574.5	12802.9	12815.3	12469.6	12414.0	12549.8	12728.8	12741.2
45°	12969.6	12870.8	12698.0	12574.5	12741.2	12778.2	12574.5	12611.5	12623.9	12839.9	12839.9
47.5°	13080.7	13068.3	12969.6	12877.0	12907.9	12877.0	12747.4	12802.9	12988.1	13093.0	13043.7
50°	13389.3	13259.7	13358.5	13278.2	13284.4	13370.8	13253.5	13309.1	13272.1	13179.5	13117.7
52.5°	14068.4	14006.7	14093.1	14148.6	14210.4	14407.9	14272.1	13975.8	13698.0	13451.1	13444.9
55°	15062.2	15105.5	15272.1	15556.1	15796.8	16111.7	15457.3	14747.4	14303.0	13914.1	13938.7
57.5°	16000.5	15969.7	16198.1	16846.3	17550.0	17710.5	16426.5	15414.1	14691.9	14444.9	14340.0
59°	15247.4	15395.6	15914.1	16636.4	17741.3	17975.9	16296.9	14870.9	14105.4	13605.4	13691.8
60°	14062.2	14117.8	14580.7	15587.0	17080.8	17482.1	15426.5	14031.3	13012.8	12722.7	12852.3
62.5°	9938.6	9895.4	10228.7	11049.8	12389.3	12932.5	11469.5	10488.0	9846.0	9525.0	9599.1
65°	5284.1	5481.7	5617.5	6129.8	6839.7	7413.8	6808.9	6382.9	6024.9	5759.5	5753.3
67.5°	3568.0	3543.3	3574.2	3691.5	3932.2	4092.7	4080.4	3864.3	3833.5	3784.1	3839.6
70°	3006.3	2993.9	2938.4	2938.4	2987.8	3024.8	3068.0	3092.7	3142.1	3203.8	3197.6
72.5°	2438.4	2407.5	2370.5	2351.9	2413.7	2432.2	2487.7	2512.4	2555.6	2549.5	2605.0
75°	1611.2	1611.2	1654.4	1703.8	1722.3	1759.3	1765.5	1839.6	1839.6	1851.9	1802.5
77.5°	901.3	876.6	907.4	956.8	1000.0	1067.9	1135.8	1191.4	1222.3	1209.9	1209.9
80°	524.7	524.7	555.6	611.1	666.7	728.4	777.8	821.0	851.9	839.5	814.8
82.5°	327.2	327.2	358.0	413.6	456.8	493.8	561.7	617.3	654.3	642.0	611.1
85°	166.7	166.7	203.7	240.7	296.3	321.0	314.8	290.1	284.0	253.1	253.1
87.5°	43.2	43.2	61.7	67.9	55.6	61.7	61.7	61.7	61.7	61.7	67.9
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)