

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: P534179

Luminaire Tested: **GALN-SA9C-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534179
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-SA9C-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA 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: 26418 lumens
Efficiency: N/A
Efficacy: 54.9 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): 481
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

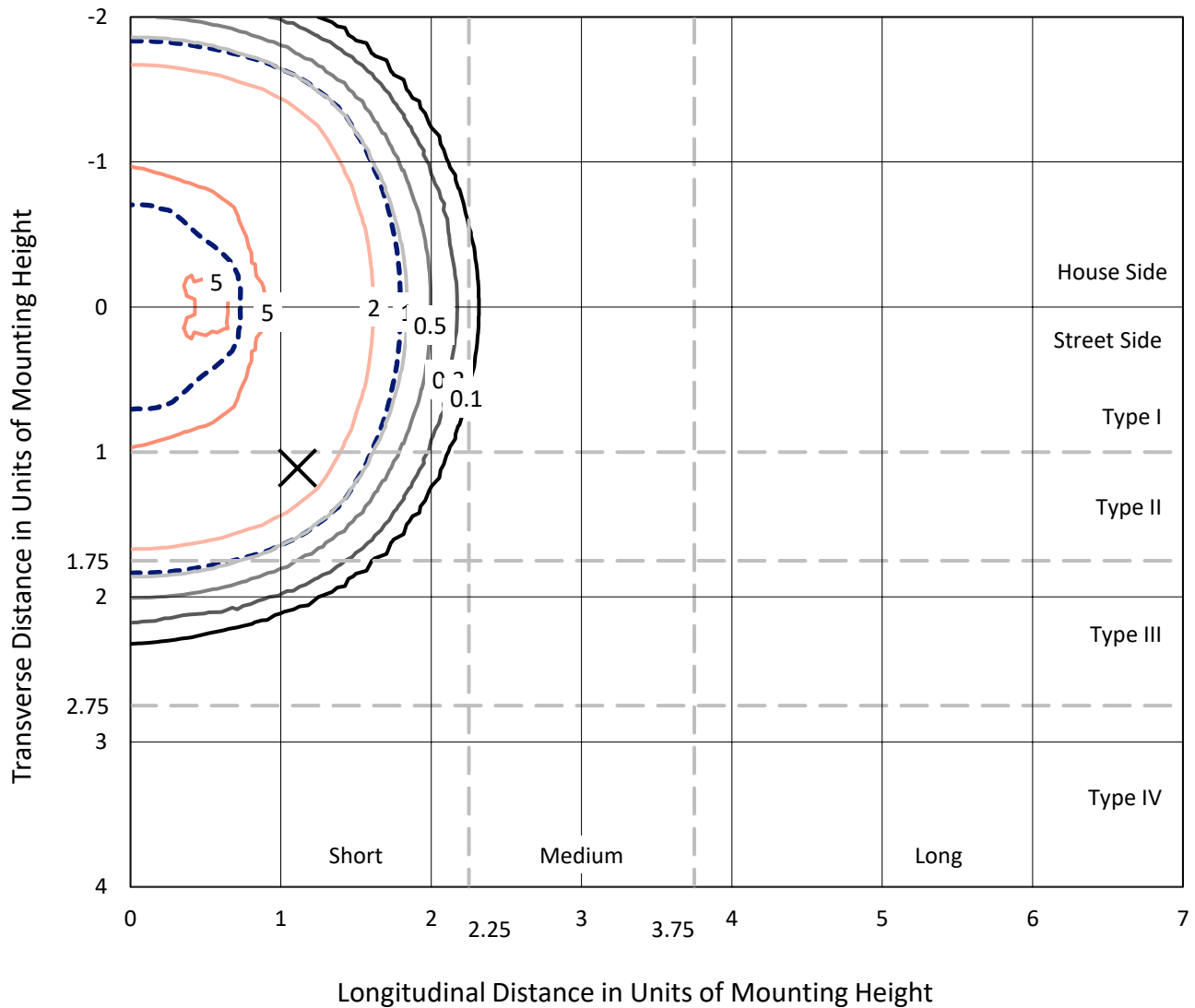


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Iso-Footcandle Lines of Horizontal Illumination

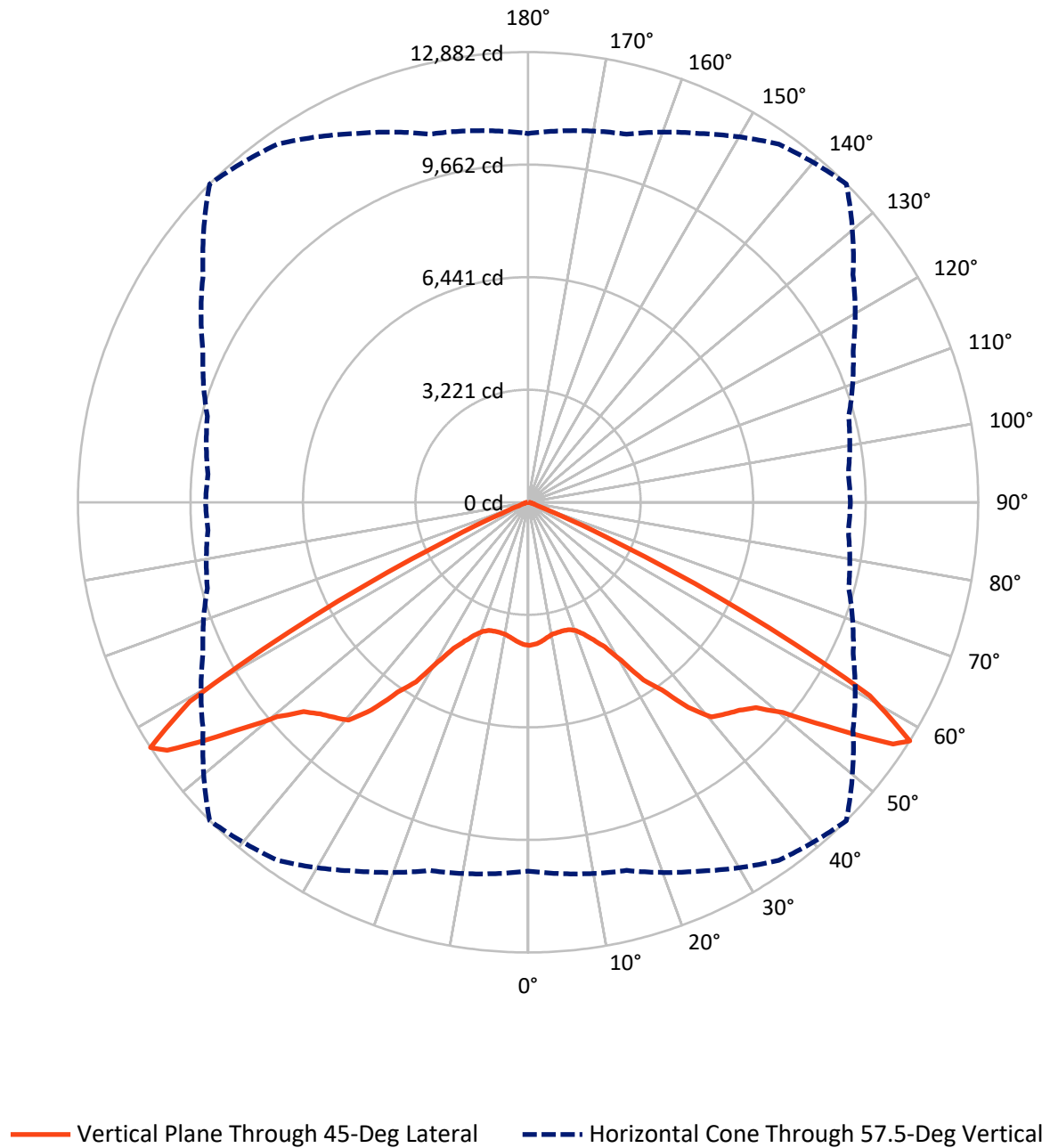
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	13209.0	0.0	13209.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13209.0	0.0	13209.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26418.0	0.0	26418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.6	1.4
10°-20°	1088.4	4.1
20°-30°	2009.1	7.6
30°-40°	3951.1	15.0
40°-50°	6435.3	24.4
50°-60°	9177.5	34.7
60°-70°	3177.5	12.0
70°-80°	170.5	0.6
80°-90°	32.0	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°	26418.0	100.0
0°-180°	26418.0	100.0

Coefficient of Utilization



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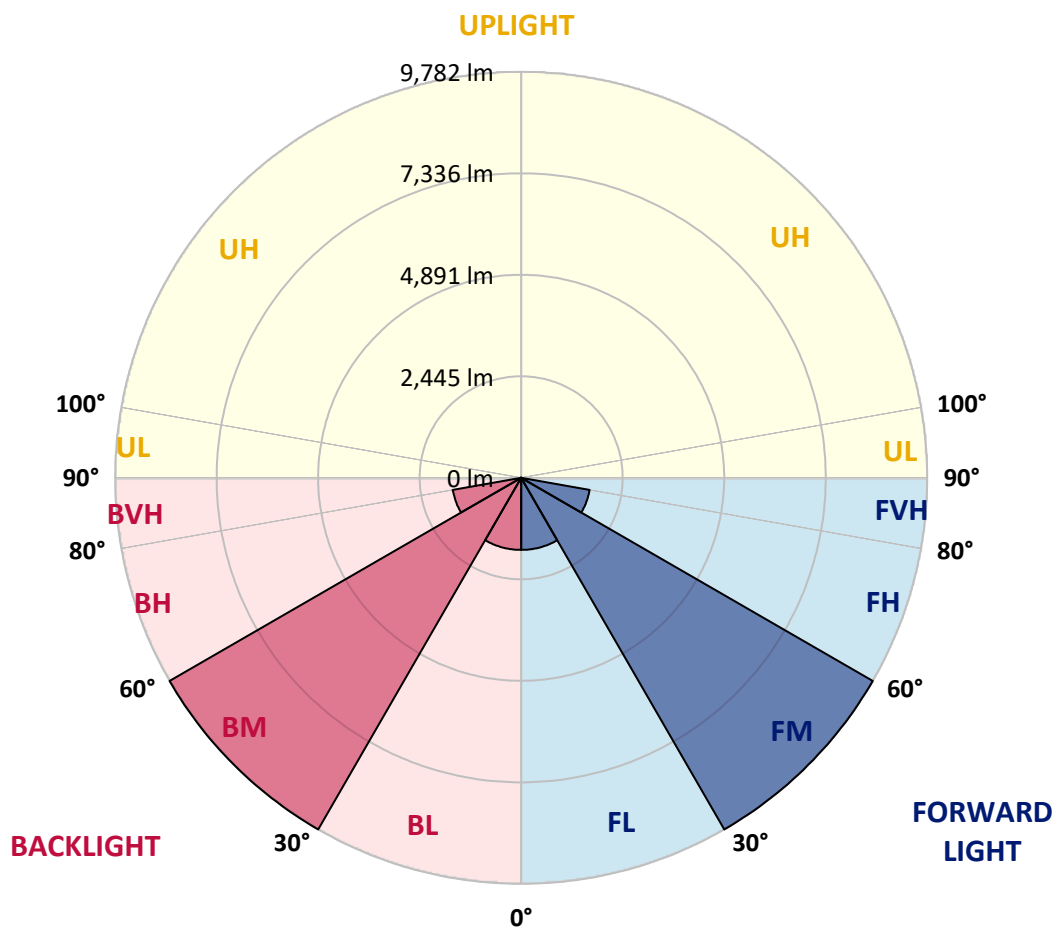
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1737.0	6.6			
FM	(30°-60°)	9782.0	37.0			
FH	(60°-80°)	1674.0	6.3			G1/1800
FVH	(80°-90°)	16.0	0.1			G1/100
BL	(0°-30°)	1737.0	6.6	B3/2500		
BM	(30°-60°)	9782.0	37.0	B5		
BH	(60°-80°)	1674.0	6.3	B3/2500		G1/1800
BVH	(80°-90°)	16.0	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°	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7	4097.7
2.5°	4086.7	4108.7	4081.2	4070.2	4064.7	4064.7	4048.1	4048.1	4042.6	4048.1	4026.1
5°	4020.6	4042.6	4042.6	4037.1	4004.1	3998.6	3982.0	3971.0	3976.5	3954.5	3971.0
7.5°	3954.5	3971.0	3949.0	3943.5	3932.5	3910.4	3904.9	3855.4	3860.9	3860.9	3871.9
10°	3943.5	3938.0	3904.9	3877.4	3844.4	3838.8	3822.3	3811.3	3811.3	3805.8	3822.3
12.5°	3943.5	3916.0	3910.4	3849.9	3794.8	3816.8	3772.8	3745.2	3783.8	3794.8	3816.8
15°	3938.0	3965.5	3871.9	3844.4	3805.8	3811.3	3772.8	3745.2	3767.2	3778.3	3794.8
17.5°	3971.0	3954.5	3927.0	3871.9	3855.4	3833.3	3783.8	3761.7	3761.7	3789.3	3794.8
20°	4059.2	4015.1	3960.0	3932.5	3949.0	3921.5	3860.9	3778.3	3800.3	3822.3	3838.8
22.5°	4141.8	4108.7	4070.2	4053.6	4147.3	4103.2	3998.6	3904.9	3871.9	3910.4	3938.0
25°	4301.5	4301.5	4229.9	4251.9	4356.6	4362.1	4240.9	4075.7	4053.6	4070.2	4081.2
27.5°	4626.4	4643.0	4582.4	4604.4	4648.5	4687.0	4582.4	4444.7	4395.1	4389.6	4406.1
30°	4978.9	5012.0	5006.5	5100.1	5226.8	5248.8	5094.6	4868.8	4720.1	4692.5	4714.6
32.5°	5441.6	5458.1	5447.1	5557.2	5898.7	6058.4	5656.4	5336.9	5138.7	5188.2	5138.7
35°	6311.8	6295.3	6174.1	6196.1	6477.0	6592.7	6207.1	6003.4	5909.7	6008.9	5986.8
37.5°	7060.8	7000.3	6901.1	7044.3	7336.2	7440.9	7038.8	6680.8	6510.1	6675.3	6746.9
40°	7694.2	7540.0	7402.3	7545.5	7936.6	8079.8	7490.4	7198.5	7132.4	7253.6	7407.8
42.5°	8228.5	8129.3	7947.6	7958.6	8217.4	8283.5	7809.9	7639.1	7573.0	7765.8	7842.9
45°	8608.5	8514.9	8344.1	8333.1	8531.4	8487.3	8063.2	7947.6	7986.1	8112.8	8151.4
47.5°	8801.3	8850.8	8751.7	8779.2	8883.9	8779.2	8443.3	8443.3	8355.1	8432.2	8393.7
50°	9357.5	9203.3	9330.0	9330.0	9440.2	9451.2	9115.2	8994.0	8757.2	8625.0	8625.0
52.5°	10007.4	10018.5	10068.0	10249.8	10437.0	10596.8	10117.6	9599.9	9203.3	9032.6	9010.6
55°	10541.7	10651.8	10850.1	11191.6	11731.3	11951.6	11125.5	10200.2	9715.5	9451.2	9396.1
56°	10833.6	10728.9	11070.4	11538.6	12243.6	12530.0	11290.7	10321.4	9787.1	9489.7	9484.2
57.5°	10552.7	10668.4	10905.2	11643.2	12507.9	12882.4	11351.3	10266.3	9500.7	9197.8	9225.4
60°	8333.1	8443.3	8762.7	9588.9	10943.7	11235.7	9605.4	8465.3	7782.3	7347.2	7352.7
62.5°	4714.6	4797.2	5045.0	5810.6	6653.3	6934.2	5986.8	5226.8	4753.1	4510.8	4433.7
65°	1734.9	1701.9	1740.4	2131.5	2649.2	2886.0	2489.5	2103.9	1856.1	1768.0	1734.9
67.5°	649.9	600.3	561.8	600.3	754.6	798.6	732.5	611.4	572.8	589.3	600.3
70°	402.1	380.0	302.9	286.4	280.9	275.4	291.9	308.4	352.5	413.1	424.1
72.5°	280.9	264.4	214.8	203.8	192.8	187.3	214.8	236.8	275.4	319.4	325.0
75°	110.2	115.7	110.2	121.2	126.7	132.2	154.2	170.7	187.3	187.3	181.8
77.5°	22.0	22.0	33.0	44.1	55.1	71.6	104.6	121.2	126.7	121.2	104.6
80°	0.0	0.0	11.0	22.0	44.1	60.6	93.6	104.6	115.7	104.6	82.6
82.5°	0.0	0.0	11.0	27.5	44.1	55.1	88.1	110.2	126.7	115.7	88.1
85°	0.0	0.0	11.0	22.0	33.0	38.6	38.6	27.5	27.5	16.5	11.0
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)