

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: P533377

Luminaire Tested: **GALN-SA8D-740-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533377
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-SA8D-740-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 40370 lumens
Efficiency: N/A
Efficacy: 81.9 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

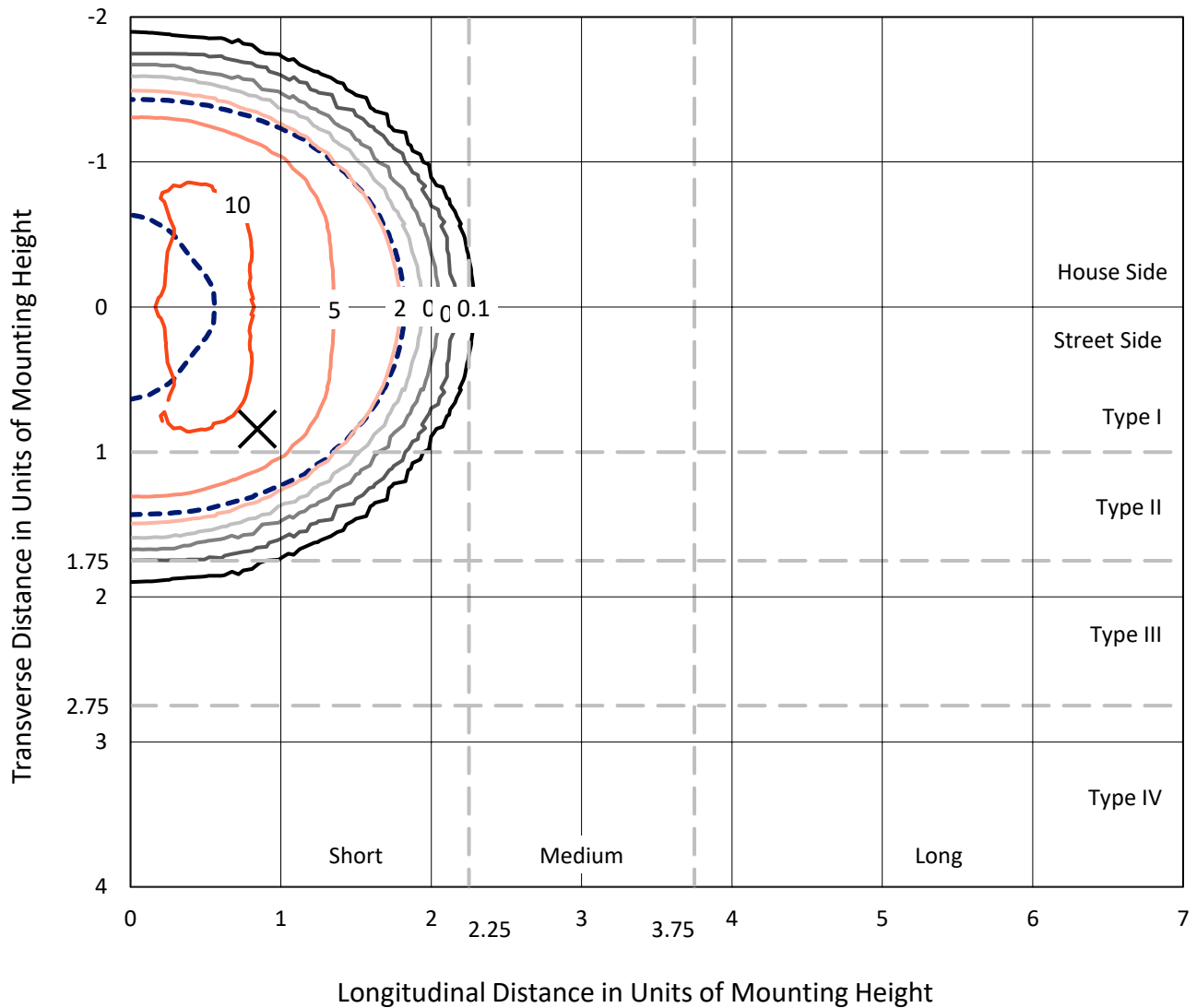
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

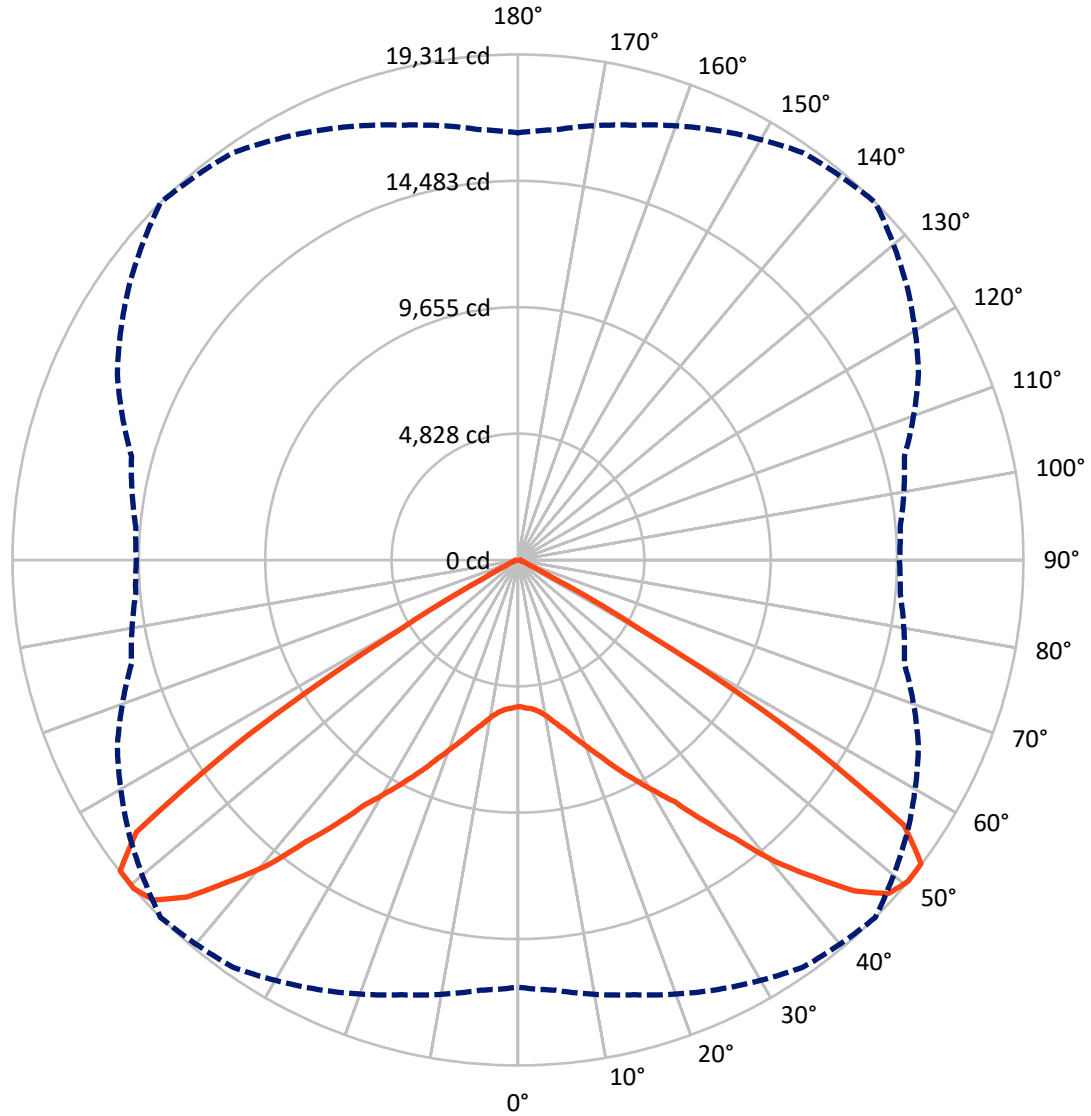
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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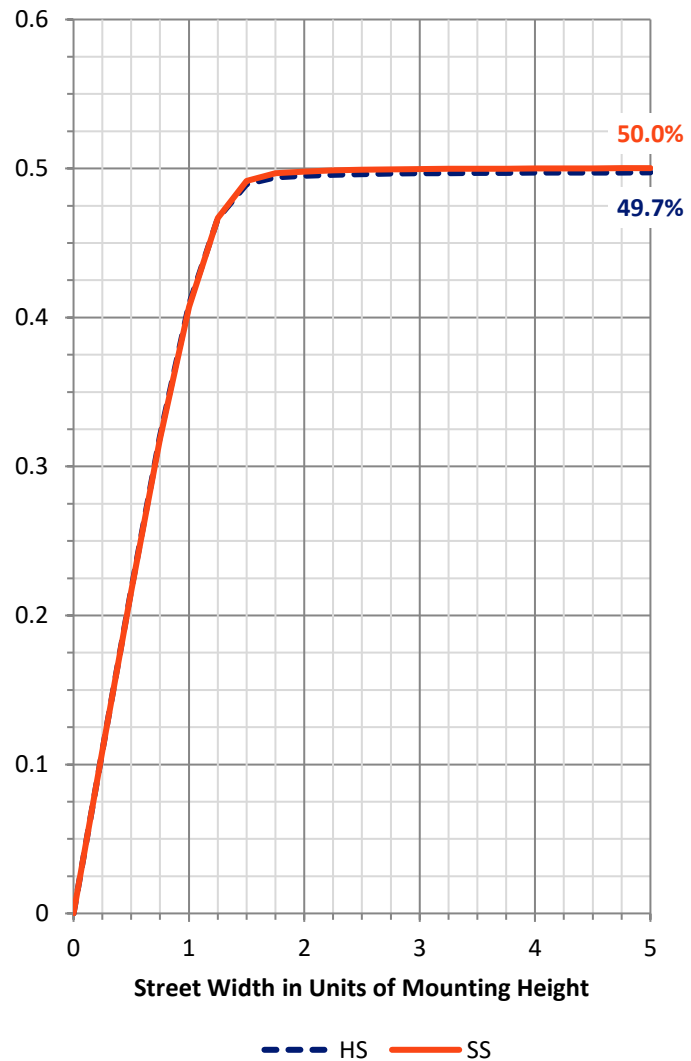
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20185.0	0.0	20185.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20185.0	0.0	20185.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40370.0	0.0	40370.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.8	1.4
10°-20°	1919.1	4.8
20°-30°	3919.5	9.7
30°-40°	7474.4	18.5
40°-50°	12595.5	31.2
50°-60°	12012.1	29.8
60°-70°	1676.8	4.2
70°-80°	160.4	0.4
80°-90°	55.4	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°	40370.0	100.0
0°-180°	40370.0	100.0



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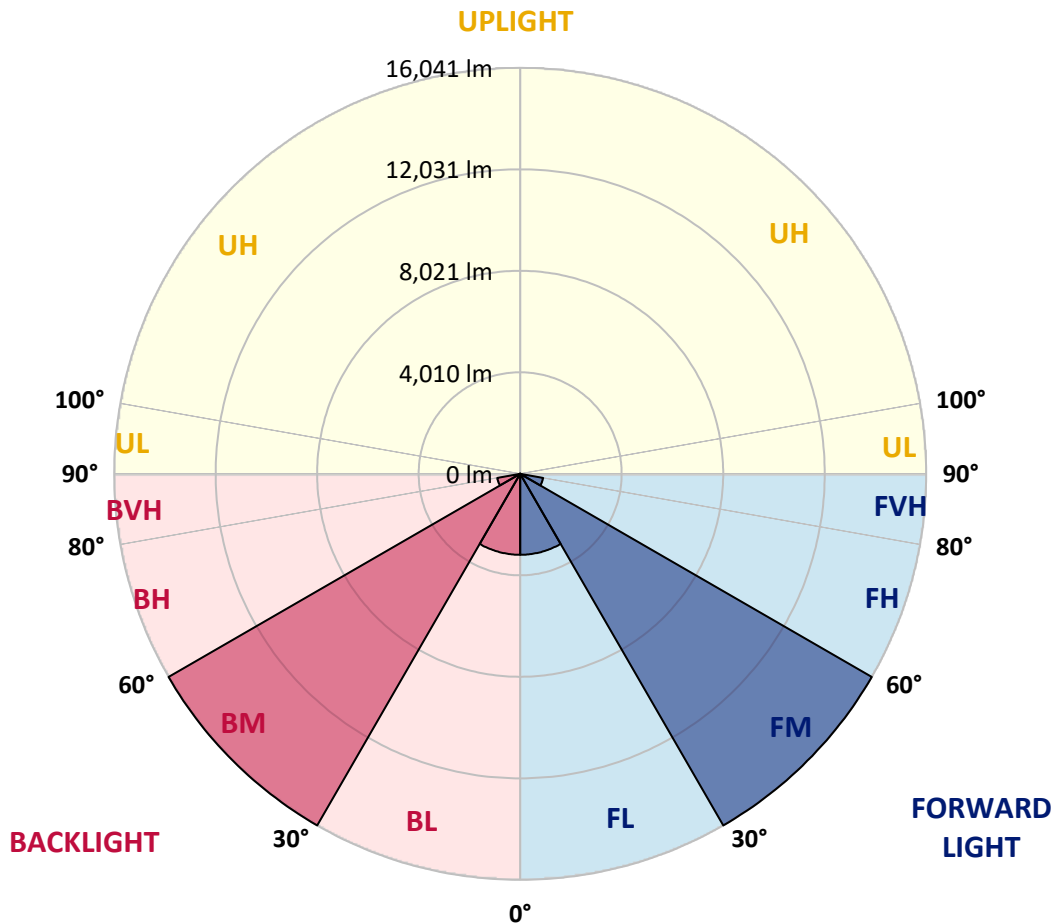
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3197.7	7.9			
FM (30°-60°)	16041.0	39.7			
FH (60°-80°)	918.6	2.3			G1/1800
FVH (80°-90°)	27.7	0.1			G1/100
BL (0°-30°)	3197.7	7.9	B4/5000		
BM (30°-60°)	16041.0	39.7	B5		
BH (60°-80°)	918.6	2.3	B2/1000		G1/1800
BVH (80°-90°)	27.7	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°	5596.9	5596.9	5596.9	5596.9	5596.9	5596.9	5596.9	5596.9	5596.9	5596.9	5596.9
2.5°	5576.5	5576.5	5569.7	5624.0	5596.9	5658.0	5651.2	5671.6	5691.9	5685.2	5739.5
5°	5528.9	5522.1	5522.1	5583.3	5644.4	5712.3	5773.5	5814.2	5882.1	5882.1	5950.1
7.5°	5576.5	5542.5	5590.1	5617.2	5732.7	5848.2	5950.1	6031.6	6187.8	6242.1	6221.7
10°	5590.1	5630.8	5664.8	5746.3	5888.9	6065.5	6153.8	6357.6	6534.2	6656.5	6683.6
12.5°	5678.4	5739.5	5834.6	6031.6	6160.6	6391.6	6513.8	6710.8	6955.3	7091.2	7186.3
15°	5848.2	5868.5	5990.8	6242.1	6520.6	6731.2	6921.4	7064.0	7301.7	7457.9	7464.7
17.5°	6065.5	6153.8	6323.6	6561.4	6853.4	7165.9	7315.3	7471.5	7559.8	7770.4	7817.9
20°	6500.2	6513.8	6676.8	6989.3	7356.1	7641.3	7750.0	7831.5	7797.6	8014.9	8055.7
22.5°	6907.8	6921.4	7125.1	7546.2	7940.2	8184.7	8232.3	8184.7	8082.8	8239.1	8252.6
25°	7322.1	7444.4	7593.8	8014.9	8504.0	8830.0	8836.8	8707.7	8497.2	8524.3	8592.3
27.5°	7967.4	8055.7	8211.9	8599.1	9135.6	9502.4	9441.3	9285.1	9013.4	9033.8	9013.4
30°	8721.3	8802.8	8931.9	9427.7	9821.7	10222.4	10310.7	10161.3	9753.7	9665.4	9767.3
32.5°	9631.5	9747.0	9984.7	10439.8	10772.6	11017.1	11078.2	11023.9	10643.5	10609.6	10677.5
35°	10738.6	10894.9	11112.2	11513.0	11784.6	12226.1	12226.1	12042.8	11696.3	11737.1	11730.3
37.5°	11906.9	12137.8	12477.5	12885.0	13251.8	13489.5	13414.8	13258.6	12912.2	12823.9	12912.2
40°	13374.0	13489.5	13917.4	14447.2	14895.5	15167.2	14848.0	14508.4	13679.7	13808.7	14046.5
42.5°	14712.1	14895.5	15221.5	15805.7	16315.1	16539.3	16158.9	15486.4	14488.0	14386.1	14562.7
45°	15853.2	16050.2	16478.1	17313.6	17850.2	18047.1	17204.9	16118.1	14977.0	14718.9	14793.6
47.5°	16614.0	16715.9	17313.6	18108.3	18597.3	19045.6	17836.6	16552.8	15208.0	14718.9	14691.7
50°	16321.9	16498.5	17198.1	18101.5	18991.3	19310.5	18155.8	16885.7	15282.7	14657.8	14576.3
52.5°	14494.8	14800.4	15581.5	16797.4	18142.2	19283.3	18597.3	16777.0	15255.5	14718.9	14841.2
55°	10086.6	10093.4	11044.3	12837.4	15214.8	17904.5	17952.1	16899.2	15432.1	15099.3	15106.1
57.5°	4055.0	4258.8	4985.5	6785.5	8979.4	12294.1	14617.0	15676.6	15452.5	15371.0	15581.5
60°	1025.6	1032.4	1256.6	1915.4	3158.4	5270.8	7654.9	10358.3	11927.3	12463.9	12538.6
62.5°	523.0	529.8	584.1	679.2	862.6	1412.8	2513.2	3987.1	5671.6	6527.4	6751.5
65°	427.9	427.9	461.9	509.4	516.2	543.4	652.1	930.5	1351.7	1535.1	1555.4
67.5°	326.0	326.0	353.2	380.4	394.0	387.2	373.6	387.2	468.7	448.3	434.7
70°	203.8	210.6	224.1	251.3	264.9	271.7	278.5	292.1	332.8	346.4	332.8
72.5°	122.3	122.3	129.1	149.4	169.8	183.4	203.8	217.4	237.7	271.7	264.9
75°	54.3	54.3	67.9	88.3	108.7	129.1	149.4	169.8	183.4	203.8	210.6
77.5°	13.6	20.4	34.0	61.1	81.5	108.7	135.8	156.2	169.8	169.8	163.0
80°	6.8	6.8	27.2	47.5	88.3	115.5	149.4	163.0	183.4	169.8	149.4
82.5°	6.8	6.8	27.2	47.5	81.5	115.5	156.2	176.6	190.2	169.8	142.6
85°	0.0	6.8	20.4	40.8	67.9	81.5	67.9	47.5	27.2	27.2	20.4
87.5°	0.0	0.0	6.8	6.8	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)