

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: P651501

Luminaire Tested: **GALN-SA7D-840-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651501
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-SA7D-840-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 29284.5 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

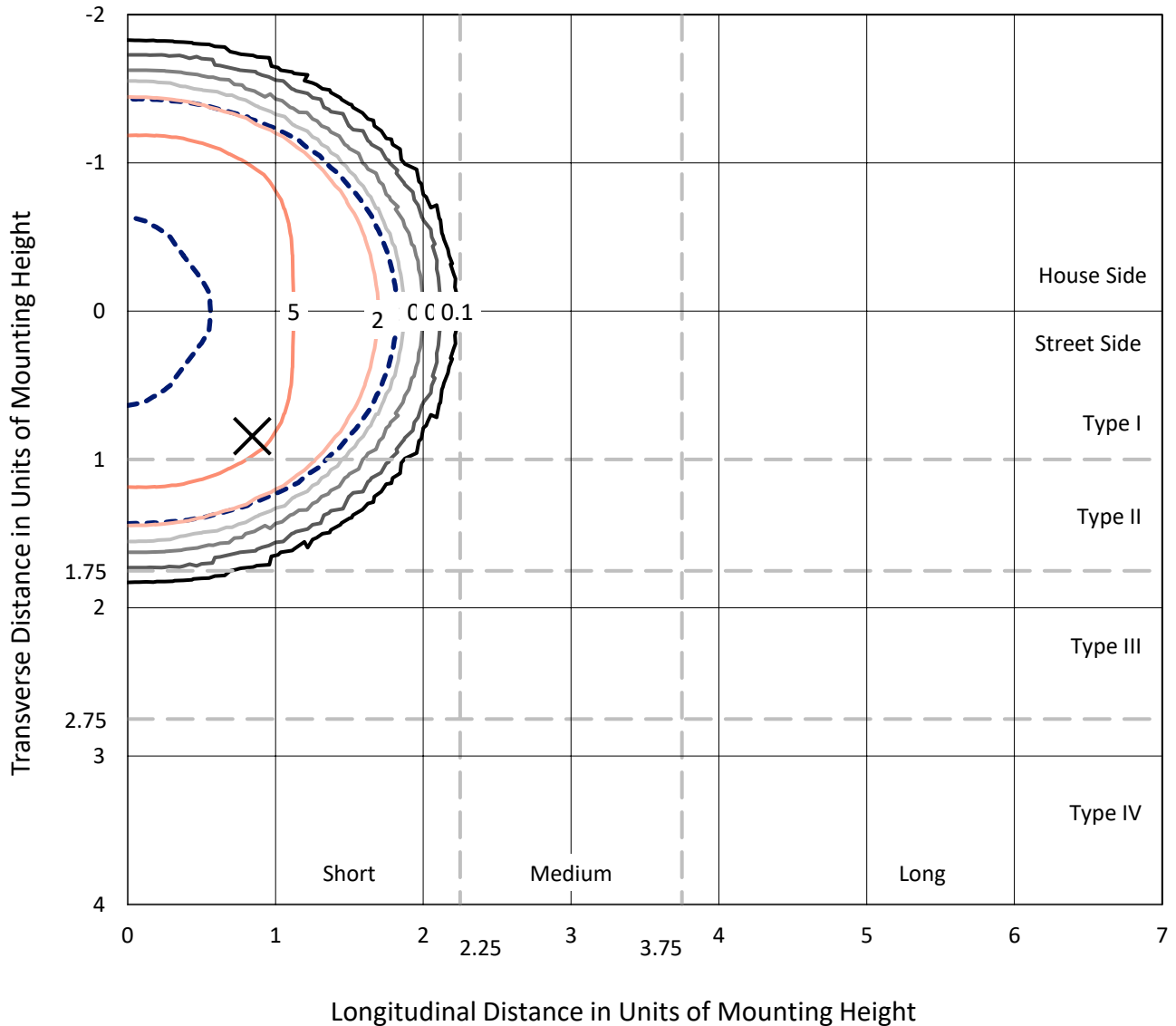
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

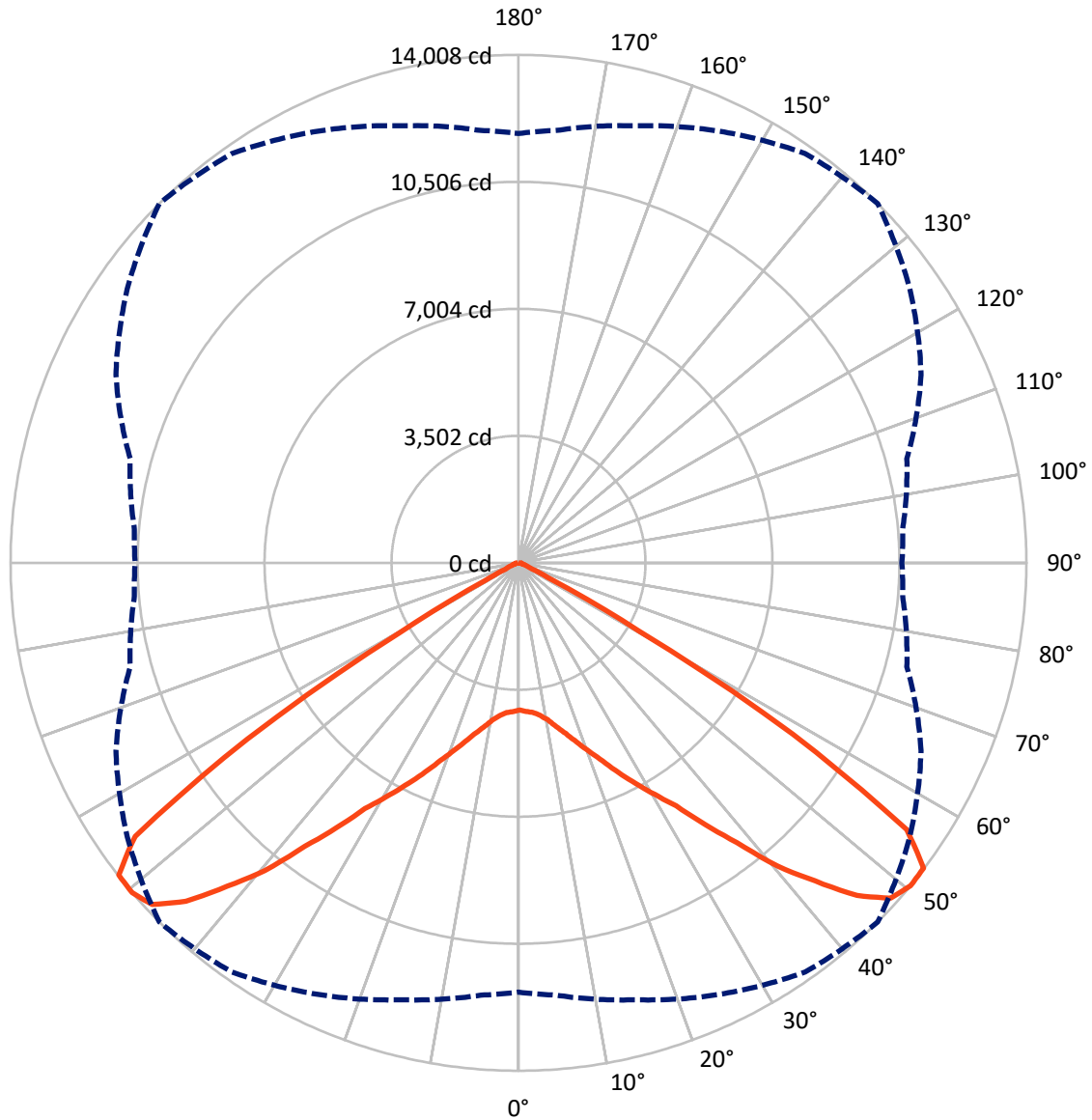
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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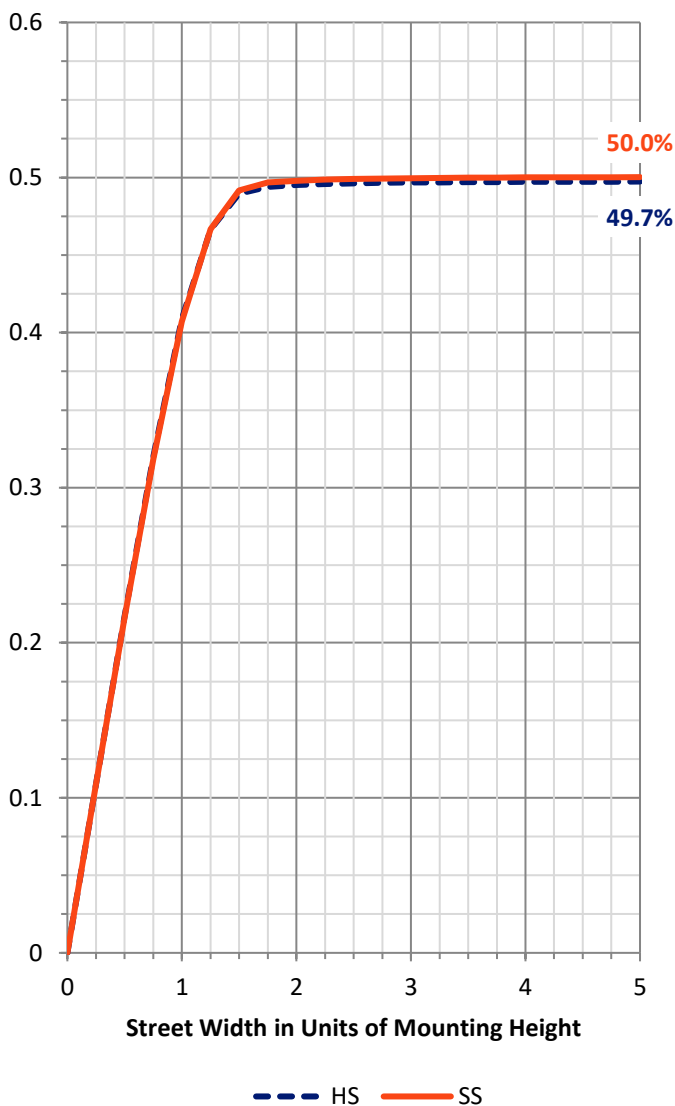
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14642.2	0.0	14642.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14642.2	0.0	14642.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	29284.5	0.0	29284.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.9	1.4
10°-20°	1392.1	4.8
20°-30°	2843.2	9.7
30°-40°	5422.0	18.5
40°-50°	9136.8	31.2
50°-60°	8713.6	29.8
60°-70°	1216.4	4.2
70°-80°	116.3	0.4
80°-90°	40.2	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°	29284.5	100.0
0°-180°	29284.5	100.0

Coefficient of Utilization



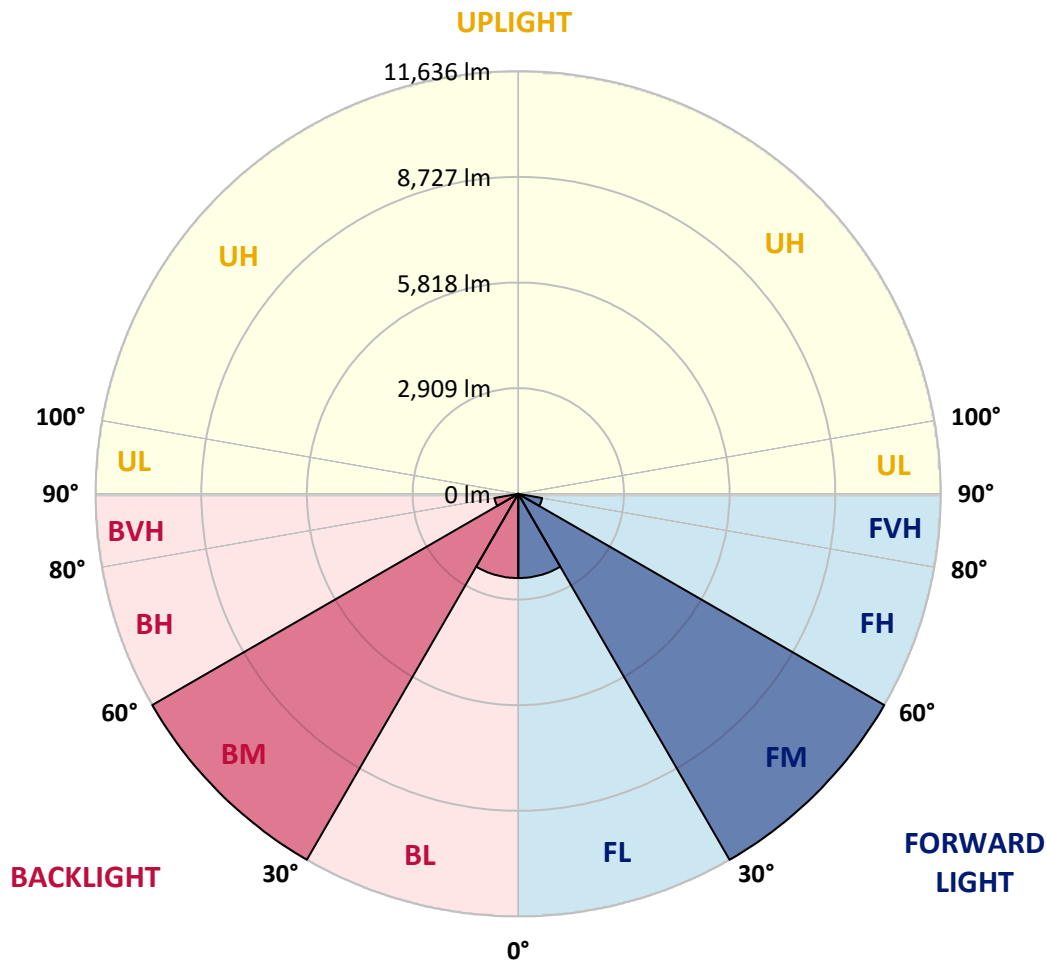
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2319.6	7.9			
FM (30°-60°)	11636.2	39.7			
FH (60°-80°)	666.3	2.3			G1/1800
FVH (80°-90°)	20.1	0.1			G1/100
BL (0°-30°)	2319.6	7.9	B3/2500		
BM (30°-60°)	11636.2	39.7	B5		
BH (60°-80°)	666.3	2.3	B2/1000		G1/1800
BVH (80°-90°)	20.1	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°	4059.9	4059.9	4059.9	4059.9	4059.9	4059.9	4059.9	4059.9	4059.9	4059.9	4059.9
2.5°	4045.2	4045.2	4040.2	4079.7	4059.9	4104.3	4099.4	4114.2	4129.0	4124.0	4163.5
5°	4010.7	4005.8	4005.8	4050.1	4094.5	4143.7	4188.1	4217.6	4266.9	4266.9	4316.2
7.5°	4045.2	4020.6	4055.0	4074.7	4158.5	4242.3	4316.2	4375.3	4488.7	4528.0	4513.2
10°	4055.0	4084.6	4109.2	4168.3	4271.9	4399.9	4464.0	4611.8	4739.9	4828.6	4848.3
12.5°	4119.1	4163.5	4232.4	4375.3	4468.9	4636.4	4725.2	4868.0	5045.4	5144.0	5212.9
15°	4242.3	4257.1	4345.8	4528.0	4730.0	4882.8	5020.8	5124.2	5296.7	5410.0	5414.9
17.5°	4399.9	4464.0	4587.2	4759.6	4971.5	5198.1	5306.5	5419.8	5483.9	5636.6	5671.1
20°	4715.3	4725.2	4843.4	5070.1	5336.1	5543.0	5621.8	5681.0	5656.4	5814.0	5843.6
22.5°	5010.9	5020.8	5168.6	5474.1	5759.8	5937.2	5971.7	5937.2	5863.3	5976.7	5986.5
25°	5311.5	5400.1	5508.6	5814.0	6168.8	6405.3	6410.2	6316.6	6163.9	6183.5	6232.8
27.5°	5779.5	5843.6	5956.9	6237.8	6627.0	6893.1	6848.8	6735.4	6538.4	6553.1	6538.4
30°	6326.4	6385.5	6479.2	6838.8	7124.6	7415.3	7479.4	7371.0	7075.4	7011.3	7085.3
32.5°	6986.7	7070.5	7242.9	7573.0	7814.5	7991.9	8036.2	7996.7	7720.8	7696.2	7745.4
35°	7789.8	7903.1	8060.8	8351.6	8548.6	8868.8	8868.8	8735.8	8484.5	8514.1	8509.2
37.5°	8637.3	8804.8	9051.2	9346.8	9612.9	9785.3	9731.1	9617.8	9366.5	9302.5	9366.5
40°	9701.5	9785.3	10095.7	10480.0	10805.3	11002.3	10770.8	10524.4	9923.3	10016.9	10189.3
42.5°	10672.2	10805.3	11041.7	11465.4	11835.0	11997.6	11721.7	11233.9	10509.6	10435.7	10563.8
45°	11499.9	11642.9	11953.2	12559.3	12948.5	13091.4	12480.4	11692.1	10864.4	10677.1	10731.3
47.5°	12051.8	12125.7	12559.3	13135.7	13490.6	13815.7	12938.7	12007.5	11031.9	10677.1	10657.4
50°	11839.9	11968.0	12475.6	13130.9	13776.3	14007.9	13170.2	12248.9	11086.1	10632.8	10573.6
52.5°	10514.5	10736.3	11302.9	12184.8	13160.4	13988.2	13490.6	12170.0	11066.4	10677.1	10765.8
55°	7316.8	7321.7	8011.5	9312.3	11036.8	12988.0	13022.5	12258.8	11194.5	10953.0	10958.0
57.5°	2941.5	3089.3	3616.6	4922.2	6513.7	8918.1	10603.2	11371.8	11209.3	11150.1	11302.9
60°	744.0	748.9	911.6	1389.4	2291.1	3823.4	5552.9	7513.9	8652.0	9041.3	9095.5
62.5°	379.4	384.3	423.7	492.7	625.8	1024.8	1823.0	2892.2	4114.2	4735.0	4897.6
65°	310.4	310.4	335.1	369.5	374.5	394.2	473.0	675.0	980.5	1113.6	1128.3
67.5°	236.5	236.5	256.3	275.9	285.8	280.8	271.0	280.8	339.9	325.2	315.4
70°	147.8	152.7	162.6	182.3	192.2	197.0	202.0	211.8	241.5	251.3	241.5
72.5°	88.7	88.7	93.6	108.4	123.2	133.0	147.8	157.7	172.5	197.0	192.2
75°	39.4	39.4	49.3	64.1	78.8	93.6	108.4	123.2	133.0	147.8	152.7
77.5°	9.8	14.8	24.6	44.3	59.1	78.8	98.6	113.3	123.2	123.2	118.2
80°	5.0	5.0	19.7	34.5	64.1	83.8	108.4	118.2	133.0	123.2	108.4
82.5°	5.0	5.0	19.7	34.5	59.1	83.8	113.3	128.1	137.9	123.2	103.4
85°	0.0	5.0	14.8	29.6	49.3	59.1	49.3	34.5	19.7	19.7	14.8
87.5°	0.0	0.0	5.0	5.0	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)