

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: P454424

Luminaire Tested: **GALN-SA5C-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454424
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-SA5C-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 36926 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

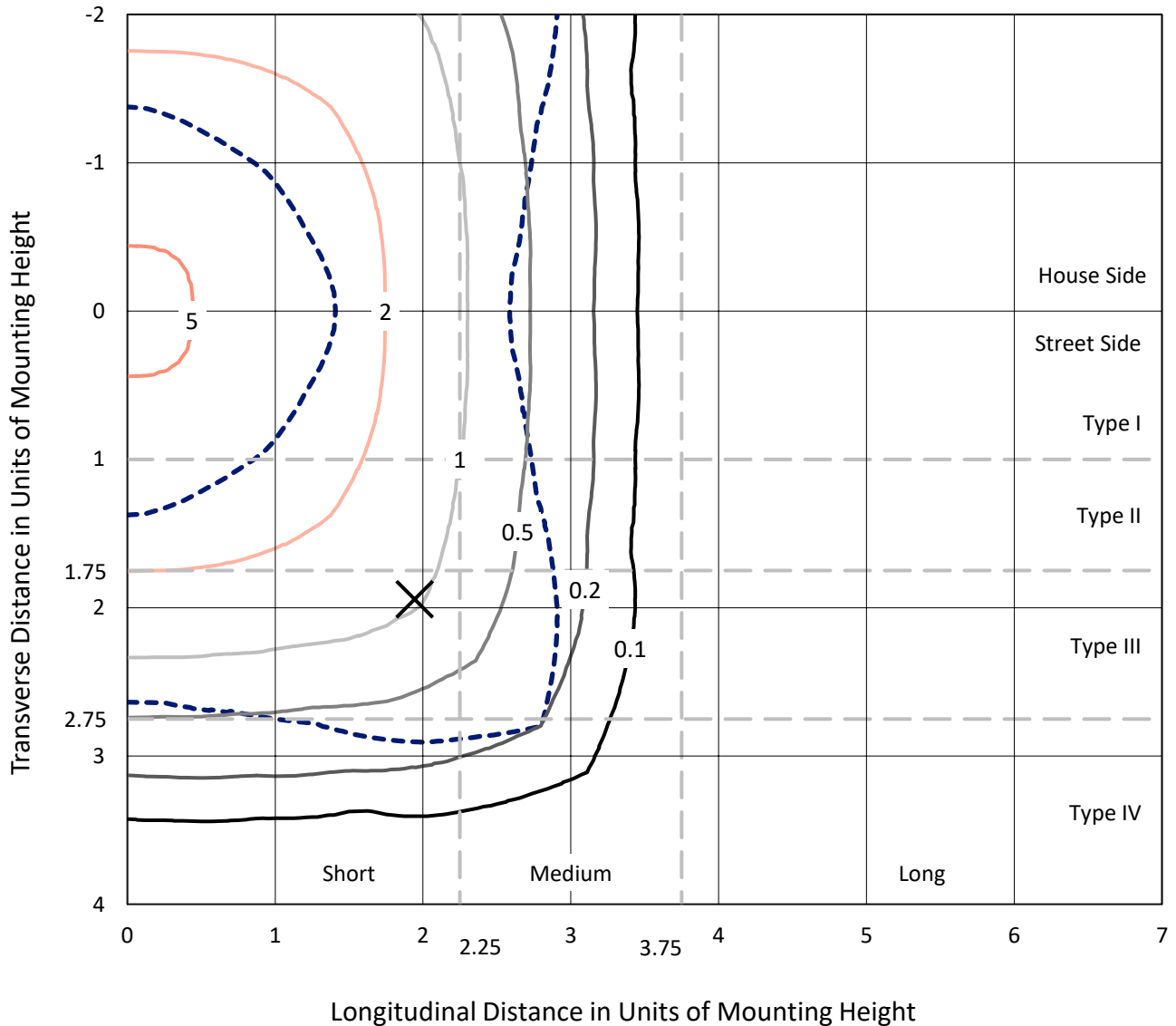
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

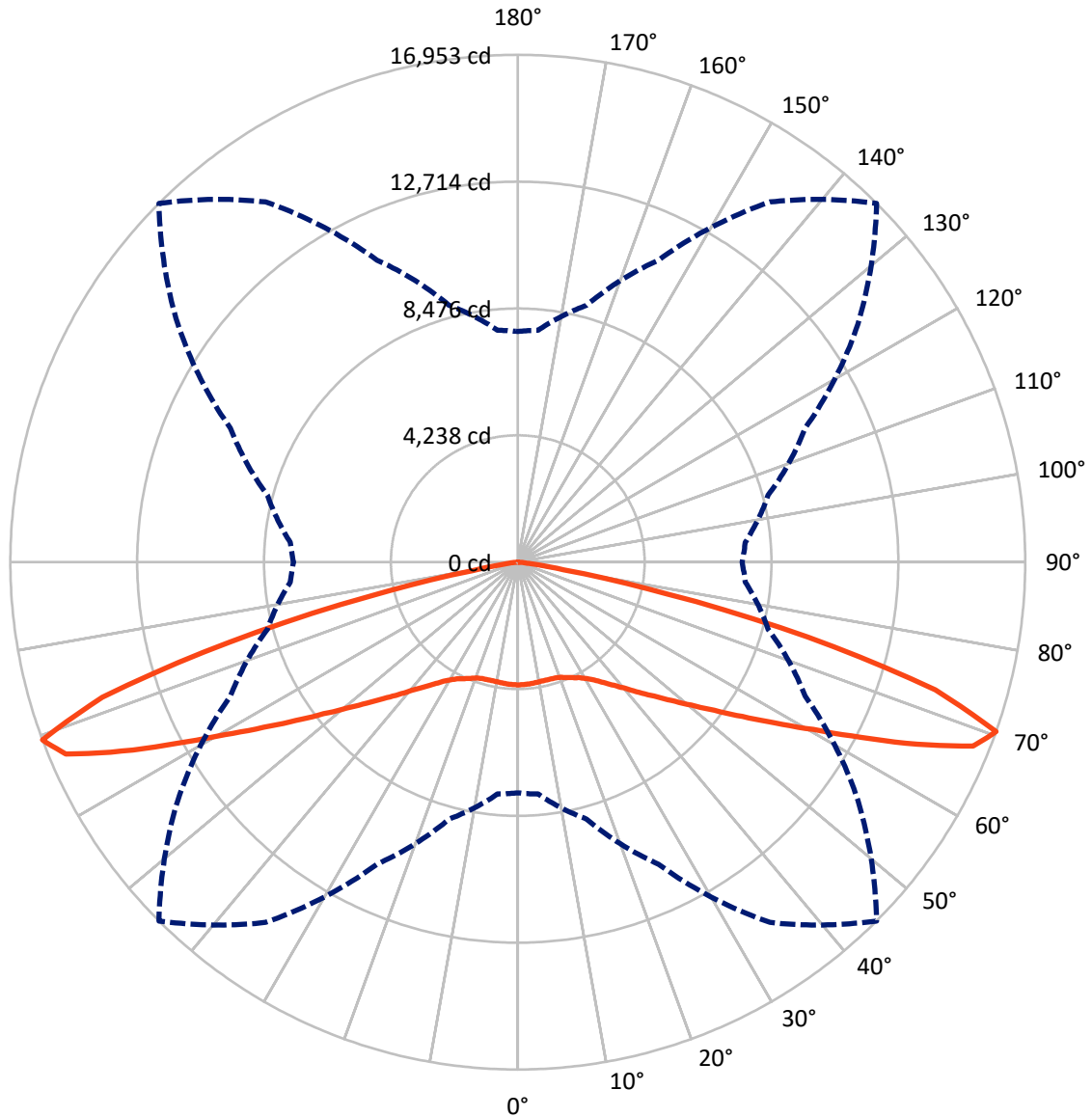
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	18463.0	0.0	18463.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18463.0	0.0	18463.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36926.0	0.0	36926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.8	1.1
10°-20°	1141.0	3.1
20°-30°	1951.5	5.3
30°-40°	3097.5	8.4
40°-50°	4997.0	13.5
50°-60°	8130.2	22.0
60°-70°	11785.9	31.9
70°-80°	5227.8	14.2
80°-90°	206.2	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°	36926.0	100.0
0°-180°	36926.0	100.0

Coefficient of Utilization



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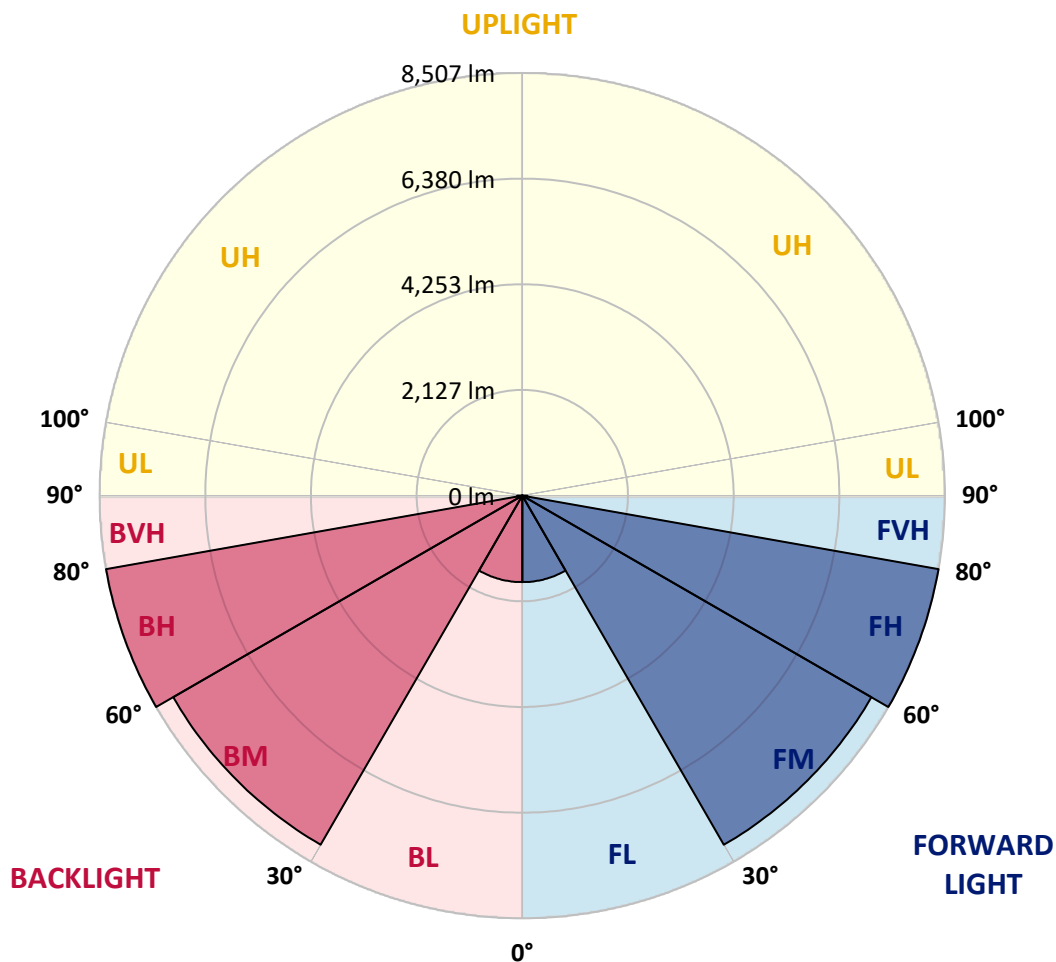
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1740.7	4.7			
FM (30°-60°)	8112.4	22.0			
FH (60°-80°)	8506.9	23.0			G4/12000
FVH (80°-90°)	103.1	0.3			G2/225
BL (0°-30°)	1740.7	4.7	B3/2500		
BM (30°-60°)	8112.4	22.0	B4/8500		
BH (60°-80°)	8506.9	23.0	B5		G4/12000
BVH (80°-90°)	103.1	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°	4100.5	4100.5	4100.5	4100.5	4100.5	4100.5	4100.5	4100.5	4100.5	4100.5	4100.5
2.5°	4100.5	4104.4	4098.5	4094.6	4092.7	4092.7	4090.7	4092.7	4104.4	4106.3	4100.5
5°	4088.8	4092.7	4090.7	4086.8	4084.9	4084.9	4082.9	4081.0	4090.7	4094.6	4092.7
7.5°	4073.2	4075.2	4073.2	4071.3	4073.2	4071.3	4065.4	4061.5	4069.3	4069.3	4067.4
10°	4046.0	4049.9	4047.9	4049.9	4053.8	4053.8	4046.0	4038.2	4040.1	4036.2	4036.2
12.5°	4012.9	4018.7	4020.7	4028.5	4038.2	4049.9	4032.3	4014.8	4010.9	4009.0	4007.0
15°	3991.5	3997.3	4005.1	4012.9	4030.4	4055.7	4030.4	4003.2	3995.4	3987.6	3983.7
17.5°	3985.6	3993.4	4005.1	4016.8	4040.1	4065.4	4044.0	4016.8	3997.3	3985.6	3981.7
20°	4001.2	4007.0	4024.6	4046.0	4079.1	4104.4	4082.9	4053.8	4024.6	4007.0	4001.2
22.5°	4032.3	4042.1	4063.5	4102.4	4149.1	4186.1	4156.9	4108.2	4061.5	4038.2	4030.4
25°	4100.5	4108.2	4133.5	4186.1	4240.6	4275.6	4244.5	4188.0	4123.8	4092.7	4082.9
27.5°	4203.6	4215.3	4242.5	4304.8	4349.6	4369.0	4347.6	4308.7	4262.0	4228.9	4221.1
30°	4349.6	4363.2	4404.1	4470.2	4499.4	4511.1	4501.4	4476.1	4443.0	4407.9	4400.2
32.5°	4546.1	4553.9	4600.6	4662.9	4690.1	4694.0	4682.3	4670.7	4616.2	4557.8	4553.9
35°	4766.0	4779.7	4836.1	4910.0	4935.3	4937.3	4913.9	4896.4	4832.2	4785.5	4785.5
37.5°	5057.9	5063.8	5118.3	5202.0	5229.2	5221.4	5209.7	5194.2	5126.1	5065.7	5067.7
40°	5400.5	5412.1	5458.8	5556.2	5556.2	5546.4	5554.2	5542.5	5474.4	5416.0	5418.0
42.5°	5807.2	5813.0	5869.5	5972.6	5964.8	5945.4	5953.2	5937.6	5894.8	5828.6	5805.3
45°	6241.2	6264.5	6361.8	6461.1	6445.5	6383.2	6414.4	6410.5	6371.6	6272.3	6278.2
47.5°	6764.7	6803.6	6897.0	7015.7	6998.2	6900.9	6935.9	6959.3	6904.8	6795.8	6776.4
50°	7354.4	7379.7	7517.8	7628.8	7613.2	7510.0	7589.8	7593.7	7457.5	7303.8	7303.8
52.5°	7983.0	8008.3	8195.1	8368.3	8378.0	8228.2	8292.4	8288.5	8066.6	7864.2	7825.3
55°	8687.4	8699.1	8940.4	9195.4	9249.9	9103.9	9111.7	9033.9	8745.8	8510.3	8488.9
57.5°	9415.3	9458.1	9724.7	10055.6	10217.1	10127.6	10086.7	9878.5	9600.2	9329.7	9316.0
60°	10221.0	10222.9	10569.3	10960.5	11287.5	11347.8	11180.4	10902.1	10542.1	10184.0	10168.4
62.5°	10779.5	10863.2	11301.1	11962.8	12548.5	12887.2	12445.4	11861.6	11153.2	10575.2	10516.8
65°	10894.3	10950.8	11618.3	12739.3	13936.1	14665.9	13644.2	12402.6	11194.0	10423.4	10384.5
67.5°	9966.0	10026.4	10925.5	12645.8	14909.2	16405.7	14422.6	12141.8	10501.2	9547.6	9471.7
70°	7708.6	7776.7	8887.9	11131.8	14693.1	16952.6	13868.0	10590.7	8660.2	7630.7	7492.5
72.5°	4098.5	4349.6	5299.3	7640.4	11925.8	14595.8	11371.1	7728.0	5585.3	4565.6	4382.6
75°	1496.6	1527.7	2057.0	3388.2	6937.9	10008.9	7204.5	3685.9	2119.3	1636.7	1553.0
77.5°	618.9	616.9	677.2	1023.7	2520.2	5126.1	2812.1	1082.0	675.3	624.7	616.9
80°	365.9	365.9	402.8	426.2	663.6	1547.2	741.5	482.6	404.8	369.8	375.6
82.5°	163.5	173.2	254.9	268.6	321.1	424.3	358.1	307.5	264.7	182.9	165.4
85°	89.5	77.8	134.3	140.1	153.7	157.6	169.3	167.4	153.7	89.5	91.5
87.5°	17.5	21.4	38.9	29.2	33.1	29.2	38.9	54.5	56.4	31.1	25.3
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)