

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: P646875

Luminaire Tested: **GALN-SA4C-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646875
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-835-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 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: 18474.8 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

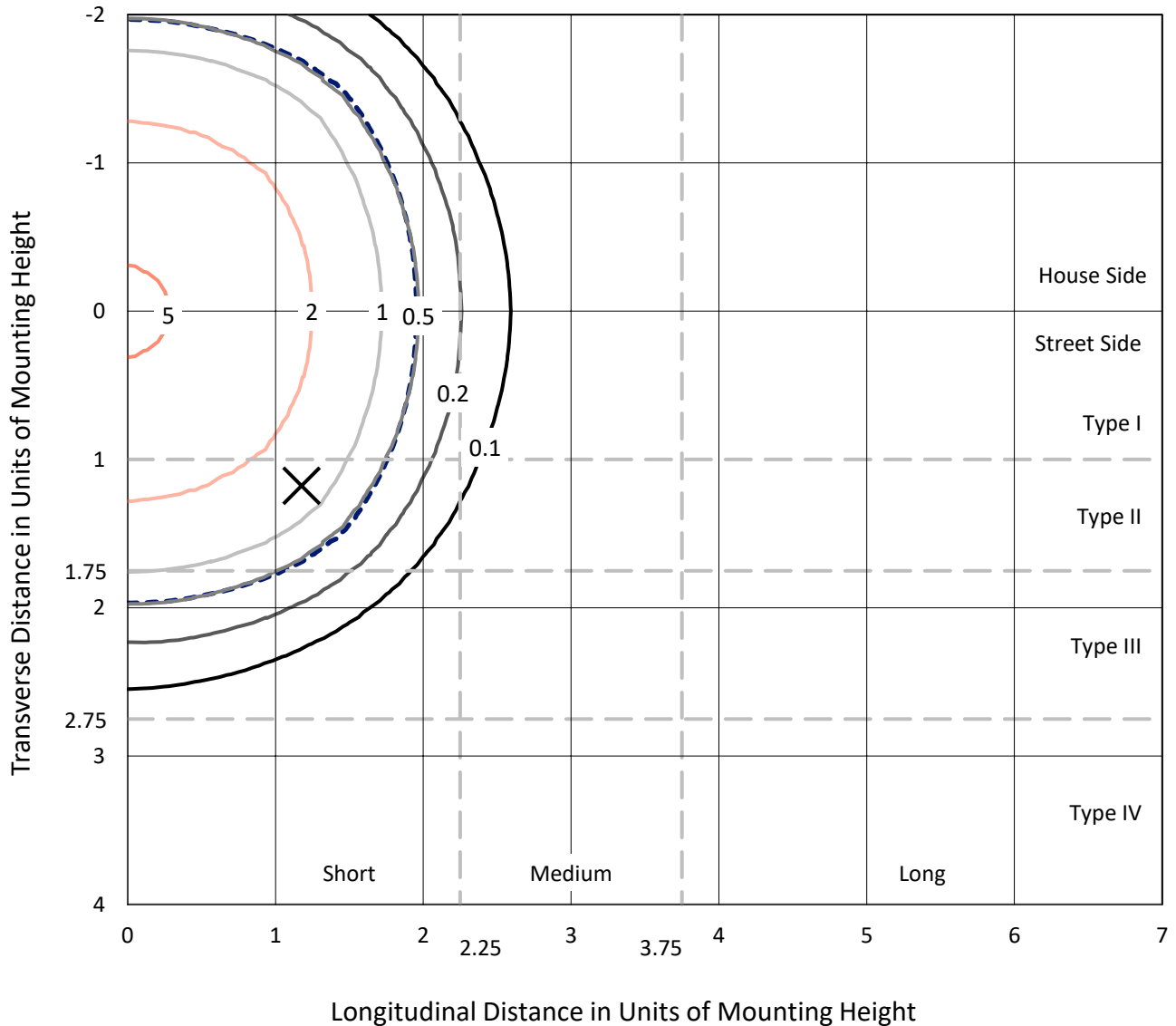
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

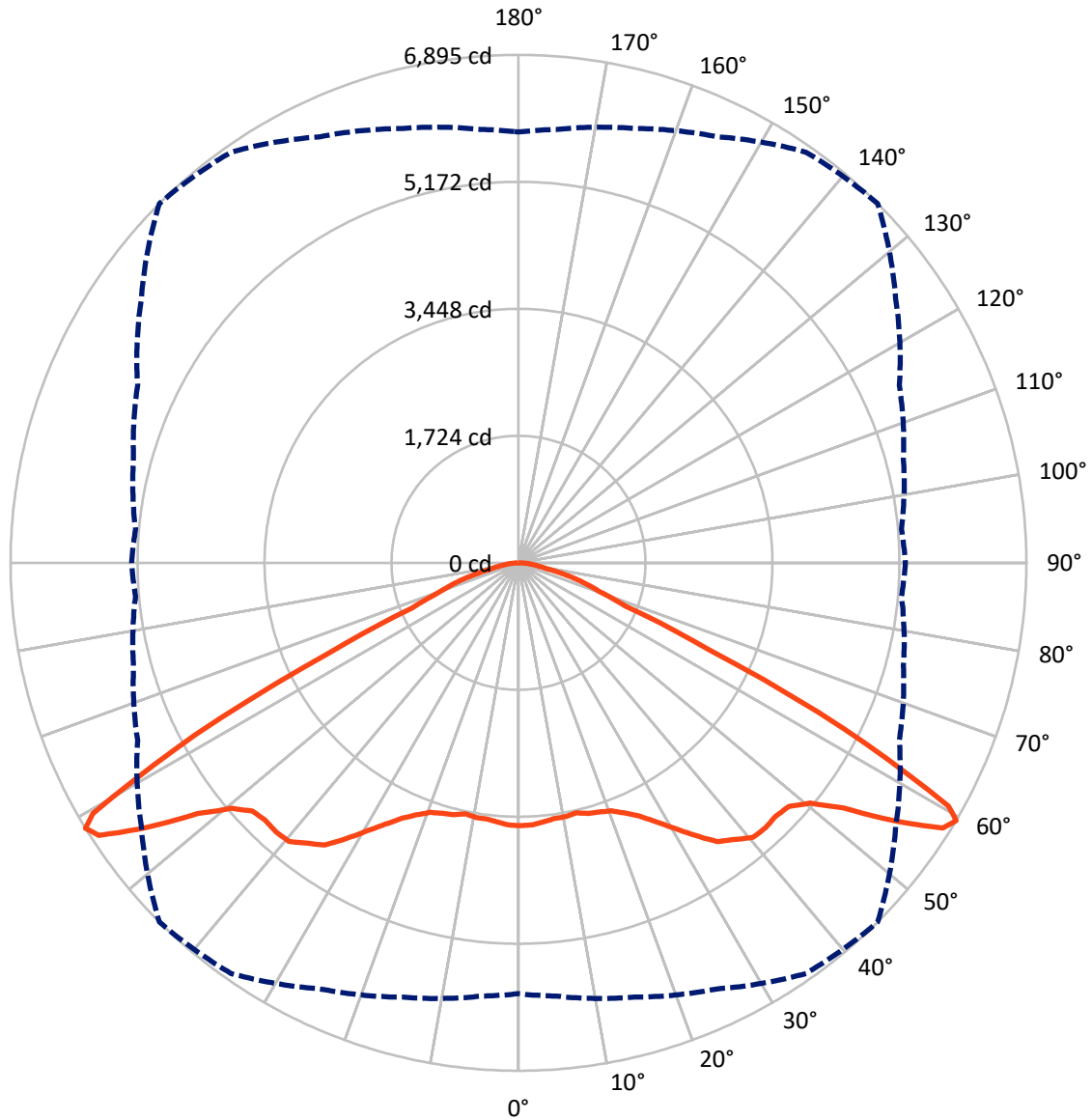
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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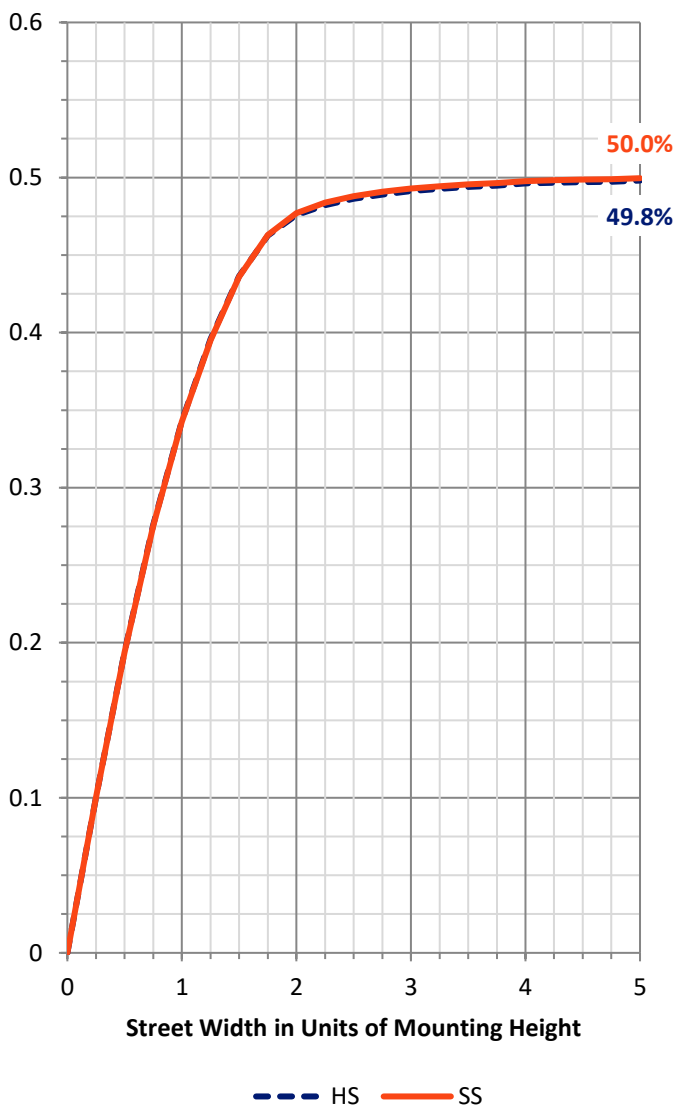
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9237.4	0.0	9237.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9237.4	0.0	9237.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	18474.8	0.0	18474.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.4	1.8
10°-20°	1000.4	5.4
20°-30°	1746.8	9.5
30°-40°	2789.8	15.1
40°-50°	3800.3	20.6
50°-60°	5139.0	27.8
60°-70°	2818.3	15.3
70°-80°	721.0	3.9
80°-90°	123.0	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°	18474.8	100.0
0°-180°	18474.8	100.0

Coefficient of Utilization



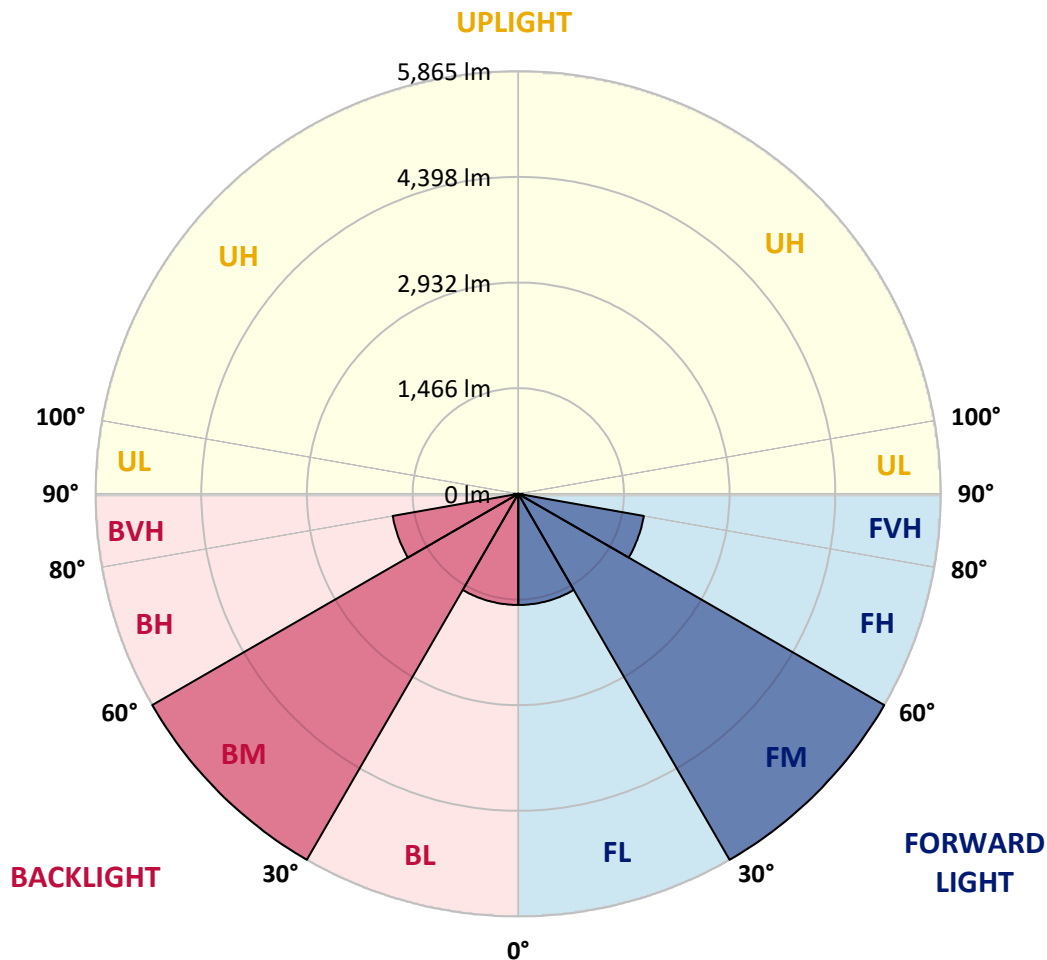
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1541.8	8.3			
FM (30°-60°)	5864.6	31.7			
FH (60°-80°)	1769.6	9.6			G1/1800
FVH (80°-90°)	61.5	0.3			G1/100
BL (0°-30°)	1541.8	8.3	B3/2500		
BM (30°-60°)	5864.6	31.7	B4/8500		
BH (60°-80°)	1769.6	9.6	B3/2500		G1/1800
BVH (80°-90°)	61.5	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3568.4	3568.4	3568.4	3568.4	3568.4	3568.4	3568.4	3568.4	3568.4	3568.4	3568.4
2.5°	3547.1	3573.2	3554.3	3570.8	3568.4	3561.4	3549.5	3542.4	3533.0	3547.1	3523.5
5°	3533.0	3554.3	3575.6	3547.1	3547.1	3533.0	3525.8	3511.6	3511.6	3509.2	3506.9
7.5°	3556.6	3535.3	3525.8	3530.5	3535.3	3504.6	3525.8	3497.4	3473.8	3490.3	3509.2
10°	3535.3	3544.8	3509.2	3525.8	3499.8	3504.6	3490.3	3509.2	3483.3	3483.3	3483.3
12.5°	3556.6	3530.5	3542.4	3530.5	3523.5	3483.3	3502.1	3480.8	3478.5	3502.1	3480.8
15°	3599.2	3556.6	3547.1	3523.5	3530.5	3530.5	3511.6	3514.0	3488.0	3502.1	3506.9
17.5°	3585.0	3561.4	3554.3	3525.8	3549.5	3556.6	3521.1	3497.4	3514.0	3511.6	3509.2
20°	3596.9	3606.3	3599.2	3604.0	3613.5	3594.5	3561.4	3528.2	3506.9	3537.7	3535.3
22.5°	3672.7	3663.2	3658.4	3653.7	3670.3	3689.3	3644.2	3592.2	3592.2	3613.5	3622.9
25°	3734.2	3731.9	3729.5	3750.8	3807.7	3807.7	3750.8	3684.5	3667.9	3682.1	3670.3
27.5°	3824.2	3850.2	3840.8	3878.7	3961.5	3980.5	3904.7	3826.6	3781.6	3765.0	3786.3
30°	4030.2	3999.4	4006.5	4046.8	4120.2	4181.8	4065.7	3982.9	3921.3	3918.9	3928.4
32.5°	4167.5	4191.2	4212.5	4250.4	4366.5	4413.8	4274.1	4139.2	4101.3	4079.9	4087.0
35°	4442.2	4420.9	4416.2	4454.1	4570.1	4648.2	4473.0	4354.7	4304.9	4352.2	4352.2
37.5°	4702.7	4643.5	4598.5	4648.2	4754.8	4764.2	4615.1	4551.2	4525.1	4579.5	4577.2
40°	4825.9	4821.1	4716.9	4745.3	4887.4	4901.6	4761.9	4686.1	4681.4	4752.4	4823.4
42.5°	4953.7	4908.7	4804.5	4823.4	4911.1	4915.8	4783.2	4761.9	4814.0	4882.6	4887.4
45°	4975.0	4937.1	4870.8	4823.4	4887.4	4901.6	4823.4	4837.7	4842.4	4925.3	4925.3
47.5°	5017.6	5012.9	4975.0	4939.5	4951.3	4939.5	4889.8	4911.1	4982.2	5022.4	5003.4
50°	5136.0	5086.3	5124.2	5093.4	5095.8	5129.0	5083.9	5105.2	5091.1	5055.5	5031.9
52.5°	5396.5	5372.8	5406.0	5427.3	5450.9	5526.7	5474.7	5361.0	5254.4	5159.7	5157.3
55°	5777.8	5794.3	5858.2	5967.2	6059.6	6180.3	5929.3	5656.9	5486.5	5337.3	5346.8
57.5°	6137.7	6125.8	6213.4	6462.1	6732.0	6793.5	6301.0	5912.7	5635.6	5541.0	5500.7
59°	5848.8	5905.6	6104.5	6381.5	6805.4	6895.4	6251.3	5704.3	5410.7	5218.9	5252.1
60°	5394.2	5415.5	5593.0	5979.0	6552.1	6706.0	5917.4	5382.3	4991.6	4880.3	4930.0
62.5°	3812.3	3795.7	3923.7	4238.6	4752.4	4960.8	4399.6	4023.1	3776.9	3653.7	3682.1
65°	2027.0	2102.7	2154.8	2351.3	2623.7	2843.9	2611.9	2448.4	2311.1	2209.3	2206.9
67.5°	1368.7	1359.2	1371.0	1416.1	1508.4	1569.9	1565.2	1482.3	1470.5	1451.5	1472.8
70°	1153.2	1148.4	1127.1	1127.1	1146.1	1160.2	1176.8	1186.3	1205.3	1228.9	1226.6
72.5°	935.3	923.5	909.3	902.2	925.9	932.9	954.2	963.7	980.3	978.0	999.3
75°	618.0	618.0	634.6	653.6	660.6	674.9	677.2	705.6	705.6	710.4	691.5
77.5°	345.7	336.2	348.1	367.0	383.6	409.7	435.7	457.0	468.9	464.1	464.1
80°	201.3	201.3	213.1	234.4	255.7	279.5	298.3	314.9	326.7	322.0	312.6
82.5°	125.5	125.5	137.3	158.6	175.2	189.4	215.5	236.8	251.0	246.3	234.4
85°	64.0	64.0	78.1	92.3	113.7	123.2	120.7	111.3	108.9	97.1	97.1
87.5°	16.6	16.6	23.6	26.1	21.3	23.6	23.6	23.6	23.6	23.6	26.1
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)