

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: P532411

Luminaire Tested: **GALN-SA7D-735-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26182 lumens
Efficiency: N/A
Efficacy: 60.5 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

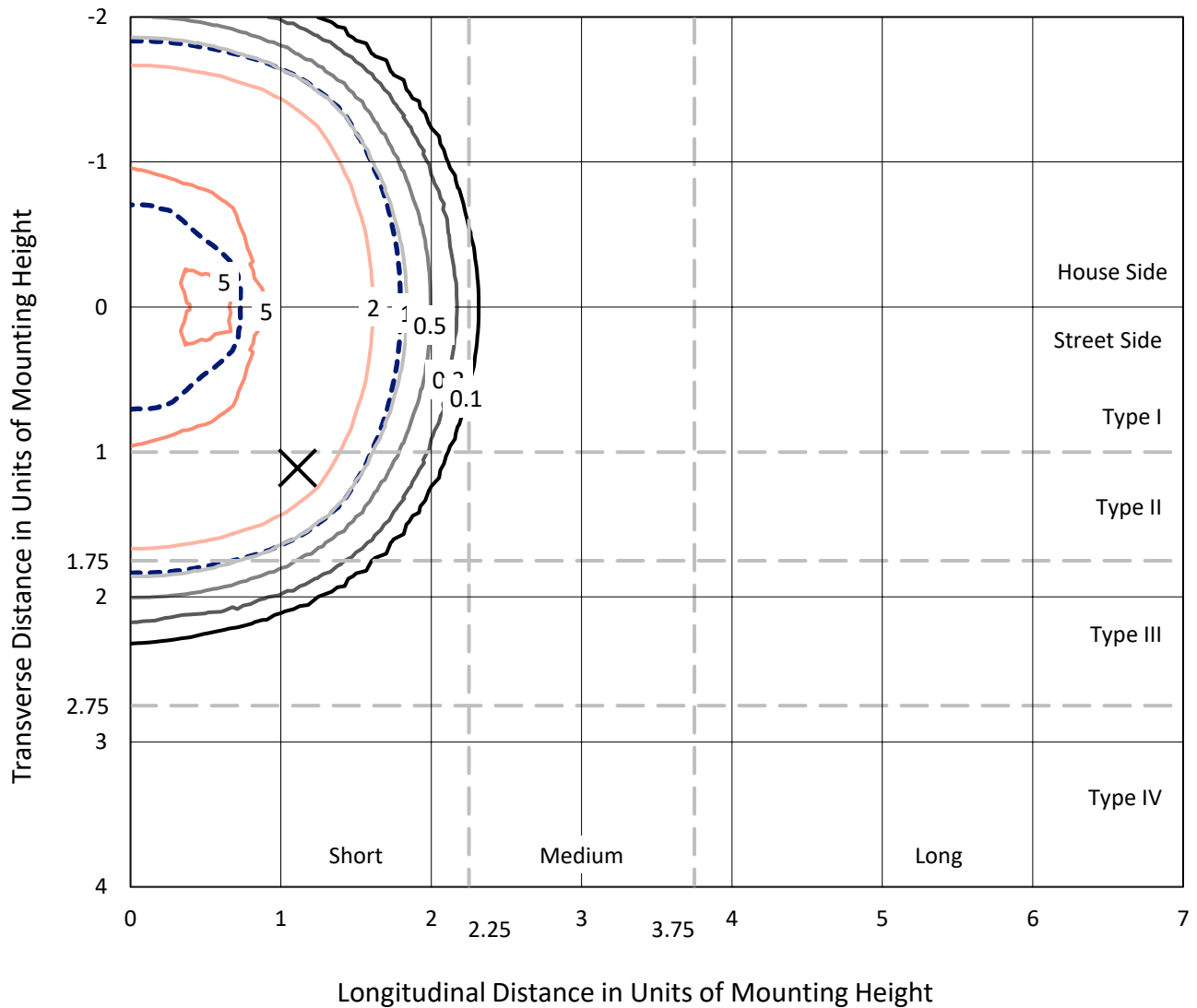
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

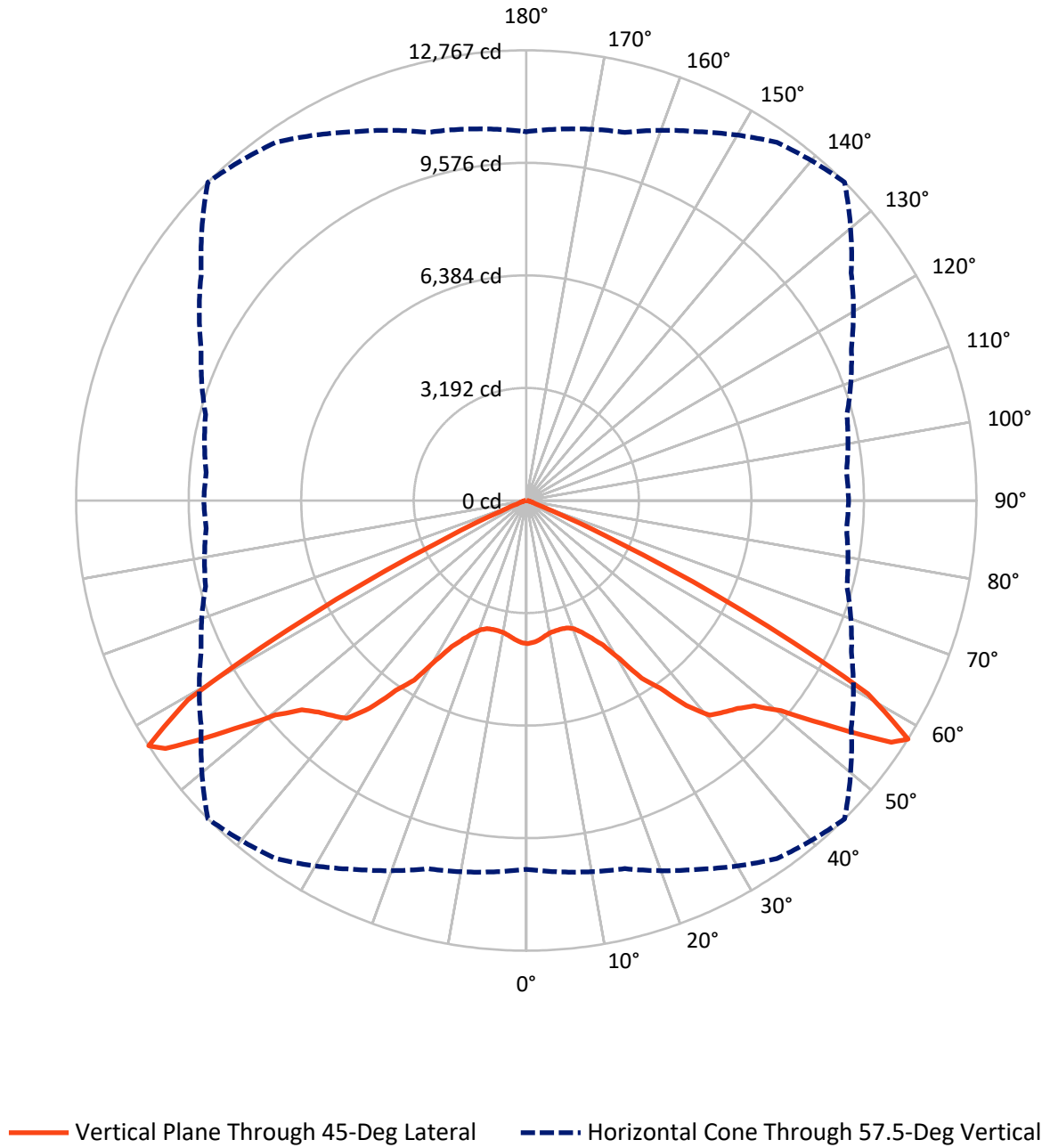
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	13091.0	0.0	13091.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13091.0	0.0	13091.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26182.0	0.0	26182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.2	1.4
10°-20°	1078.7	4.1
20°-30°	1991.1	7.6
30°-40°	3915.8	15.0
40°-50°	6377.8	24.4
50°-60°	9095.6	34.7
60°-70°	3149.1	12.0
70°-80°	168.9	0.6
80°-90°	31.7	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°	26182.0	100.0
0°-180°	26182.0	100.0

Coefficient of Utilization

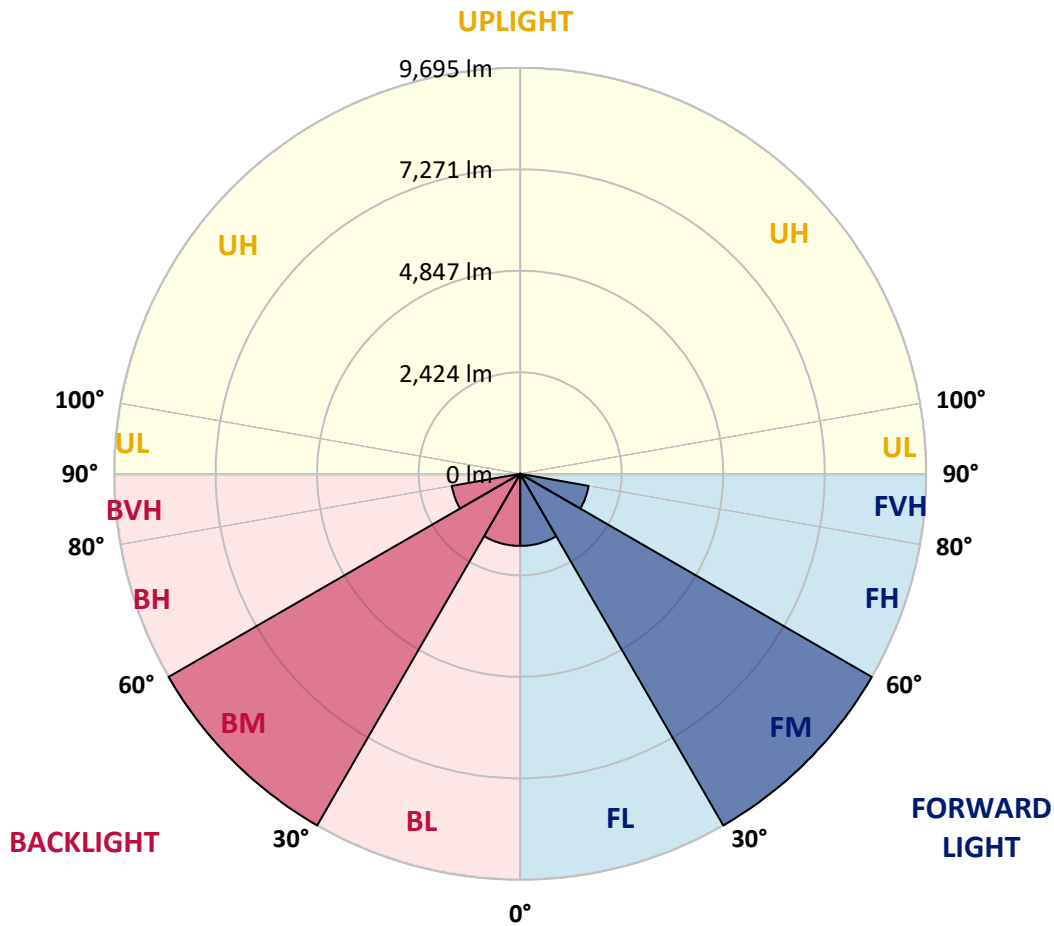


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1721.5	6.6			
FM (30°-60°)	9694.6	37.0			
FH (60°-80°)	1659.0	6.3			G1/1800
FVH (80°-90°)	15.9	0.1			G1/100
BL (0°-30°)	1721.5	6.6	B3/2500		
BM (30°-60°)	9694.6	37.0	B5		
BH (60°-80°)	1659.0	6.3	B3/2500		G1/1800
BVH (80°-90°)	15.9	0.1			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°	4061.1	4061.1	4061.1	4061.1	4061.1	4061.1	4061.1	4061.1	4061.1	4061.1	4061.1
2.5°	4050.2	4072.0	4044.7	4033.8	4028.4	4028.4	4012.0	4012.0	4006.5	4012.0	3990.1
5°	3984.7	4006.5	4006.5	4001.1	3968.3	3962.8	3946.5	3935.6	3941.0	3919.2	3935.6
7.5°	3919.2	3935.6	3913.7	3908.3	3897.3	3875.5	3870.1	3820.9	3826.4	3826.4	3837.3
10°	3908.3	3902.8	3870.1	3842.8	3810.0	3804.6	3788.2	3777.3	3777.3	3771.8	3788.2
12.5°	3908.3	3881.0	3875.5	3815.5	3760.9	3782.7	3739.1	3711.8	3750.0	3760.9	3782.7
15°	3902.8	3930.1	3837.3	3810.0	3771.8	3777.3	3739.1	3711.8	3733.6	3744.5	3760.9
17.5°	3935.6	3919.2	3891.9	3837.3	3820.9	3799.1	3750.0	3728.1	3728.1	3755.4	3760.9
20°	4022.9	3979.2	3924.6	3897.3	3913.7	3886.4	3826.4	3744.5	3766.3	3788.2	3804.6
22.5°	4104.8	4072.0	4033.8	4017.4	4110.2	4066.6	3962.8	3870.1	3837.3	3875.5	3902.8
25°	4263.1	4263.1	4192.1	4213.9	4317.7	4323.1	4203.0	4039.3	4017.4	4033.8	4044.7
27.5°	4585.1	4601.5	4541.4	4563.3	4606.9	4645.2	4541.4	4405.0	4355.9	4350.4	4366.8
30°	4934.5	4967.2	4961.8	5054.5	5180.1	5201.9	5049.1	4825.3	4677.9	4650.6	4672.5
32.5°	5393.0	5409.3	5398.4	5507.6	5846.0	6004.3	5605.8	5289.3	5092.8	5141.9	5092.8
35°	6255.4	6239.0	6118.9	6140.8	6419.2	6533.8	6151.7	5949.7	5856.9	5955.2	5933.4
37.5°	6997.8	6937.7	6839.5	6981.4	7270.7	7374.4	6975.9	6621.1	6451.9	6615.7	6686.6
40°	7625.5	7472.6	7336.2	7478.1	7865.7	8007.6	7423.5	7134.2	7068.7	7188.8	7341.6
42.5°	8155.0	8056.7	7876.6	7887.5	8144.0	8209.5	7740.1	7570.9	7505.4	7696.4	7772.9
45°	8531.6	8438.8	8269.6	8258.7	8455.2	8411.5	7991.2	7876.6	7914.8	8040.3	8078.5
47.5°	8722.6	8771.8	8673.5	8700.8	8804.5	8700.8	8367.8	8367.8	8280.5	8356.9	8318.7
50°	9273.9	9121.1	9246.6	9246.6	9355.8	9366.7	9033.8	8913.7	8679.0	8548.0	8548.0
52.5°	9918.0	9929.0	9978.1	10158.2	10343.8	10502.1	10027.2	9514.1	9121.1	8951.9	8930.1
55°	10447.5	10556.7	10753.2	11091.6	11626.5	11844.9	11026.1	10109.1	9628.7	9366.7	9312.2
56°	10736.8	10633.1	10971.5	11435.5	12134.2	12418.0	11189.9	10229.2	9699.7	9404.9	9399.5
57.5°	10458.4	10573.1	10807.8	11539.2	12396.2	12767.4	11249.9	10174.6	9415.9	9115.6	9142.9
60°	8258.7	8367.8	8684.4	9503.2	10846.0	11135.3	9519.6	8389.7	7712.8	7281.6	7287.1
62.5°	4672.5	4754.3	5000.0	5758.7	6593.8	6872.2	5933.4	5180.1	4710.7	4470.5	4394.1
65°	1719.4	1686.7	1724.9	2112.4	2625.5	2860.2	2467.2	2085.1	1839.5	1752.2	1719.4
67.5°	644.1	595.0	556.8	595.0	747.8	791.5	726.0	605.9	567.7	584.1	595.0
70°	398.5	376.6	300.2	283.8	278.4	272.9	289.3	305.7	349.3	409.4	420.3
72.5°	278.4	262.0	212.9	202.0	191.0	185.6	212.9	234.7	272.9	316.6	322.0
75°	109.2	114.6	109.2	120.1	125.5	131.0	152.8	169.2	185.6	185.6	180.1
77.5°	21.8	21.8	32.8	43.7	54.6	71.0	103.7	120.1	125.5	120.1	103.7
80°	0.0	0.0	10.9	21.8	43.7	60.0	92.8	103.7	114.6	103.7	81.9
82.5°	0.0	0.0	10.9	27.3	43.7	54.6	87.3	109.2	125.5	114.6	87.3
85°	0.0	0.0	10.9	21.8	32.8	38.2	38.2	27.3	27.3	16.4	10.9
87.5°	0.0	0.0	0.0	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)