

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: P456282

Luminaire Tested: **GALN-SA7C-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456282
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-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 51250 lumens
Efficiency: N/A
Efficacy: 135.9 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

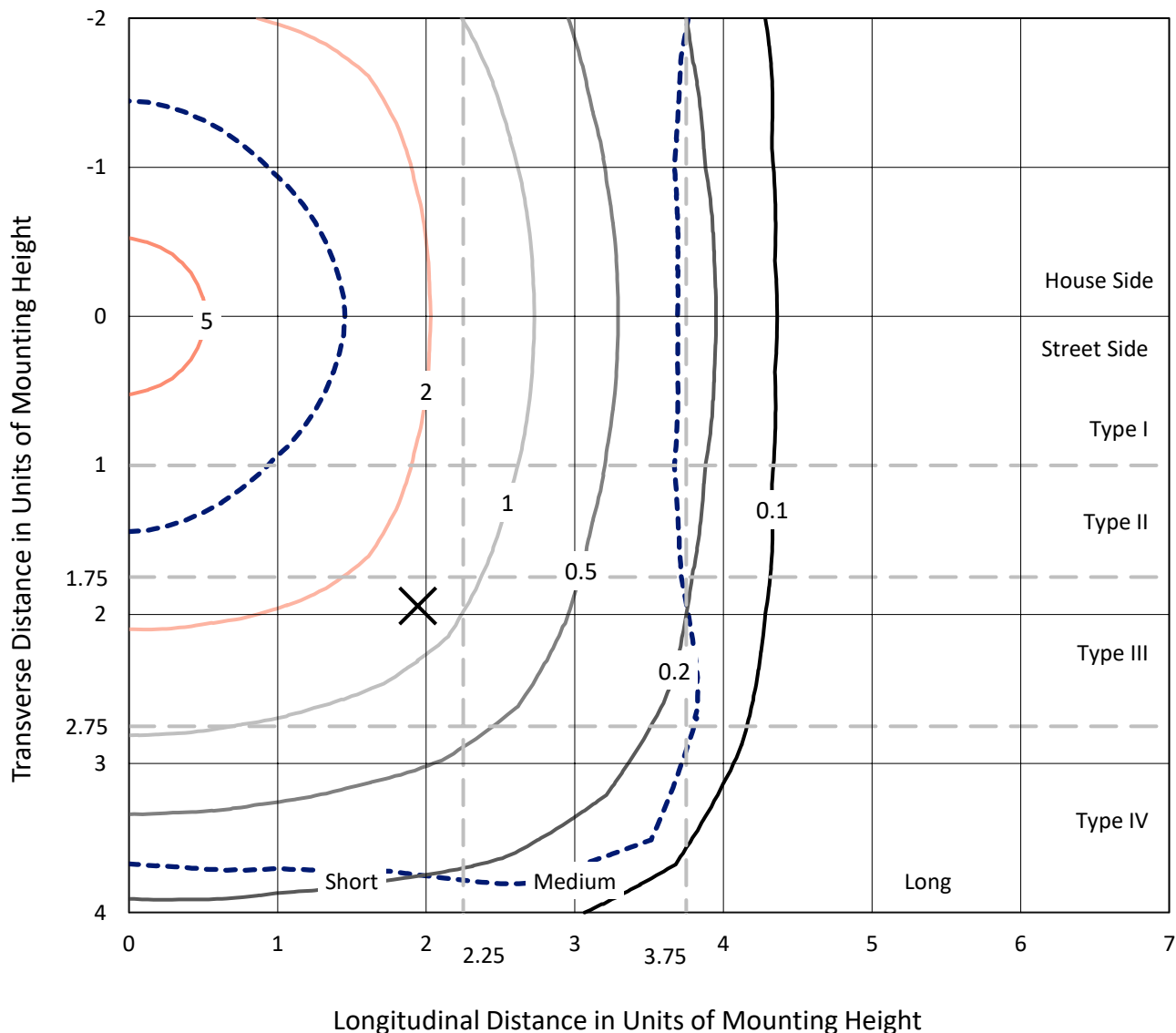
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

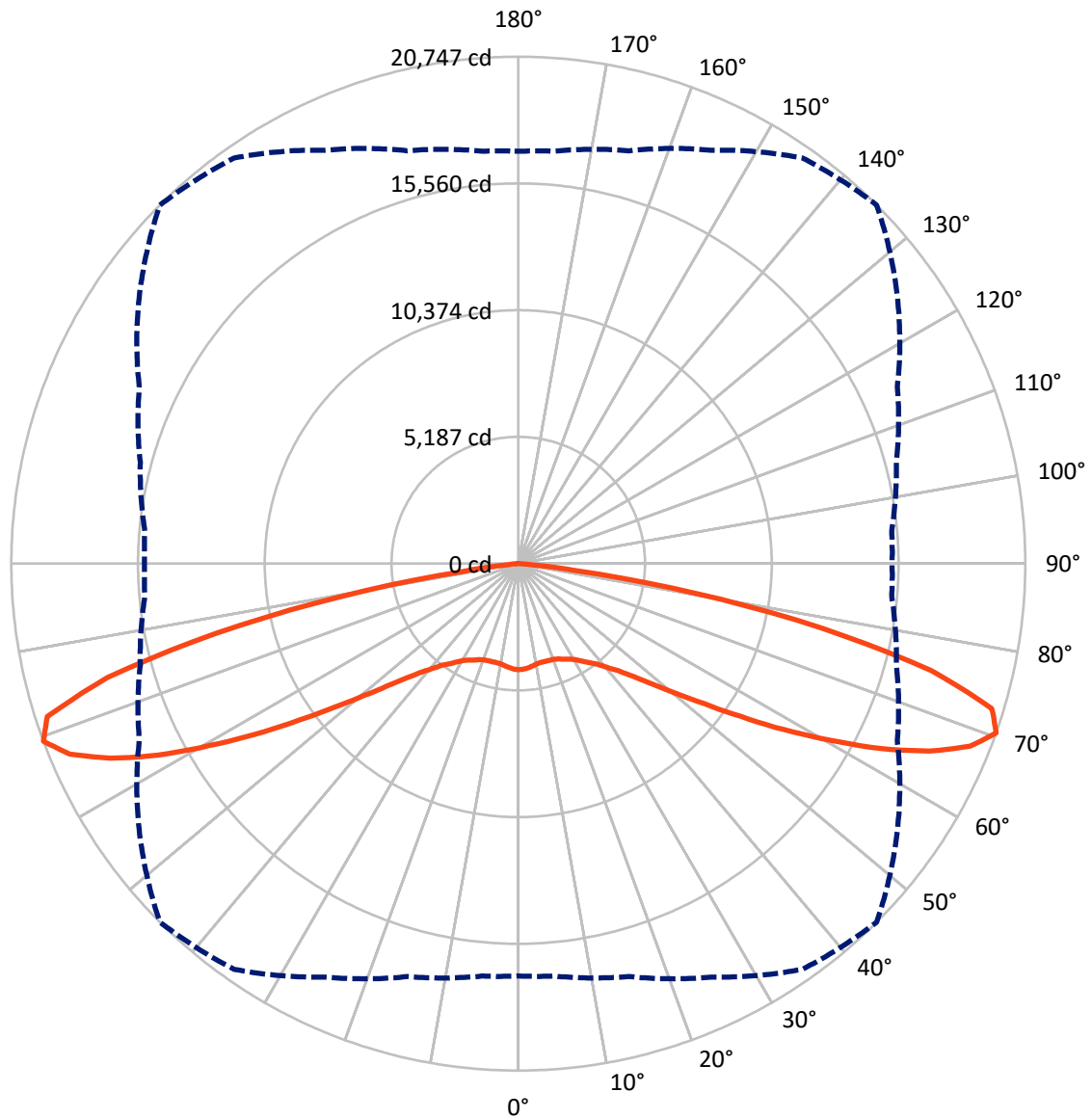
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	25625.0	0.0	25625.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25625.0	0.0	25625.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	51250.0	0.0	51250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.8	0.8
10°-20°	1187.9	2.3
20°-30°	2023.9	3.9
30°-40°	3137.1	6.1
40°-50°	5280.2	10.3
50°-60°	9607.0	18.7
60°-70°	16264.4	31.7
70°-80°	12589.3	24.6
80°-90°	754.4	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°	51250.0	100.0
0°-180°	51250.0	100.0

Coefficient of Utilization



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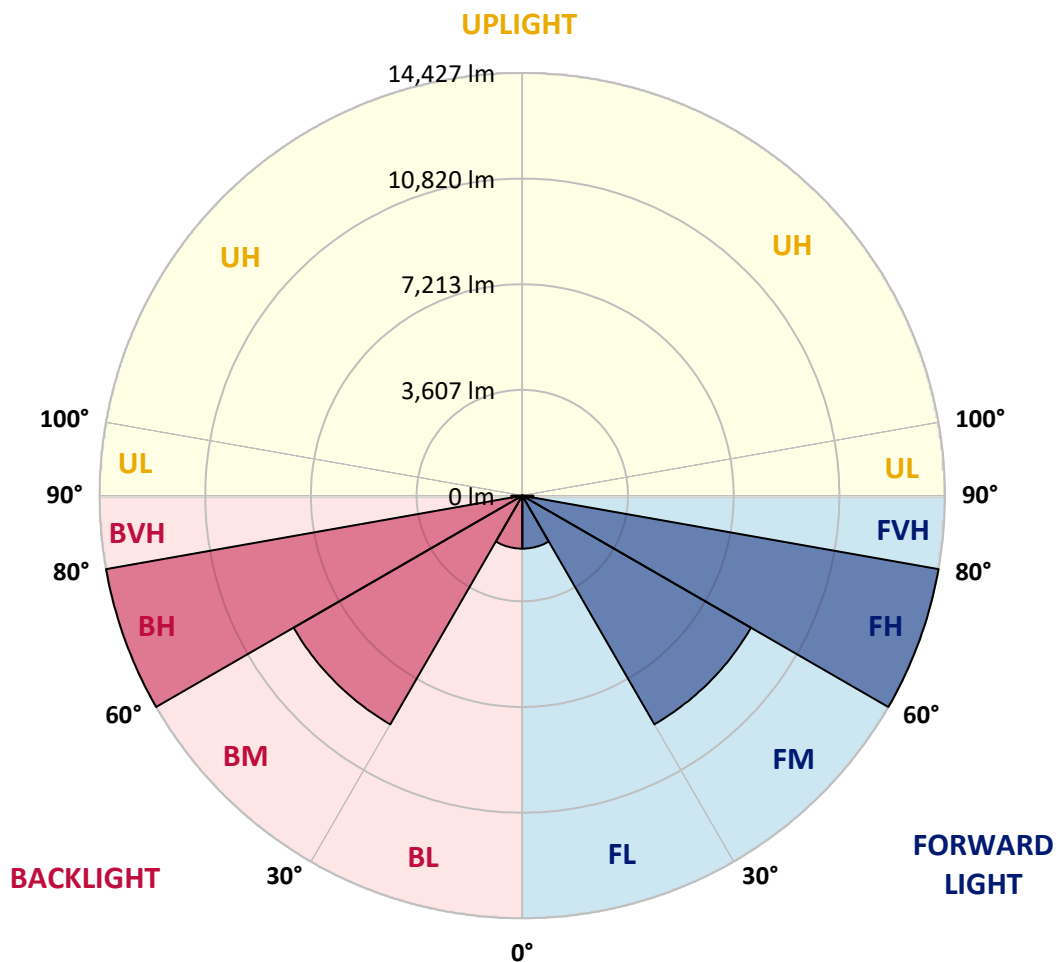
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1808.8	3.5			
FM (30°-60°)	9012.1	17.6			
FH (60°-80°)	14426.9	28.1			G5
FVH (80°-90°)	377.2	0.7			G3/500
BL (0°-30°)	1808.8	3.5	B3/2500		
BM (30°-60°)	9012.1	17.6	B5		
BH (60°-80°)	14426.9	28.1	B5		G5
BVH (80°-90°)	377.2	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°	4338.9	4338.9	4338.9	4338.9	4338.9	4338.9	4338.9	4338.9	4338.9	4338.9	4338.9
2.5°	4328.1	4330.8	4330.8	4325.4	4322.7	4322.7	4320.0	4320.0	4328.1	4330.8	4333.5
5°	4290.2	4290.2	4290.2	4287.5	4282.1	4282.1	4276.7	4276.7	4279.4	4287.5	4282.1
7.5°	4238.8	4244.2	4244.2	4233.4	4225.3	4225.3	4222.5	4225.3	4228.0	4236.1	4233.4
10°	4222.5	4225.3	4211.7	4192.8	4179.2	4171.1	4173.8	4179.2	4192.8	4198.2	4200.9
12.5°	4233.4	4233.4	4209.0	4181.9	4157.6	4146.8	4144.1	4163.0	4187.4	4203.6	4209.0
15°	4246.9	4241.5	4211.7	4176.5	4152.2	4149.5	4146.8	4160.3	4195.5	4228.0	4230.7
17.5°	4255.0	4252.3	4214.4	4171.1	4157.6	4157.6	4154.9	4165.7	4203.6	4244.2	4246.9
20°	4282.1	4274.0	4230.7	4184.7	4173.8	4179.2	4171.1	4184.7	4225.3	4274.0	4284.8
22.5°	4336.2	4328.1	4284.8	4238.8	4233.4	4233.4	4230.7	4244.2	4287.5	4338.9	4347.1
25°	4401.2	4393.1	4352.5	4320.0	4325.4	4336.2	4330.8	4333.5	4368.7	4412.0	4425.6
27.5°	4487.8	4474.3	4439.1	4412.0	4428.3	4428.3	4428.3	4425.6	4447.2	4487.8	4501.3
30°	4593.4	4588.0	4550.1	4547.4	4560.9	4547.4	4547.4	4550.1	4552.8	4590.7	4604.2
32.5°	4731.4	4720.6	4701.6	4696.2	4734.1	4745.0	4707.1	4671.9	4690.8	4728.7	4736.8
35°	4958.8	4942.5	4915.5	4885.7	4915.5	4966.9	4885.7	4858.6	4907.4	4958.8	4964.2
37.5°	5267.4	5259.2	5215.9	5161.8	5159.1	5213.2	5129.3	5126.6	5218.6	5280.9	5289.0
40°	5654.4	5662.5	5608.4	5557.0	5529.9	5573.2	5508.3	5532.6	5621.9	5692.3	5686.9
42.5°	6198.5	6168.7	6084.8	6036.1	6006.3	5990.1	5973.8	6011.7	6111.9	6187.7	6247.2
45°	6834.6	6823.7	6718.2	6658.6	6593.7	6569.3	6563.9	6631.6	6753.4	6845.4	6853.5
47.5°	7554.6	7530.2	7462.5	7400.3	7375.9	7346.2	7319.1	7370.5	7492.3	7557.3	7576.2
50°	8296.2	8301.6	8301.6	8290.8	8315.2	8320.6	8247.5	8266.5	8334.1	8328.7	8323.3
52.5°	9143.4	9173.2	9314.0	9327.5	9443.9	9522.4	9389.8	9311.3	9286.9	9140.7	9151.6
55°	10139.5	10166.6	10377.7	10588.9	10902.8	11035.5	10756.7	10513.1	10339.8	10117.9	10128.7
57.5°	11381.9	11395.5	11595.8	12001.8	12499.8	12811.1	12321.2	11839.4	11487.5	11276.4	11192.5
60°	12719.1	12732.6	13024.9	13520.3	14294.4	14673.4	14067.0	13279.4	12835.5	12513.4	12535.0
62.5°	14324.2	14378.3	14640.9	15323.0	16262.2	16687.2	15883.3	14830.4	14229.4	13828.8	13845.1
65°	16043.0	16135.0	16421.9	17171.7	18037.9	18495.3	17510.0	16294.7	15547.6	15057.7	15109.1
67.5°	17158.2	17239.4	17653.5	18481.8	19561.8	19940.7	18668.5	17252.9	16319.1	15734.4	15626.1
70°	16874.0	16941.6	17493.8	18668.5	20268.2	20747.3	18944.6	17112.2	16013.2	15339.2	15295.9
72.5°	14895.3	14754.6	15561.2	17247.5	19461.6	20265.5	18075.8	15628.8	14245.7	13552.8	13471.6
75°	9871.6	10177.4	11368.4	13355.2	16465.2	17461.3	15428.5	12548.6	10808.1	10231.6	10142.2
77.5°	3299.5	3535.0	4593.4	7570.8	11224.9	12721.8	11241.2	8206.9	5806.0	4677.3	4698.9
80°	874.3	863.5	1117.9	2081.5	4850.5	7367.8	5646.3	2779.8	1521.2	1101.7	1044.8
82.5°	314.0	351.9	452.0	576.5	1285.7	2289.9	1615.9	779.5	571.1	422.3	408.7
85°	138.0	135.3	194.9	230.1	322.1	427.7	378.9	330.2	289.6	192.2	178.6
87.5°	29.8	29.8	46.0	35.2	56.8	56.8	70.4	83.9	86.6	56.8	46.0
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)