

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: P459036

Luminaire Tested: **GALN-SA5C-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34228 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

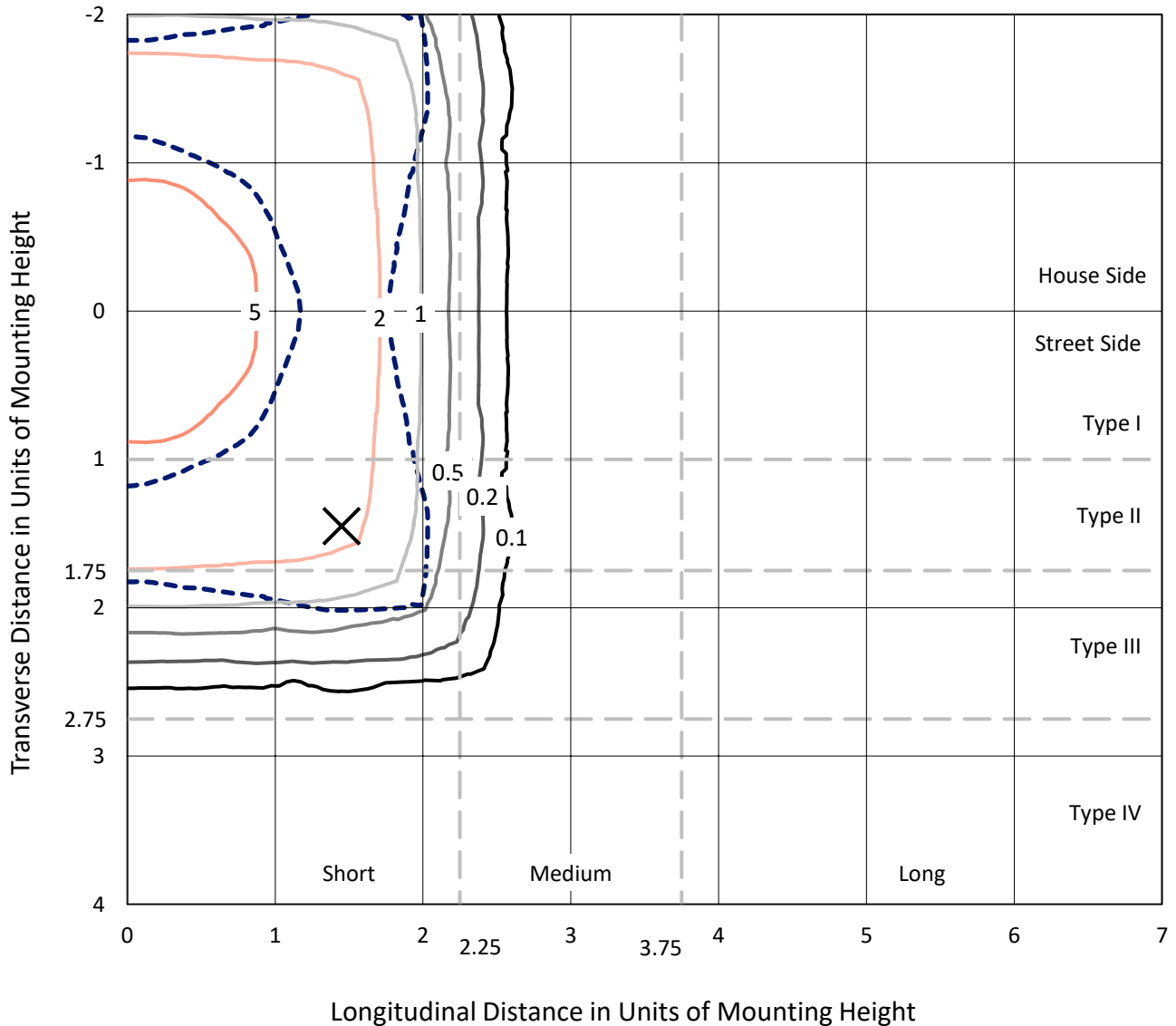
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

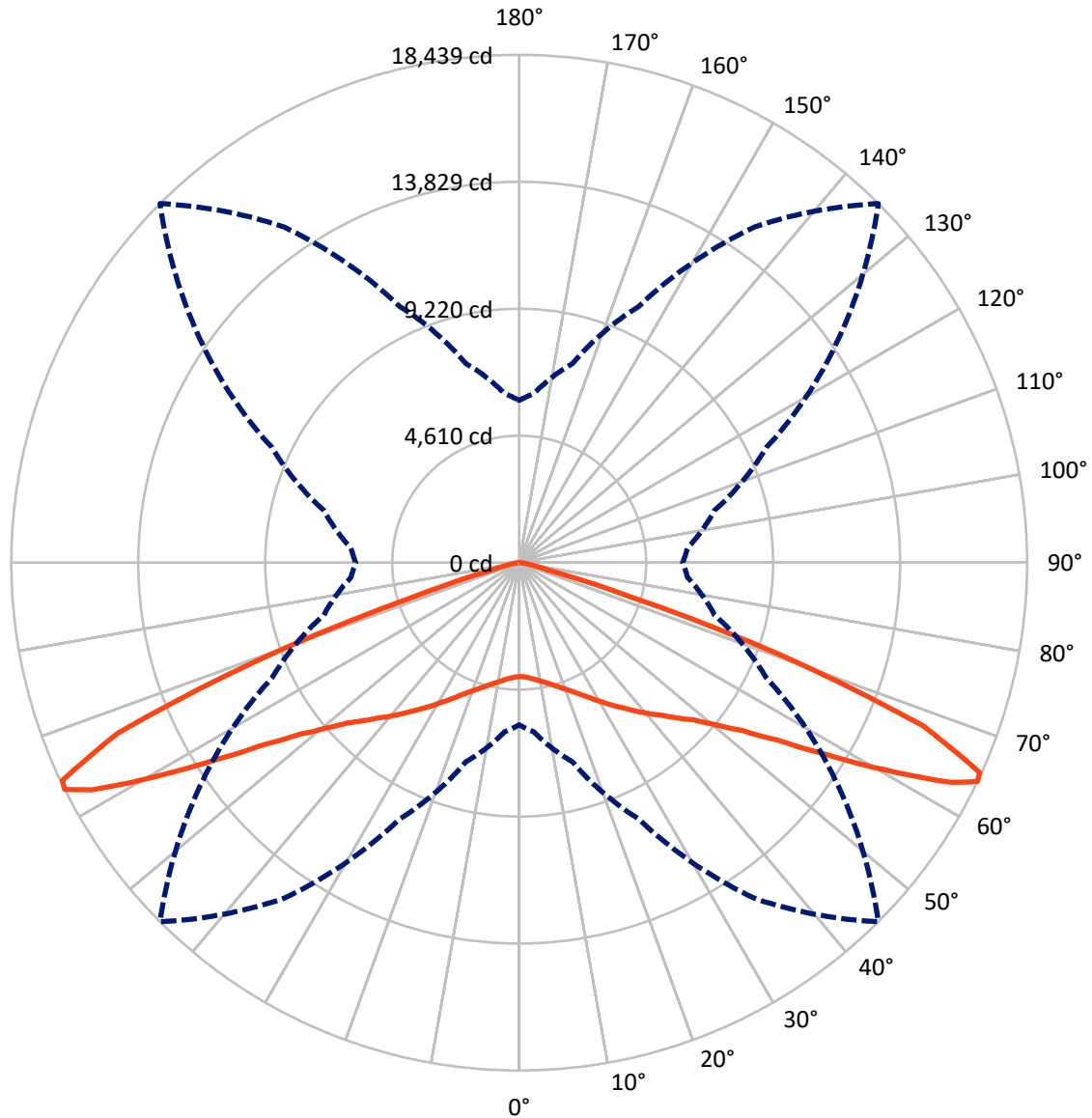
× Max cd
 - - - 1/2 Max cd



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 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17114.0	0.0	17114.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17114.0	0.0	17114.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34228.0	0.0	34228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.4	1.2
10°-20°	1311.0	3.8
20°-30°	2477.4	7.2
30°-40°	4102.9	12.0
40°-50°	6405.3	18.7
50°-60°	9902.5	28.9
60°-70°	8538.8	24.9
70°-80°	967.7	2.8
80°-90°	115.9	0.3
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°	34228.0	100.0
0°-180°	34228.0	100.0

Coefficient of Utilization



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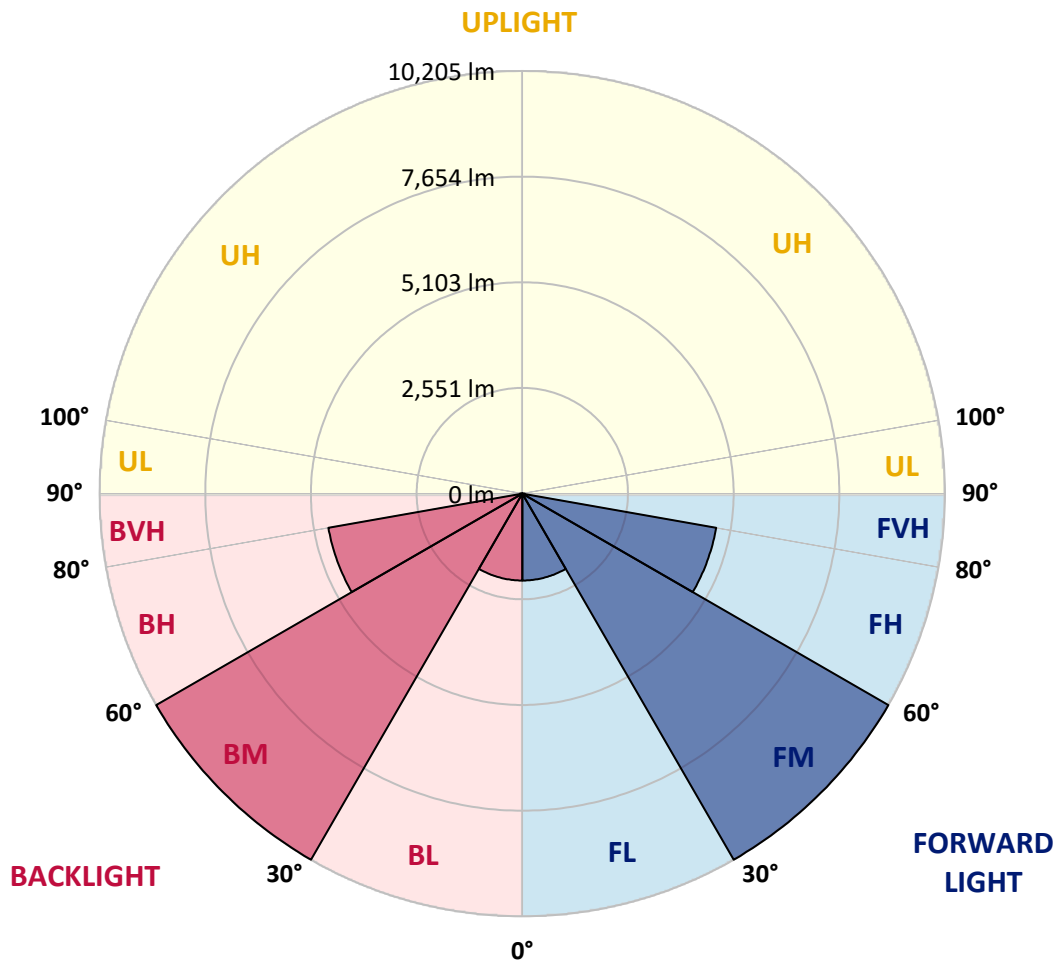
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2097.4	6.1			
FM (30°-60°)	10205.4	29.8			
FH (60°-80°)	4753.2	13.9			G2/5000
FVH (80°-90°)	58.0	0.2			G1/100
BL (0°-30°)	2097.4	6.1	B3/2500		
BM (30°-60°)	10205.4	29.8	B5		
BH (60°-80°)	4753.2	13.9	B4/5000		G2/5000
BVH (80°-90°)	58.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4137.0	4137.0	4137.0	4137.0	4137.0	4137.0	4137.0	4137.0	4137.0	4137.0	4137.0
2.5°	4153.3	4162.4	4155.2	4153.3	4151.5	4151.5	4151.5	4153.3	4160.6	4166.0	4162.4
5°	4205.9	4213.2	4209.5	4207.7	4205.9	4207.7	4204.1	4202.3	4207.7	4207.7	4205.9
7.5°	4271.2	4280.2	4276.6	4280.2	4282.1	4283.9	4274.8	4267.6	4265.7	4271.2	4267.6
10°	4360.0	4367.3	4369.1	4370.9	4374.5	4372.7	4361.8	4349.1	4347.3	4345.5	4343.7
12.5°	4459.7	4465.2	4467.0	4474.2	4479.7	4481.5	4468.8	4457.9	4439.8	4443.4	4436.2
15°	4572.1	4583.0	4581.2	4592.1	4606.6	4610.2	4597.5	4579.4	4563.1	4554.0	4548.6
17.5°	4709.9	4717.2	4713.5	4724.4	4742.5	4751.6	4740.7	4717.2	4700.8	4680.9	4670.0
20°	4873.1	4885.8	4889.4	4889.4	4905.7	4914.8	4898.4	4891.2	4865.8	4851.3	4842.2
22.5°	5058.0	5063.4	5074.3	5085.2	5101.5	5097.9	5092.4	5081.5	5058.0	5045.3	5030.8
25°	5266.5	5271.9	5299.1	5322.7	5328.1	5324.5	5317.2	5311.8	5290.0	5261.0	5250.1
27.5°	5509.4	5520.3	5556.5	5578.3	5578.3	5580.1	5565.6	5583.7	5536.6	5502.1	5498.5
30°	5814.0	5821.2	5852.0	5873.8	5862.9	5853.8	5850.2	5868.3	5817.6	5755.9	5741.4
32.5°	6114.9	6140.3	6167.5	6214.6	6176.5	6160.2	6156.6	6169.3	6111.3	6042.4	6022.4
35°	6437.6	6455.7	6506.5	6546.4	6511.9	6473.9	6490.2	6530.1	6461.2	6368.7	6365.1
37.5°	6794.7	6811.1	6876.3	6918.0	6892.6	6827.4	6854.6	6901.7	6832.8	6718.6	6695.0
40°	7166.4	7200.8	7282.4	7325.9	7284.2	7197.2	7248.0	7298.7	7237.1	7104.7	7052.2
42.5°	7583.3	7637.7	7755.6	7777.3	7697.6	7579.7	7668.6	7750.1	7706.6	7554.3	7534.4
45°	8071.0	8103.6	8248.7	8295.8	8185.2	8038.4	8149.0	8297.6	8265.0	8089.1	8051.1
47.5°	8616.7	8647.5	8798.0	8868.7	8729.1	8531.5	8730.9	8924.9	8904.9	8716.4	8698.3
50°	9262.1	9269.3	9477.8	9557.6	9418.0	9247.6	9425.2	9666.4	9586.6	9345.5	9341.9
52.5°	9969.1	9978.2	10241.1	10395.1	10317.2	10125.0	10335.3	10482.2	10279.1	9963.7	9940.1
55°	10581.9	10627.2	10986.2	11395.9	11502.8	11363.2	11426.7	11357.8	10857.4	10415.1	10346.2
57.5°	10832.1	10920.9	11466.6	12231.6	12927.8	13134.4	12645.0	11988.7	11087.7	10462.2	10395.1
60°	10221.1	10317.2	11163.8	12615.9	14392.6	15290.0	13914.0	12095.6	10563.7	9684.5	9579.3
62.5°	8185.2	8212.4	9457.9	11711.3	15246.5	17570.6	14448.8	11183.8	9039.1	7844.4	7802.7
64°	5890.1	6169.3	7489.1	10268.2	14873.0	18439.0	14140.6	9905.7	7342.2	6133.0	5937.2
65°	4405.3	4481.5	6036.9	8769.0	14214.9	18373.7	13542.3	8683.8	6080.5	4693.6	4476.0
67.5°	1664.2	1673.3	2228.0	4370.9	10119.6	15808.5	10335.3	4724.4	2561.6	1852.8	1785.7
70°	690.7	703.4	817.6	1470.3	4349.1	10150.4	4983.7	1704.1	937.3	759.6	748.7
72.5°	505.8	513.0	547.5	652.6	1337.9	4167.8	1638.9	723.3	549.3	491.3	485.9
75°	397.0	400.7	426.0	480.4	623.6	1154.8	681.6	496.7	418.8	377.1	373.5
77.5°	302.8	311.8	329.9	366.2	418.8	547.5	451.4	371.6	322.7	288.3	282.8
80°	208.5	219.4	253.8	268.3	281.0	355.3	308.2	281.0	252.0	210.3	197.6
82.5°	128.7	136.0	170.4	183.1	177.7	199.4	197.6	201.2	179.5	130.5	121.5
85°	67.1	70.7	92.5	96.1	88.8	81.6	101.5	117.8	110.6	74.3	72.5
87.5°	14.5	16.3	19.9	18.1	19.9	19.9	25.4	38.1	39.9	25.4	23.6
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)