

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: P459151

Luminaire Tested: **GALN-SA6C-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459151
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-SA6C-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 40732 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

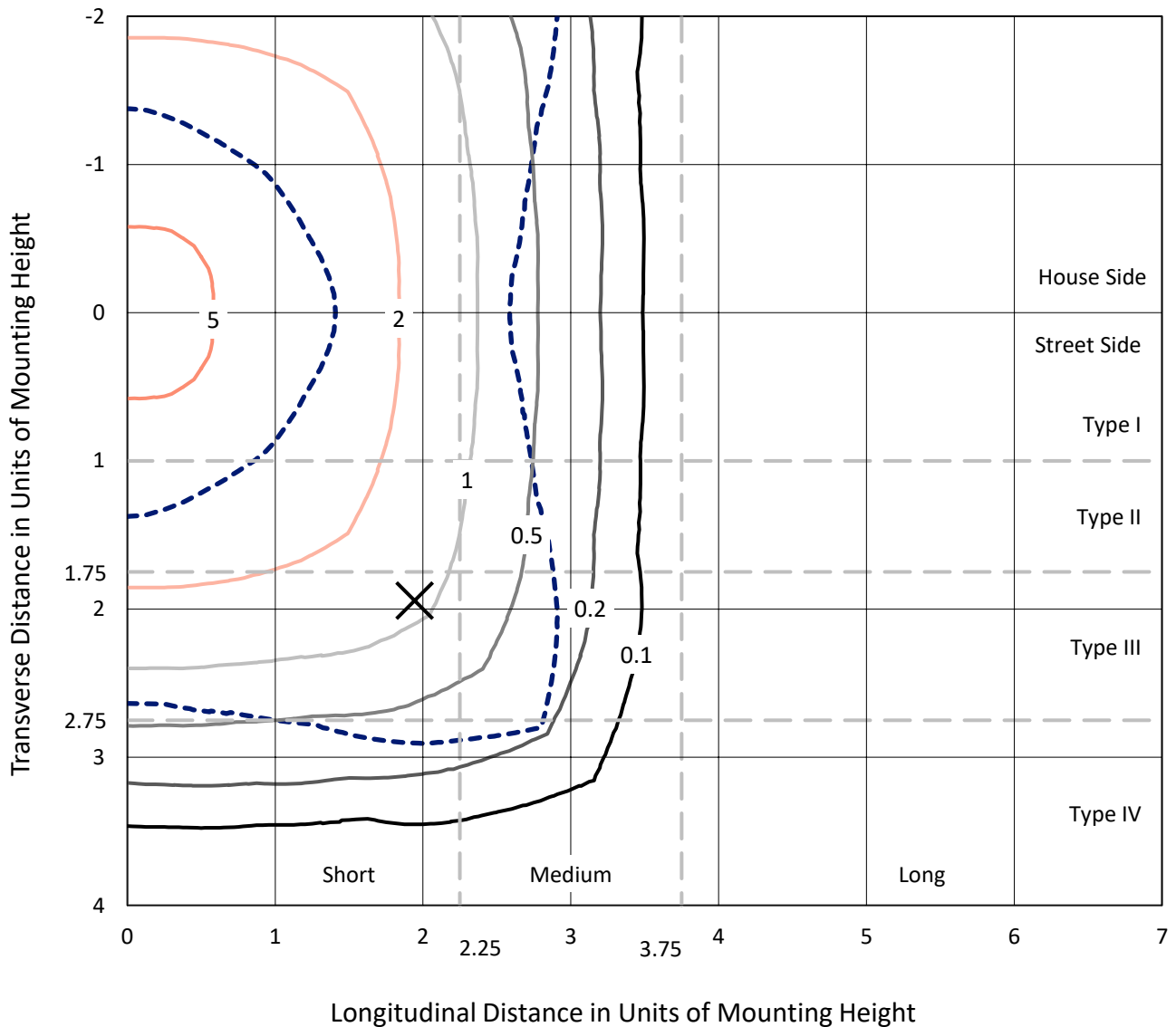
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

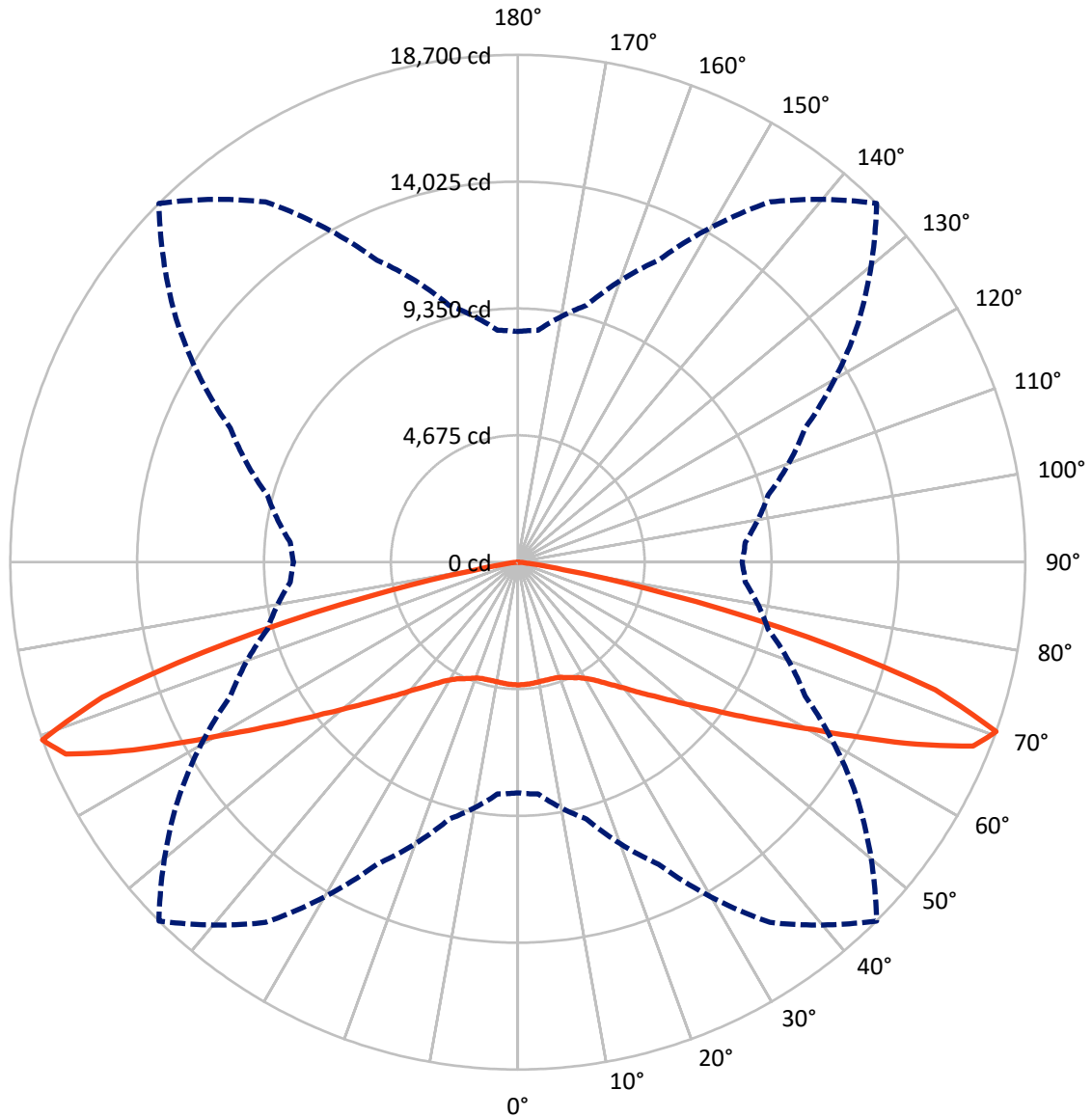
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	20366.0	0.0	20366.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20366.0	0.0	20366.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40732.0	0.0	40732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.9	1.1
10°-20°	1258.6	3.1
20°-30°	2152.6	5.3
30°-40°	3416.7	8.4
40°-50°	5512.1	13.5
50°-60°	8968.2	22.0
60°-70°	13000.7	31.9
70°-80°	5766.7	14.2
80°-90°	227.4	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°	40732.0	100.0
0°-180°	40732.0	100.0

Coefficient of Utilization



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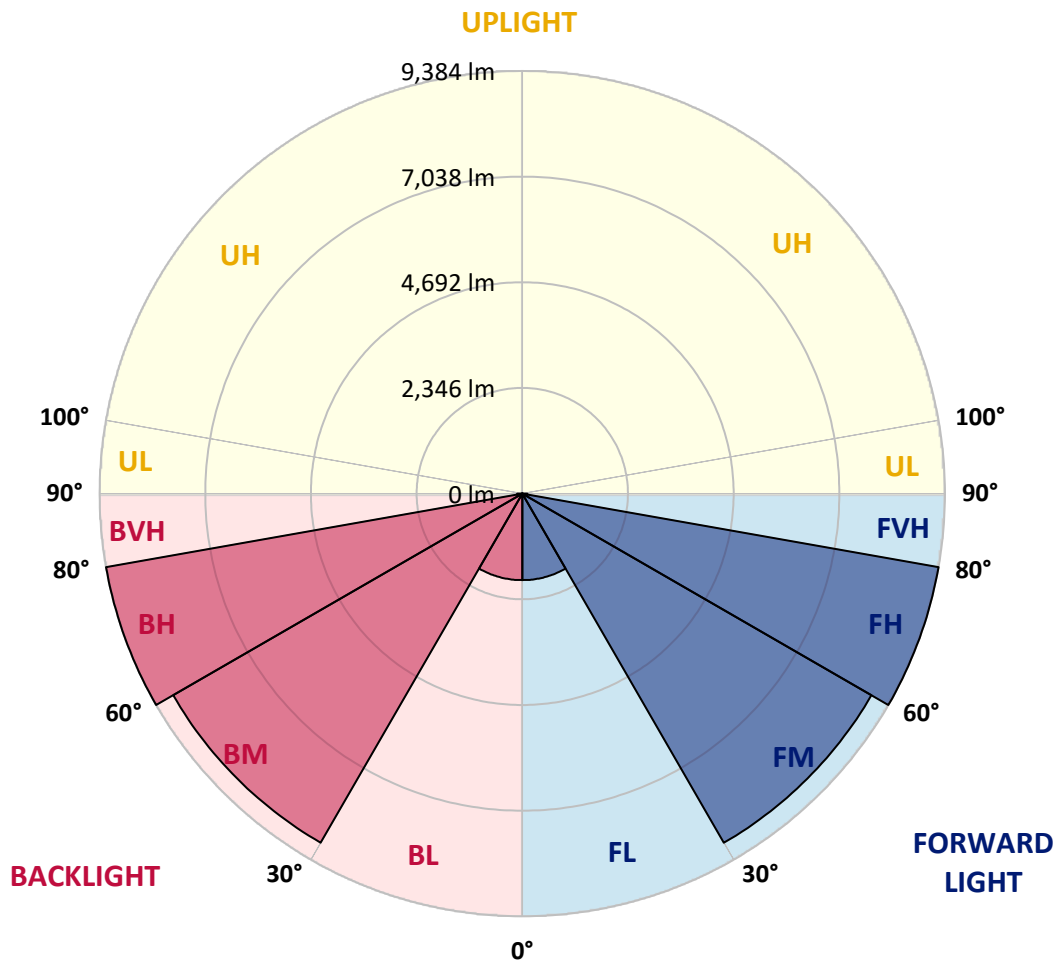
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1920.1	4.7			
FM	(30°-60°)	8948.5	22.0			
FH	(60°-80°)	9383.7	23.0			G4/12000
FVH	(80°-90°)	113.7	0.3			G2/225
BL	(0°-30°)	1920.1	4.7	B3/2500		
BM	(30°-60°)	8948.5	22.0	B5		
BH	(60°-80°)	9383.7	23.0	B5		G4/12000
BVH	(80°-90°)	113.7	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°	4523.1	4523.1	4523.1	4523.1	4523.1	4523.1	4523.1	4523.1	4523.1	4523.1	4523.1
2.5°	4523.1	4527.4	4520.9	4516.7	4514.5	4514.5	4512.4	4514.5	4527.4	4529.5	4523.1
5°	4510.2	4514.5	4512.4	4508.1	4505.9	4505.9	4503.8	4501.6	4512.4	4516.7	4514.5
7.5°	4493.0	4495.2	4493.0	4490.9	4493.0	4490.9	4484.5	4480.2	4488.7	4488.7	4486.6
10°	4463.0	4467.3	4465.1	4467.3	4471.6	4471.6	4463.0	4454.4	4456.5	4452.3	4452.3
12.5°	4426.5	4432.9	4435.1	4443.7	4454.4	4467.3	4448.0	4428.6	4424.3	4422.2	4420.1
15°	4402.9	4409.3	4417.9	4426.5	4445.8	4473.7	4445.8	4415.8	4407.2	4398.6	4394.3
17.5°	4396.4	4405.0	4417.9	4430.8	4456.5	4484.5	4460.8	4430.8	4409.3	4396.4	4392.1
20°	4413.6	4420.1	4439.4	4463.0	4499.5	4527.4	4503.8	4471.6	4439.4	4420.1	4413.6
22.5°	4448.0	4458.7	4482.3	4525.2	4576.8	4617.6	4585.4	4531.7	4480.2	4454.4	4445.8
25°	4523.1	4531.7	4559.6	4617.6	4677.7	4716.3	4682.0	4619.7	4548.9	4514.5	4503.8
27.5°	4636.9	4649.8	4679.8	4748.5	4797.9	4819.3	4795.7	4752.8	4701.3	4664.8	4656.2
30°	4797.9	4812.9	4858.0	4931.0	4963.2	4976.1	4965.3	4937.4	4900.9	4862.3	4853.7
32.5°	5014.7	5023.3	5074.8	5143.5	5173.5	5177.8	5165.0	5152.1	5092.0	5027.6	5023.3
35°	5257.3	5272.3	5334.5	5416.1	5444.0	5446.2	5420.4	5401.1	5330.3	5278.7	5278.7
37.5°	5579.3	5585.7	5645.8	5738.1	5768.2	5759.6	5746.7	5729.5	5654.4	5587.9	5590.0
40°	5957.1	5970.0	6021.5	6128.8	6128.8	6118.1	6126.7	6113.8	6038.7	5974.3	5976.4
42.5°	6405.8	6412.2	6474.4	6588.2	6579.6	6558.2	6566.8	6549.6	6502.4	6429.4	6403.6
45°	6884.5	6910.2	7017.6	7127.0	7109.9	7041.2	7075.5	7071.2	7028.3	6918.8	6925.3
47.5°	7461.9	7504.9	7607.9	7738.9	7719.5	7612.2	7650.8	7676.6	7616.5	7496.3	7474.8
50°	8112.4	8140.3	8292.7	8415.1	8397.9	8284.1	8372.1	8376.4	8226.2	8056.6	8056.6
52.5°	8805.8	8833.7	9039.8	9230.8	9241.5	9076.2	9147.1	9142.8	8898.1	8674.8	8631.9
55°	9582.9	9595.7	9861.9	10143.2	10203.3	10042.3	10050.8	9965.0	9647.3	9387.5	9363.9
57.5°	10385.7	10433.0	10727.1	11092.0	11270.2	11171.4	11126.3	10896.6	10589.7	10291.3	10276.3
60°	11274.5	11276.6	11658.7	12090.2	12450.9	12517.4	12332.8	12025.8	11628.7	11233.7	11216.5
62.5°	11890.6	11982.9	12465.9	13195.8	13841.9	14215.4	13728.1	13084.1	12302.7	11665.2	11600.8
65°	12017.2	12079.5	12815.8	14052.3	15372.5	16177.5	15050.5	13680.9	12347.8	11497.7	11454.8
67.5°	10993.3	11059.8	12051.6	13949.3	16445.9	18096.7	15909.2	13393.3	11583.6	10531.7	10448.0
70°	8503.1	8578.2	9804.0	12279.1	16207.6	18699.9	15297.4	11682.3	9552.8	8417.2	8264.8
72.5°	4520.9	4797.9	5845.5	8427.9	13155.0	16100.2	12543.2	8524.5	6161.0	5036.2	4834.4
75°	1650.8	1685.2	2269.1	3737.4	7653.0	11040.5	7947.1	4065.8	2337.8	1805.4	1713.1
77.5°	682.7	680.5	747.1	1129.2	2780.0	5654.4	3102.0	1193.6	744.9	689.1	680.5
80°	403.6	403.6	444.4	470.1	732.0	1706.6	817.9	532.4	446.5	407.9	414.3
82.5°	180.3	191.1	281.2	296.2	354.2	468.0	395.0	339.2	292.0	201.8	182.5
85°	98.7	85.9	148.1	154.6	169.6	173.9	186.8	184.6	169.6	98.7	100.9
87.5°	19.3	23.6	42.9	32.2	36.5	32.2	42.9	60.1	62.3	34.3	27.9
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)