

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: P534287

Luminaire Tested: **GALN-SA9D-735-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-735-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42219 lumens
Efficiency: N/A
Efficacy: 76.5 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

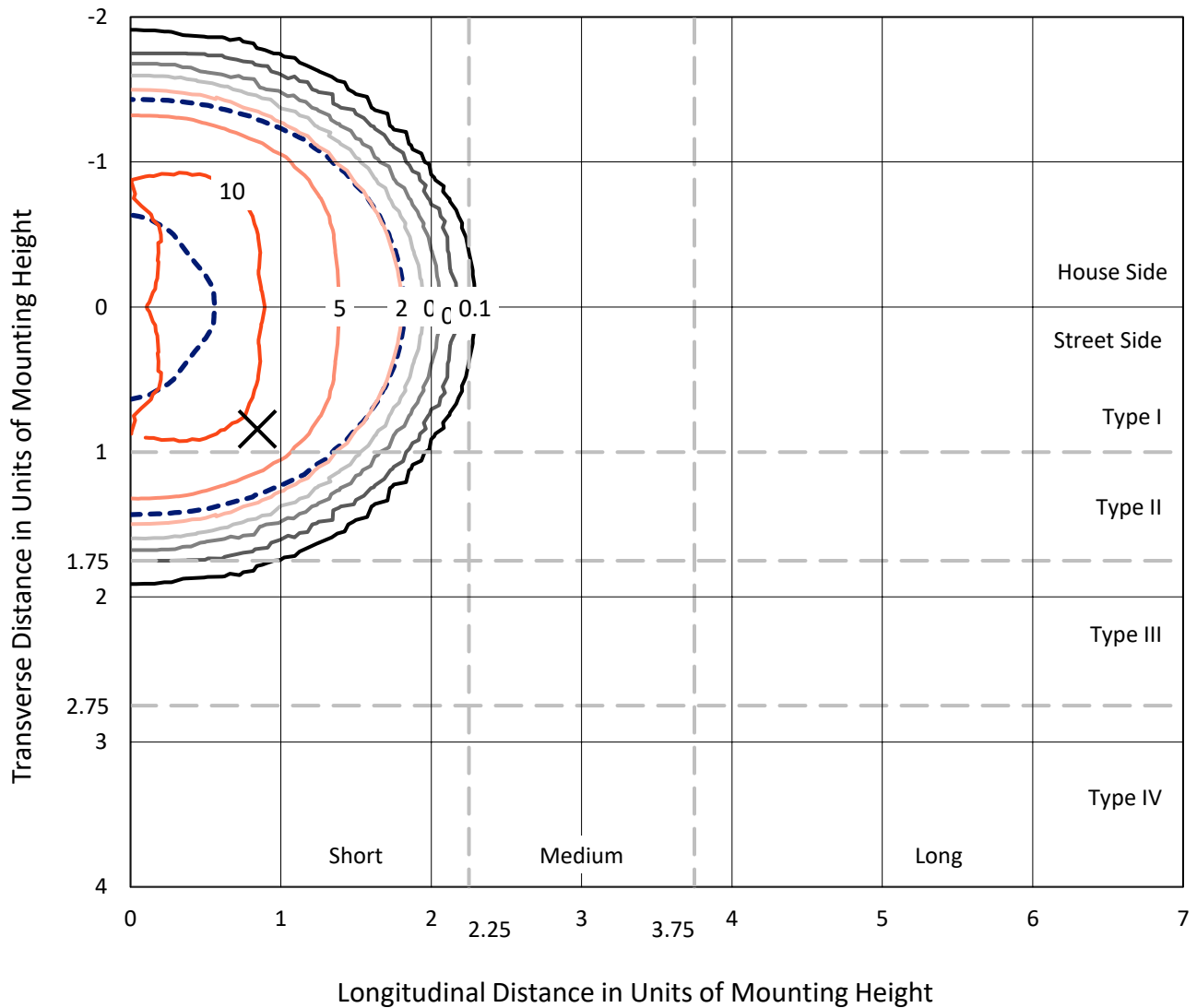
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

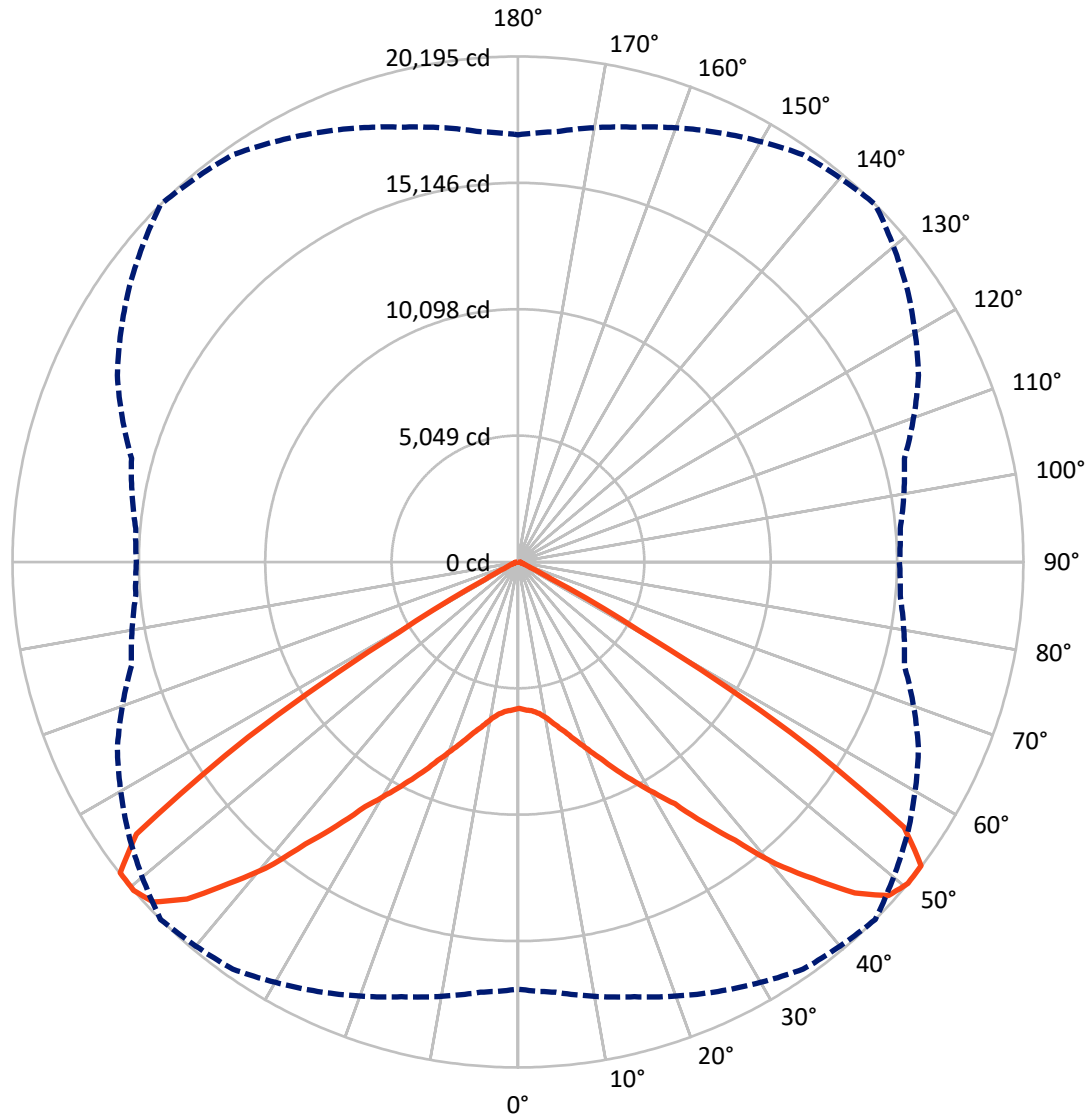
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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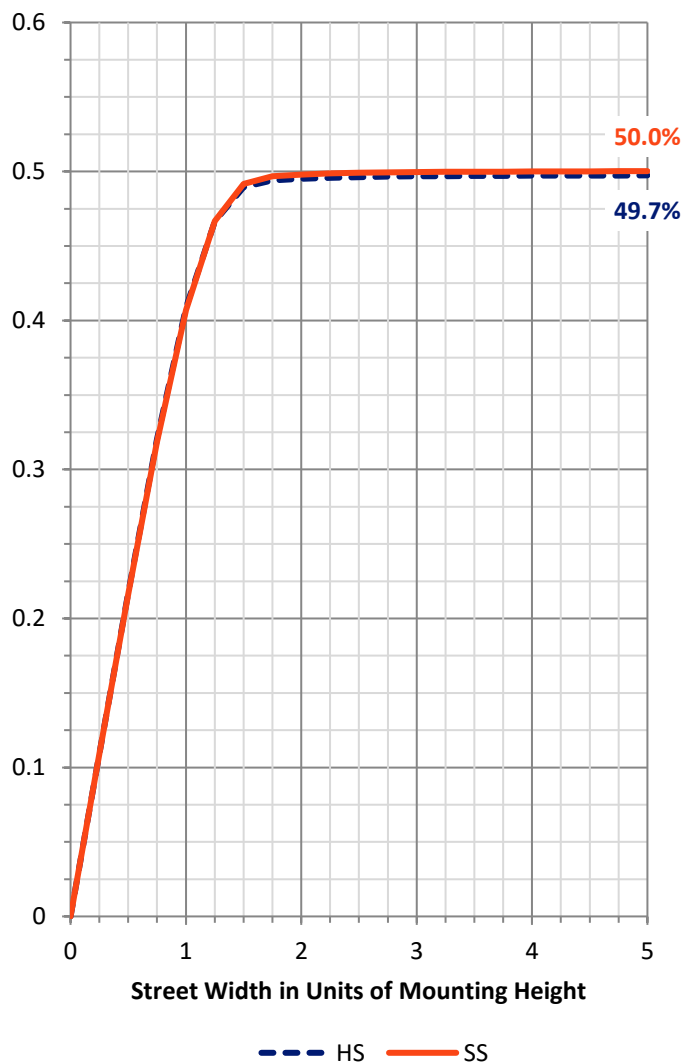
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21109.5	0.0	21109.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21109.5	0.0	21109.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	42219.0	0.0	42219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.3	1.4
10°-20°	2007.0	4.8
20°-30°	4099.0	9.7
30°-40°	7816.8	18.5
40°-50°	13172.4	31.2
50°-60°	12562.2	29.8
60°-70°	1753.6	4.2
70°-80°	167.7	0.4
80°-90°	57.9	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°	42219.0	100.0
0°-180°	42219.0	100.0

Coefficient of Utilization



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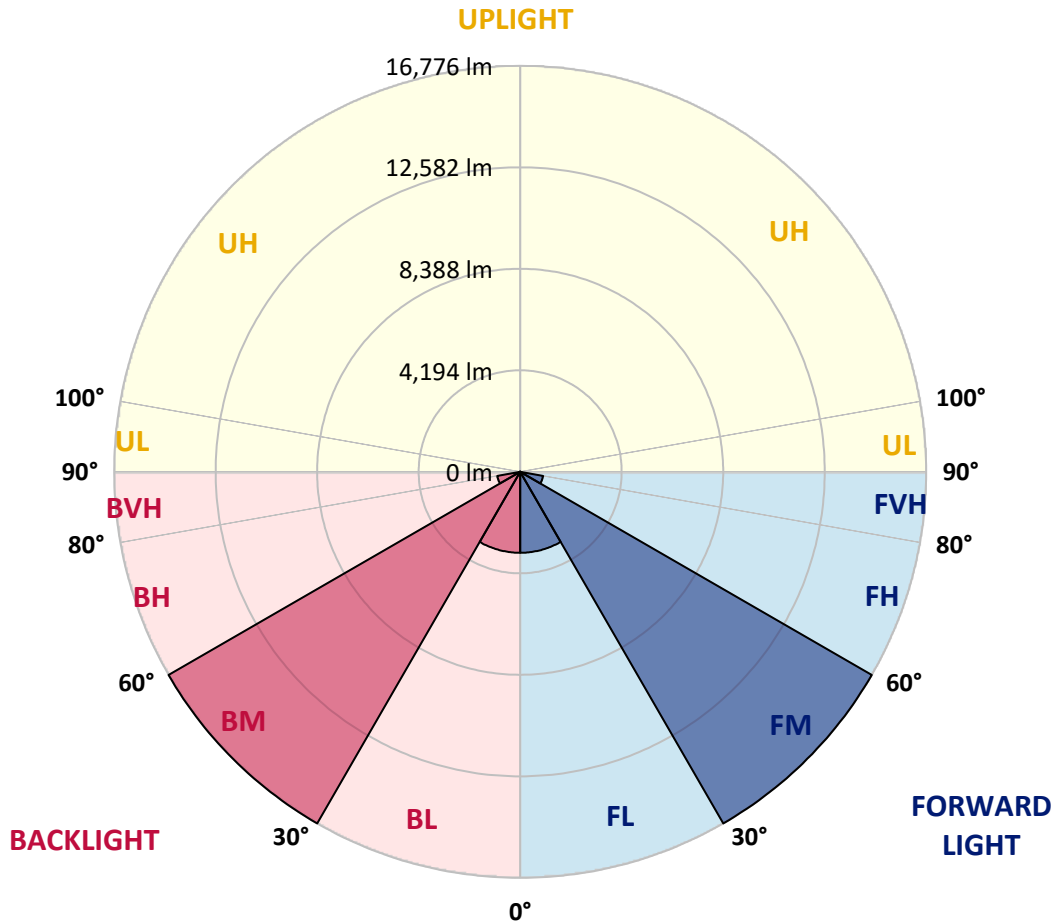
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3344.1	7.9			
FM (30°-60°)	16775.7	39.7			
FH (60°-80°)	960.7	2.3			G1/1800
FVH (80°-90°)	29.0	0.1			G1/100
BL (0°-30°)	3344.1	7.9	B4/5000		
BM (30°-60°)	16775.7	39.7	B5		
BH (60°-80°)	960.7	2.3	B2/1000		G1/1800
BVH (80°-90°)	29.0	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°	5853.2	5853.2	5853.2	5853.2	5853.2	5853.2	5853.2	5853.2	5853.2	5853.2	5853.2
2.5°	5831.9	5831.9	5824.8	5881.6	5853.2	5917.1	5910.0	5931.3	5952.6	5945.5	6002.4
5°	5782.2	5775.1	5775.1	5839.0	5902.9	5974.0	6037.9	6080.5	6151.5	6151.5	6222.6
7.5°	5831.9	5796.4	5846.1	5874.5	5995.3	6116.0	6222.6	6307.8	6471.2	6528.0	6506.7
10°	5846.1	5888.7	5924.2	6009.5	6158.6	6343.3	6435.7	6648.8	6833.5	6961.3	6989.7
12.5°	5938.4	6002.4	6101.8	6307.8	6442.8	6684.3	6812.2	7018.2	7273.9	7415.9	7515.4
15°	6116.0	6137.3	6265.2	6528.0	6819.3	7039.5	7238.4	7387.5	7636.2	7799.5	7806.6
17.5°	6343.3	6435.7	6613.3	6861.9	7167.3	7494.1	7650.4	7813.7	7906.1	8126.3	8176.0
20°	6798.0	6812.2	6982.6	7309.4	7693.0	7991.3	8105.0	8190.2	8154.7	8382.0	8424.6
22.5°	7224.2	7238.4	7451.5	7891.9	8303.9	8559.6	8609.3	8559.6	8453.0	8616.4	8630.6
25°	7657.5	7785.3	7941.6	8382.0	8893.5	9234.4	9241.5	9106.6	8886.4	8914.8	8985.8
27.5°	8332.3	8424.6	8588.0	8992.9	9554.1	9937.7	9873.7	9710.3	9426.2	9447.5	9426.2
30°	9120.8	9206.0	9341.0	9859.5	10271.5	10690.6	10783.0	10626.7	10200.5	10108.1	10214.7
32.5°	10072.6	10193.4	10442.0	10917.9	11266.0	11521.7	11585.6	11528.8	11131.0	11095.5	11166.5
35°	11230.5	11393.9	11621.2	12040.3	12324.4	12786.1	12786.1	12594.3	12232.1	12274.7	12267.6
37.5°	12452.3	12693.8	13048.9	13475.1	13858.7	14107.3	14029.2	13865.8	13503.6	13411.2	13503.6
40°	13986.6	14107.3	14554.9	15108.9	15577.8	15861.9	15528.0	15172.9	14306.2	14441.2	14689.8
42.5°	15386.0	15577.8	15918.7	16529.6	17062.4	17296.8	16899.0	16195.7	15151.5	15045.0	15229.7
45°	16579.3	16785.3	17232.8	18106.6	18667.7	18873.7	17992.9	16856.4	15663.0	15393.1	15471.2
47.5°	17374.9	17481.5	18106.6	18937.7	19449.1	19917.9	18653.5	17311.0	15904.5	15393.1	15364.6
50°	17069.5	17254.2	17985.8	18930.6	19861.1	20195.0	18987.4	17659.0	15982.6	15329.1	15243.9
52.5°	15158.7	15478.3	16295.2	17566.7	18973.2	20166.5	19449.1	17545.4	15954.2	15393.1	15520.9
55°	10548.5	10555.6	11550.1	13425.4	15911.6	18724.6	18774.3	17673.3	16138.9	15790.9	15798.0
57.5°	4240.7	4453.8	5213.9	7096.3	9390.7	12857.2	15286.5	16394.6	16160.2	16075.0	16295.2
60°	1072.6	1079.7	1314.1	2003.2	3303.1	5512.2	8005.5	10832.7	12473.6	13034.7	13112.9
62.5°	547.0	554.1	610.9	710.3	902.1	1477.5	2628.3	4169.7	5931.3	6826.4	7060.8
65°	447.5	447.5	483.0	532.8	539.9	568.3	681.9	973.2	1413.6	1605.4	1626.7
67.5°	341.0	341.0	369.4	397.8	412.0	404.9	390.7	404.9	490.1	468.8	454.6
70°	213.1	220.2	234.4	262.8	277.0	284.1	291.2	305.4	348.1	362.3	348.1
72.5°	127.9	127.9	135.0	156.3	177.6	191.8	213.1	227.3	248.6	284.1	277.0
75°	56.8	56.8	71.0	92.3	113.7	135.0	156.3	177.6	191.8	213.1	220.2
77.5°	14.2	21.3	35.5	63.9	85.2	113.7	142.1	163.4	177.6	177.6	170.5
80°	7.1	7.1	28.4	49.7	92.3	120.8	156.3	170.5	191.8	177.6	156.3
82.5°	7.1	7.1	28.4	49.7	85.2	120.8	163.4	184.7	198.9	177.6	149.2
85°	0.0	7.1	21.3	42.6	71.0	85.2	71.0	49.7	28.4	28.4	21.3
87.5°	0.0	0.0	7.1	7.1	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)