

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: P457877

Luminaire Tested: **GALN-SA9B-730-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49168 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

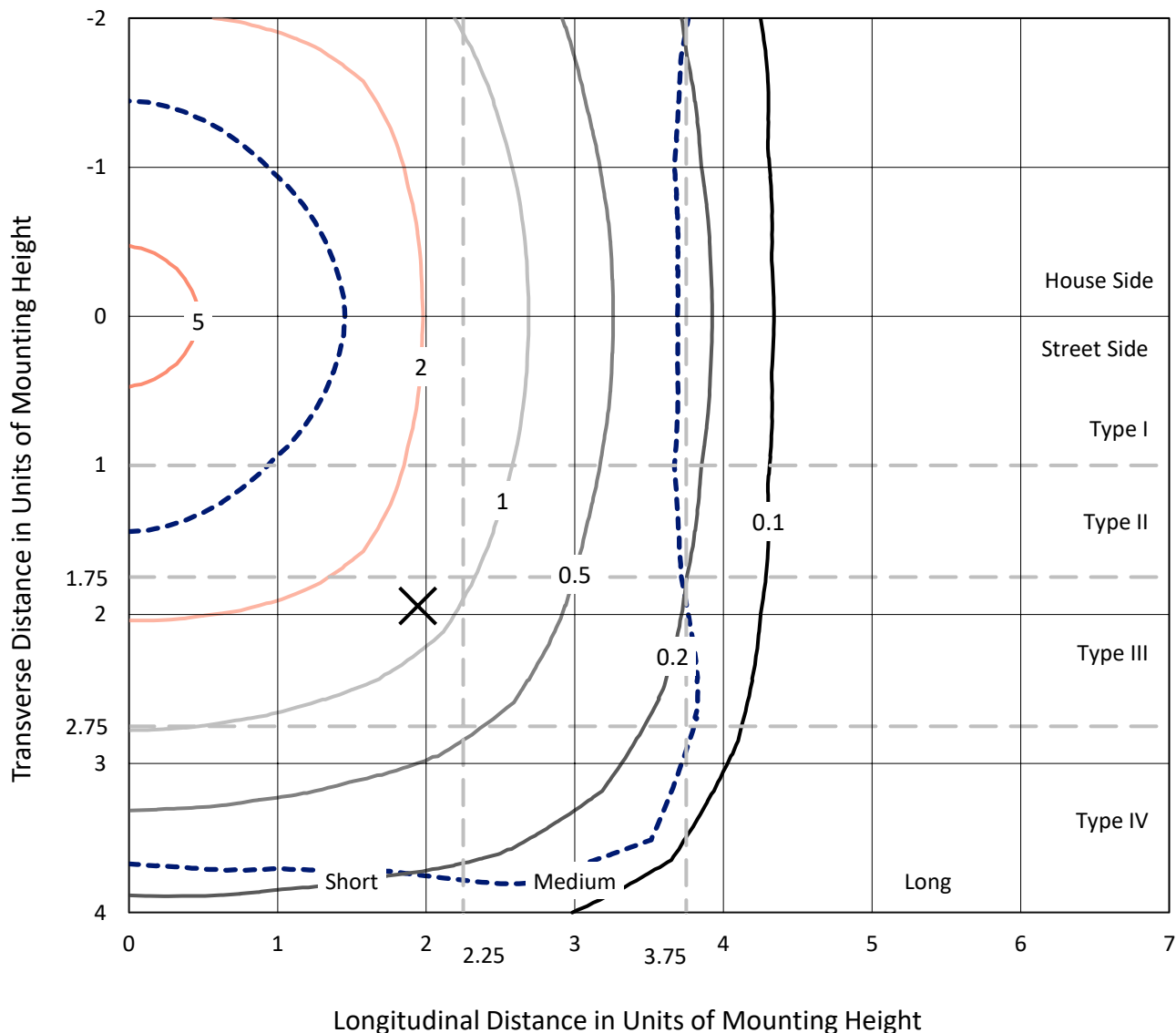
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

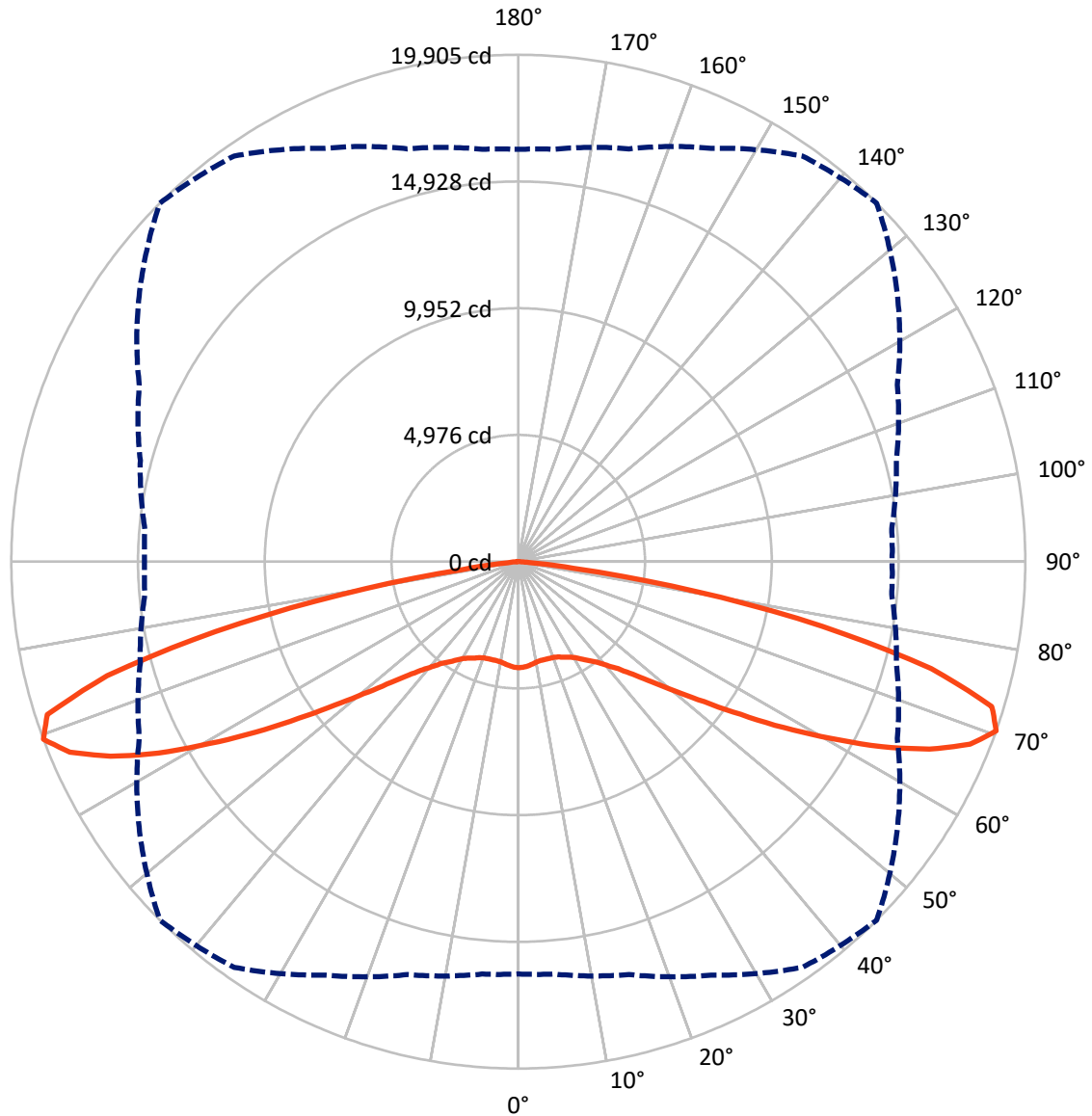
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24584.0	0.0	24584.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24584.0	0.0	24584.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49168.0	0.0	49168.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.3	0.8
10°-20°	1139.7	2.3
20°-30°	1941.7	3.9
30°-40°	3009.6	6.1
40°-50°	5065.7	10.3
50°-60°	9216.7	18.7
60°-70°	15603.7	31.7
70°-80°	12077.9	24.6
80°-90°	723.7	1.5
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°	49168.0	100.0
0°-180°	49168.0	100.0



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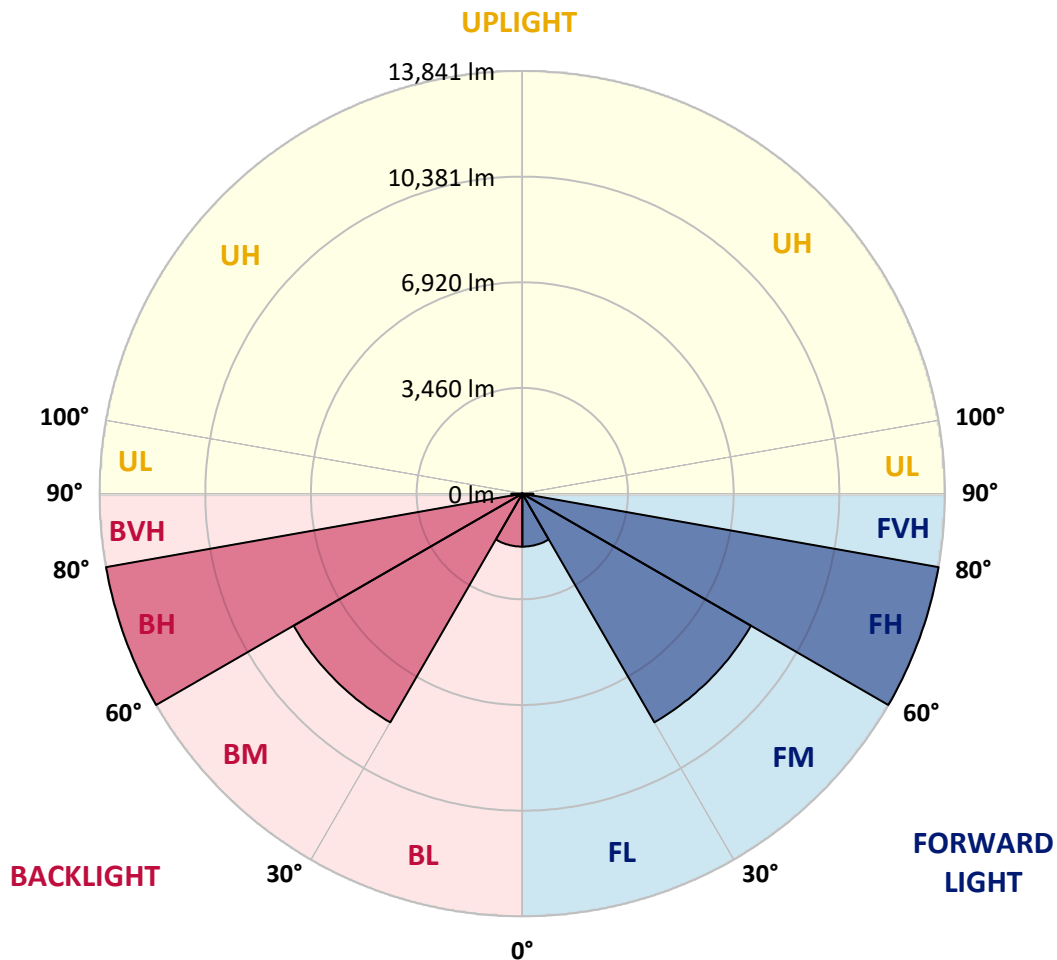
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1735.3	3.5			
FM (30°-60°)	8646.0	17.6			
FH (60°-80°)	13840.8	28.1			G5
FVH (80°-90°)	361.9	0.7			G3/500
BL (0°-30°)	1735.3	3.5	B3/2500		
BM (30°-60°)	8646.0	17.6	B5		
BH (60°-80°)	13840.8	28.1	B5		G5
BVH (80°-90°)	361.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4162.7	4162.7	4162.7	4162.7	4162.7	4162.7	4162.7	4162.7	4162.7	4162.7	4162.7
2.5°	4152.3	4154.9	4154.9	4149.7	4147.1	4147.1	4144.5	4144.5	4152.3	4154.9	4157.5
5°	4115.9	4115.9	4115.9	4113.3	4108.1	4108.1	4102.9	4102.9	4105.5	4113.3	4108.1
7.5°	4066.6	4071.8	4071.8	4061.4	4053.6	4053.6	4051.0	4053.6	4056.2	4064.0	4061.4
10°	4051.0	4053.6	4040.6	4022.4	4009.5	4001.7	4004.3	4009.5	4022.4	4027.6	4030.2
12.5°	4061.4	4061.4	4038.0	4012.1	3988.7	3978.3	3975.7	3993.9	4017.3	4032.8	4038.0
15°	4074.4	4069.2	4040.6	4006.9	3983.5	3980.9	3978.3	3991.3	4025.0	4056.2	4058.8
17.5°	4082.2	4079.6	4043.2	4001.7	3988.7	3988.7	3986.1	3996.5	4032.8	4071.8	4074.4
20°	4108.1	4100.4	4058.8	4014.7	4004.3	4009.5	4001.7	4014.7	4053.6	4100.4	4110.7
22.5°	4160.1	4152.3	4110.7	4066.6	4061.4	4061.4	4058.8	4071.8	4113.3	4162.7	4170.5
25°	4222.4	4214.6	4175.7	4144.5	4149.7	4160.1	4154.9	4157.5	4191.2	4232.8	4245.8
27.5°	4305.5	4292.5	4258.8	4232.8	4248.4	4248.4	4248.4	4245.8	4266.5	4305.5	4318.5
30°	4406.8	4401.6	4365.2	4362.6	4375.6	4362.6	4362.6	4365.2	4367.8	4404.2	4417.2
32.5°	4539.2	4528.8	4510.6	4505.5	4541.8	4552.2	4515.8	4482.1	4500.3	4536.6	4544.4
35°	4757.3	4741.8	4715.8	4687.2	4715.8	4765.1	4687.2	4661.3	4708.0	4757.3	4762.5
37.5°	5053.4	5045.6	5004.0	4952.1	4949.5	5001.4	4920.9	4918.3	5006.6	5066.4	5074.2
40°	5424.7	5432.5	5380.6	5331.2	5305.3	5346.8	5284.5	5307.9	5393.6	5461.1	5455.9
42.5°	5946.7	5918.1	5837.6	5790.9	5762.3	5746.7	5731.1	5767.5	5863.6	5936.3	5993.4
45°	6556.9	6546.5	6445.3	6388.1	6325.8	6302.4	6297.2	6362.2	6479.0	6567.3	6575.1
47.5°	7247.7	7224.3	7159.4	7099.7	7076.3	7047.7	7021.8	7071.1	7187.9	7250.3	7268.4
50°	7959.2	7964.4	7964.4	7954.0	7977.4	7982.6	7912.5	7930.6	7995.6	7990.4	7985.2
52.5°	8772.0	8800.6	8935.6	8948.6	9060.2	9135.5	9008.3	8933.0	8909.6	8769.4	8779.8
55°	9727.6	9753.6	9956.1	10158.7	10459.9	10587.2	10319.7	10086.0	9919.8	9706.8	9717.2
57.5°	10919.6	10932.5	11124.7	11514.2	11992.0	12290.7	11820.6	11358.4	11020.8	10818.3	10737.8
60°	12202.4	12215.4	12495.8	12971.0	13713.7	14077.3	13495.6	12739.9	12314.0	12005.0	12025.8
62.5°	13742.3	13794.2	14046.1	14700.5	15601.6	16009.3	15238.0	14227.9	13651.4	13267.1	13282.6
65°	15391.2	15479.5	15754.8	16474.1	17305.1	17743.9	16798.7	15632.7	14916.0	14446.0	14495.3
67.5°	16461.1	16539.0	16936.3	17731.0	18767.1	19130.6	17910.1	16552.0	15656.1	15095.2	14991.3
70°	16188.5	16253.4	16783.1	17910.1	19444.9	19904.5	18175.0	16417.0	15362.7	14716.1	14674.5
72.5°	14290.2	14155.2	14929.0	16546.8	18671.0	19442.3	17341.4	14993.9	13667.0	13002.2	12924.3
75°	9470.5	9764.0	10906.6	12812.6	15796.3	16752.0	14801.8	12038.8	10369.0	9815.9	9730.2
77.5°	3165.5	3391.4	4406.8	7263.3	10768.9	12205.0	10784.5	7873.5	5570.1	4487.3	4508.0
80°	838.8	828.4	1072.5	1996.9	4653.5	7068.5	5416.9	2666.9	1459.4	1056.9	1002.4
82.5°	301.2	337.6	433.7	553.1	1233.5	2196.9	1550.3	747.9	547.9	405.1	392.1
85°	132.4	129.8	187.0	220.7	309.0	410.3	363.6	316.8	277.9	184.4	171.4
87.5°	28.6	28.6	44.1	33.8	54.5	54.5	67.5	80.5	83.1	54.5	44.1
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)