

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: P456019

Luminaire Tested: **GALN-SA7B-730-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456019  
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-730-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 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: 37856 lumens  
Efficiency: N/A  
Efficacy: 132.4 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

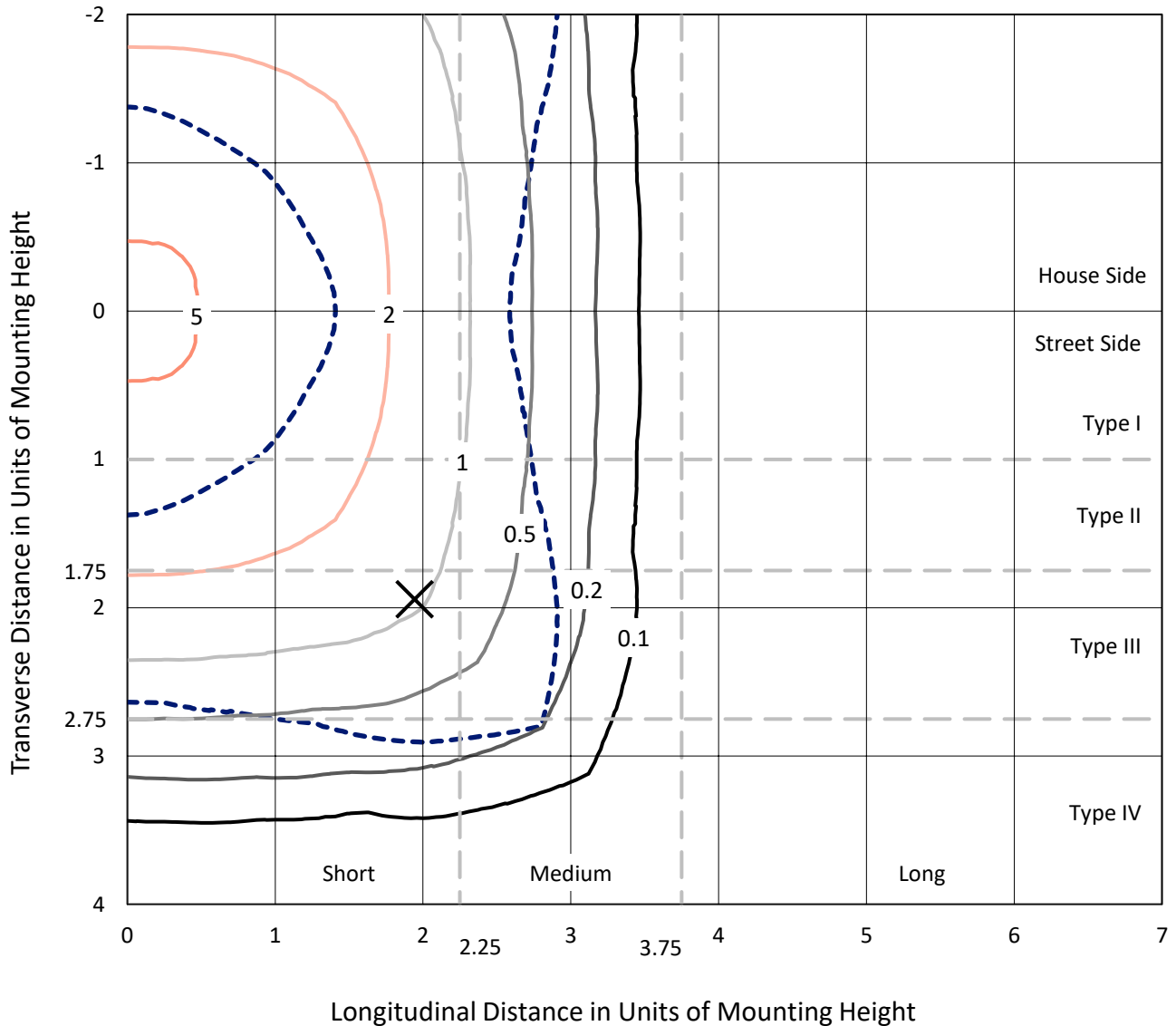
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

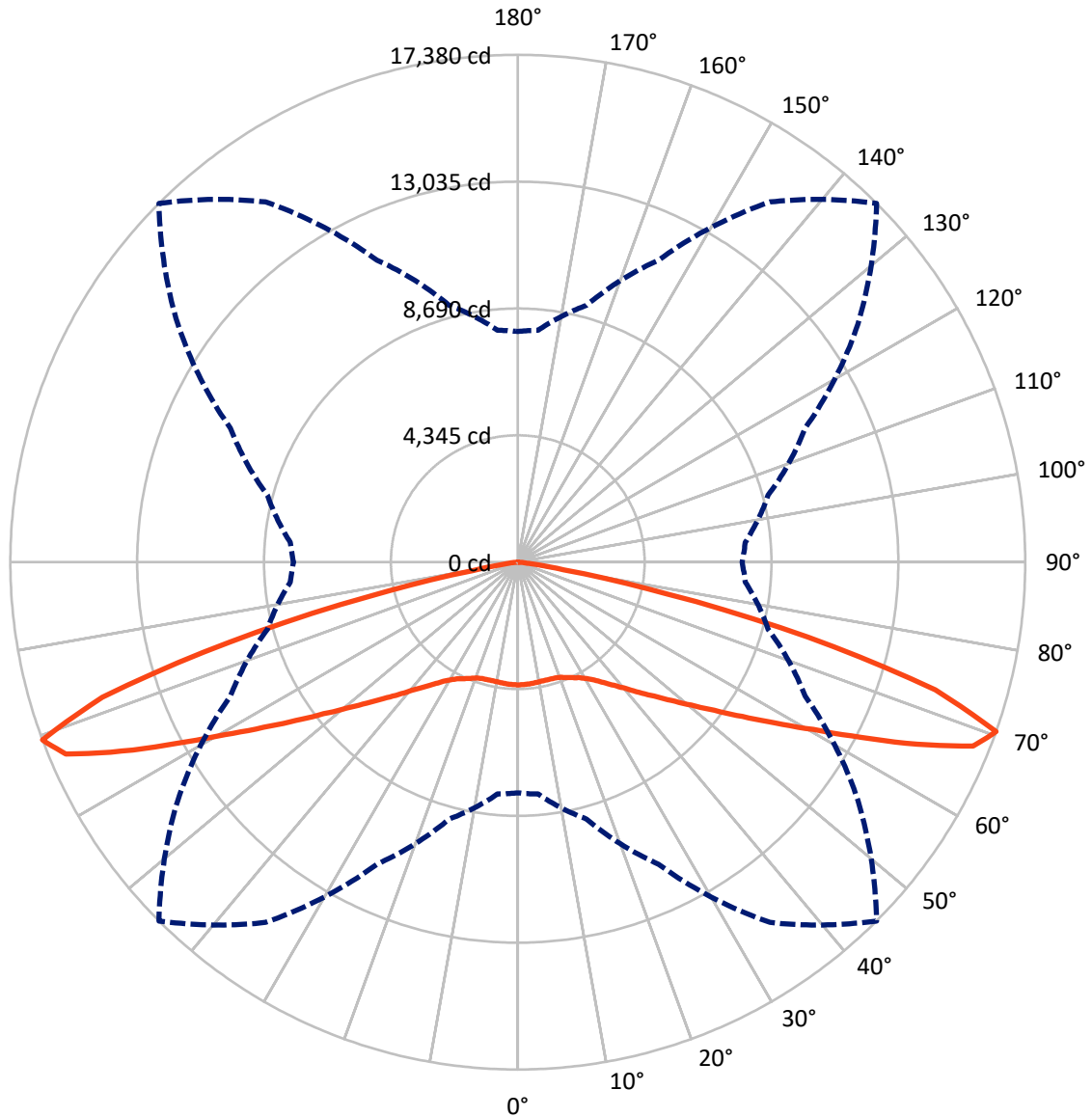
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 70-Deg Vertical

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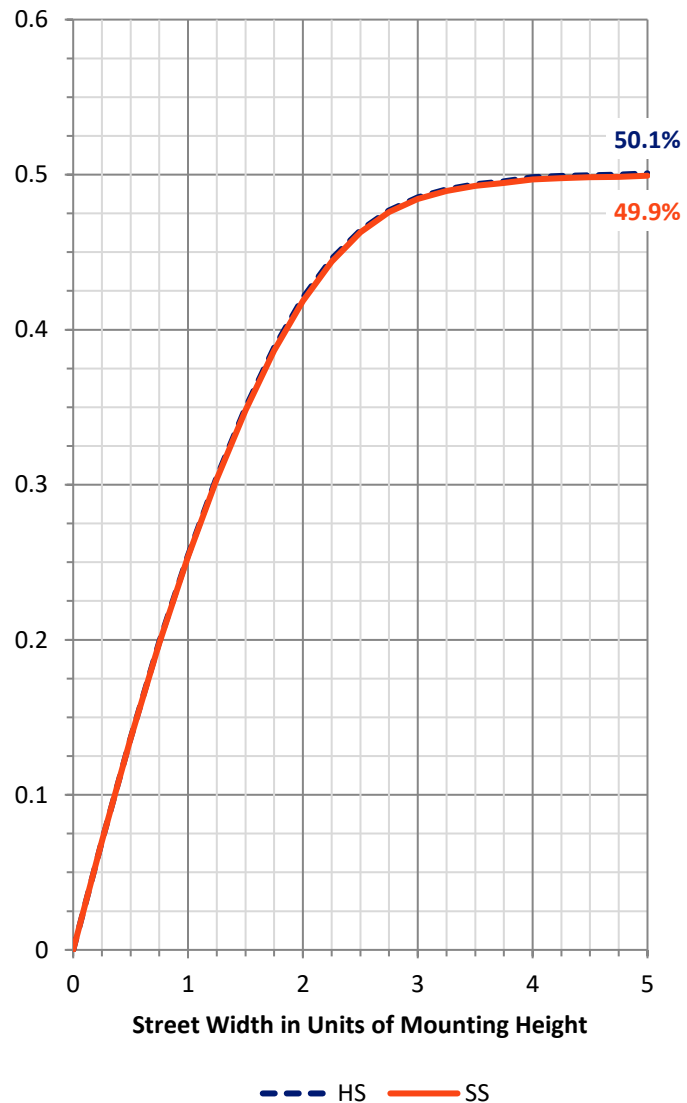
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18928.0	0.0	18928.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18928.0	0.0	18928.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37856.0	0.0	37856.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.6	1.1
10°-20°	1169.8	3.1
20°-30°	2000.6	5.3
30°-40°	3175.5	8.4
40°-50°	5122.9	13.5
50°-60°	8335.0	22.0
60°-70°	12082.8	31.9
70°-80°	5359.5	14.2
80°-90°	211.4	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°	37856.0	100.0
0°-180°	37856.0	100.0



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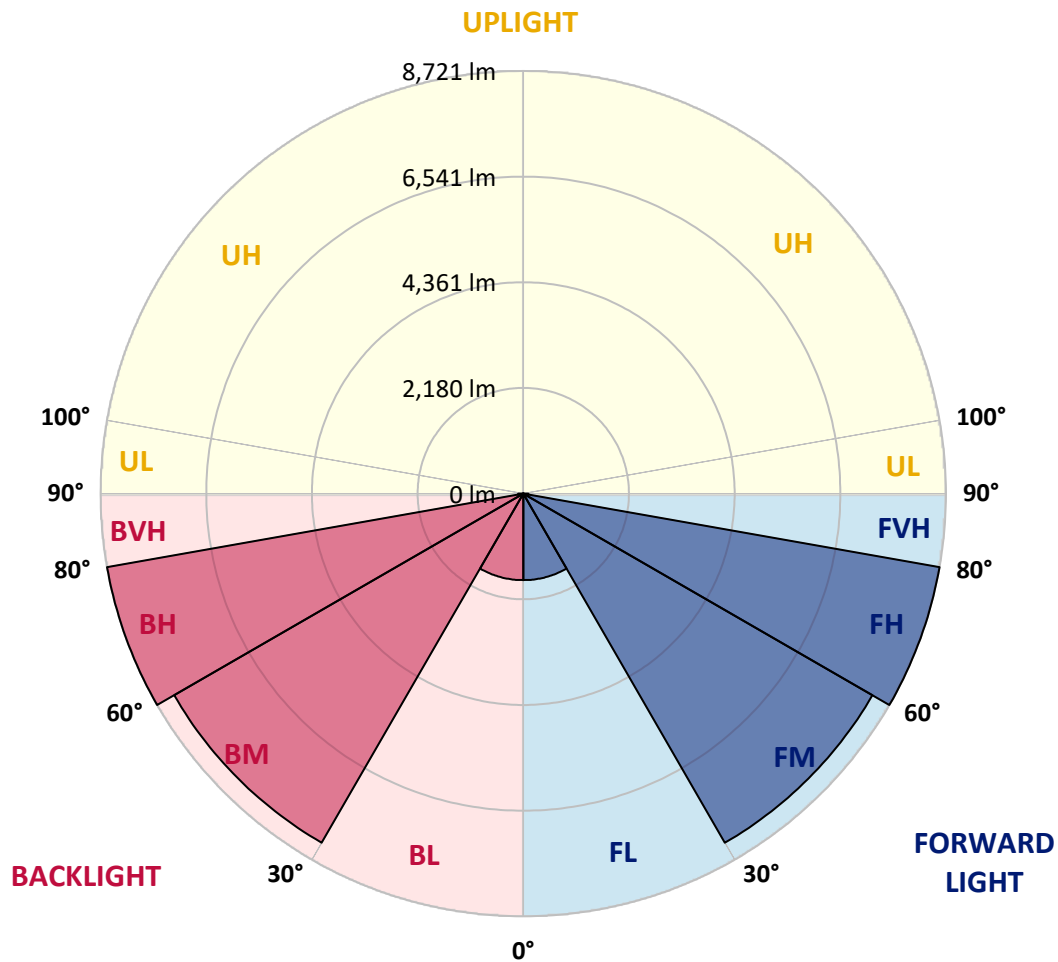
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1784.5	4.7			
FM (30°-60°)	8316.7	22.0			
FH (60°-80°)	8721.1	23.0			G4/12000
FVH (80°-90°)	105.7	0.3			G2/225
BL (0°-30°)	1784.5	4.7	B3/2500		
BM (30°-60°)	8316.7	22.0	B4/8500		
BH (60°-80°)	8721.1	23.0	B5		G4/12000
BVH (80°-90°)	105.7	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°	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7	4203.7
2.5°	4203.7	4207.7	4201.7	4197.7	4195.7	4195.7	4193.8	4195.7	4207.7	4209.7	4203.7
5°	4191.8	4195.7	4193.8	4189.8	4187.8	4187.8	4185.8	4183.8	4193.8	4197.7	4195.7
7.5°	4175.8	4177.8	4175.8	4173.8	4175.8	4173.8	4167.8	4163.8	4171.8	4171.8	4169.8
10°	4147.9	4151.9	4149.9	4151.9	4155.8	4155.8	4147.9	4139.9	4141.9	4137.9	4137.9
12.5°	4113.9	4119.9	4121.9	4129.9	4139.9	4151.9	4133.9	4115.9	4112.0	4110.0	4108.0
15°	4092.0	4098.0	4106.0	4113.9	4131.9	4157.8	4131.9	4104.0	4096.0	4088.0	4084.0
17.5°	4086.0	4094.0	4106.0	4117.9	4141.9	4167.8	4145.9	4117.9	4098.0	4086.0	4082.0
20°	4102.0	4108.0	4125.9	4147.9	4181.8	4207.7	4185.8	4155.8	4125.9	4108.0	4102.0
22.5°	4133.9	4143.9	4165.8	4205.7	4253.6	4291.5	4261.6	4211.7	4163.8	4139.9	4131.9
25°	4203.7	4211.7	4237.6	4291.5	4347.4	4383.3	4351.4	4293.5	4227.7	4195.7	4185.8
27.5°	4309.5	4321.4	4349.4	4413.2	4459.1	4479.1	4457.1	4417.2	4369.3	4335.4	4327.4
30°	4459.1	4473.1	4515.0	4582.8	4612.7	4624.7	4614.7	4588.8	4554.9	4519.0	4511.0
32.5°	4660.6	4668.6	4716.5	4780.3	4808.3	4812.2	4800.3	4788.3	4732.4	4672.6	4668.6
35°	4886.1	4900.0	4957.9	5033.7	5059.6	5061.6	5037.7	5019.7	4953.9	4906.0	4906.0
37.5°	5185.3	5191.3	5247.2	5333.0	5360.9	5352.9	5341.0	5325.0	5255.2	5193.3	5195.3
40°	5536.5	5548.4	5596.3	5696.1	5696.1	5686.1	5694.1	5682.1	5612.3	5552.4	5554.4
42.5°	5953.5	5959.4	6017.3	6123.0	6115.1	6095.1	6103.1	6087.1	6043.2	5975.4	5951.5
45°	6398.4	6422.3	6522.1	6623.8	6607.9	6544.0	6575.9	6571.9	6532.0	6430.3	6436.3
47.5°	6935.1	6975.0	7070.7	7192.4	7174.5	7074.7	7110.6	7134.6	7078.7	6967.0	6947.0
50°	7539.6	7565.5	7707.2	7820.9	7804.9	7699.2	7781.0	7785.0	7645.3	7487.7	7487.7
52.5°	8184.0	8209.9	8401.5	8579.0	8589.0	8435.4	8501.2	8497.2	8269.8	8062.3	8022.4
55°	8906.2	8918.2	9165.6	9427.0	9482.8	9333.2	9341.2	9261.4	8966.1	8724.7	8702.7
57.5°	9652.4	9696.3	9969.6	10308.8	10474.4	10382.6	10340.7	10127.3	9842.0	9564.6	9550.7
60°	10478.4	10480.4	10835.5	11236.5	11571.7	11633.6	11462.0	11176.7	10807.6	10440.5	10424.5
62.5°	11051.0	11136.8	11585.7	12264.0	12864.6	13211.7	12758.8	12160.3	11434.1	10841.5	10781.7
65°	11168.7	11226.6	11910.9	13060.1	14287.1	15035.3	13987.8	12714.9	11476.0	10685.9	10646.0
67.5°	10217.0	10278.9	11200.6	12964.3	15284.7	16818.9	14785.9	12447.6	10765.7	9788.1	9710.3
70°	7902.7	7972.5	9111.7	11412.1	15063.2	17379.5	14217.3	10857.5	8878.3	7822.9	7681.2
72.5°	4201.7	4459.1	5432.7	7832.9	12226.1	14963.4	11657.5	7922.6	5726.0	4680.6	4493.0
75°	1534.3	1566.2	2108.8	3473.5	7112.6	10260.9	7386.0	3778.8	2172.7	1677.9	1592.1
77.5°	634.5	632.5	694.3	1049.4	2583.7	5255.2	2883.0	1109.3	692.3	640.4	632.5
80°	375.1	375.1	413.0	436.9	680.3	1586.1	760.1	494.8	415.0	379.1	385.1
82.5°	167.6	177.6	261.4	275.3	329.2	434.9	367.1	315.2	271.3	187.5	169.6
85°	91.8	79.8	137.7	143.6	157.6	161.6	173.6	171.6	157.6	91.8	93.8
87.5°	18.0	21.9	39.9	29.9	33.9	29.9	39.9	55.9	57.9	31.9	25.9
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)