

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: P456224

Luminaire Tested: **GALN-SA7C-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42861 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

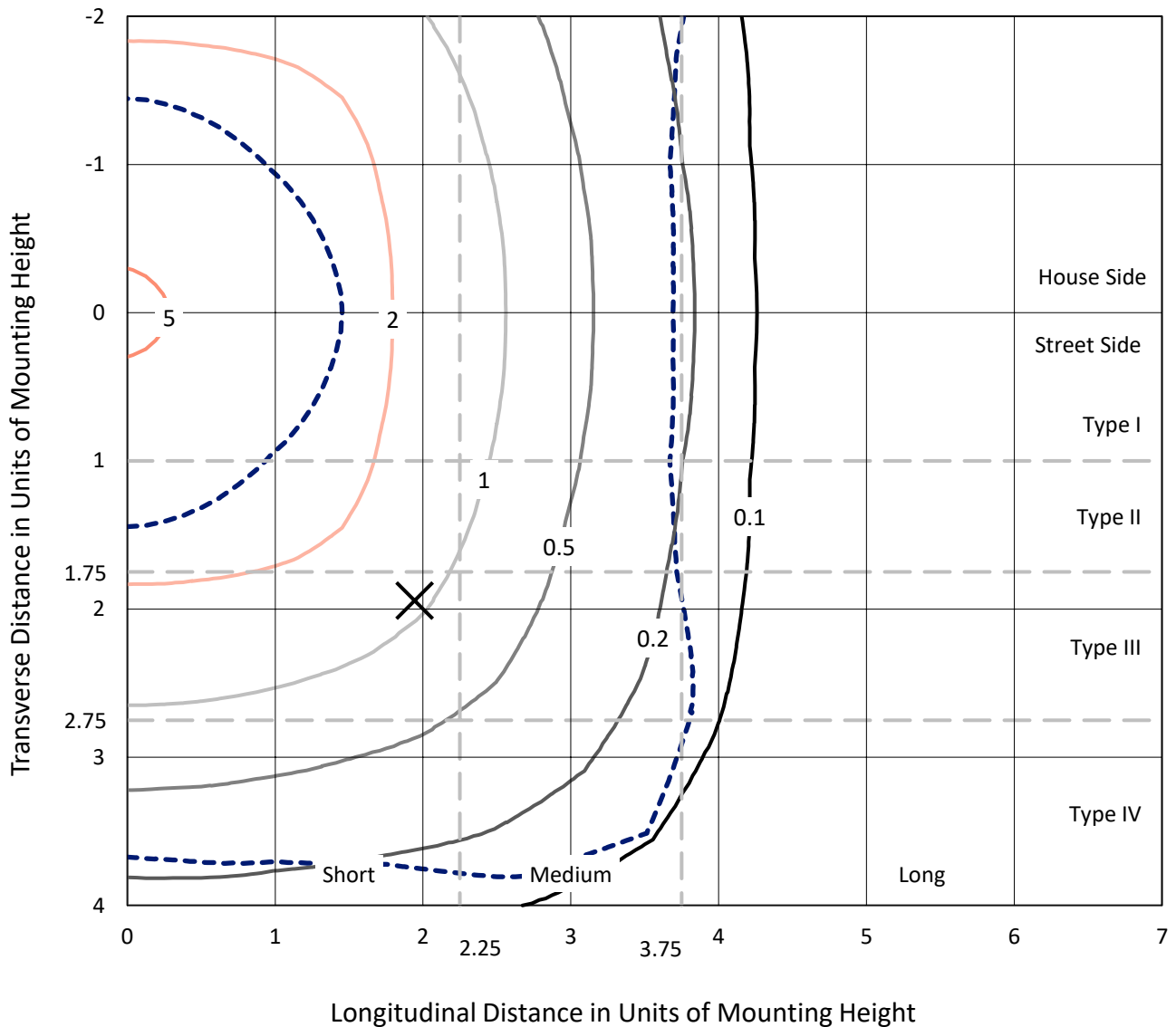
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

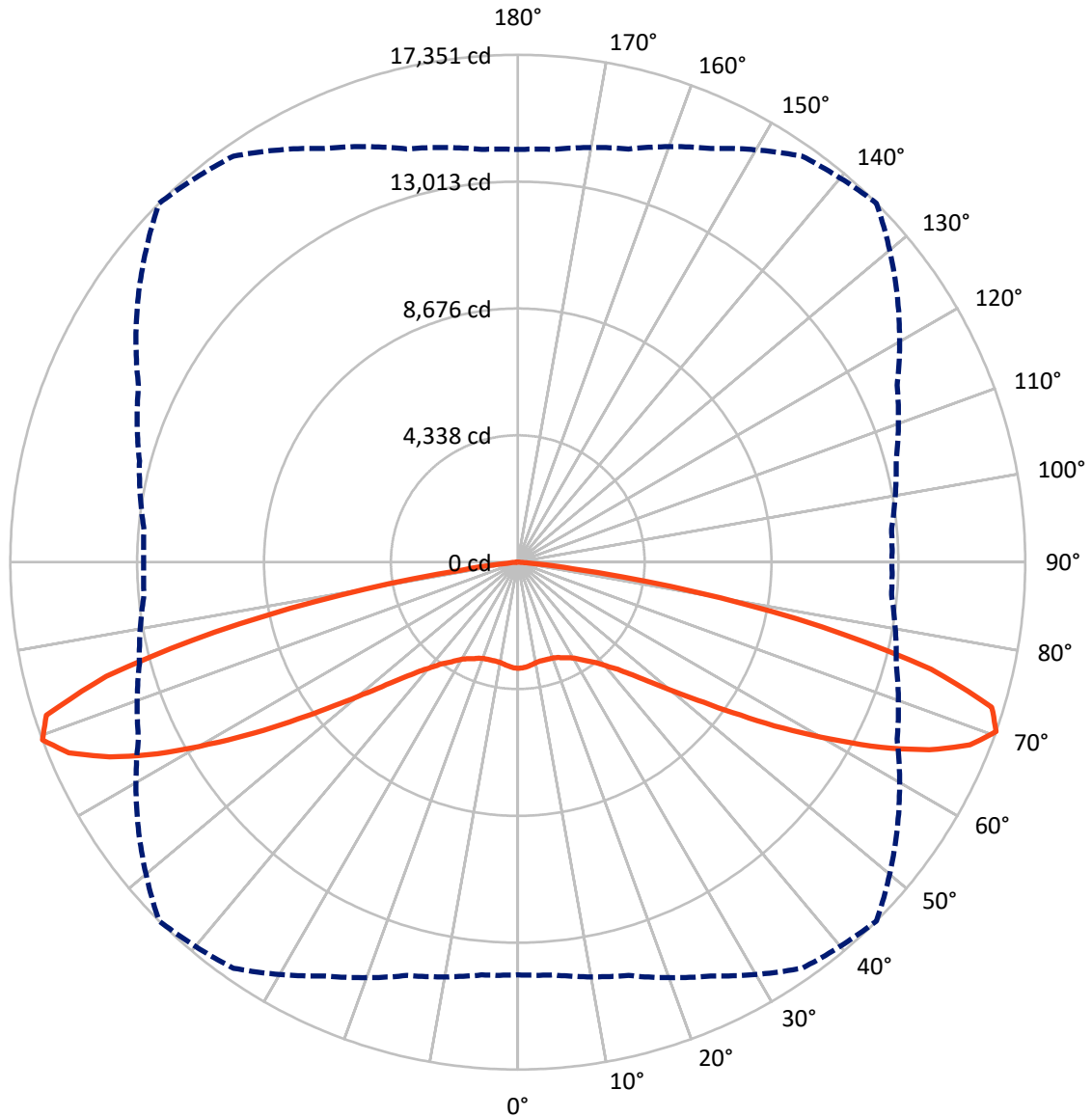
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21430.5	0.0	21430.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21430.5	0.0	21430.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	42861.0	0.0	42861.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.4	0.8
10°-20°	993.5	2.3
20°-30°	1692.6	3.9
30°-40°	2623.6	6.1
40°-50°	4415.9	10.3
50°-60°	8034.5	18.7
60°-70°	13602.1	31.7
70°-80°	10528.6	24.6
80°-90°	630.9	1.5
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°	42861.0	100.0
0°-180°	42861.0	100.0



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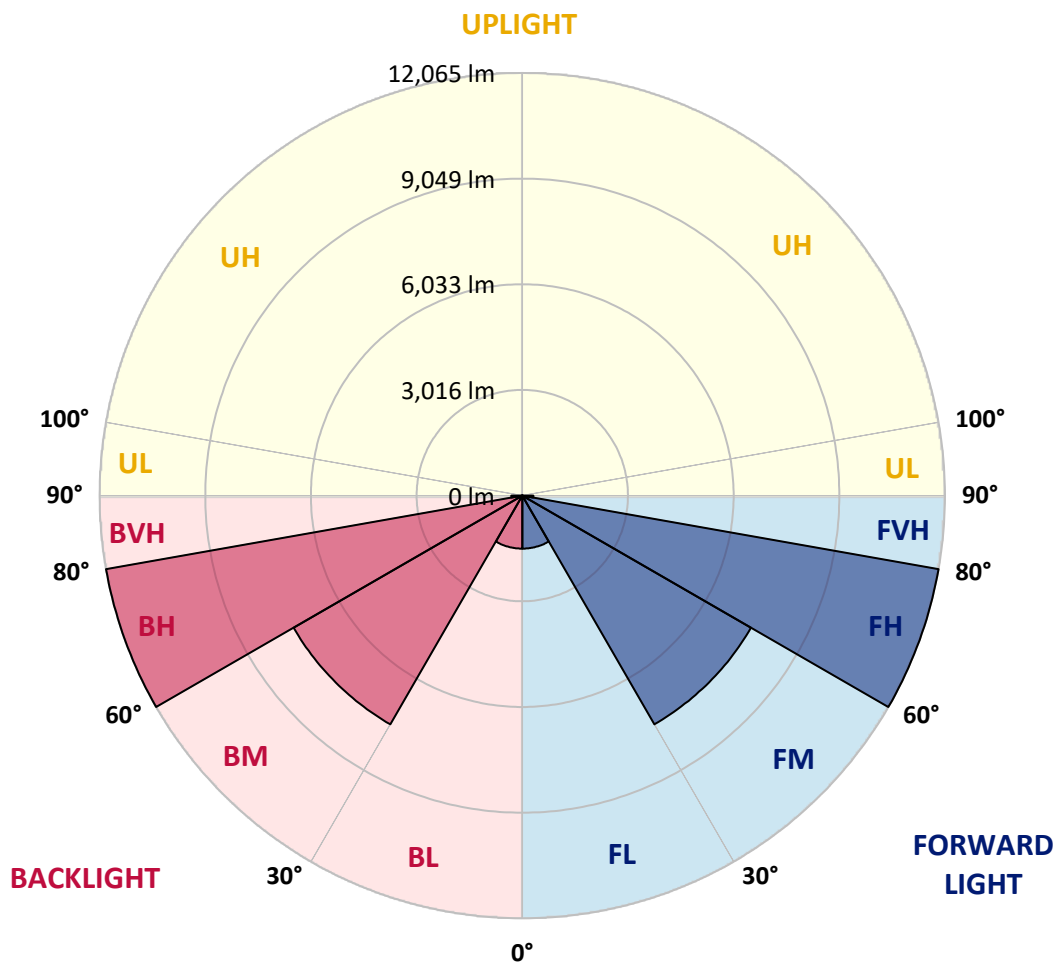
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1512.7	3.5			
FM	(30°-60°)	7537.0	17.6			
FH	(60°-80°)	12065.4	28.1			G5
FVH	(80°-90°)	315.4	0.7			G3/500
BL	(0°-30°)	1512.7	3.5	B3/2500		
BM	(30°-60°)	7537.0	17.6	B4/8500		
BH	(60°-80°)	12065.4	28.1	B5		G5
BVH	(80°-90°)	315.4	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7
2.5°	3619.7	3621.9	3621.9	3617.4	3615.1	3615.1	3612.9	3612.9	3619.7	3621.9	3624.2
5°	3588.0	3588.0	3588.0	3585.7	3581.2	3581.2	3576.6	3576.6	3578.9	3585.7	3581.2
7.5°	3545.0	3549.5	3549.5	3540.4	3533.6	3533.6	3531.4	3533.6	3535.9	3542.7	3540.4
10°	3531.4	3533.6	3522.3	3506.5	3495.2	3488.4	3490.6	3495.2	3506.5	3511.0	3513.3
12.5°	3540.4	3540.4	3520.1	3497.4	3477.0	3468.0	3465.7	3481.6	3501.9	3515.5	3520.1
15°	3551.7	3547.2	3522.3	3492.9	3472.5	3470.2	3468.0	3479.3	3508.7	3535.9	3538.2
17.5°	3558.5	3556.3	3524.6	3488.4	3477.0	3477.0	3474.8	3483.8	3515.5	3549.5	3551.7
20°	3581.2	3574.4	3538.2	3499.7	3490.6	3495.2	3488.4	3499.7	3533.6	3574.4	3583.4
22.5°	3626.4	3619.7	3583.4	3545.0	3540.4	3540.4	3538.2	3549.5	3585.7	3628.7	3635.5
25°	3680.8	3674.0	3640.0	3612.9	3617.4	3626.4	3621.9	3624.2	3653.6	3689.8	3701.1
27.5°	3753.2	3741.9	3712.5	3689.8	3703.4	3703.4	3703.4	3701.1	3719.3	3753.2	3764.5
30°	3841.5	3837.0	3805.3	3803.0	3814.3	3803.0	3803.0	3805.3	3807.5	3839.2	3850.6
32.5°	3956.9	3947.9	3932.0	3927.5	3959.2	3968.3	3936.6	3907.1	3923.0	3954.7	3961.5
35°	4147.1	4133.5	4110.9	4086.0	4110.9	4153.9	4086.0	4063.3	4104.1	4147.1	4151.6
37.5°	4405.2	4398.4	4362.1	4316.9	4314.6	4359.9	4289.7	4287.4	4364.4	4416.5	4423.3
40°	4728.9	4735.7	4690.4	4647.4	4624.7	4661.0	4606.6	4627.0	4701.7	4760.6	4756.0
42.5°	5183.9	5159.0	5088.8	5048.0	5023.1	5009.6	4996.0	5027.7	5111.4	5174.8	5224.6
45°	5715.8	5706.8	5618.5	5568.7	5514.4	5494.0	5489.5	5546.1	5647.9	5724.9	5731.7
47.5°	6318.0	6297.6	6241.0	6189.0	6168.6	6143.7	6121.0	6164.1	6265.9	6320.2	6336.1
50°	6938.2	6942.8	6942.8	6933.7	6954.1	6958.6	6897.5	6913.3	6969.9	6965.4	6960.9
52.5°	7646.8	7671.7	7789.4	7800.7	7898.0	7963.7	7852.8	7787.1	7766.7	7644.5	7653.6
55°	8479.8	8502.5	8679.0	8855.6	9118.2	9229.1	8995.9	8792.2	8647.3	8461.7	8470.8
57.5°	9518.9	9530.2	9697.7	10037.2	10453.8	10714.1	10304.4	9901.4	9607.1	9430.6	9360.4
60°	10637.1	10648.4	10892.9	11307.2	11954.6	12271.5	11764.4	11105.7	10734.5	10465.1	10483.2
62.5°	11979.5	12024.8	12244.3	12814.8	13600.3	13955.7	13283.4	12402.8	11900.3	11565.2	11578.8
65°	13416.9	13493.9	13733.9	14360.9	15085.3	15467.9	14643.9	13627.5	13002.7	12593.0	12636.0
67.5°	14349.6	14417.5	14763.8	15456.5	16359.7	16676.7	15612.7	14428.8	13647.8	13158.9	13068.3
70°	14111.9	14168.5	14630.3	15612.7	16950.6	17351.2	15843.6	14311.1	13392.0	12828.4	12792.2
72.5°	12457.1	12339.4	13014.0	14424.3	16276.0	16948.3	15117.0	13070.6	11913.8	11334.3	11266.4
75°	8255.7	8511.5	9507.5	11169.1	13770.1	14603.1	12903.1	10494.5	9038.9	8556.8	8482.1
77.5°	2759.4	2956.4	3841.5	6331.6	9387.6	10639.4	9401.1	6863.5	4855.6	3911.7	3929.8
80°	731.2	722.1	934.9	1740.8	4056.5	6161.8	4722.1	2324.8	1272.2	921.3	873.8
82.5°	262.6	294.3	378.0	482.2	1075.3	1915.1	1351.4	651.9	477.6	353.1	341.8
85°	115.4	113.2	163.0	192.4	269.4	357.7	316.9	276.2	242.2	160.7	149.4
87.5°	24.9	24.9	38.5	29.4	47.5	47.5	58.9	70.2	72.4	47.5	38.5
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)