

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: P456367

Luminaire Tested: **GALN-SA7C-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456367
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-SA7C-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37755 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

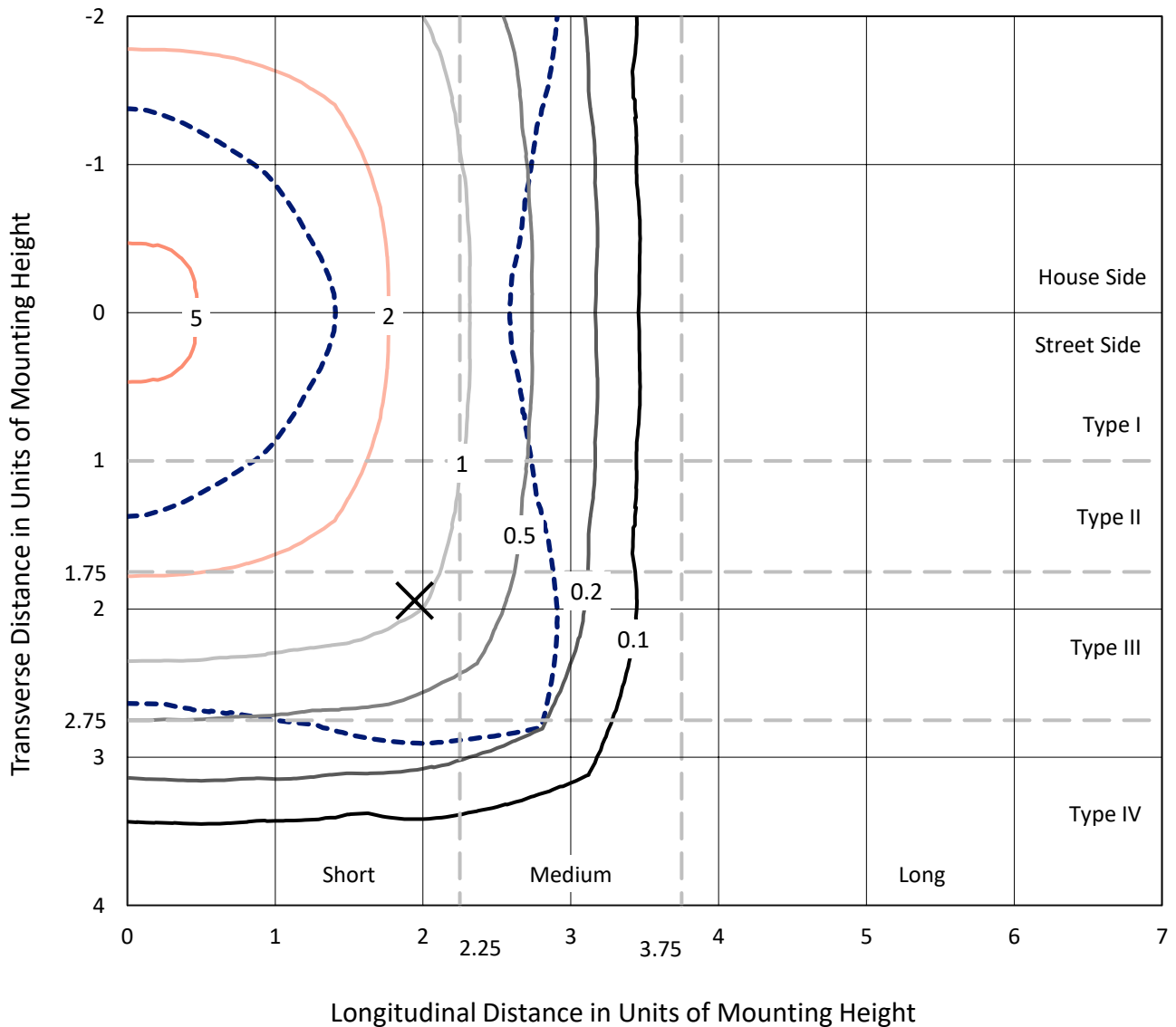
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

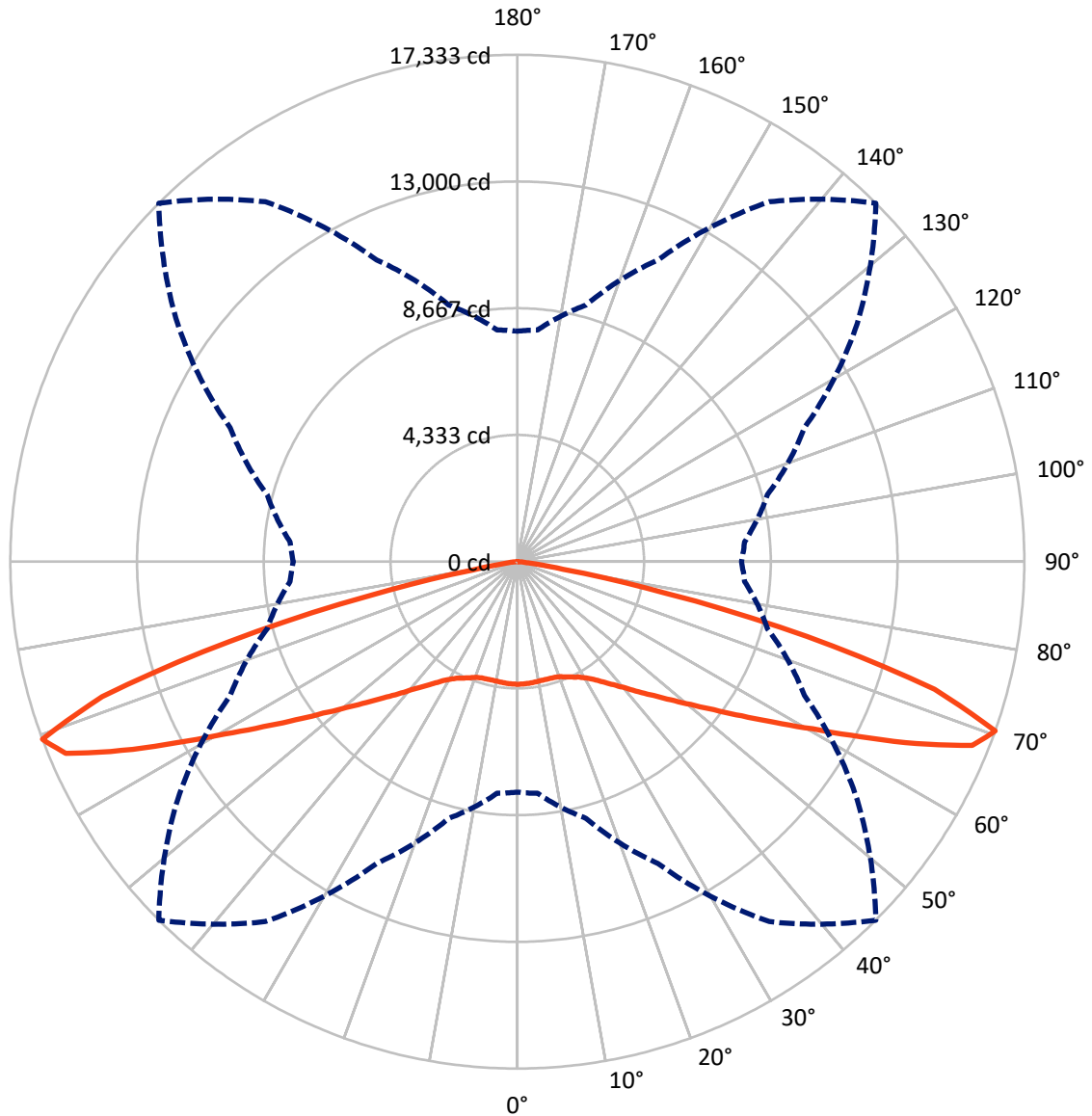
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	18877.5	0.0	18877.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18877.5	0.0	18877.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	37755.0	0.0	37755.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.6	1.1
10°-20°	1166.7	3.1
20°-30°	1995.3	5.3
30°-40°	3167.0	8.4
40°-50°	5109.2	13.5
50°-60°	8312.8	22.0
60°-70°	12050.5	31.9
70°-80°	5345.2	14.2
80°-90°	210.8	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°	37755.0	100.0
0°-180°	37755.0	100.0



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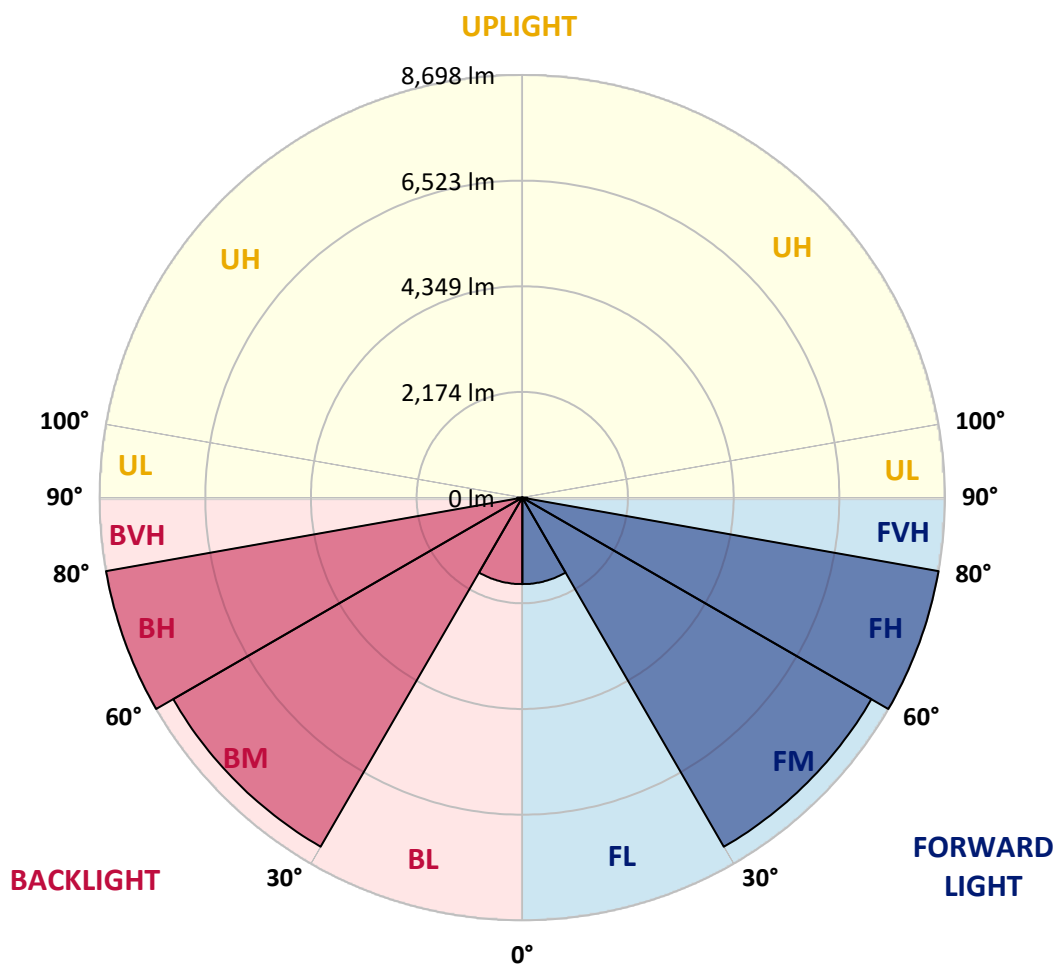
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1779.8	4.7			
FM	(30°-60°)	8294.5	22.0			
FH	(60°-80°)	8697.8	23.0			G4/12000
FVH	(80°-90°)	105.4	0.3			G2/225
BL	(0°-30°)	1779.8	4.7	B3/2500		
BM	(30°-60°)	8294.5	22.0	B4/8500		
BH	(60°-80°)	8697.8	23.0	B5		G4/12000
BVH	(80°-90°)	105.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5
2.5°	4192.5	4196.5	4190.5	4186.5	4184.6	4184.6	4182.6	4184.6	4196.5	4198.5	4192.5
5°	4180.6	4184.6	4182.6	4178.6	4176.6	4176.6	4174.6	4172.6	4182.6	4186.5	4184.6
7.5°	4164.7	4166.6	4164.7	4162.7	4164.7	4162.7	4156.7	4152.7	4160.7	4160.7	4158.7
10°	4136.8	4140.8	4138.8	4140.8	4144.8	4144.8	4136.8	4128.8	4130.8	4126.9	4126.9
12.5°	4103.0	4108.9	4110.9	4118.9	4128.8	4140.8	4122.9	4105.0	4101.0	4099.0	4097.0
15°	4081.1	4087.1	4095.0	4103.0	4120.9	4146.7	4120.9	4093.0	4085.1	4077.1	4073.1
17.5°	4075.1	4083.1	4095.0	4107.0	4130.8	4156.7	4134.8	4107.0	4087.1	4075.1	4071.1
20°	4091.0	4097.0	4114.9	4136.8	4170.6	4196.5	4174.6	4144.8	4114.9	4097.0	4091.0
22.5°	4122.9	4132.8	4154.7	4194.5	4242.3	4280.1	4250.2	4200.5	4152.7	4128.8	4120.9
25°	4192.5	4200.5	4226.3	4280.1	4335.8	4371.6	4339.8	4282.1	4216.4	4184.6	4174.6
27.5°	4298.0	4309.9	4337.8	4401.4	4447.2	4467.1	4445.2	4405.4	4357.7	4323.8	4315.9
30°	4447.2	4461.1	4502.9	4570.6	4600.4	4612.4	4602.4	4576.5	4542.7	4506.9	4498.9
32.5°	4648.2	4656.1	4703.9	4767.6	4795.4	4799.4	4787.5	4775.5	4719.8	4660.1	4656.1
35°	4873.0	4887.0	4944.7	5020.3	5046.1	5048.1	5024.3	5006.3	4940.7	4892.9	4892.9
37.5°	5171.5	5177.5	5233.2	5318.7	5346.6	5338.6	5326.7	5310.8	5241.1	5179.5	5181.4
40°	5521.7	5533.6	5581.4	5680.9	5680.9	5670.9	5678.9	5667.0	5597.3	5537.6	5539.6
42.5°	5937.6	5943.5	6001.2	6106.7	6098.7	6078.8	6086.8	6070.9	6027.1	5959.5	5935.6
45°	6381.3	6405.2	6504.7	6606.1	6590.2	6526.6	6558.4	6554.4	6514.6	6413.1	6419.1
47.5°	6916.6	6956.4	7051.9	7173.2	7155.3	7055.8	7091.7	7115.5	7059.8	6948.4	6928.5
50°	7519.5	7545.3	7686.6	7800.0	7784.1	7678.6	7760.2	7764.2	7624.9	7467.7	7467.7
52.5°	8162.2	8188.0	8379.1	8556.2	8566.1	8412.9	8478.6	8474.6	8247.7	8040.8	8001.0
55°	8882.5	8894.4	9141.2	9401.8	9457.5	9308.3	9316.3	9236.7	8942.2	8701.4	8679.5
57.5°	9626.7	9670.4	9943.0	10281.3	10446.5	10354.9	10313.1	10100.2	9815.7	9539.1	9525.2
60°	10450.4	10452.4	10806.6	11206.6	11540.9	11602.5	11431.4	11146.9	10778.8	10412.6	10396.7
62.5°	11021.5	11107.1	11554.8	12231.3	12830.2	13176.5	12724.8	12127.8	11403.6	10812.6	10752.9
65°	11138.9	11196.6	11879.1	13025.3	14249.0	14995.2	13950.5	12681.0	11445.3	10657.4	10617.6
67.5°	10189.8	10251.5	11170.8	12929.7	15243.9	16774.0	14746.4	12414.4	10737.0	9762.0	9684.4
70°	7881.6	7951.3	9087.4	11381.7	15023.0	17333.2	14179.3	10828.5	8854.6	7802.0	7660.7
72.5°	4190.5	4447.2	5418.2	7812.0	12193.5	14923.5	11626.4	7901.5	5710.7	4668.1	4481.0
75°	1530.2	1562.0	2103.2	3464.2	7093.6	10233.6	7366.3	3768.7	2166.9	1673.4	1587.9
77.5°	632.8	630.8	692.5	1046.6	2576.8	5241.1	2875.3	1106.3	690.5	638.7	630.8
80°	374.1	374.1	411.9	435.8	678.5	1581.9	758.1	493.5	413.9	378.1	384.0
82.5°	167.1	177.1	260.7	274.6	328.3	433.8	366.1	314.4	270.6	187.0	169.1
85°	91.5	79.6	137.3	143.3	157.2	161.2	173.1	171.1	157.2	91.5	93.5
87.5°	17.9	21.9	39.8	29.8	33.8	29.8	39.8	55.7	57.7	31.8	25.9
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)