

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: P531707

Luminaire Tested: **GALN-SA7A-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531707  
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-SA7A-735-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 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: 20384 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

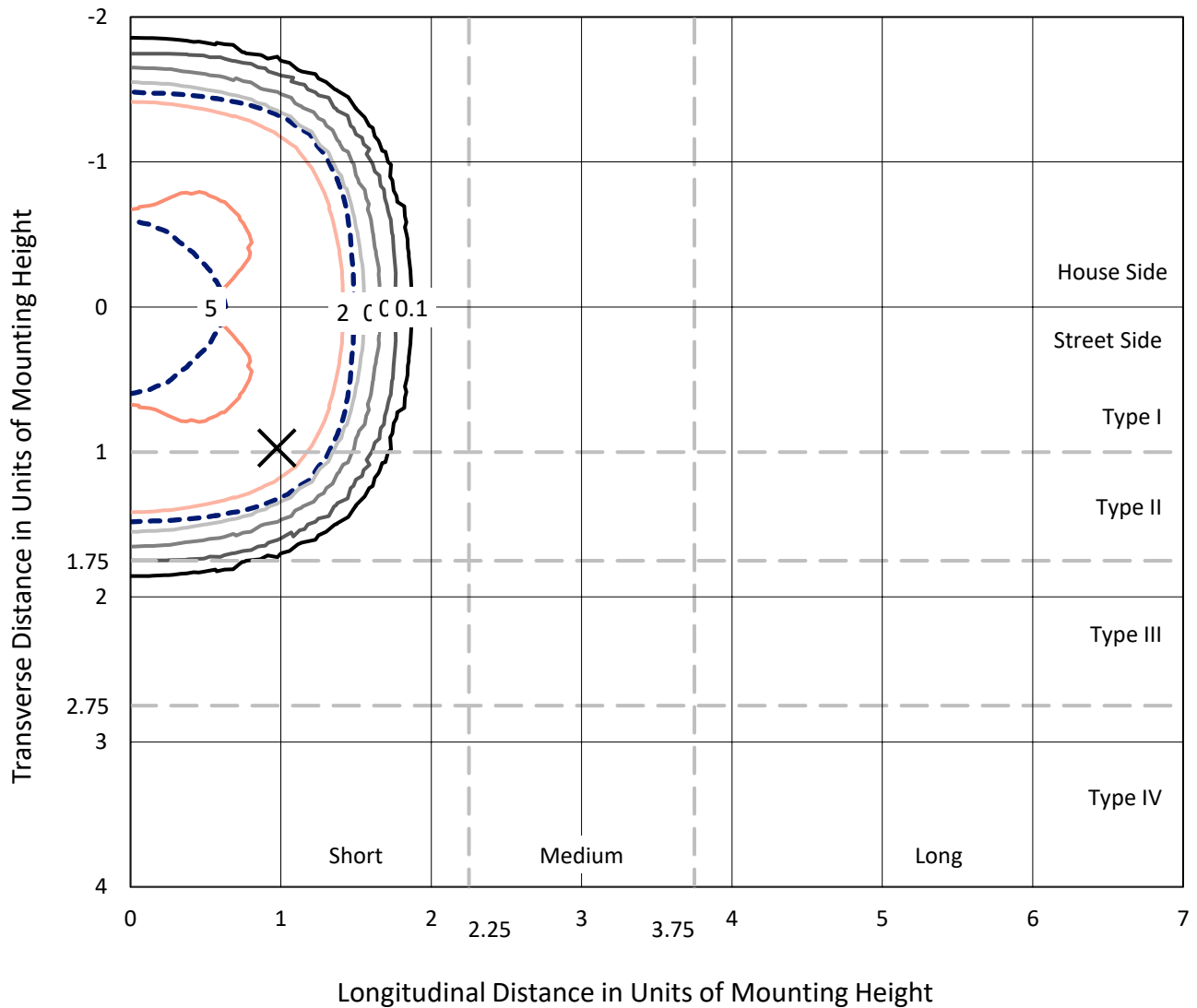
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

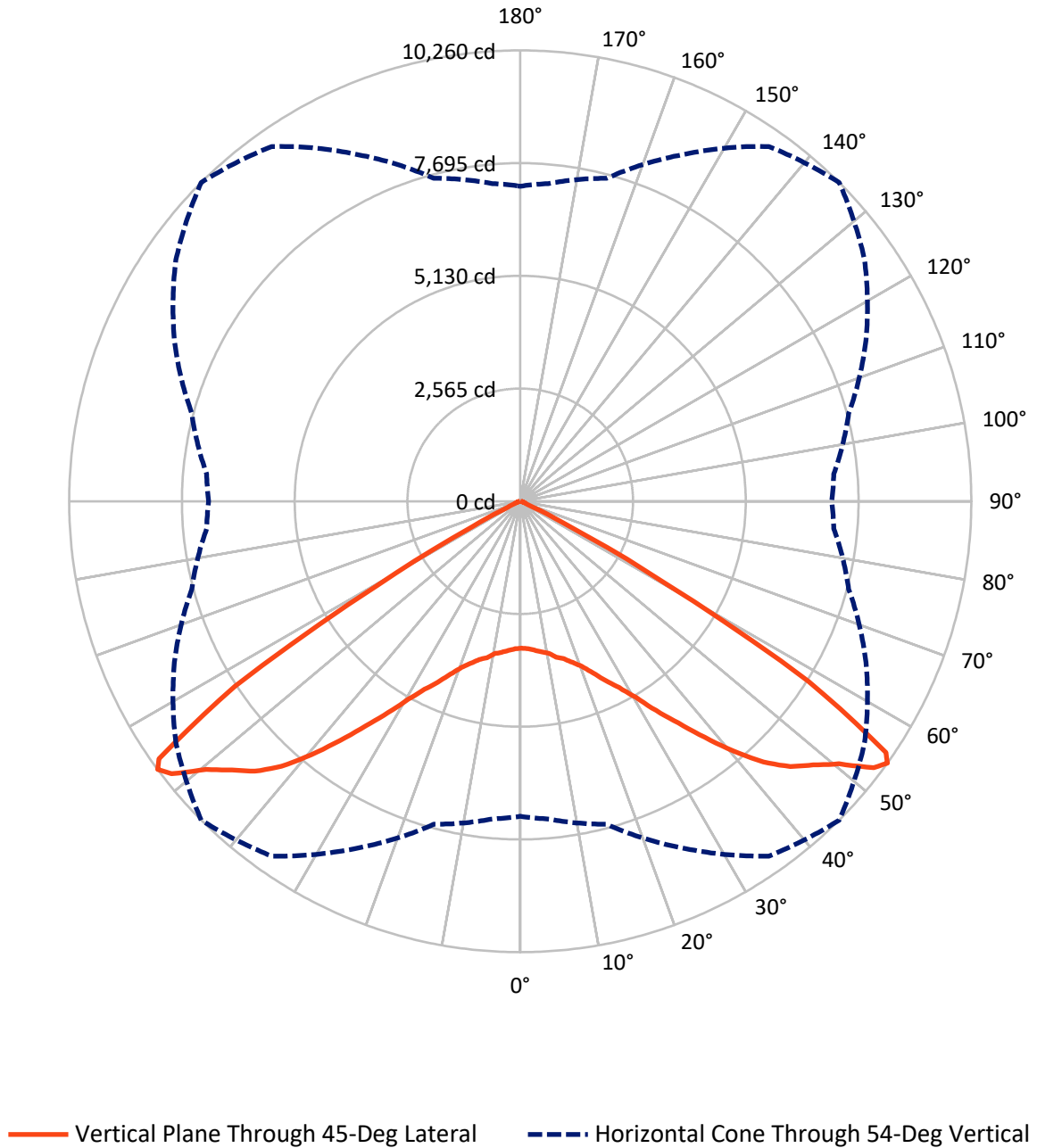
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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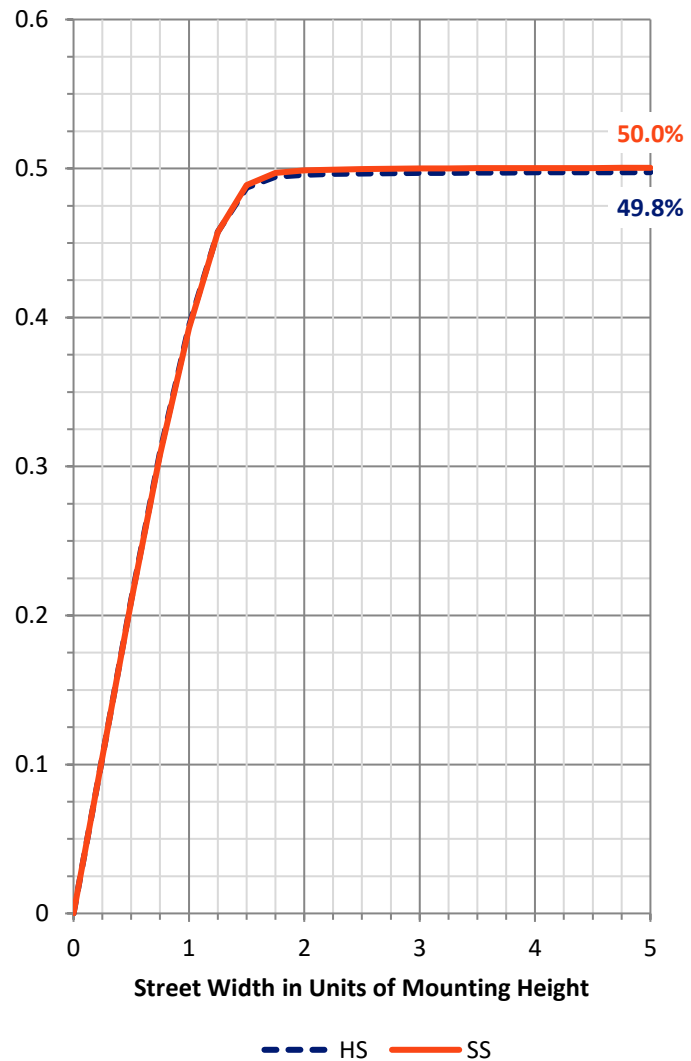
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10192.0	0.0	10192.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10192.0	0.0	10192.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20384.0	0.0	20384.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.1	1.6
10°-20°	1059.4	5.2
20°-30°	2076.3	10.2
30°-40°	3733.7	18.3
40°-50°	6391.4	31.4
50°-60°	6184.3	30.3
60°-70°	529.4	2.6
70°-80°	62.8	0.3
80°-90°	19.7	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°	20384.0	100.0
0°-180°	20384.0	100.0



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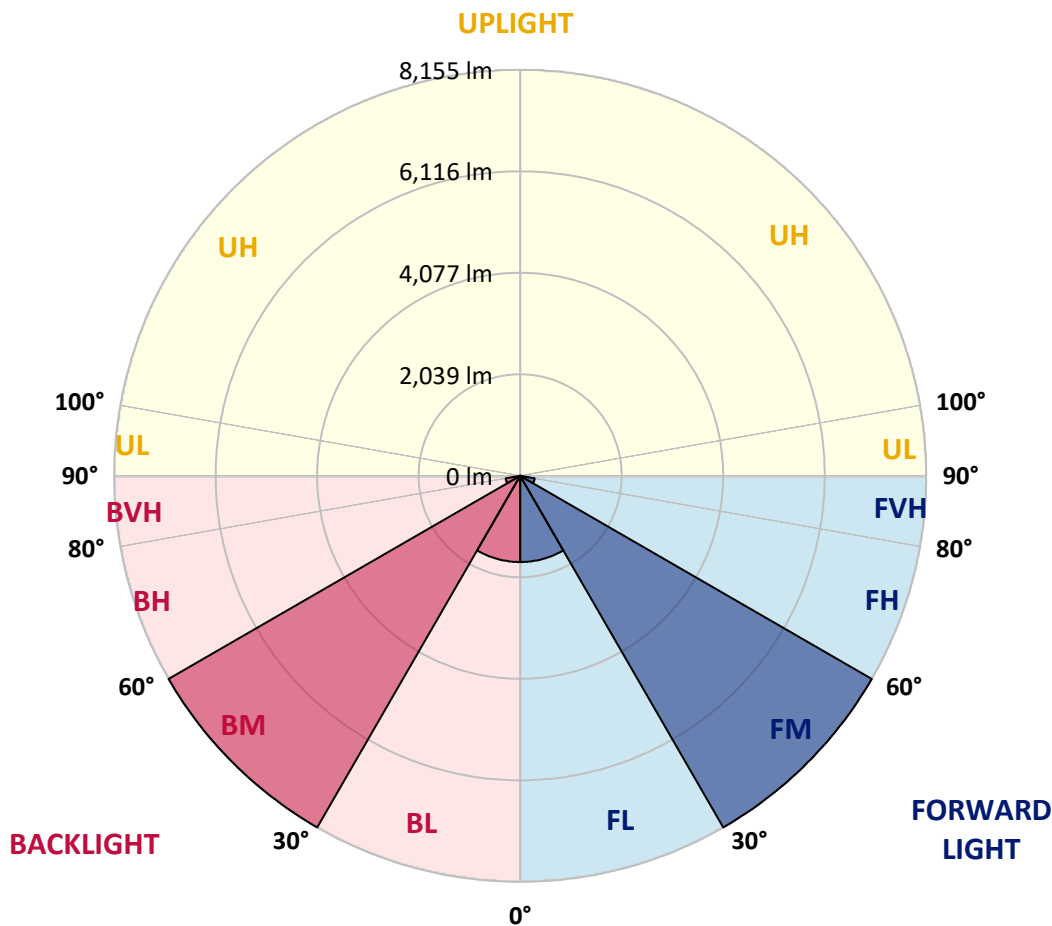
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1731.4	8.5			
FM (30°-60°)	8154.7	40.0			
FH (60°-80°)	296.1	1.5			G0/660
FVH (80°-90°)	9.8	0.0			G0/10
BL (0°-30°)	1731.4	8.5	B3/2500		
BM (30°-60°)	8154.7	40.0	B4/8500		
BH (60°-80°)	296.1	1.5	B1/500		G0/660
BVH (80°-90°)	9.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3342.3	3342.3	3342.3	3342.3	3342.3	3342.3	3342.3	3342.3	3342.3	3342.3	3342.3
2.5°	3358.5	3377.9	3364.9	3374.6	3374.6	3358.5	3368.2	3329.4	3355.3	3335.9	3339.1
5°	3410.2	3406.9	3406.9	3410.2	3397.2	3403.7	3390.8	3377.9	3368.2	3355.3	3394.0
7.5°	3474.7	3474.7	3452.1	3458.6	3452.1	3461.8	3436.0	3410.2	3400.5	3390.8	3384.3
10°	3536.1	3529.6	3520.0	3549.0	3526.4	3513.5	3500.6	3484.4	3448.9	3436.0	3423.1
12.5°	3626.5	3623.3	3610.4	3639.4	3626.5	3639.4	3591.0	3549.0	3542.6	3500.6	3523.2
15°	3733.1	3762.2	3739.5	3739.5	3733.1	3716.9	3697.6	3678.2	3620.1	3603.9	3607.1
17.5°	3871.9	3862.3	3865.5	3865.5	3897.8	3855.8	3817.1	3768.6	3739.5	3729.9	3697.6
20°	4004.4	4017.3	4014.0	4036.6	4056.0	4010.8	3968.8	3962.4	3881.6	3894.6	3849.3
22.5°	4236.9	4227.2	4243.3	4259.5	4246.5	4240.1	4201.3	4152.9	4081.9	4049.6	4043.1
25°	4482.3	4466.1	4437.1	4475.8	4495.2	4524.3	4450.0	4424.2	4314.4	4265.9	4269.2
27.5°	4692.2	4714.8	4747.1	4763.2	4811.7	4802.0	4750.3	4666.4	4582.4	4527.5	4492.0
30°	4979.6	4992.5	5047.4	5070.0	5154.0	5176.6	5095.9	4999.0	4850.4	4779.4	4737.4
32.5°	5244.4	5334.8	5331.6	5444.6	5580.3	5673.9	5528.6	5380.0	5231.5	5147.5	5073.3
35°	5673.9	5657.8	5751.4	5870.9	6090.5	6197.1	6038.8	5867.7	5641.6	5506.0	5447.9
37.5°	6074.3	6080.8	6206.7	6397.3	6649.2	6813.9	6675.0	6394.0	6161.5	5987.1	5906.4
40°	6655.6	6668.5	6797.7	7014.1	7298.3	7475.9	7314.4	7030.2	6720.2	6584.6	6584.6
42.5°	7337.0	7391.9	7475.9	7663.2	7918.3	8115.3	7969.9	7747.1	7433.9	7259.5	7285.3
45°	8037.8	8063.6	8118.5	8396.2	8515.7	8612.6	8477.0	8373.6	8163.7	7950.6	7915.1
47.5°	8693.3	8703.0	8864.5	8951.7	9045.3	8964.6	9051.8	8916.1	8680.4	8473.7	8431.7
50°	8984.0	8967.8	9197.1	9461.9	9532.9	9390.8	9316.6	9226.2	8867.7	8619.0	8509.2
52.5°	8137.9	8231.5	8657.8	9394.1	9949.5	10069.0	9636.3	9219.7	8551.2	8066.8	7992.6
54°	7169.1	7256.3	7608.3	8699.8	9855.9	10259.5	9562.0	8677.2	7734.2	7159.4	7085.1
55°	6210.0	6113.1	6752.5	7866.6	9416.7	10091.6	9268.1	7976.4	6897.8	6371.4	6268.1
57.5°	3361.7	3377.9	3917.2	4969.9	6616.9	7737.4	6833.2	5396.2	4075.4	3484.4	3432.8
60°	1065.7	1091.5	1327.2	2008.6	3161.5	3775.1	3235.8	2166.9	1498.4	1201.3	1152.9
62.5°	332.6	345.5	377.8	561.9	865.5	1236.8	968.8	581.3	432.7	397.2	403.7
65°	203.4	203.4	206.7	219.6	258.3	300.3	290.6	255.1	245.4	239.0	235.7
67.5°	132.4	129.2	135.6	145.3	151.8	155.0	164.7	174.4	171.2	164.7	164.7
70°	80.7	77.5	84.0	96.9	100.1	106.6	116.3	129.2	125.9	119.5	122.7
72.5°	45.2	45.2	48.4	58.1	67.8	74.3	84.0	93.7	96.9	93.7	93.7
75°	16.1	19.4	25.8	35.5	42.0	51.7	61.4	71.0	80.7	74.3	71.0
77.5°	6.5	6.5	12.9	22.6	32.3	42.0	58.1	67.8	74.3	67.8	61.4
80°	3.2	3.2	9.7	19.4	29.1	38.8	48.4	58.1	61.4	54.9	48.4
82.5°	3.2	3.2	9.7	19.4	29.1	35.5	51.7	58.1	64.6	58.1	48.4
85°	0.0	3.2	9.7	19.4	25.8	29.1	29.1	19.4	16.1	9.7	9.7
87.5°	0.0	0.0	3.2	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)