

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: P456048

Luminaire Tested: **GALN-SA7B-740-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456048  
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-SA7B-740-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41568 lumens  
Efficiency: N/A  
Efficacy: 145.3 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

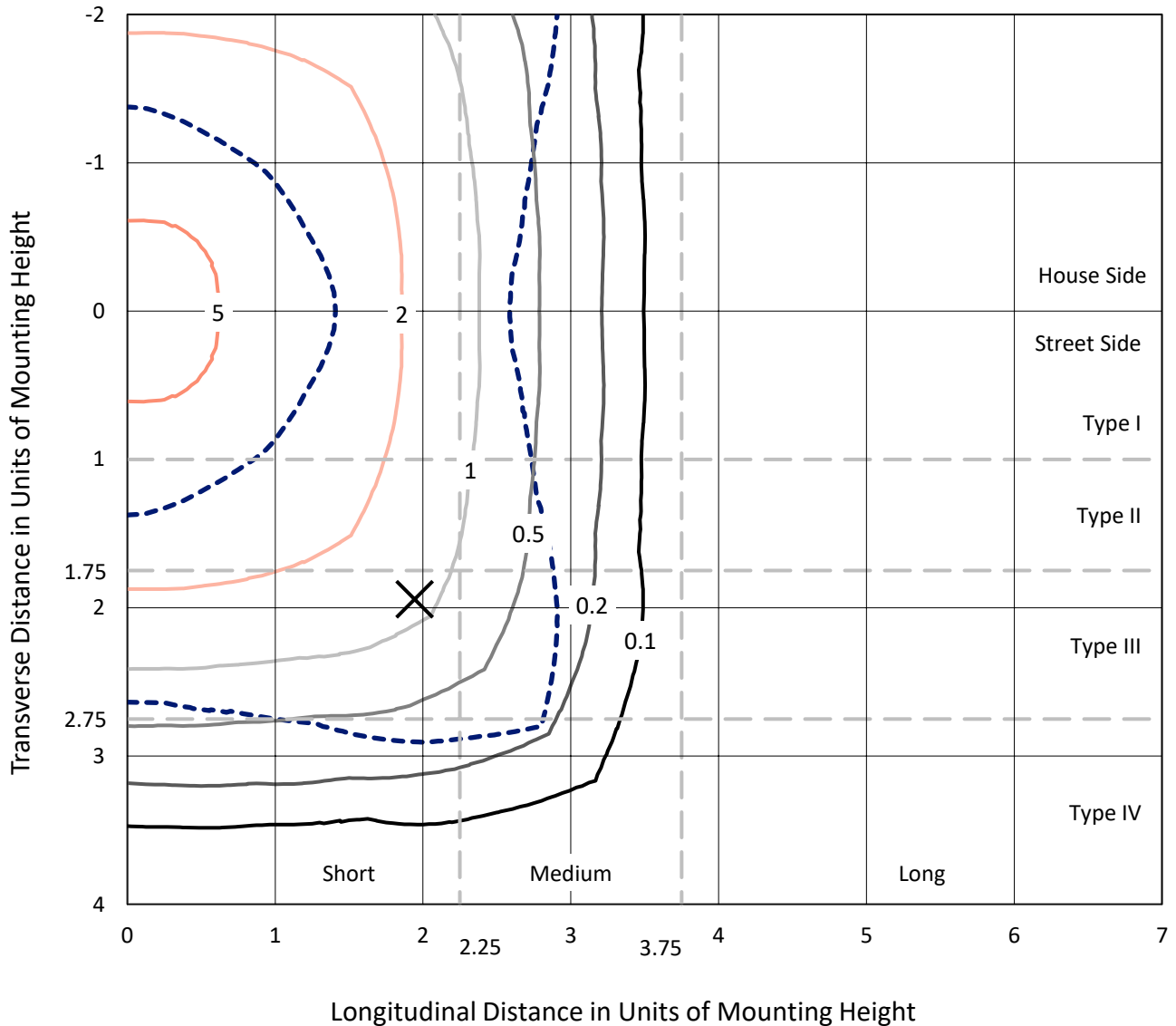
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

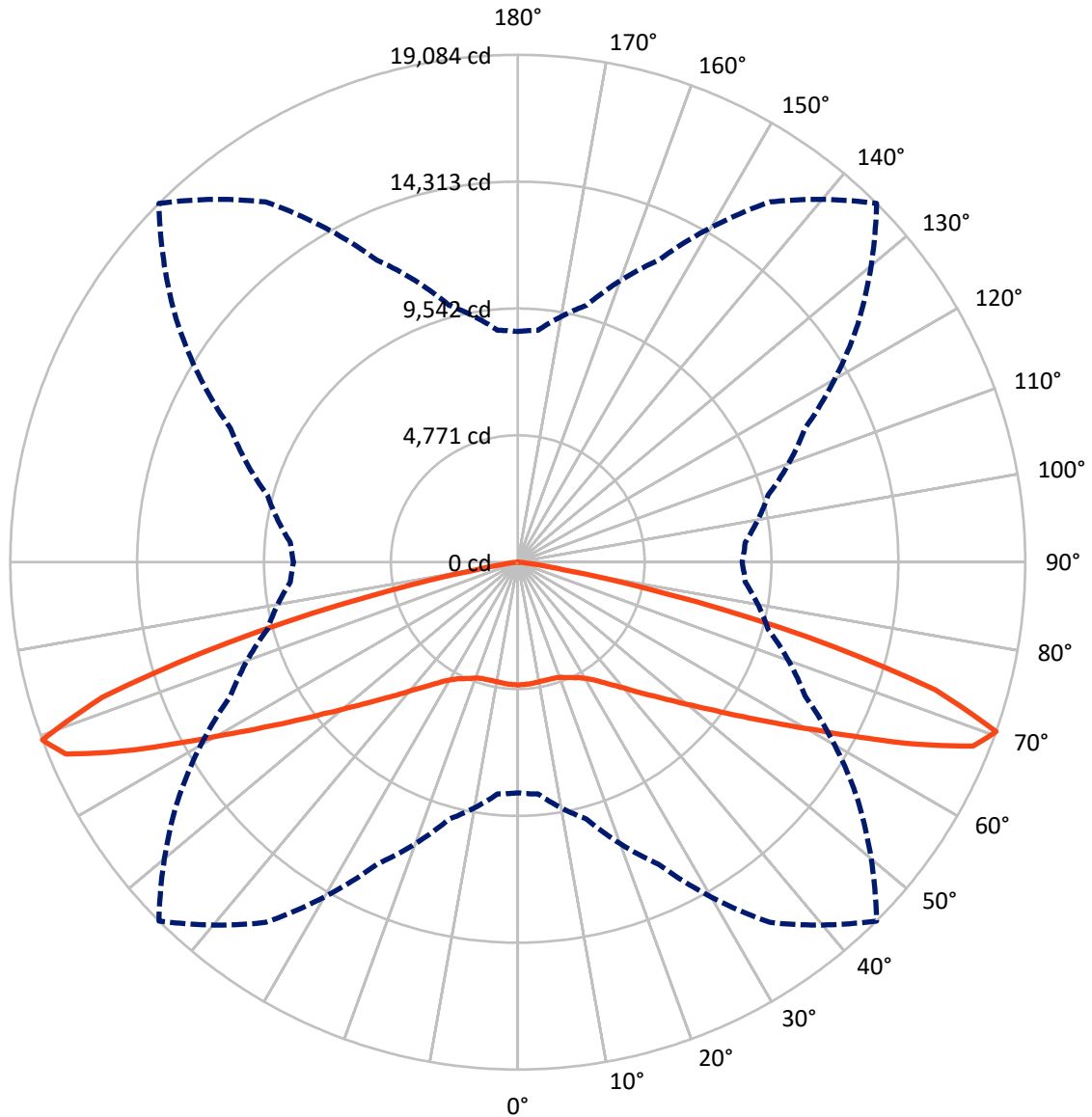
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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
<b>House Side</b>	Lumens	20784.0	0.0	20784.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20784.0	0.0	20784.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	41568.0	0.0	41568.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.7	1.1
10°-20°	1284.5	3.1
20°-30°	2196.8	5.3
30°-40°	3486.8	8.4
40°-50°	5625.2	13.5
50°-60°	9152.3	22.0
60°-70°	13267.5	31.9
70°-80°	5885.0	14.2
80°-90°	232.1	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°	41568.0	100.0
0°-180°	41568.0	100.0

**Coefficient of Utilization**



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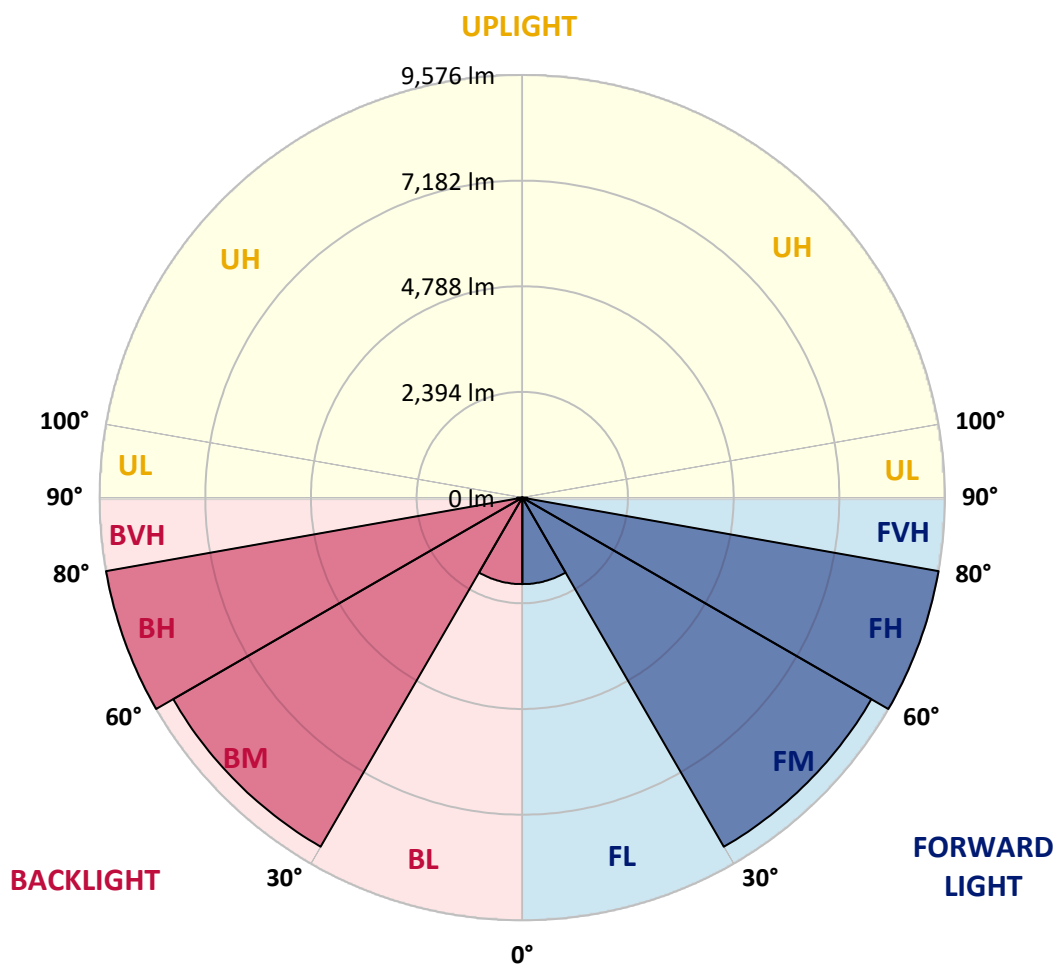
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1959.5	4.7			
FM (30°-60°)	9132.2	22.0			
FH (60°-80°)	9576.3	23.0			G4/12000
FVH (80°-90°)	116.1	0.3			G2/225
BL (0°-30°)	1959.5	4.7	B3/2500		
BM (30°-60°)	9132.2	22.0	B5		
BH (60°-80°)	9576.3	23.0	B5		G4/12000
BVH (80°-90°)	116.1	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°	4615.9	4615.9	4615.9	4615.9	4615.9	4615.9	4615.9	4615.9	4615.9	4615.9	4615.9
2.5°	4615.9	4620.3	4613.7	4609.4	4607.2	4607.2	4605.0	4607.2	4620.3	4622.5	4615.9
5°	4602.8	4607.2	4605.0	4600.6	4598.4	4598.4	4596.2	4594.0	4605.0	4609.4	4607.2
7.5°	4585.3	4587.5	4585.3	4583.1	4585.3	4583.1	4576.5	4572.1	4580.9	4580.9	4578.7
10°	4554.6	4559.0	4556.8	4559.0	4563.4	4563.4	4554.6	4545.8	4548.0	4543.6	4543.6
12.5°	4517.3	4523.9	4526.1	4534.9	4545.8	4559.0	4539.3	4519.5	4515.2	4513.0	4510.8
15°	4493.2	4499.8	4508.6	4517.3	4537.1	4565.5	4537.1	4506.4	4497.6	4488.9	4484.5
17.5°	4486.7	4495.4	4508.6	4521.7	4548.0	4576.5	4552.4	4521.7	4499.8	4486.7	4482.3
20°	4504.2	4510.8	4530.5	4554.6	4591.8	4620.3	4596.2	4563.4	4530.5	4510.8	4504.2
22.5°	4539.3	4550.2	4574.3	4618.1	4670.7	4712.3	4679.5	4624.7	4572.1	4545.8	4537.1
25°	4615.9	4624.7	4653.2	4712.3	4773.7	4813.1	4778.0	4714.5	4642.2	4607.2	4596.2
27.5°	4732.0	4745.2	4775.9	4846.0	4896.3	4918.3	4894.2	4850.3	4797.8	4760.5	4751.8
30°	4896.3	4911.7	4957.7	5032.2	5065.0	5078.2	5067.2	5038.7	5001.5	4962.1	4953.3
32.5°	5117.6	5126.4	5179.0	5249.1	5279.7	5284.1	5271.0	5257.8	5196.5	5130.8	5126.4
35°	5365.2	5380.5	5444.0	5527.3	5555.8	5558.0	5531.7	5512.0	5439.7	5387.1	5387.1
37.5°	5693.8	5700.4	5761.7	5855.9	5886.6	5877.8	5864.7	5847.1	5770.5	5702.5	5704.7
40°	6079.4	6092.5	6145.1	6254.6	6254.6	6243.7	6252.4	6239.3	6162.6	6096.9	6099.1
42.5°	6537.2	6543.8	6607.3	6723.4	6714.7	6692.8	6701.5	6684.0	6635.8	6561.3	6535.0
45°	7025.8	7052.1	7161.6	7273.3	7255.8	7185.7	7220.7	7216.4	7172.5	7060.8	7067.4
47.5°	7615.1	7658.9	7764.1	7897.7	7878.0	7768.4	7807.9	7834.2	7772.8	7650.1	7628.2
50°	8278.9	8307.4	8462.9	8587.8	8570.3	8454.1	8544.0	8548.3	8395.0	8221.9	8221.9
52.5°	8986.5	9015.0	9225.3	9420.3	9431.2	9262.5	9334.8	9330.4	9080.7	8852.9	8809.0
55°	9779.6	9792.7	10064.3	10351.3	10412.7	10248.4	10257.1	10169.5	9845.3	9580.2	9556.1
57.5°	10598.9	10647.1	10947.2	11319.7	11501.5	11400.7	11354.7	11120.3	10807.0	10502.5	10487.2
60°	11505.9	11508.1	11898.0	12338.4	12706.4	12774.3	12585.9	12272.6	11867.3	11464.2	11446.7
62.5°	12134.6	12228.8	12721.7	13466.6	14126.0	14507.2	14009.9	13352.7	12555.2	11904.6	11838.9
65°	12263.9	12327.4	13078.8	14340.7	15688.0	16509.6	15359.4	13961.7	12601.2	11733.7	11689.9
67.5°	11218.9	11286.8	12298.9	14235.6	16783.4	18468.1	16235.7	13668.1	11821.3	10747.9	10662.4
70°	8677.6	8754.3	10005.2	12531.1	16540.2	19083.7	15611.4	11922.1	9748.9	8590.0	8434.4
72.5°	4613.7	4896.3	5965.4	8600.9	13425.0	16430.7	12800.6	8699.5	6287.5	5139.5	4933.6
75°	1684.7	1719.7	2315.6	3814.1	7810.1	11267.1	8110.2	4149.3	2385.7	1842.4	1748.2
77.5°	696.7	694.5	762.4	1152.3	2837.0	5770.5	3165.6	1218.1	760.2	703.2	694.5
80°	411.9	411.9	453.5	479.8	747.0	1741.7	834.7	543.3	455.7	416.2	422.8
82.5°	184.0	195.0	287.0	302.3	361.5	477.6	403.1	346.1	297.9	205.9	186.2
85°	100.8	87.6	151.2	157.7	173.1	177.5	190.6	188.4	173.1	100.8	103.0
87.5°	19.7	24.1	43.8	32.9	37.2	32.9	43.8	61.3	63.5	35.1	28.5
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)