

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: P647425

Luminaire Tested: **GALN-SA5D-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647425
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-SA5D-835-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 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: 25734.1 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

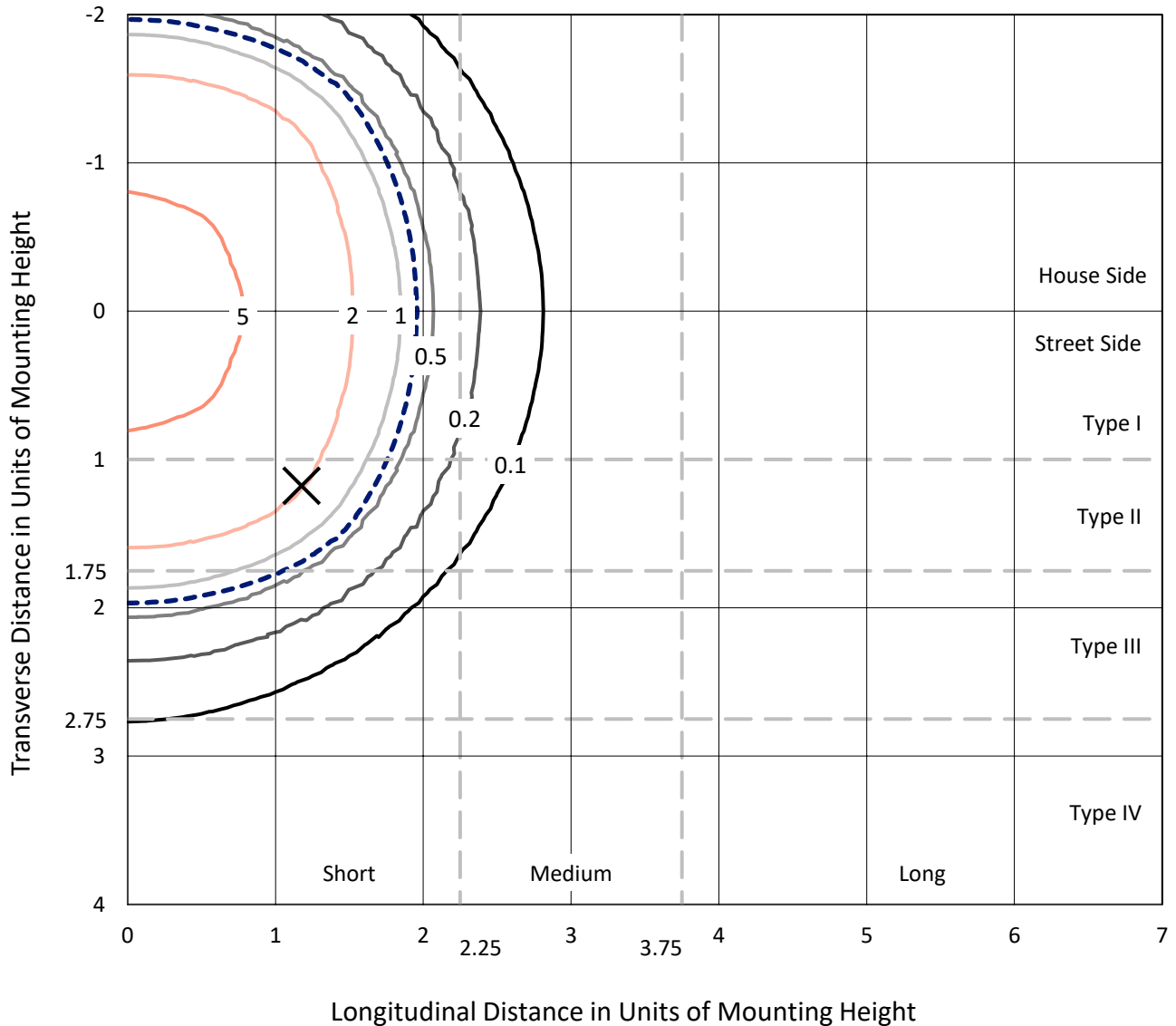
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

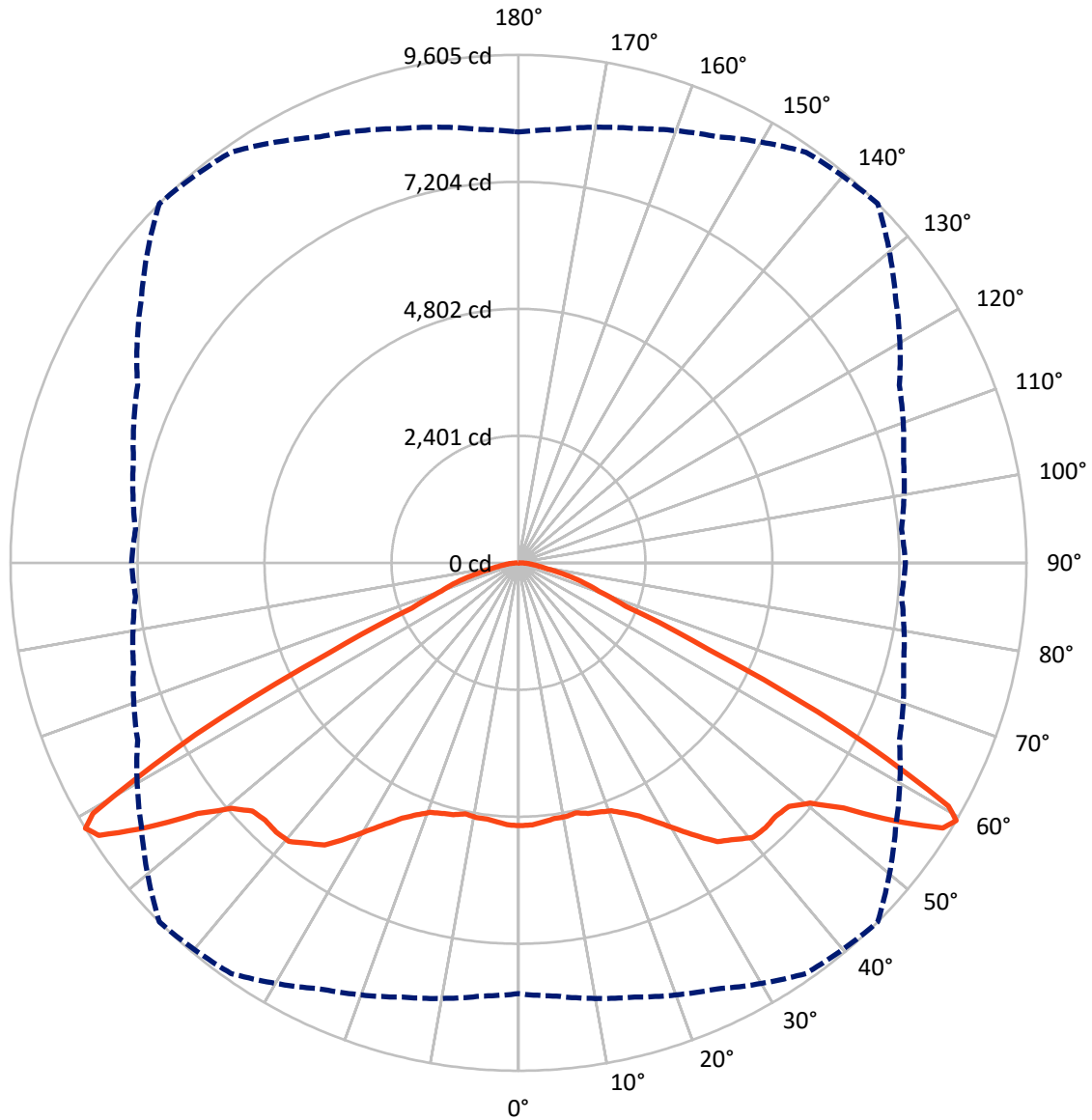
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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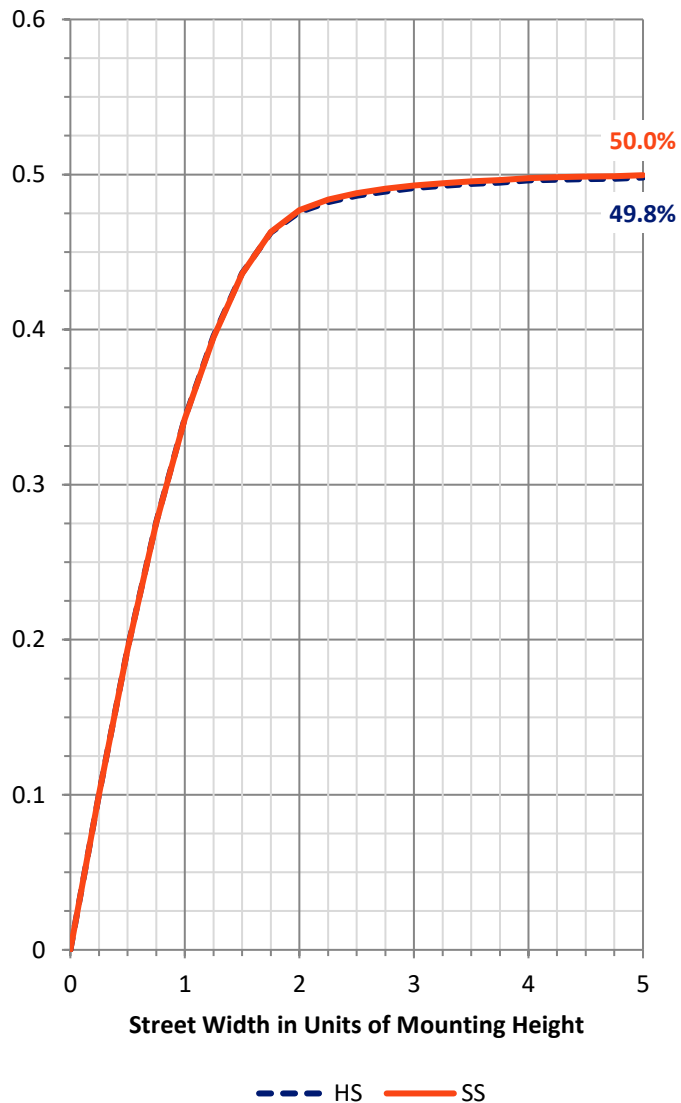
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12867.0	0.0	12867.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12867.0	0.0	12867.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25734.1	0.0	25734.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.6	1.8
10°-20°	1393.4	5.4
20°-30°	2433.1	9.5
30°-40°	3886.0	15.1
40°-50°	5293.5	20.6
50°-60°	7158.3	27.8
60°-70°	3925.6	15.3
70°-80°	1004.3	3.9
80°-90°	171.3	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°	25734.1	100.0
0°-180°	25734.1	100.0

Coefficient of Utilization



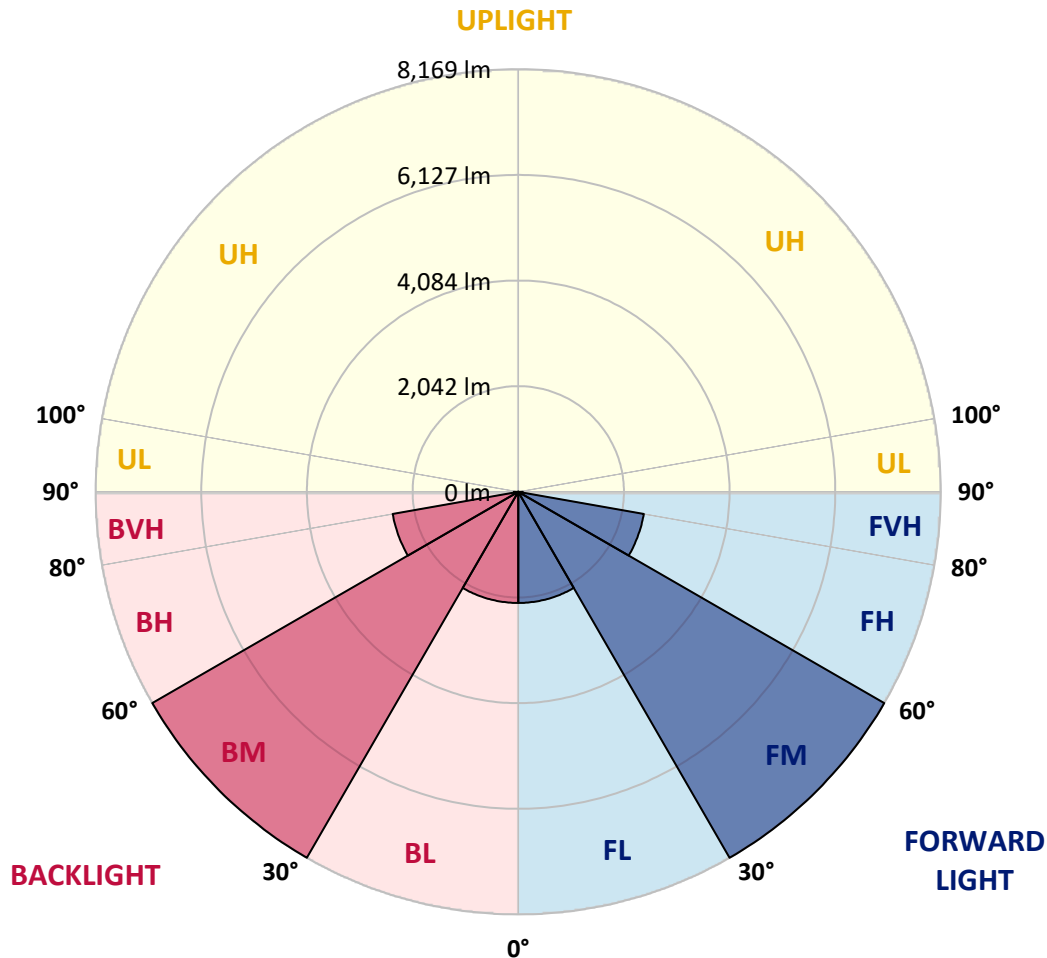
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2147.6	8.3			
FM (30°-60°)	8168.9	31.7			
FH (60°-80°)	2464.9	9.6			G2/5000
FVH (80°-90°)	85.6	0.3			G1/100
BL (0°-30°)	2147.6	8.3	B3/2500		
BM (30°-60°)	8168.9	31.7	B4/8500		
BH (60°-80°)	2464.9	9.6	B3/2500		G2/5000
BVH (80°-90°)	85.6	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6	4970.6
2.5°	4940.9	4977.2	4950.8	4973.9	4970.6	4960.7	4944.2	4934.3	4921.2	4940.9	4907.9
5°	4921.2	4950.8	4980.5	4940.9	4940.9	4921.2	4911.2	4891.4	4891.4	4888.1	4884.8
7.5°	4954.1	4924.4	4911.2	4917.8	4924.4	4881.5	4911.2	4871.7	4838.6	4861.7	4888.1
10°	4924.4	4937.6	4888.1	4911.2	4875.0	4881.5	4861.7	4888.1	4851.9	4851.9	4851.9
12.5°	4954.1	4917.8	4934.3	4917.8	4907.9	4851.9	4878.2	4848.6	4845.3	4878.2	4848.6
15°	5013.5	4954.1	4940.9	4907.9	4917.8	4917.8	4891.4	4894.8	4858.4	4878.2	4884.8
17.5°	4993.7	4960.7	4950.8	4911.2	4944.2	4954.1	4904.6	4871.7	4894.8	4891.4	4888.1
20°	5010.2	5023.3	5013.5	5020.0	5033.3	5006.9	4960.7	4914.5	4884.8	4927.7	4924.4
22.5°	5115.7	5102.5	5095.9	5089.3	5112.4	5138.8	5076.1	5003.6	5003.6	5033.3	5046.4
25°	5201.5	5198.2	5194.9	5224.6	5303.7	5303.7	5224.6	5132.2	5109.2	5128.9	5112.4
27.5°	5326.8	5363.1	5349.9	5402.7	5518.1	5544.5	5439.0	5330.1	5267.5	5244.4	5274.1
30°	5613.8	5570.9	5580.8	5636.9	5739.1	5824.9	5663.3	5547.8	5462.1	5458.8	5471.9
32.5°	5805.1	5838.0	5867.7	5920.5	6082.1	6148.1	5953.5	5765.5	5712.7	5683.0	5693.0
35°	6187.7	6158.0	6151.4	6204.2	6365.8	6474.6	6230.6	6065.7	5996.4	6062.4	6062.4
37.5°	6550.5	6468.0	6405.3	6474.6	6623.1	6636.2	6428.4	6339.4	6303.2	6378.9	6375.7
40°	6722.0	6715.4	6570.3	6609.9	6807.8	6827.5	6632.9	6527.4	6520.8	6619.8	6718.7
42.5°	6900.1	6837.5	6692.3	6718.7	6840.8	6847.3	6662.6	6632.9	6705.5	6801.1	6807.8
45°	6929.8	6877.0	6784.7	6718.7	6807.8	6827.5	6718.7	6738.5	6745.1	6860.6	6860.6
47.5°	6989.1	6982.6	6929.8	6880.3	6896.8	6880.3	6811.1	6840.8	6939.7	6995.8	6969.4
50°	7154.1	7084.8	7137.6	7094.7	7098.1	7144.2	7081.5	7111.2	7091.4	7041.9	7008.9
52.5°	7516.9	7483.9	7530.1	7559.8	7592.8	7698.3	7625.7	7467.5	7319.0	7187.1	7183.8
55°	8047.9	8071.0	8160.1	8311.8	8440.4	8608.7	8259.0	7879.7	7642.2	7434.4	7447.7
57.5°	8549.3	8532.8	8654.8	9001.1	9377.2	9462.9	8776.9	8236.0	7850.0	7718.1	7662.0
59°	8146.9	8226.0	8503.1	8889.0	9479.4	9604.7	8707.6	7945.7	7536.7	7269.5	7315.7
60°	7513.6	7543.3	7790.7	8328.3	9126.5	9340.9	8242.6	7497.1	6952.9	6797.8	6867.1
62.5°	5310.3	5287.2	5465.3	5904.1	6619.8	6910.1	6128.3	5603.9	5260.8	5089.3	5128.9
65°	2823.3	2928.9	3001.5	3275.2	3654.6	3961.3	3638.1	3410.5	3219.1	3077.3	3074.1
67.5°	1906.4	1893.2	1909.7	1972.4	2101.0	2186.8	2180.2	2064.8	2048.2	2021.9	2051.5
70°	1606.3	1599.7	1570.0	1570.0	1596.4	1616.2	1639.3	1652.4	1678.8	1711.9	1708.5
72.5°	1302.8	1286.3	1266.6	1256.6	1289.7	1299.5	1329.2	1342.5	1365.5	1362.2	1391.9
75°	860.8	860.8	883.9	910.3	920.3	940.0	943.4	982.9	982.9	989.5	963.1
77.5°	481.5	468.4	484.8	511.2	534.3	570.7	606.9	636.6	653.1	646.4	646.4
80°	280.4	280.4	296.8	326.5	356.2	389.2	415.6	438.7	455.2	448.6	435.3
82.5°	174.8	174.8	191.3	221.0	244.1	263.9	300.1	329.8	349.6	343.0	326.5
85°	89.0	89.0	108.8	128.6	158.3	171.5	168.2	155.0	151.7	135.2	135.2
87.5°	23.1	23.1	33.0	36.3	29.7	33.0	33.0	33.0	33.0	33.0	36.3
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)