

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: P534413

Luminaire Tested: **GALN-SA9D-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29069 lumens
Efficiency: N/A
Efficacy: 52.7 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

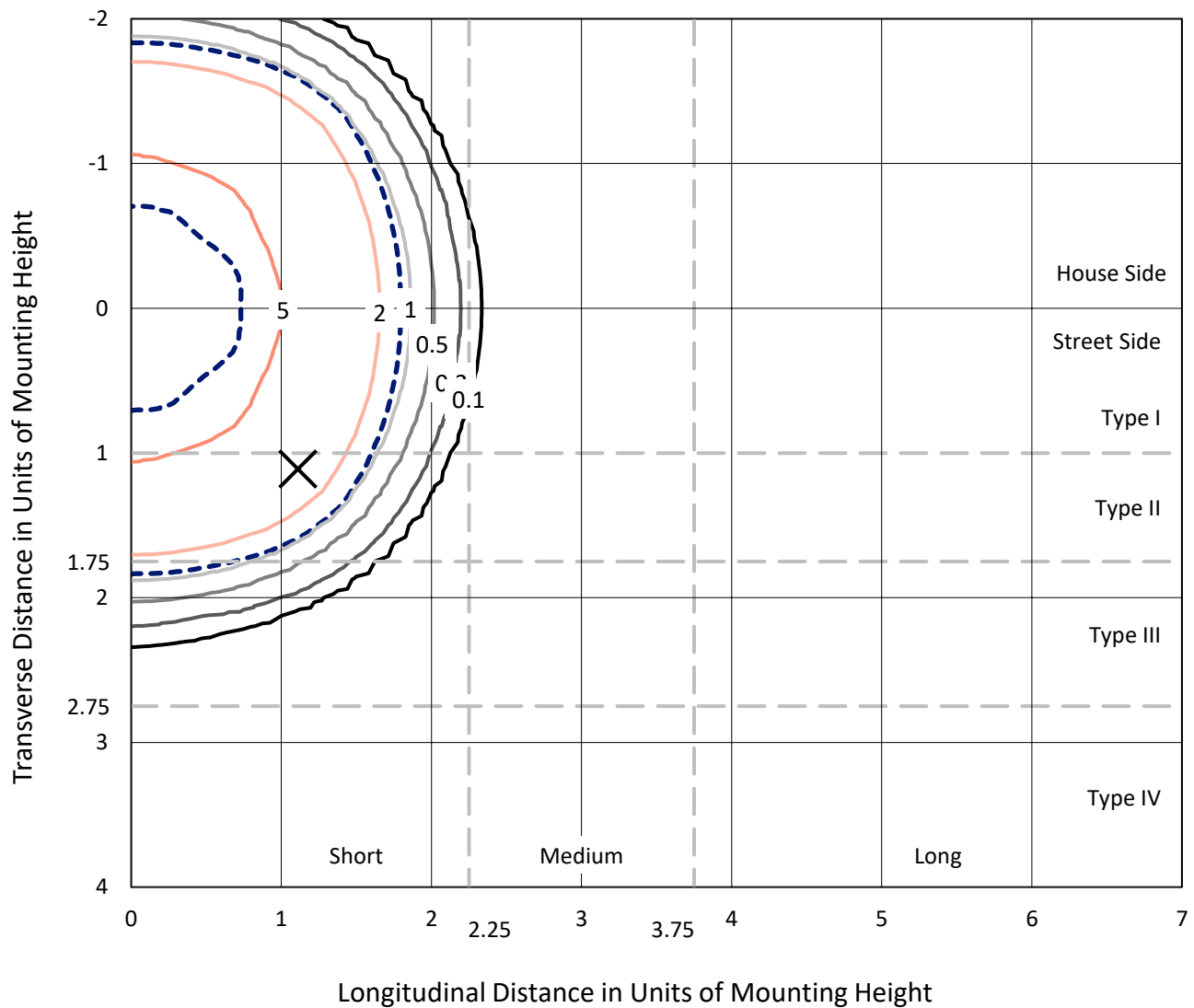


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

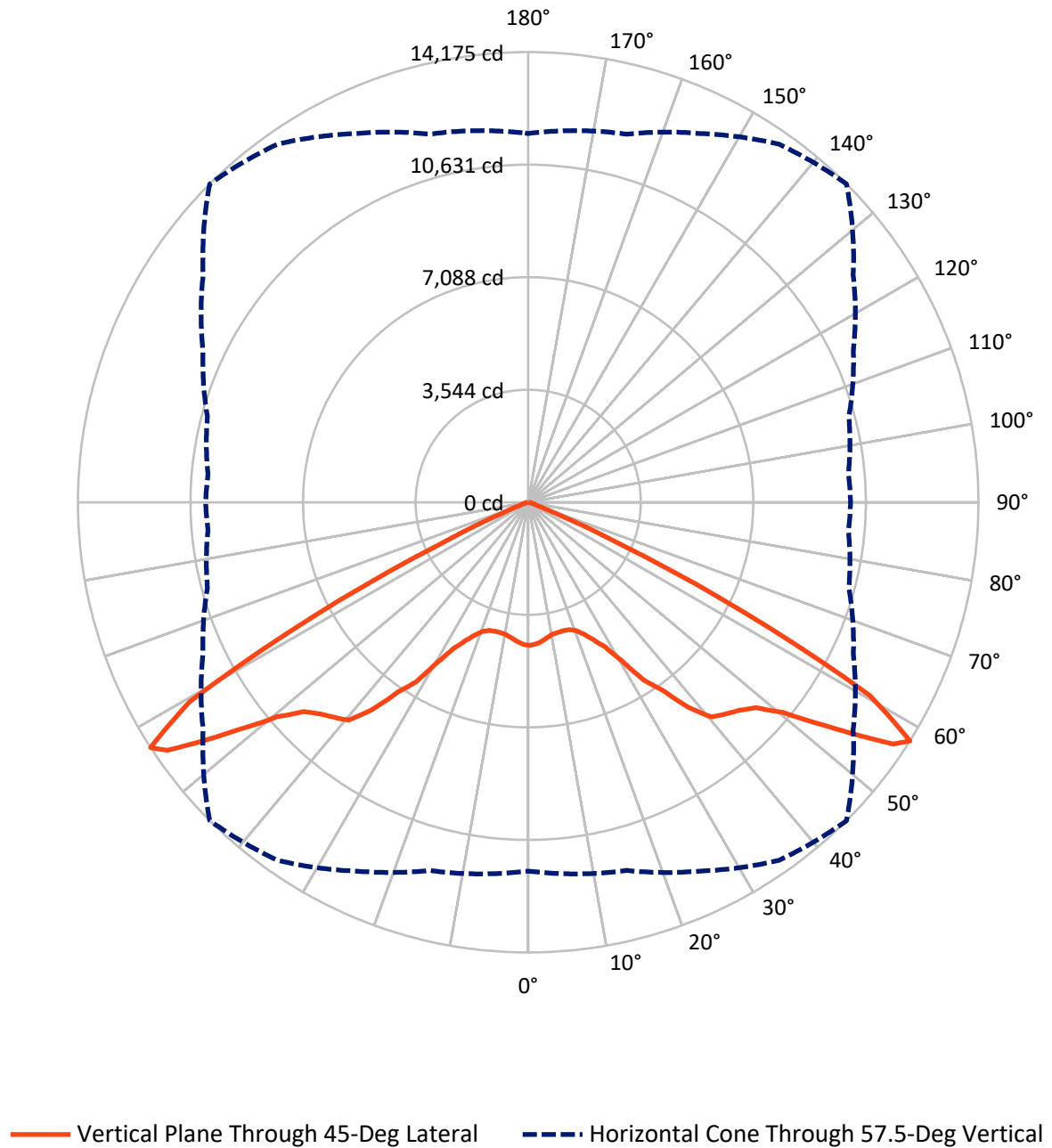


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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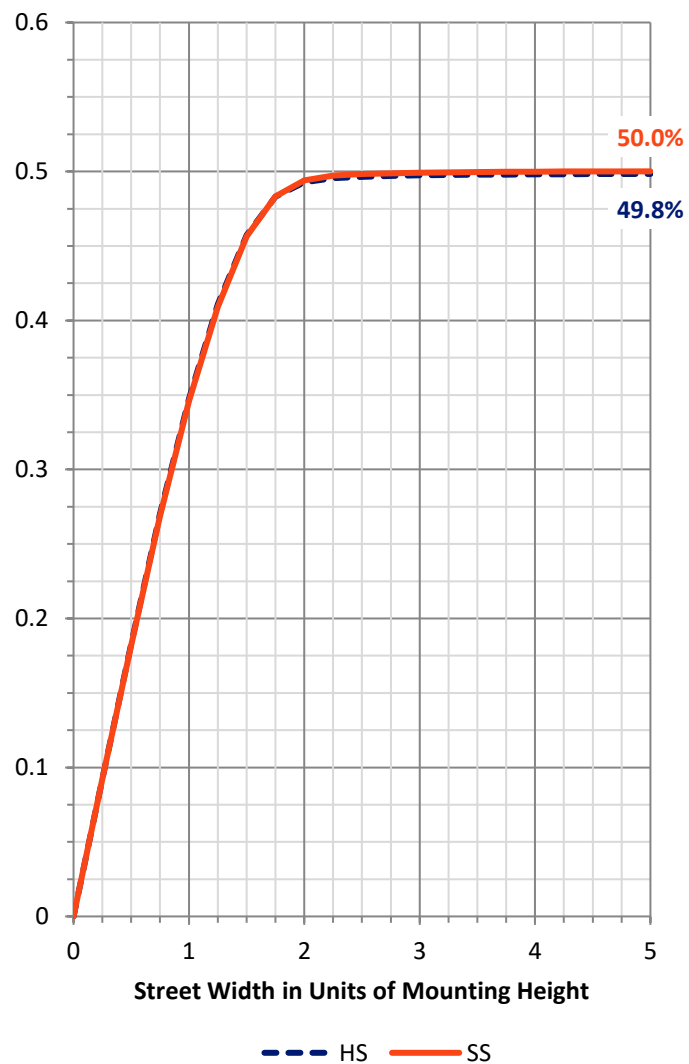
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14534.5	0.0	14534.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14534.5	0.0	14534.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29069.0	0.0	29069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.3	1.4
10°-20°	1197.7	4.1
20°-30°	2210.7	7.6
30°-40°	4347.6	15.0
40°-50°	7081.1	24.4
50°-60°	10098.5	34.7
60°-70°	3496.4	12.0
70°-80°	187.6	0.6
80°-90°	35.2	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°	29069.0	100.0
0°-180°	29069.0	100.0

Coefficient of Utilization



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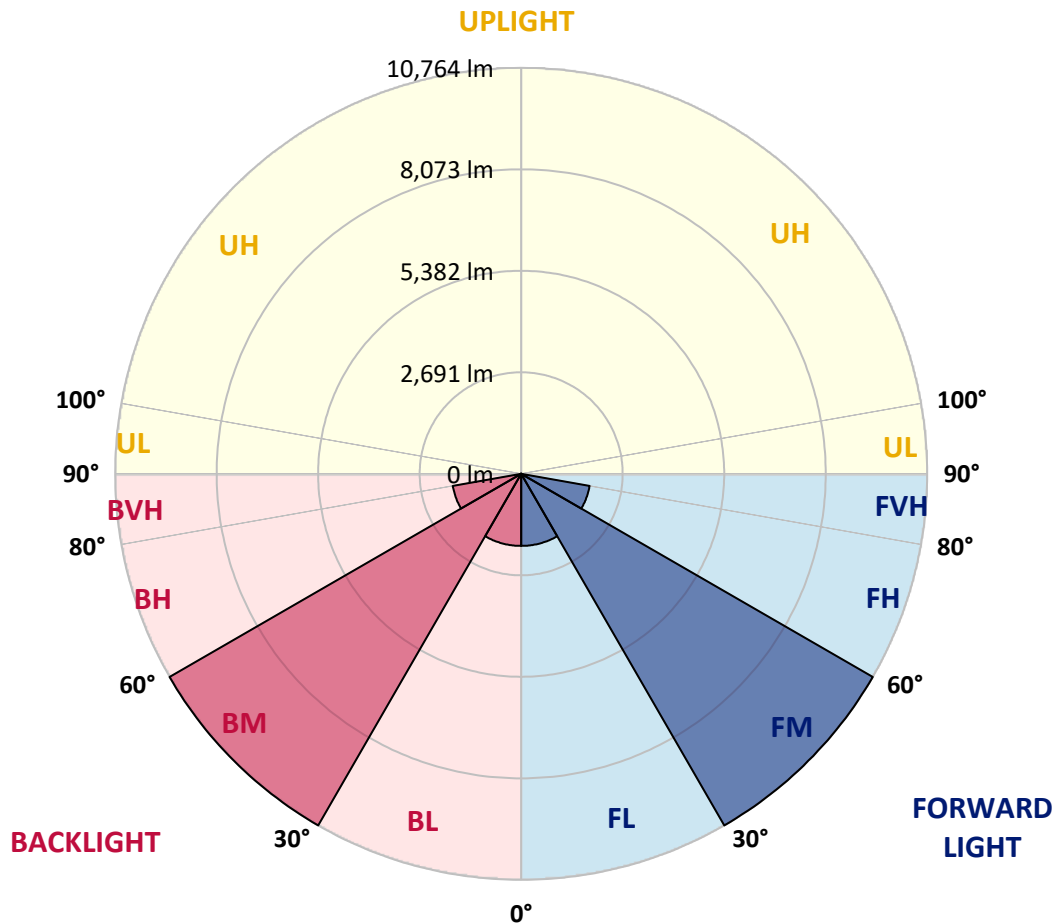
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1911.3	6.6			
FM	(30°-60°)	10763.6	37.0			
FH	(60°-80°)	1842.0	6.3			G2/5000
FVH	(80°-90°)	17.6	0.1			G1/100
BL	(0°-30°)	1911.3	6.6	B3/2500		
BM	(30°-60°)	10763.6	37.0	B5		
BH	(60°-80°)	1842.0	6.3	B3/2500		G2/5000
BVH	(80°-90°)	17.6	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-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9	4508.9
2.5°	4496.8	4521.0	4490.7	4478.6	4472.5	4472.5	4454.4	4454.4	4448.3	4454.4	4430.1
5°	4424.1	4448.3	4448.3	4442.2	4405.9	4399.8	4381.6	4369.5	4375.6	4351.3	4369.5
7.5°	4351.3	4369.5	4345.3	4339.2	4327.1	4302.9	4296.8	4242.3	4248.3	4248.3	4260.4
10°	4339.2	4333.2	4296.8	4266.5	4230.1	4224.1	4205.9	4193.8	4193.8	4187.7	4205.9
12.5°	4339.2	4308.9	4302.9	4236.2	4175.6	4199.8	4151.3	4121.0	4163.5	4175.6	4199.8
15°	4333.2	4363.5	4260.4	4230.1	4187.7	4193.8	4151.3	4121.0	4145.3	4157.4	4175.6
17.5°	4369.5	4351.3	4321.0	4260.4	4242.3	4218.0	4163.5	4139.2	4139.2	4169.5	4175.6
20°	4466.5	4418.0	4357.4	4327.1	4345.3	4315.0	4248.3	4157.4	4181.6	4205.9	4224.1
22.5°	4557.4	4521.0	4478.6	4460.4	4563.4	4515.0	4399.8	4296.8	4260.4	4302.9	4333.2
25°	4733.1	4733.1	4654.4	4678.6	4793.7	4799.8	4666.5	4484.7	4460.4	4478.6	4490.7
27.5°	5090.7	5108.9	5042.2	5066.5	5114.9	5157.4	5042.2	4890.7	4836.2	4830.1	4848.3
30°	5478.6	5514.9	5508.9	5611.9	5751.3	5775.5	5605.8	5357.4	5193.7	5163.4	5187.7
32.5°	5987.6	6005.8	5993.7	6114.9	6490.6	6666.4	6224.0	5872.5	5654.3	5708.9	5654.3
35°	6945.2	6927.0	6793.7	6817.9	7127.0	7254.2	6830.0	6605.8	6502.8	6611.9	6587.6
37.5°	7769.4	7702.7	7593.6	7751.2	8072.4	8187.5	7745.1	7351.2	7163.3	7345.2	7423.9
40°	8466.3	8296.6	8145.1	8302.7	8733.0	8890.5	8242.1	7920.9	7848.2	7981.5	8151.2
42.5°	9054.2	8945.1	8745.1	8757.2	9042.1	9114.8	8593.6	8405.7	8333.0	8545.1	8629.9
45°	9472.3	9369.3	9181.4	9169.3	9387.5	9339.0	8872.4	8745.1	8787.5	8926.9	8969.3
47.5°	9684.5	9739.0	9629.9	9660.2	9775.4	9660.2	9290.5	9290.5	9193.6	9278.4	9236.0
50°	10296.5	10126.9	10266.2	10266.2	10387.5	10399.6	10029.9	9896.6	9636.0	9490.5	9490.5
52.5°	11011.7	11023.8	11078.3	11278.3	11484.4	11660.1	11132.9	10563.2	10126.9	9939.0	9914.7
55°	11599.5	11720.7	11938.9	12314.6	12908.6	13151.0	12241.9	11223.8	10690.5	10399.6	10339.0
56°	11920.7	11805.6	12181.3	12696.4	13472.2	13787.3	12423.7	11357.1	10769.3	10442.0	10435.9
57.5°	11611.6	11738.9	11999.5	12811.6	13763.1	14175.2	12490.4	11296.5	10454.1	10120.8	10151.1
60°	9169.3	9290.5	9642.0	10551.1	12041.9	12363.1	10569.3	9314.8	8563.3	8084.5	8090.6
62.5°	5187.7	5278.6	5551.3	6393.7	7320.9	7630.0	6587.6	5751.3	5230.1	4963.4	4878.6
65°	1909.0	1872.7	1915.1	2345.4	2915.0	3175.6	2739.3	2315.1	2042.3	1945.4	1909.0
67.5°	715.1	660.6	618.2	660.6	830.3	878.8	806.0	672.7	630.3	648.5	660.6
70°	442.4	418.2	333.3	315.1	309.1	303.0	321.2	339.4	387.9	454.5	466.6
72.5°	309.1	290.9	236.4	224.2	212.1	206.1	236.4	260.6	303.0	351.5	357.6
75°	121.2	127.3	121.2	133.3	139.4	145.4	169.7	187.9	206.1	206.1	200.0
77.5°	24.2	24.2	36.4	48.5	60.6	78.8	115.1	133.3	139.4	133.3	115.1
80°	0.0	0.0	12.1	24.2	48.5	66.7	103.0	115.1	127.3	115.1	90.9
82.5°	0.0	0.0	12.1	30.3	48.5	60.6	97.0	121.2	139.4	127.3	97.0
85°	0.0	0.0	12.1	24.2	36.4	42.4	42.4	30.3	30.3	18.2	12.1
87.5°	0.0	0.0	0.0	0.0	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)