

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: P455758

Luminaire Tested: **GALN-SA7A-727-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455758  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7A-727-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27939 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

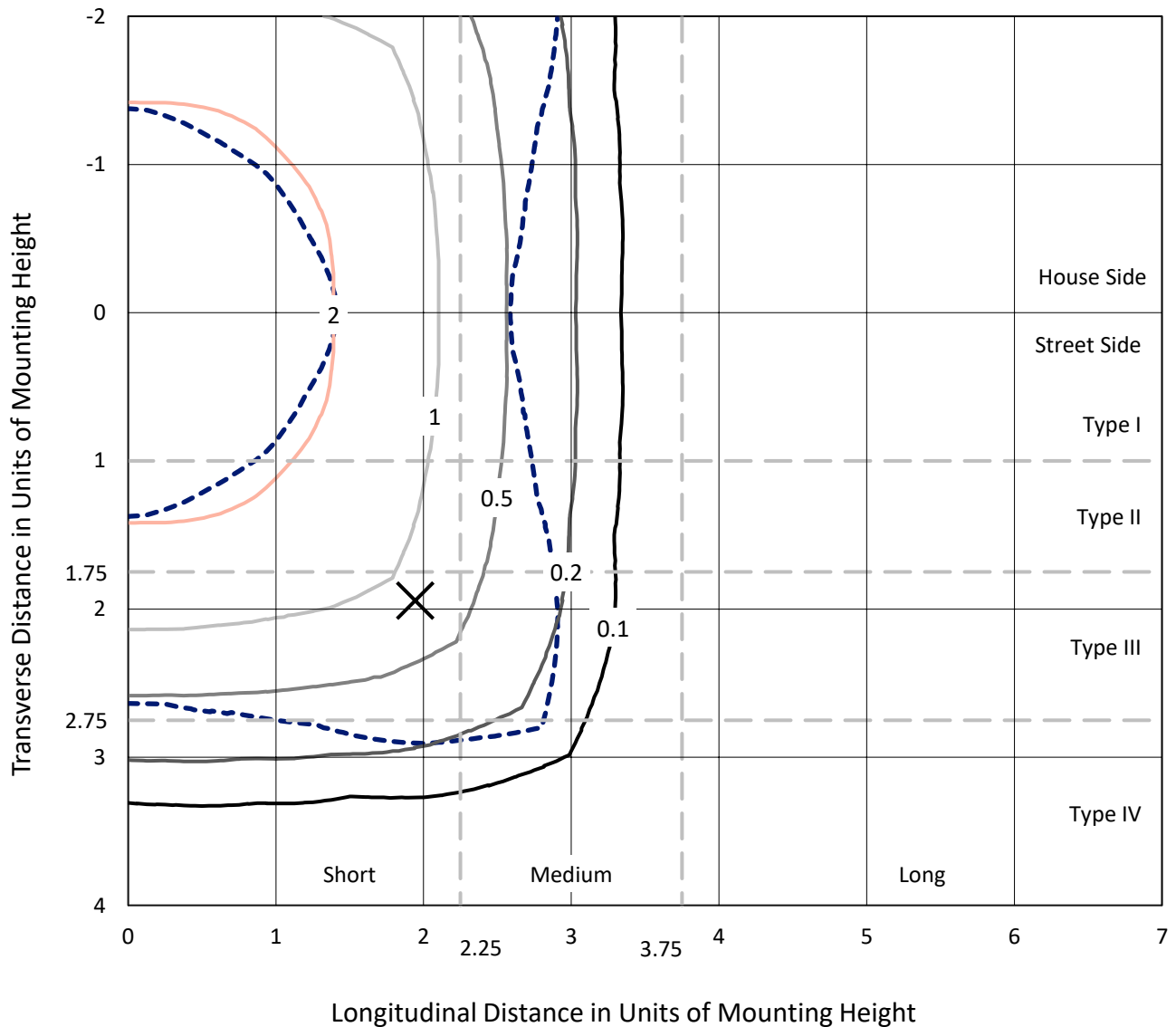
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

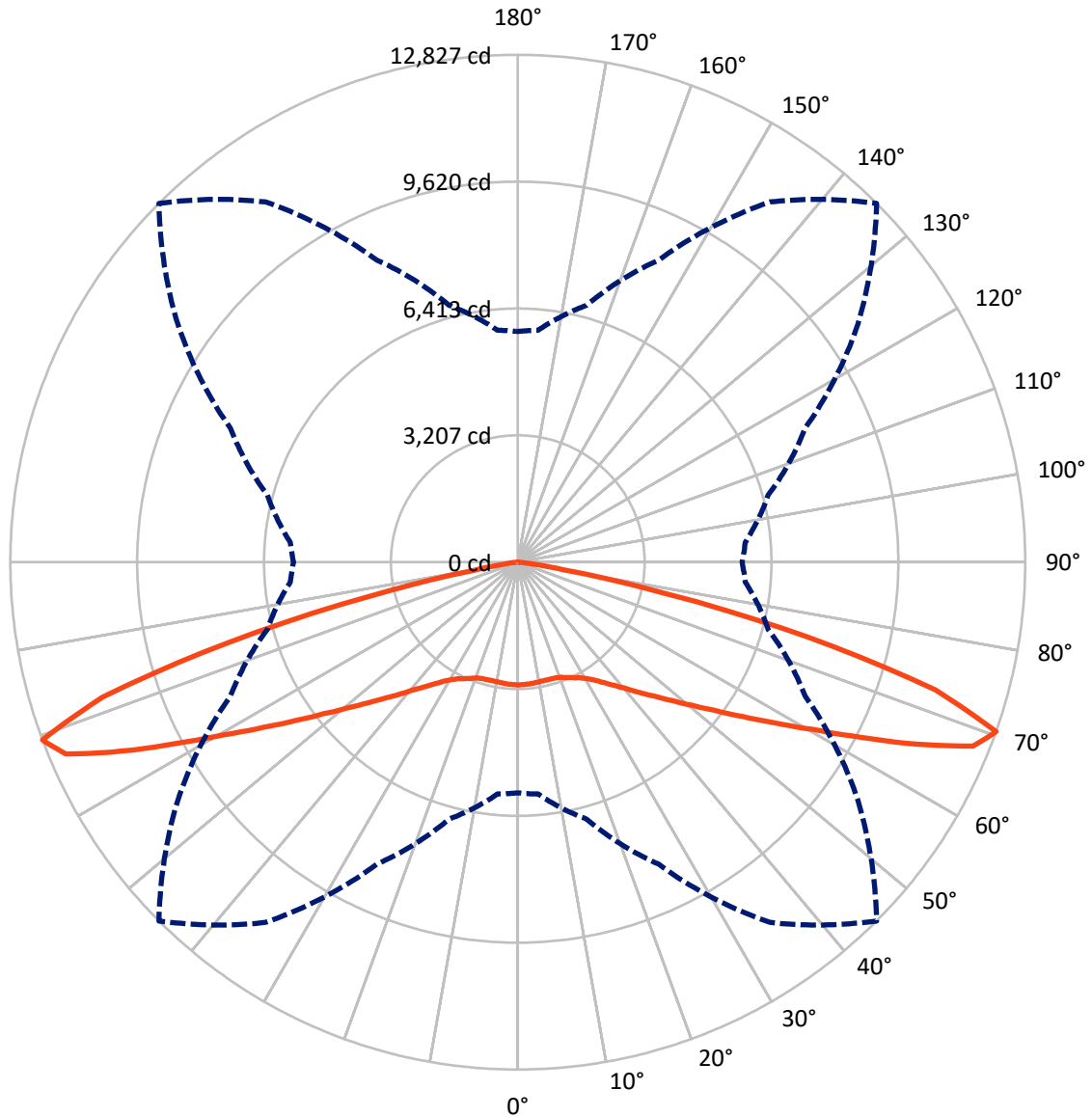
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type V - Short - N/A

REPORT NUMBER: P455758  
CATALOG NUMBER: GALN-SA7A-727-U-5MQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: GALN-SA7A-727-U-5MQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13969.5	0.0	13969.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13969.5	0.0	13969.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27939.0	0.0	27939.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.2	1.1
10°-20°	863.3	3.1
20°-30°	1476.5	5.3
30°-40°	2343.6	8.4
40°-50°	3780.9	13.5
50°-60°	6151.5	22.0
60°-70°	8917.5	31.9
70°-80°	3955.5	14.2
80°-90°	156.0	0.6
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°	27939.0	100.0
0°-180°	27939.0	100.0



REPORT NUMBER: P455758

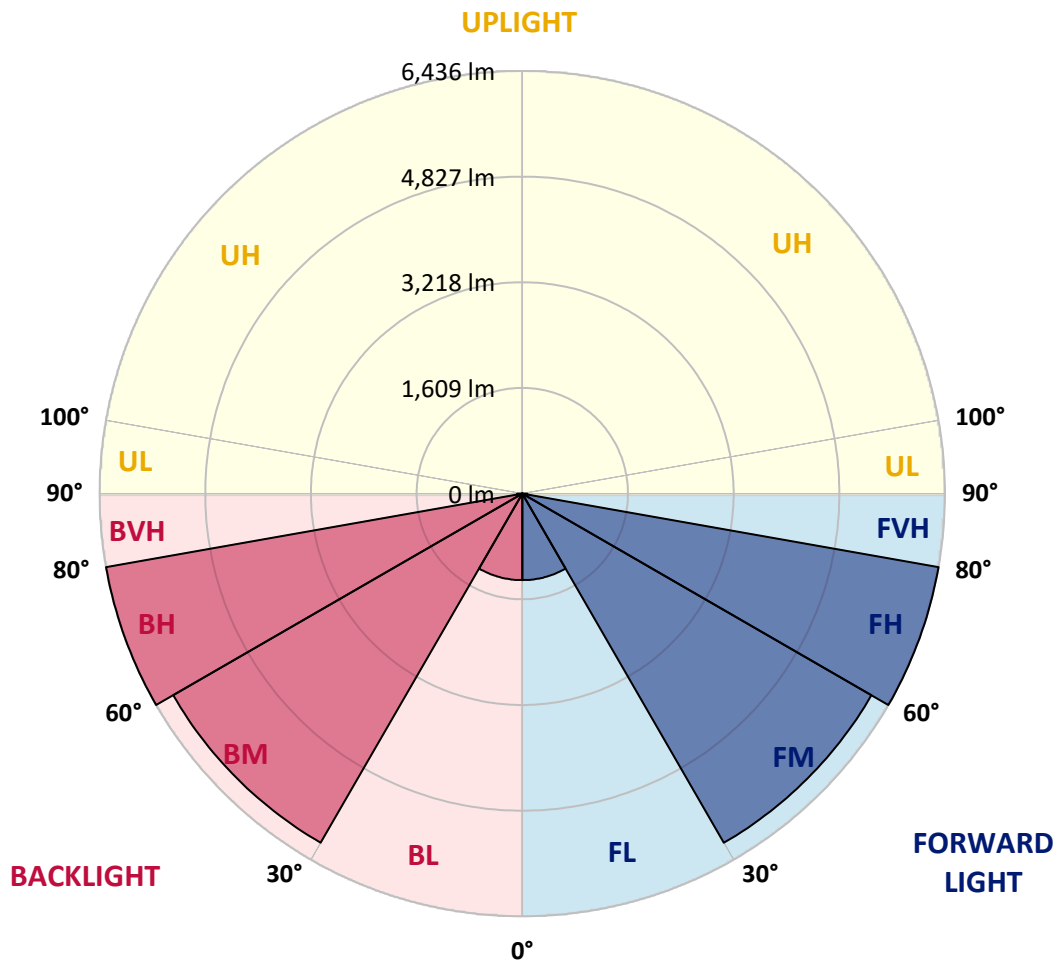
CATALOG NUMBER: GALN-SA7A-727-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1317.0	4.7			
FM (30°-60°)	6138.0	22.0			
FH (60°-80°)	6436.5	23.0			G3/7500
FVH (80°-90°)	78.0	0.3			G1/100
BL (0°-30°)	1317.0	4.7	B3/2500		
BM (30°-60°)	6138.0	22.0	B4/8500		
BH (60°-80°)	6436.5	23.0	B5		G3/7500
BVH (80°-90°)	78.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3102.5	3102.5	3102.5	3102.5	3102.5	3102.5	3102.5	3102.5	3102.5	3102.5	3102.5
2.5°	3102.5	3105.4	3101.0	3098.1	3096.6	3096.6	3095.1	3096.6	3105.4	3106.9	3102.5
5°	3093.7	3096.6	3095.1	3092.2	3090.7	3090.7	3089.2	3087.8	3095.1	3098.1	3096.6
7.5°	3081.9	3083.4	3081.9	3080.4	3081.9	3080.4	3076.0	3073.0	3078.9	3078.9	3077.5
10°	3061.3	3064.2	3062.7	3064.2	3067.2	3067.2	3061.3	3055.4	3056.8	3053.9	3053.9
12.5°	3036.2	3040.7	3042.1	3048.0	3055.4	3064.2	3051.0	3037.7	3034.8	3033.3	3031.8
15°	3020.0	3024.5	3030.3	3036.2	3049.5	3068.6	3049.5	3028.9	3023.0	3017.1	3014.1
17.5°	3015.6	3021.5	3030.3	3039.2	3056.8	3076.0	3059.8	3039.2	3024.5	3015.6	3012.7
20°	3027.4	3031.8	3045.1	3061.3	3086.3	3105.4	3089.2	3067.2	3045.1	3031.8	3027.4
22.5°	3051.0	3058.3	3074.5	3104.0	3139.3	3167.3	3145.2	3108.4	3073.0	3055.4	3049.5
25°	3102.5	3108.4	3127.5	3167.3	3208.5	3235.0	3211.5	3168.8	3120.2	3096.6	3089.2
27.5°	3180.5	3189.4	3210.0	3257.1	3291.0	3305.7	3289.5	3260.0	3224.7	3199.7	3193.8
30°	3291.0	3301.3	3332.2	3382.3	3404.4	3413.2	3405.8	3386.7	3361.6	3335.1	3329.3
32.5°	3439.7	3445.6	3480.9	3528.0	3548.7	3551.6	3542.8	3533.9	3492.7	3448.5	3445.6
35°	3606.1	3616.4	3659.1	3715.0	3734.2	3735.7	3718.0	3704.7	3656.1	3620.8	3620.8
37.5°	3826.9	3831.4	3872.6	3935.9	3956.5	3950.6	3941.8	3930.0	3878.5	3832.8	3834.3
40°	4086.1	4094.9	4130.3	4203.9	4203.9	4196.5	4202.4	4193.6	4142.1	4097.9	4099.4
42.5°	4393.9	4398.3	4441.0	4519.0	4513.1	4498.4	4504.3	4492.5	4460.1	4410.0	4392.4
45°	4722.2	4739.9	4813.5	4888.6	4876.8	4829.7	4853.3	4850.3	4820.9	4745.8	4750.2
47.5°	5118.3	5147.8	5218.4	5308.3	5295.0	5221.4	5247.9	5265.6	5224.3	5141.9	5127.1
50°	5564.5	5583.6	5688.2	5772.1	5760.3	5682.3	5742.6	5745.6	5642.5	5526.2	5526.2
52.5°	6040.1	6059.2	6200.6	6331.6	6339.0	6225.6	6274.2	6271.2	6103.4	5950.3	5920.8
55°	6573.1	6581.9	6764.5	6957.4	6998.6	6888.2	6894.1	6835.2	6617.3	6439.1	6422.9
57.5°	7123.8	7156.2	7357.9	7608.3	7730.5	7662.7	7631.8	7474.3	7263.7	7059.0	7048.7
60°	7733.4	7734.9	7997.0	8293.0	8540.3	8586.0	8459.3	8248.8	7976.4	7705.4	7693.7
62.5°	8156.0	8219.3	8550.6	9051.3	9494.5	9750.7	9416.4	8974.7	8438.7	8001.4	7957.2
65°	8242.9	8285.6	8790.6	9638.8	10544.4	11096.5	10323.5	9384.1	8469.6	7886.5	7857.1
67.5°	7540.5	7586.2	8266.4	9568.1	11280.6	12412.9	10912.5	9186.7	7945.4	7223.9	7166.5
70°	5832.5	5884.0	6724.8	8422.5	11117.1	12826.7	10492.8	8013.2	6552.5	5773.6	5669.0
72.5°	3101.0	3291.0	4009.5	5780.9	9023.3	11043.5	8603.6	5847.2	4226.0	3454.4	3316.0
75°	1132.3	1155.9	1556.4	2563.6	5249.4	7572.9	5451.1	2788.9	1603.5	1238.3	1175.0
77.5°	468.2	466.8	512.4	774.5	1906.8	3878.5	2127.7	818.7	510.9	472.7	466.8
80°	276.8	276.8	304.8	322.5	502.1	1170.6	561.0	365.2	306.3	279.8	284.2
82.5°	123.7	131.0	192.9	203.2	243.0	321.0	270.9	232.7	200.3	138.4	125.2
85°	67.7	58.9	101.6	106.0	116.3	119.3	128.1	126.6	116.3	67.7	69.2
87.5°	13.3	16.2	29.4	22.1	25.0	22.1	29.4	41.2	42.7	23.6	19.1
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)