

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: P533709

Luminaire Tested: **GALN-SA9A-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533709  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-830-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22631 lumens  
Efficiency: N/A  
Efficacy: 82.6 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

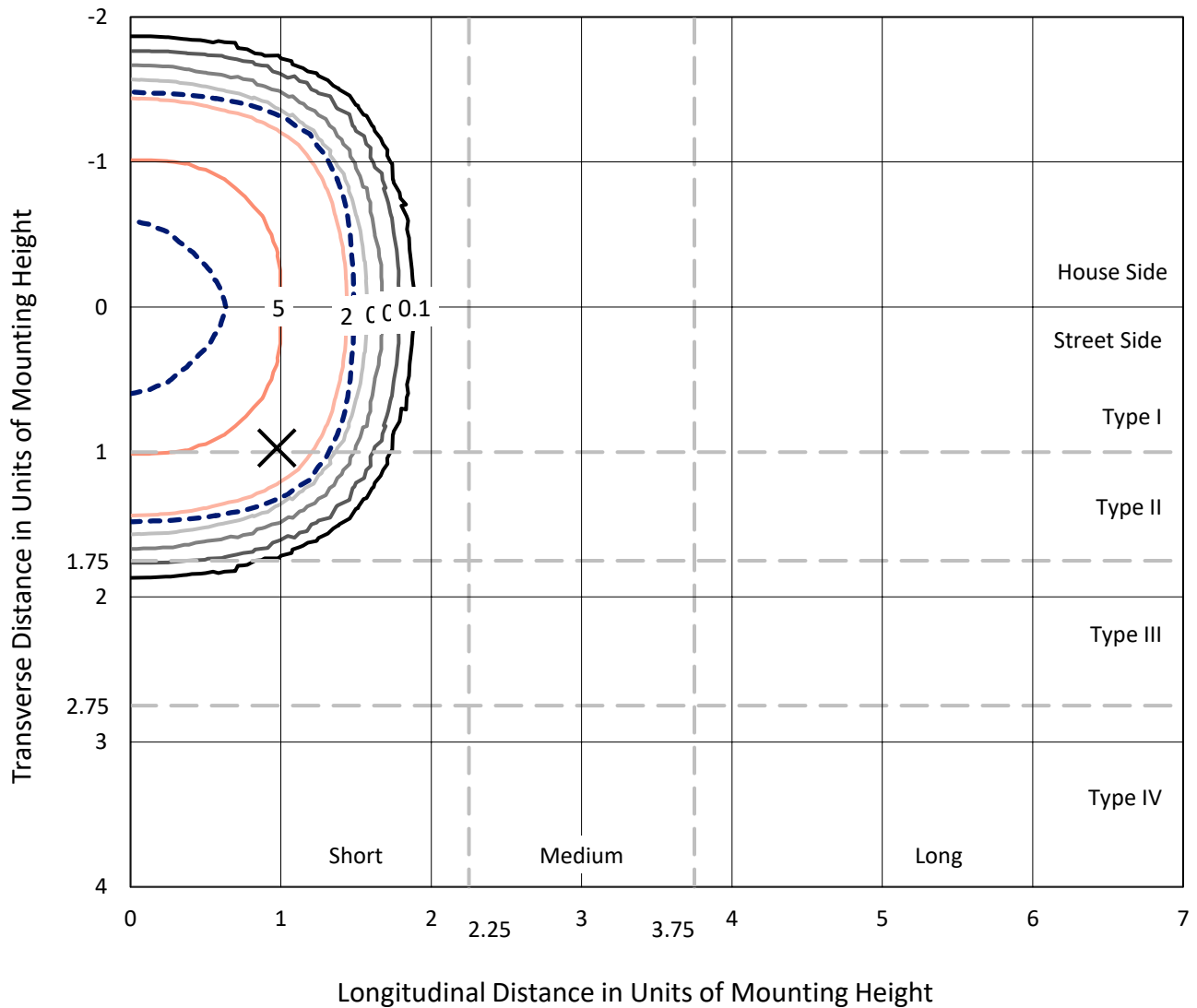
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

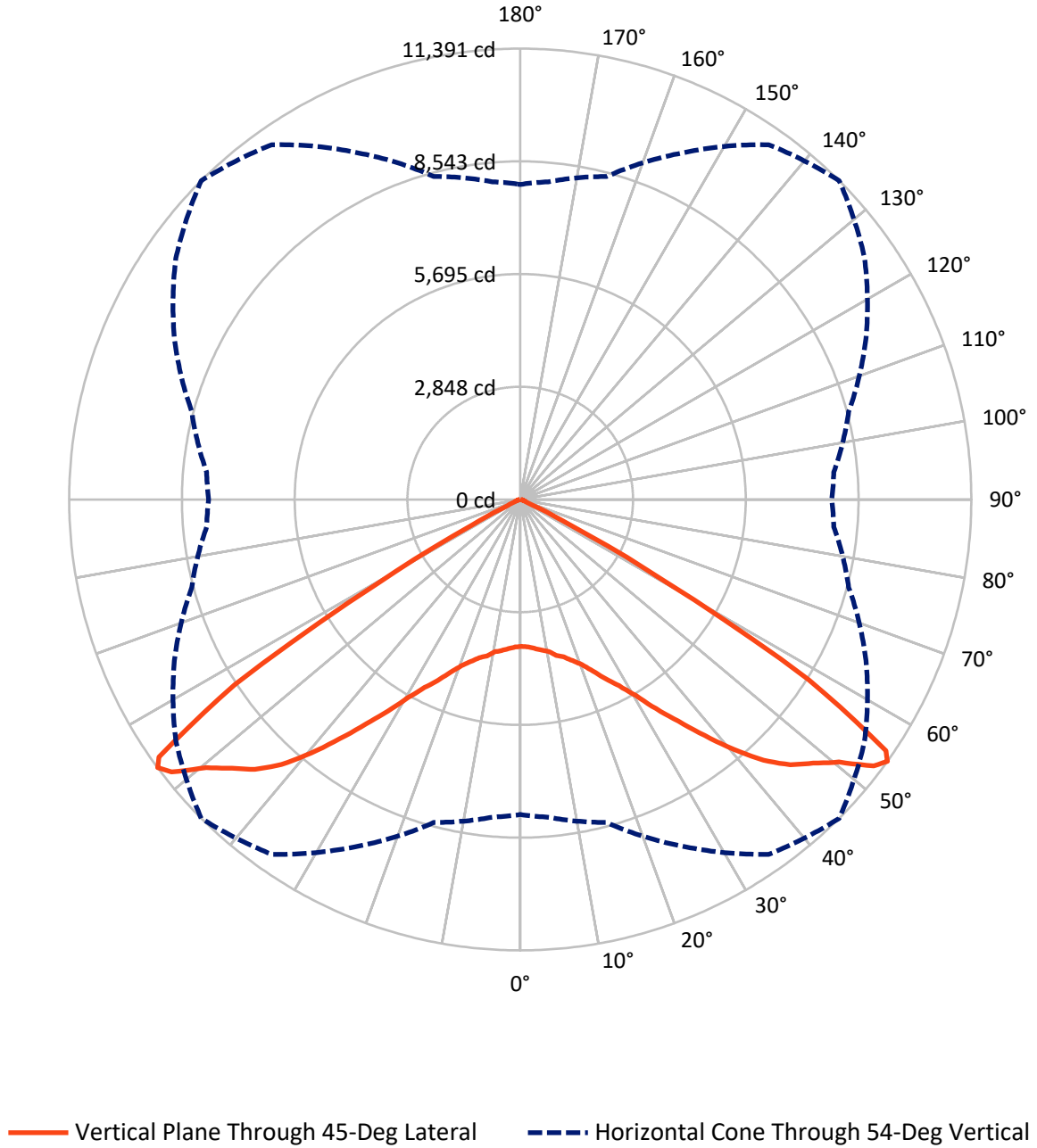
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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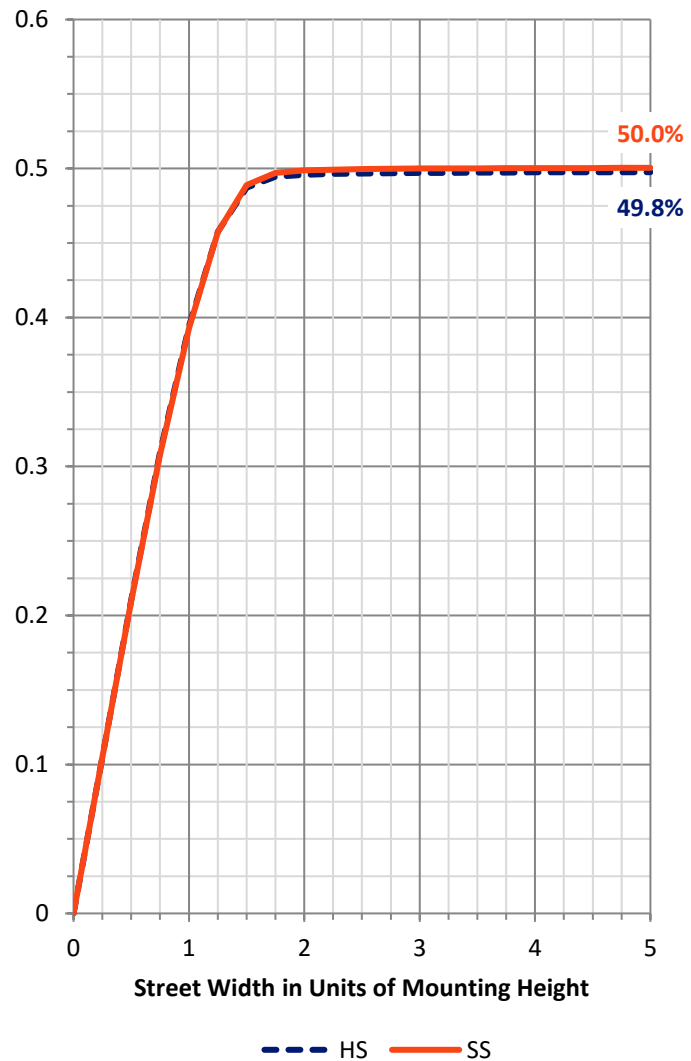
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11315.5	0.0	11315.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11315.5	0.0	11315.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22631.0	0.0	22631.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.2	1.6
10°-20°	1176.2	5.2
20°-30°	2305.2	10.2
30°-40°	4145.3	18.3
40°-50°	7095.9	31.4
50°-60°	6866.0	30.3
60°-70°	587.7	2.6
70°-80°	69.7	0.3
80°-90°	21.9	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°	22631.0	100.0
0°-180°	22631.0	100.0



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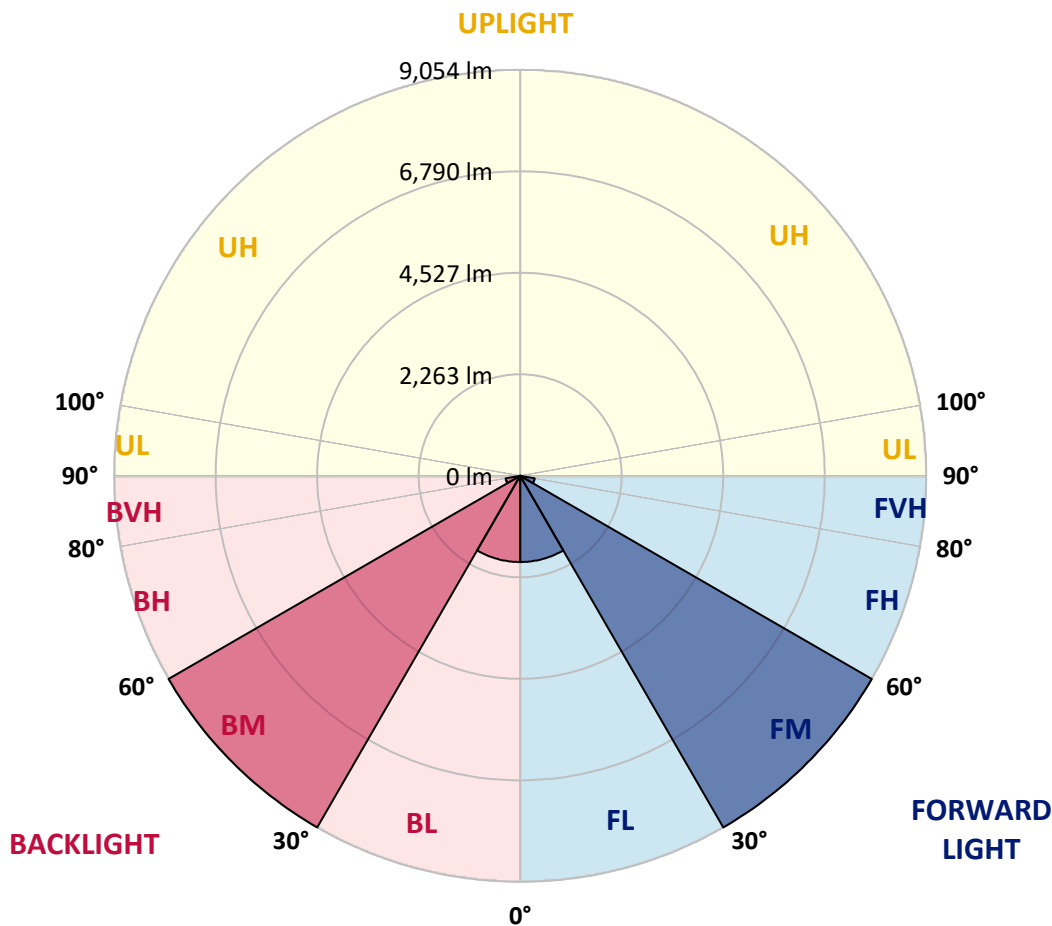
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1922.3	8.5			
FM (30°-60°)	9053.6	40.0			
FH (60°-80°)	328.7	1.5			G0/660
FVH (80°-90°)	10.9	0.0			G1/100
BL (0°-30°)	1922.3	8.5	B3/2500		
BM (30°-60°)	9053.6	40.0	B5		
BH (60°-80°)	328.7	1.5	B1/500		G0/660
BVH (80°-90°)	10.9	0.0			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°	3710.8	3710.8	3710.8	3710.8	3710.8	3710.8	3710.8	3710.8	3710.8	3710.8	3710.8
2.5°	3728.7	3750.2	3735.9	3746.6	3746.6	3728.7	3739.5	3696.4	3725.1	3703.6	3707.2
5°	3786.1	3782.5	3782.5	3786.1	3771.7	3778.9	3764.6	3750.2	3739.5	3725.1	3768.1
7.5°	3857.8	3857.8	3832.7	3839.8	3832.7	3843.4	3814.8	3786.1	3775.3	3764.6	3757.4
10°	3925.9	3918.7	3908.0	3940.2	3915.1	3900.8	3886.5	3868.5	3829.1	3814.8	3800.4
12.5°	4026.3	4022.7	4008.4	4040.6	4026.3	4040.6	3986.8	3940.2	3933.1	3886.5	3911.6
15°	4144.6	4176.9	4151.8	4151.8	4144.6	4126.7	4105.2	4083.6	4019.1	4001.2	4004.8
17.5°	4298.8	4288.0	4291.6	4291.6	4327.4	4280.8	4237.8	4184.0	4151.8	4141.0	4105.2
20°	4445.8	4460.1	4456.5	4481.6	4503.1	4452.9	4406.3	4399.2	4309.5	4323.9	4273.7
22.5°	4703.9	4693.1	4711.1	4729.0	4714.7	4707.5	4664.5	4610.7	4531.8	4496.0	4488.8
25°	4976.4	4958.5	4926.2	4969.2	4990.7	5023.0	4940.5	4911.9	4790.0	4736.2	4739.8
27.5°	5209.4	5234.5	5270.4	5288.3	5342.1	5331.3	5274.0	5180.7	5087.5	5026.6	4987.1
30°	5528.5	5542.9	5603.8	5628.9	5722.1	5747.2	5657.6	5550.0	5385.1	5306.2	5259.6
32.5°	5822.5	5922.9	5919.3	6044.8	6195.4	6299.4	6138.0	5973.1	5808.2	5715.0	5632.5
35°	6299.4	6281.4	6385.4	6518.1	6761.9	6880.2	6704.5	6514.5	6263.5	6112.9	6048.4
37.5°	6743.9	6751.1	6890.9	7102.5	7382.1	7565.0	7410.8	7098.9	6840.7	6647.1	6557.5
40°	7389.3	7403.6	7547.0	7787.3	8102.8	8300.0	8120.7	7805.2	7461.0	7310.4	7310.4
42.5°	8145.8	8206.7	8300.0	8507.9	8791.1	9009.8	8848.5	8601.1	8253.3	8059.7	8088.4
45°	8923.8	8952.5	9013.4	9321.8	9454.4	9562.0	9411.4	9296.7	9063.6	8827.0	8787.6
47.5°	9651.6	9662.4	9841.6	9938.4	10042.4	9952.8	10049.6	9899.0	9637.3	9407.8	9361.2
50°	9974.3	9956.4	10210.9	10504.9	10583.8	10426.0	10343.6	10243.2	9845.2	9569.1	9447.2
52.5°	9034.9	9138.9	9612.2	10429.6	11046.3	11178.9	10698.5	10236.0	9493.9	8956.1	8873.6
54°	7959.4	8056.2	8447.0	9658.8	10942.3	11390.5	10616.1	9633.7	8586.8	7948.6	7866.1
55°	6894.5	6787.0	7496.8	8733.8	10454.7	11204.0	10289.8	8855.7	7658.2	7073.8	6959.1
57.5°	3732.3	3750.2	4349.0	5517.8	7346.3	8590.4	7586.5	5991.0	4524.6	3868.5	3811.2
60°	1183.1	1211.8	1473.6	2230.1	3510.0	4191.2	3592.5	2405.7	1663.6	1333.7	1279.9
62.5°	369.3	383.6	419.5	623.8	960.9	1373.2	1075.6	645.4	480.4	441.0	448.2
65°	225.9	225.9	229.5	243.8	286.8	333.4	322.7	283.2	272.5	265.3	261.7
67.5°	147.0	143.4	150.6	161.3	168.5	172.1	182.8	193.6	190.0	182.8	182.8
70°	89.6	86.0	93.2	107.6	111.1	118.3	129.1	143.4	139.8	132.7	136.2
72.5°	50.2	50.2	53.8	64.5	75.3	82.5	93.2	104.0	107.6	104.0	104.0
75°	17.9	21.5	28.7	39.4	46.6	57.4	68.1	78.9	89.6	82.5	78.9
77.5°	7.2	7.2	14.3	25.1	35.9	46.6	64.5	75.3	82.5	75.3	68.1
80°	3.6	3.6	10.8	21.5	32.3	43.0	53.8	64.5	68.1	60.9	53.8
82.5°	3.6	3.6	10.8	21.5	32.3	39.4	57.4	64.5	71.7	64.5	53.8
85°	0.0	3.6	10.8	21.5	28.7	32.3	32.3	21.5	17.9	10.8	10.8
87.5°	0.0	0.0	3.6	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)