

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: P651605

Luminaire Tested: **GALN-SA9D-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651605
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-SA9D-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA 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: 50037 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

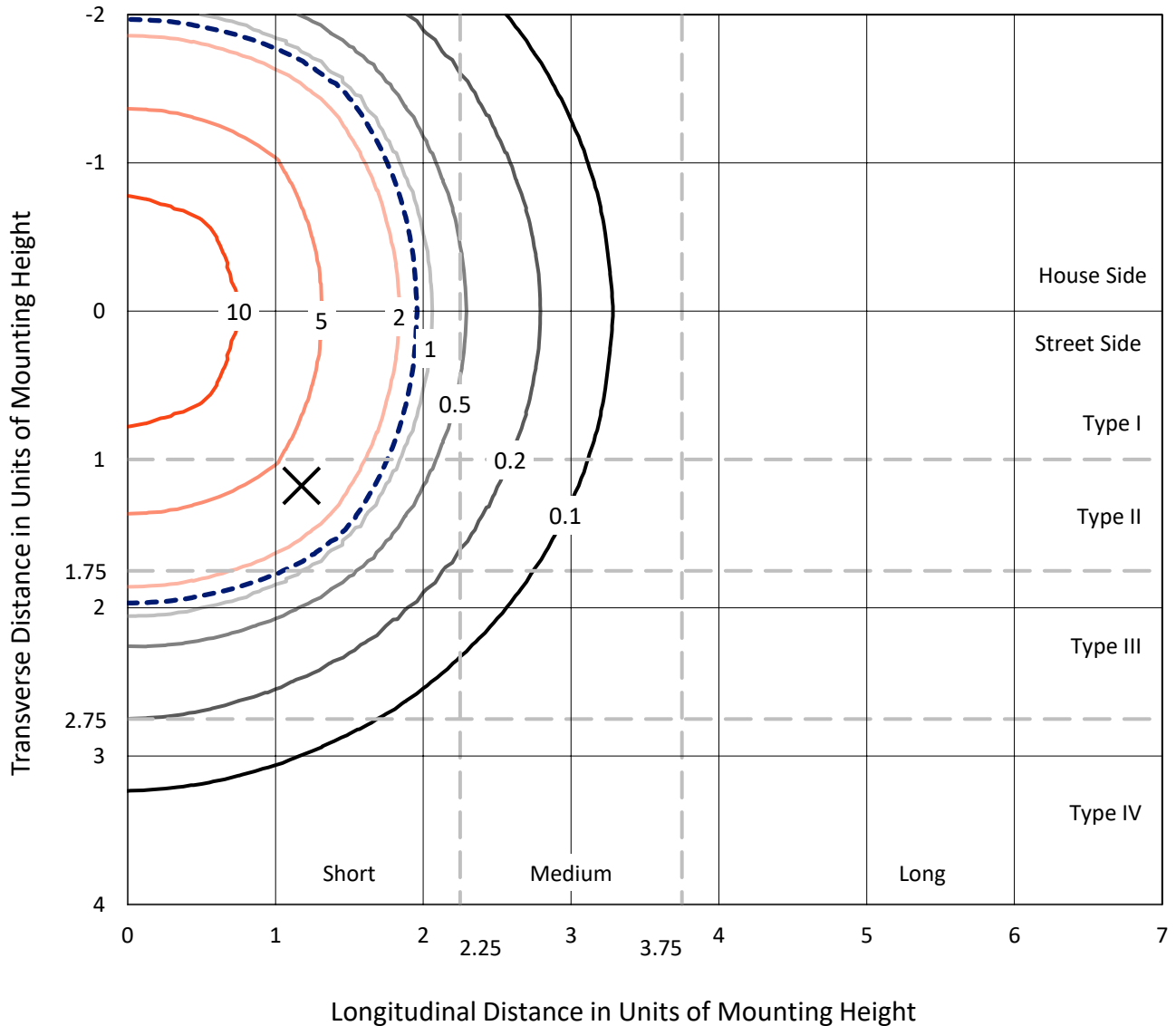
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

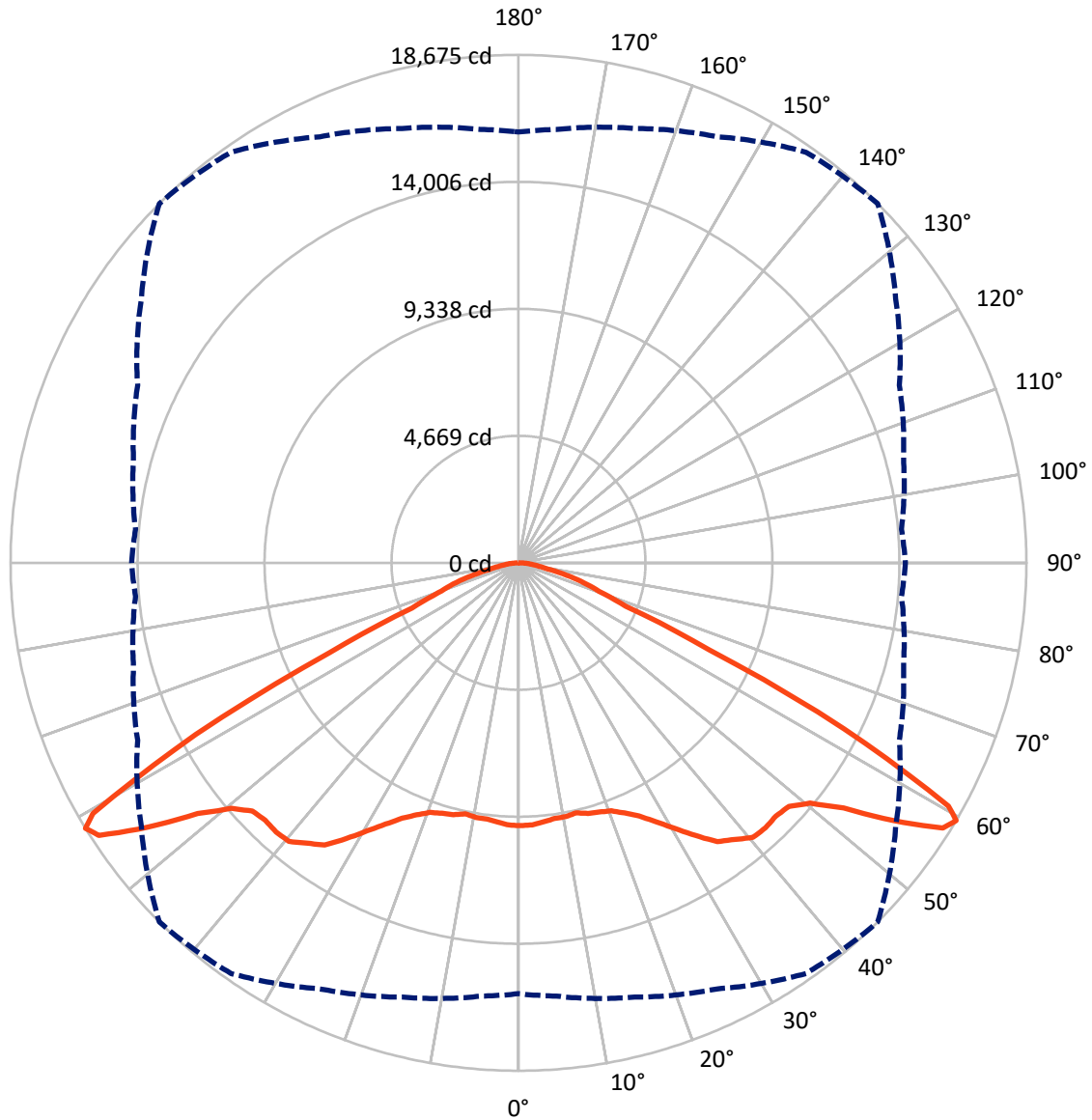
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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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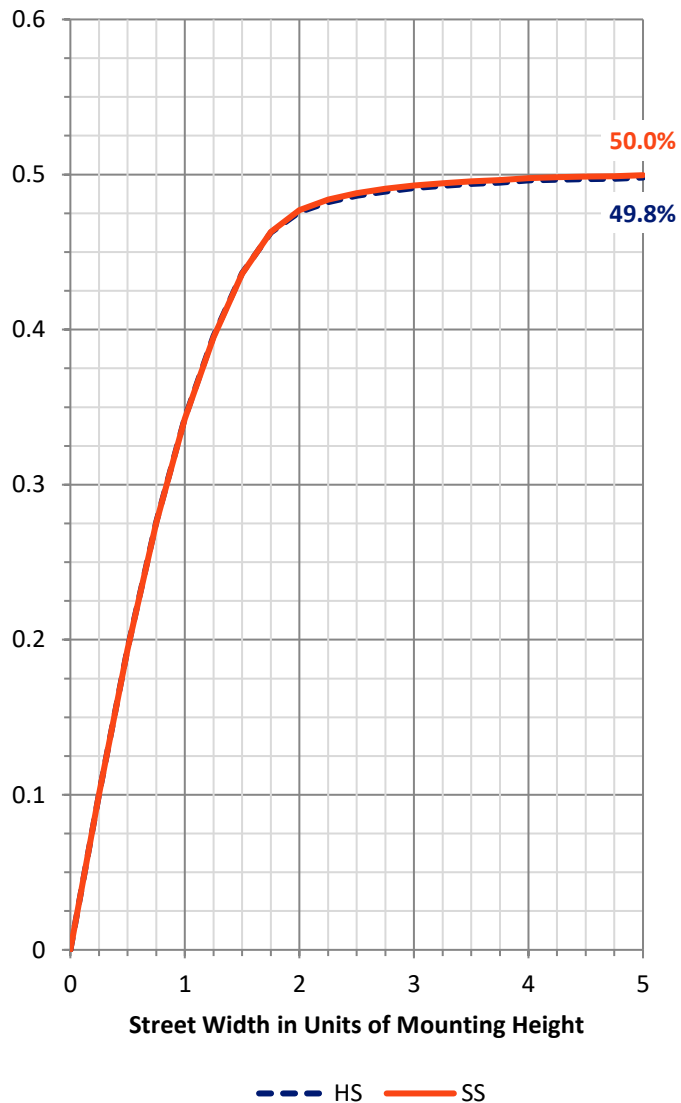
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25018.5	0.0	25018.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25018.5	0.0	25018.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50037.0	0.0	50037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	911.1	1.8
10°-20°	2709.4	5.4
20°-30°	4730.9	9.5
30°-40°	7555.9	15.1
40°-50°	10292.7	20.6
50°-60°	13918.4	27.8
60°-70°	7632.9	15.3
70°-80°	1952.7	3.9
80°-90°	333.1	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°	50037.0	100.0
0°-180°	50037.0	100.0

Coefficient of Utilization



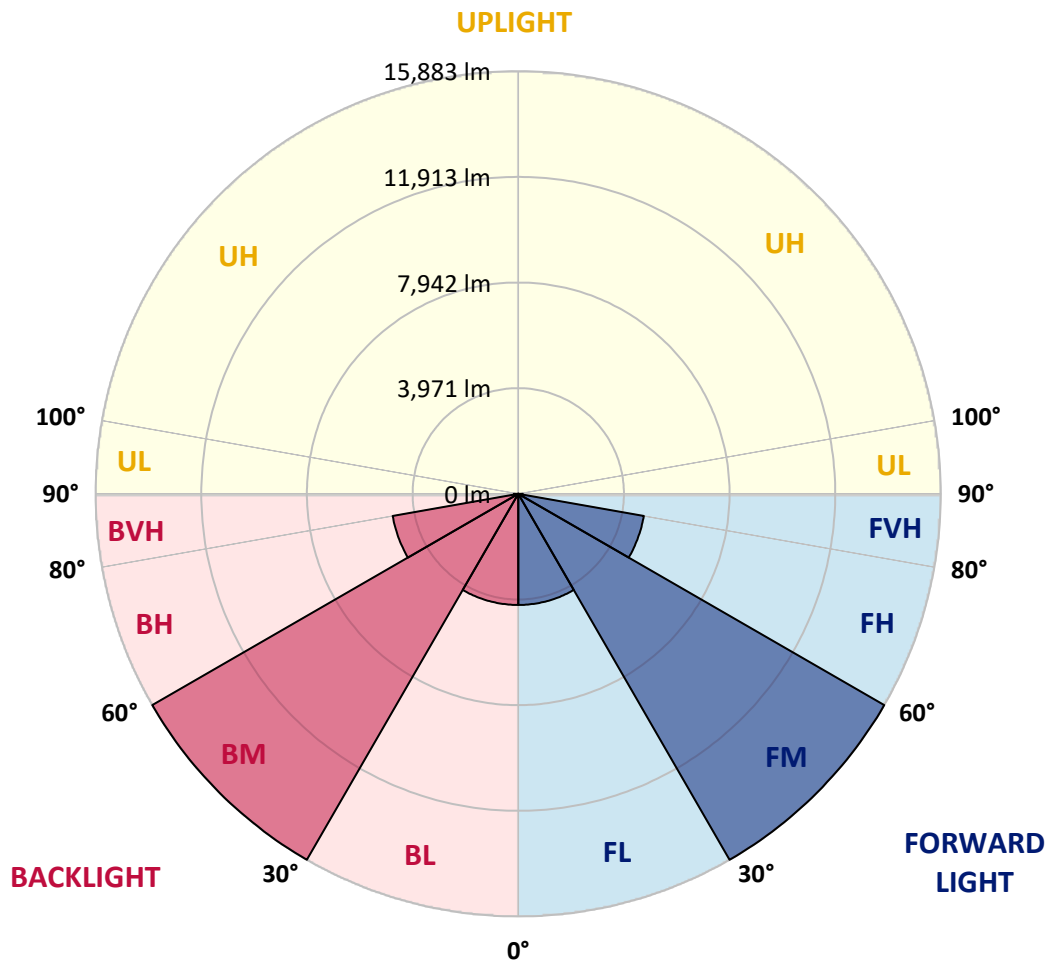
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4175.7	8.3			
FM (30°-60°)	15883.5	31.7			
FH (60°-80°)	4792.8	9.6			G2/5000
FVH (80°-90°)	166.5	0.3			G2/225
BL (0°-30°)	4175.7	8.3	B4/5000		
BM (30°-60°)	15883.5	31.7	B5		
BH (60°-80°)	4792.8	9.6	B4/5000		G2/5000
BVH (80°-90°)	166.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9664.8	9664.8	9664.8	9664.8	9664.8	9664.8	9664.8	9664.8	9664.8	9664.8	9664.8
2.5°	9607.0	9677.6	9626.3	9671.2	9664.8	9645.5	9613.5	9594.2	9568.6	9607.0	9542.9
5°	9568.6	9626.3	9684.0	9607.0	9607.0	9568.6	9549.3	9510.9	9510.9	9504.4	9498.0
7.5°	9632.6	9575.0	9549.3	9562.2	9575.0	9491.6	9549.3	9472.4	9408.2	9453.1	9504.4
10°	9575.0	9600.6	9504.4	9549.3	9478.7	9491.6	9453.1	9504.4	9433.8	9433.8	9433.8
12.5°	9632.6	9562.2	9594.2	9562.2	9542.9	9433.8	9485.2	9427.4	9421.1	9485.2	9427.4
15°	9748.1	9632.6	9607.0	9542.9	9562.2	9562.2	9510.9	9517.3	9446.7	9485.2	9498.0
17.5°	9709.7	9645.5	9626.3	9549.3	9613.5	9632.6	9536.5	9472.4	9517.3	9510.9	9504.4
20°	9741.7	9767.4	9748.1	9761.0	9786.6	9735.3	9645.5	9555.7	9498.0	9581.3	9575.0
22.5°	9946.9	9921.3	9908.5	9895.6	9940.5	9991.8	9870.0	9728.9	9728.9	9786.6	9812.3
25°	10113.7	10107.3	10100.8	10158.6	10312.5	10312.5	10158.6	9979.0	9934.1	9972.6	9940.5
27.5°	10357.4	10427.9	10402.2	10504.8	10729.3	10780.7	10575.4	10363.8	10242.0	10197.0	10254.7
30°	10915.3	10832.0	10851.2	10960.2	11159.1	11325.7	11011.5	10787.1	10620.3	10613.9	10639.6
32.5°	11287.3	11351.4	11409.2	11511.8	11826.0	11954.3	11575.9	11210.4	11107.8	11050.0	11069.2
35°	12031.3	11973.5	11960.7	12063.3	12377.6	12589.2	12114.6	11793.9	11659.3	11787.5	11787.5
37.5°	12736.7	12576.4	12454.5	12589.2	12877.8	12903.5	12499.4	12326.3	12255.7	12403.2	12396.8
40°	13070.1	13057.4	12775.2	12852.2	13236.9	13275.4	12897.0	12691.8	12679.0	12871.3	13063.8
42.5°	13416.5	13294.6	13012.5	13063.8	13301.1	13313.9	12954.8	12897.0	13038.1	13224.1	13236.9
45°	13474.2	13371.6	13192.0	13063.8	13236.9	13275.4	13063.8	13102.3	13115.1	13339.5	13339.5
47.5°	13589.6	13576.9	13474.2	13378.0	13410.1	13378.0	13243.3	13301.1	13493.4	13602.5	13551.2
50°	13910.3	13775.7	13878.3	13794.8	13801.3	13891.0	13769.2	13827.0	13788.4	13692.2	13628.2
52.5°	14615.7	14551.7	14641.4	14699.2	14763.3	14968.5	14827.4	14519.6	14231.0	13974.5	13968.0
55°	15648.3	15693.2	15866.4	16161.3	16411.4	16738.6	16058.7	15321.3	14859.5	14455.4	14481.1
57.5°	16623.1	16591.1	16828.3	17501.7	18232.9	18399.6	17065.7	16013.8	15263.5	15007.0	14898.0
59°	15840.7	15994.6	16533.3	17283.6	18431.6	18675.3	16930.9	15449.5	14654.3	14134.8	14224.6
60°	14609.3	14667.0	15148.1	16193.5	17745.4	18162.3	16026.7	14577.3	13519.1	13217.7	13352.4
62.5°	10325.3	10280.4	10626.7	11479.7	12871.3	13435.7	11915.8	10896.1	10229.1	9895.6	9972.6
65°	5489.7	5694.9	5836.0	6368.3	7105.9	7702.3	7073.8	6631.3	6259.3	5983.5	5977.2
67.5°	3706.9	3681.2	3713.3	3835.1	4085.2	4252.0	4239.1	4014.7	3982.6	3931.3	3989.0
70°	3123.2	3110.4	3052.7	3052.7	3104.0	3142.5	3187.4	3213.0	3264.3	3328.5	3322.0
72.5°	2533.3	2501.1	2462.7	2443.4	2507.6	2526.8	2584.6	2610.2	2655.1	2648.6	2706.4
75°	1673.8	1673.8	1718.8	1770.1	1789.3	1827.7	1834.2	1911.2	1911.2	1924.0	1872.7
77.5°	936.4	910.7	942.8	994.1	1039.0	1109.5	1180.0	1237.8	1269.8	1257.0	1257.0
80°	545.1	545.1	577.2	634.9	692.6	756.7	808.0	852.9	885.1	872.2	846.6
82.5°	339.9	339.9	372.0	429.7	474.6	513.1	583.6	641.3	679.8	667.0	634.9
85°	173.2	173.2	211.6	250.1	307.8	333.5	327.1	301.4	295.0	263.0	263.0
87.5°	44.9	44.9	64.2	70.6	57.7	64.2	64.2	64.2	64.2	64.2	70.6
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)