

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: P529318

Luminaire Tested: **GALN-SA4C-727-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529318
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-SA4C-727-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 19732 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

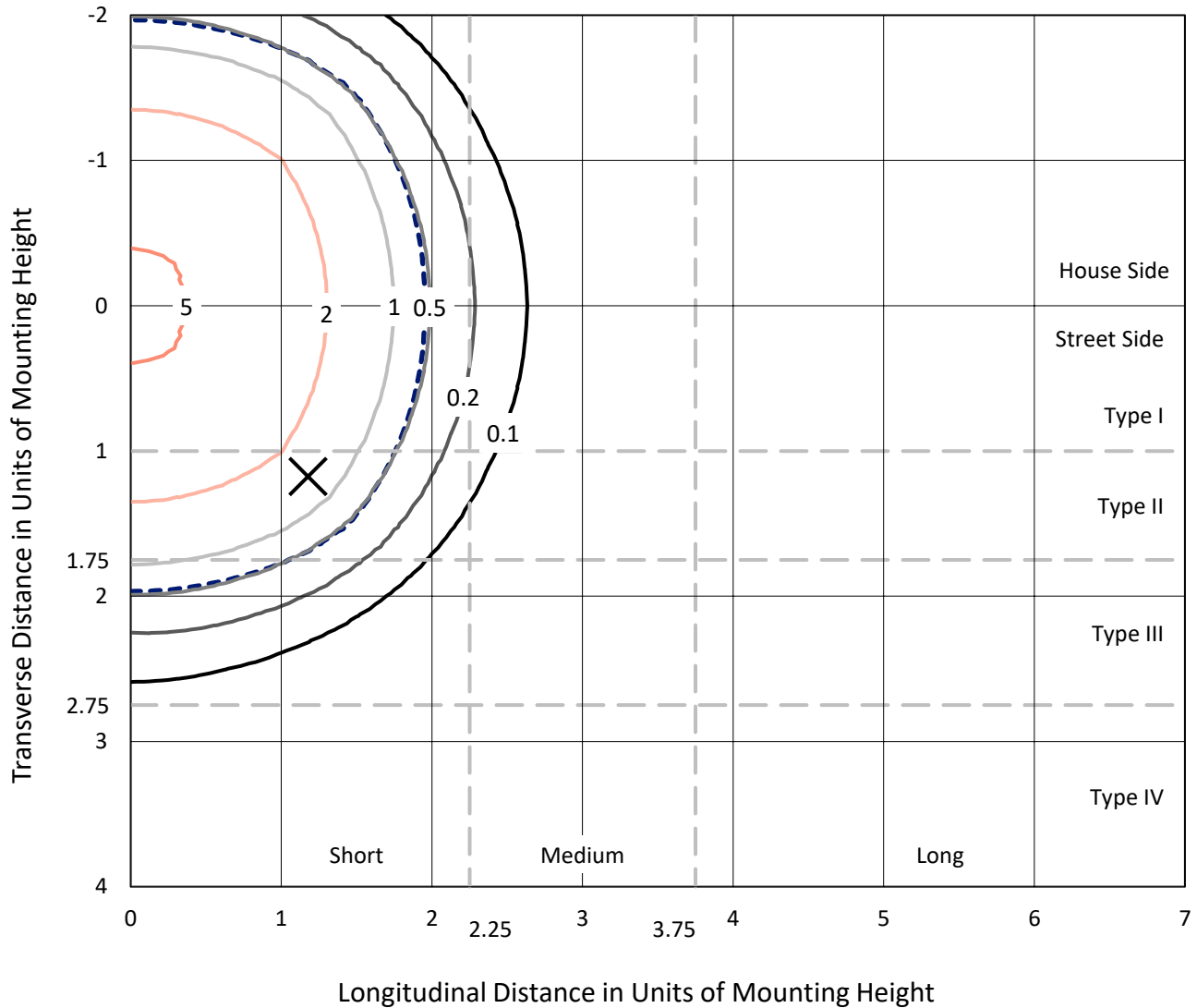
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529318
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Iso-Footcandle Lines of Horizontal Illumination

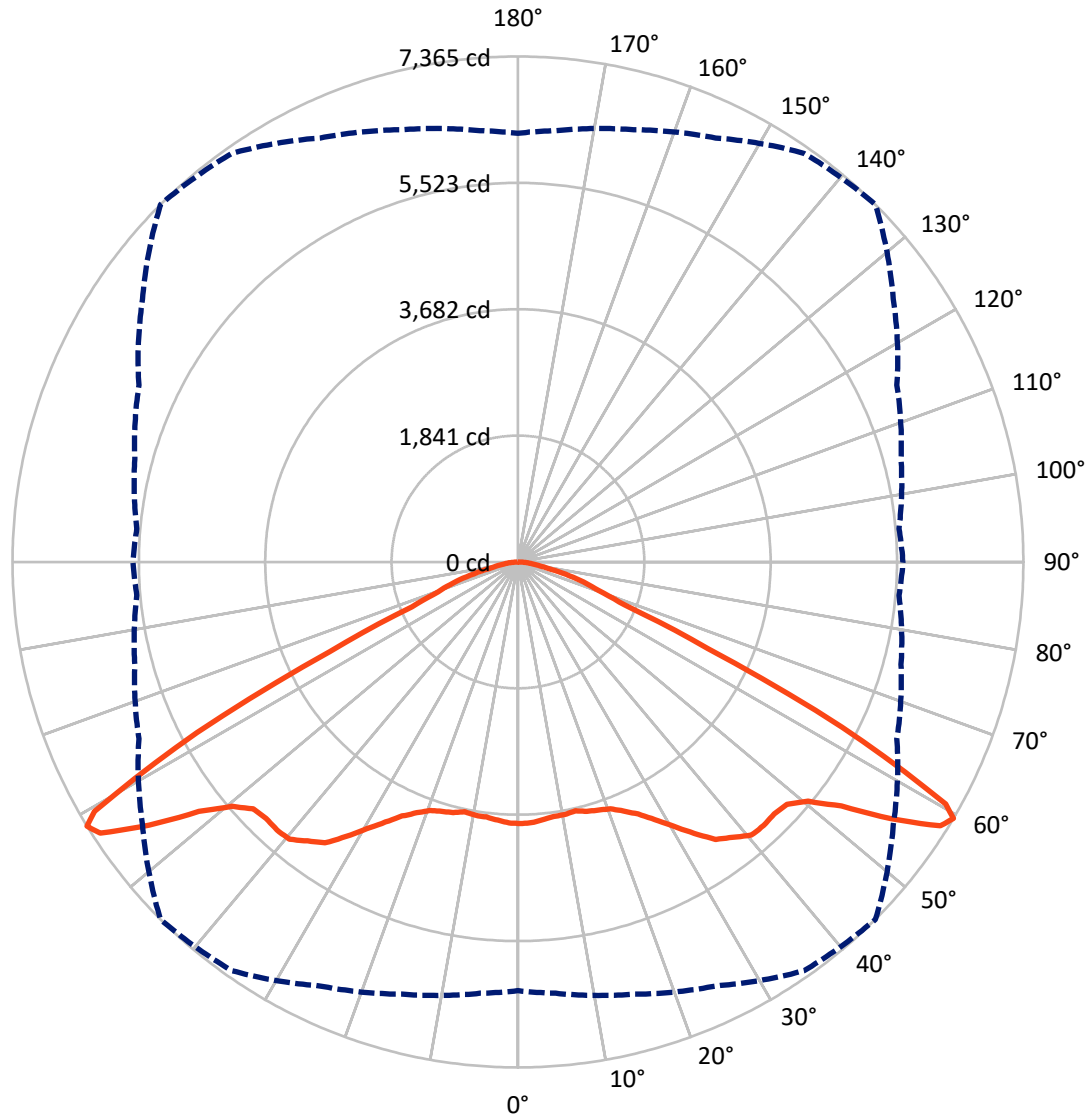
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

REPORT NUMBER: P529318
CATALOG NUMBER: GALN-SA4C-727-U-5WQ-GRSWH

Luminous Intensity Polar Plot



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

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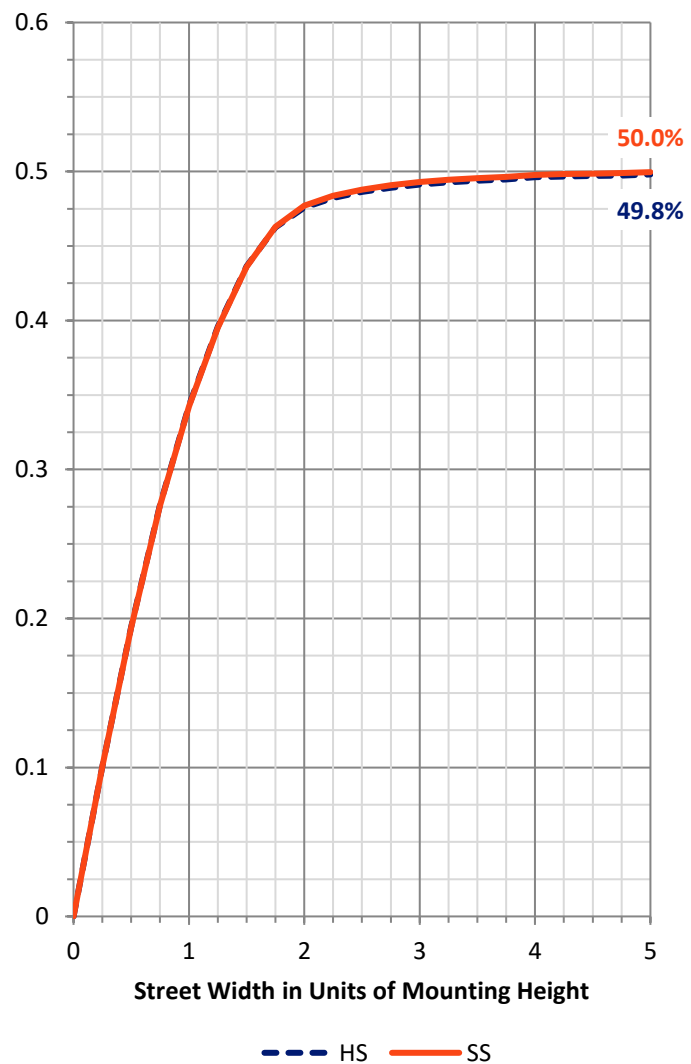
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9866.0	0.0	9866.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9866.0	0.0	9866.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19732.0	0.0	19732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.3	1.8
10°-20°	1068.4	5.4
20°-30°	1865.6	9.5
30°-40°	2979.6	15.1
40°-50°	4058.9	20.6
50°-60°	5488.7	27.8
60°-70°	3010.0	15.3
70°-80°	770.1	3.9
80°-90°	131.3	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°	19732.0	100.0
0°-180°	19732.0	100.0

Coefficient of Utilization



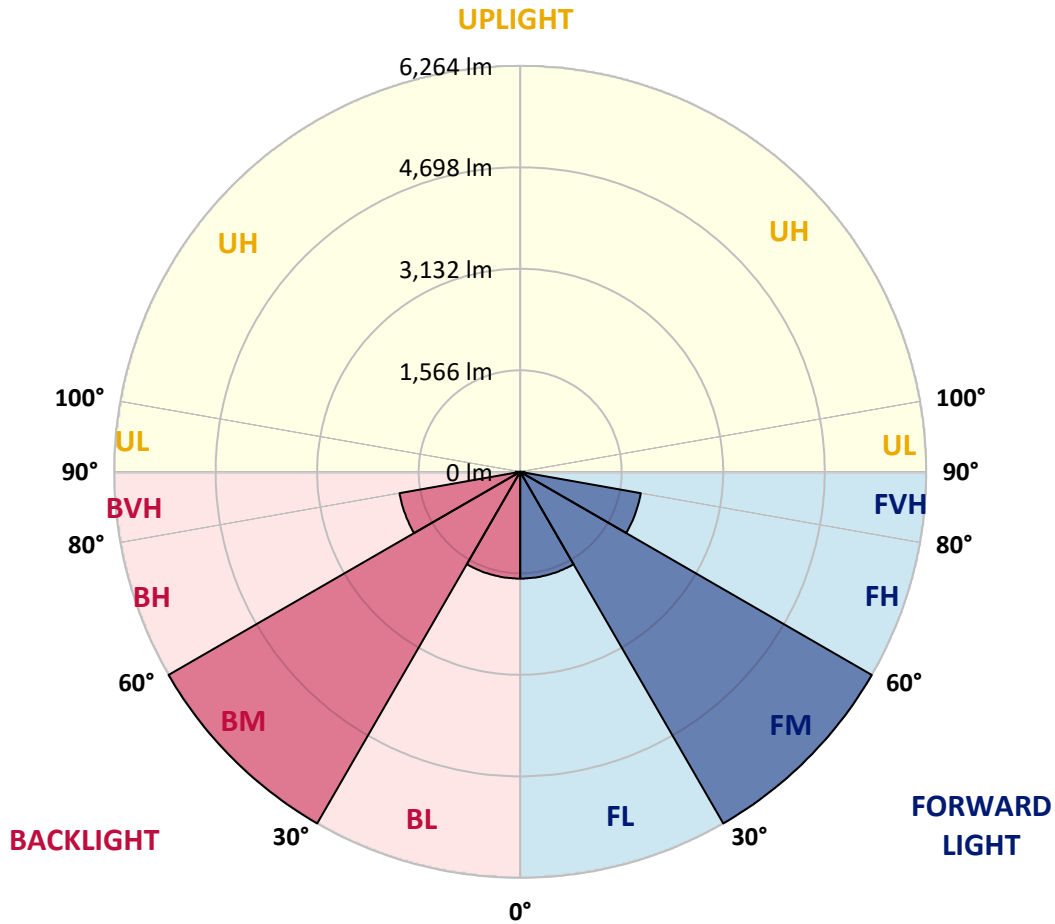
REPORT NUMBER: P529318
 CATALOG NUMBER: GALN-SA4C-727-U-5WQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1646.7	8.3			
FM (30°-60°)	6263.6	31.7			
FH (60°-80°)	1890.0	9.6			G2/5000
FVH (80°-90°)	65.7	0.3			G1/100
BL (0°-30°)	1646.7	8.3	B3/2500		
BM (30°-60°)	6263.6	31.7	B4/8500		
BH (60°-80°)	1890.0	9.6	B3/2500		G2/5000
BVH (80°-90°)	65.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3	3811.3
2.5°	3788.5	3816.3	3796.1	3813.8	3811.3	3803.7	3791.0	3783.5	3773.3	3788.5	3763.2
5°	3773.3	3796.1	3818.9	3788.5	3788.5	3773.3	3765.8	3750.6	3750.6	3748.1	3745.5
7.5°	3798.6	3775.9	3765.8	3770.8	3775.9	3743.0	3765.8	3735.4	3710.1	3727.8	3748.1
10°	3775.9	3786.0	3748.1	3765.8	3737.9	3743.0	3727.8	3748.1	3720.2	3720.2	3720.2
12.5°	3798.6	3770.8	3783.5	3770.8	3763.2	3720.2	3740.5	3717.7	3715.2	3740.5	3717.7
15°	3844.2	3798.6	3788.5	3763.2	3770.8	3770.8	3750.6	3753.1	3725.3	3740.5	3745.5
17.5°	3829.0	3803.7	3796.1	3765.8	3791.0	3798.6	3760.7	3735.4	3753.1	3750.6	3748.1
20°	3841.6	3851.7	3844.2	3849.2	3859.3	3839.1	3803.7	3768.3	3745.5	3778.4	3775.9
22.5°	3922.6	3912.4	3907.4	3902.3	3920.0	3940.3	3892.2	3836.6	3836.6	3859.3	3869.4
25°	3988.3	3985.8	3983.3	4006.0	4066.7	4066.7	4006.0	3935.2	3917.5	3932.7	3920.0
27.5°	4084.4	4112.2	4102.1	4142.6	4231.1	4251.3	4170.4	4086.9	4038.9	4021.2	4044.0
30°	4304.4	4271.6	4279.2	4322.1	4400.5	4466.3	4342.4	4253.9	4188.1	4185.6	4195.7
32.5°	4451.1	4476.4	4499.2	4539.6	4663.6	4714.1	4564.9	4420.8	4380.3	4357.6	4365.1
35°	4744.5	4721.7	4716.7	4757.1	4881.1	4964.5	4777.4	4650.9	4597.8	4648.4	4648.4
37.5°	5022.7	4959.5	4911.4	4964.5	5078.3	5088.4	4929.1	4860.8	4833.0	4891.2	4888.7
40°	5154.2	5149.1	5037.9	5068.2	5220.0	5235.1	5085.9	5005.0	4999.9	5075.8	5151.7
42.5°	5290.8	5242.7	5131.4	5151.7	5245.3	5250.3	5108.7	5085.9	5141.6	5214.9	5220.0
45°	5313.5	5273.1	5202.3	5151.7	5220.0	5235.1	5151.7	5166.8	5171.9	5260.4	5260.4
47.5°	5359.1	5354.0	5313.5	5275.6	5288.2	5275.6	5222.5	5245.3	5321.1	5364.1	5343.9
50°	5485.5	5432.4	5472.9	5440.0	5442.5	5477.9	5429.9	5452.6	5437.5	5399.5	5374.2
52.5°	5763.7	5738.4	5773.8	5796.6	5821.9	5902.8	5847.2	5725.8	5612.0	5510.8	5508.3
55°	6170.9	6188.6	6256.9	6373.2	6471.8	6600.8	6332.7	6041.9	5859.8	5700.5	5710.6
57.5°	6555.3	6542.7	6636.2	6901.8	7190.1	7255.8	6729.8	6315.0	6019.1	5918.0	5875.0
59°	6246.8	6307.5	6519.9	6815.8	7268.5	7364.6	6676.7	6092.5	5778.9	5574.0	5609.4
60°	5761.2	5783.9	5973.6	6385.9	6997.9	7162.3	6320.1	5748.5	5331.2	5212.4	5265.5
62.5°	4071.8	4054.1	4190.6	4527.0	5075.8	5298.4	4699.0	4296.9	4033.8	3902.3	3932.7
65°	2164.9	2245.8	2301.4	2511.3	2802.2	3037.4	2789.5	2615.0	2468.4	2359.6	2357.1
67.5°	1461.8	1451.7	1464.3	1512.4	1611.0	1676.8	1671.7	1583.2	1570.5	1550.3	1573.1
70°	1231.6	1226.6	1203.8	1203.8	1224.1	1239.2	1256.9	1267.1	1287.3	1312.6	1310.0
72.5°	999.0	986.3	971.2	963.6	988.9	996.4	1019.2	1029.3	1047.0	1044.5	1067.3
75°	660.1	660.1	677.8	698.0	705.6	720.8	723.3	753.7	753.7	758.7	738.5
77.5°	369.2	359.1	371.8	392.0	409.7	437.5	465.3	488.1	500.8	495.7	495.7
80°	215.0	215.0	227.6	250.4	273.1	298.4	318.7	336.4	349.0	344.0	333.8
82.5°	134.0	134.0	146.7	169.4	187.1	202.3	230.1	252.9	268.1	263.0	250.4
85°	68.3	68.3	83.5	98.6	121.4	131.5	129.0	118.9	116.3	103.7	103.7
87.5°	17.7	17.7	25.3	27.8	22.8	25.3	25.3	25.3	25.3	25.3	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)