

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: P456947

Luminaire Tested: **GALN-SA8B-730-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456947  
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-SA8B-730-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 43889 lumens  
Efficiency: N/A  
Efficacy: 135.0 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

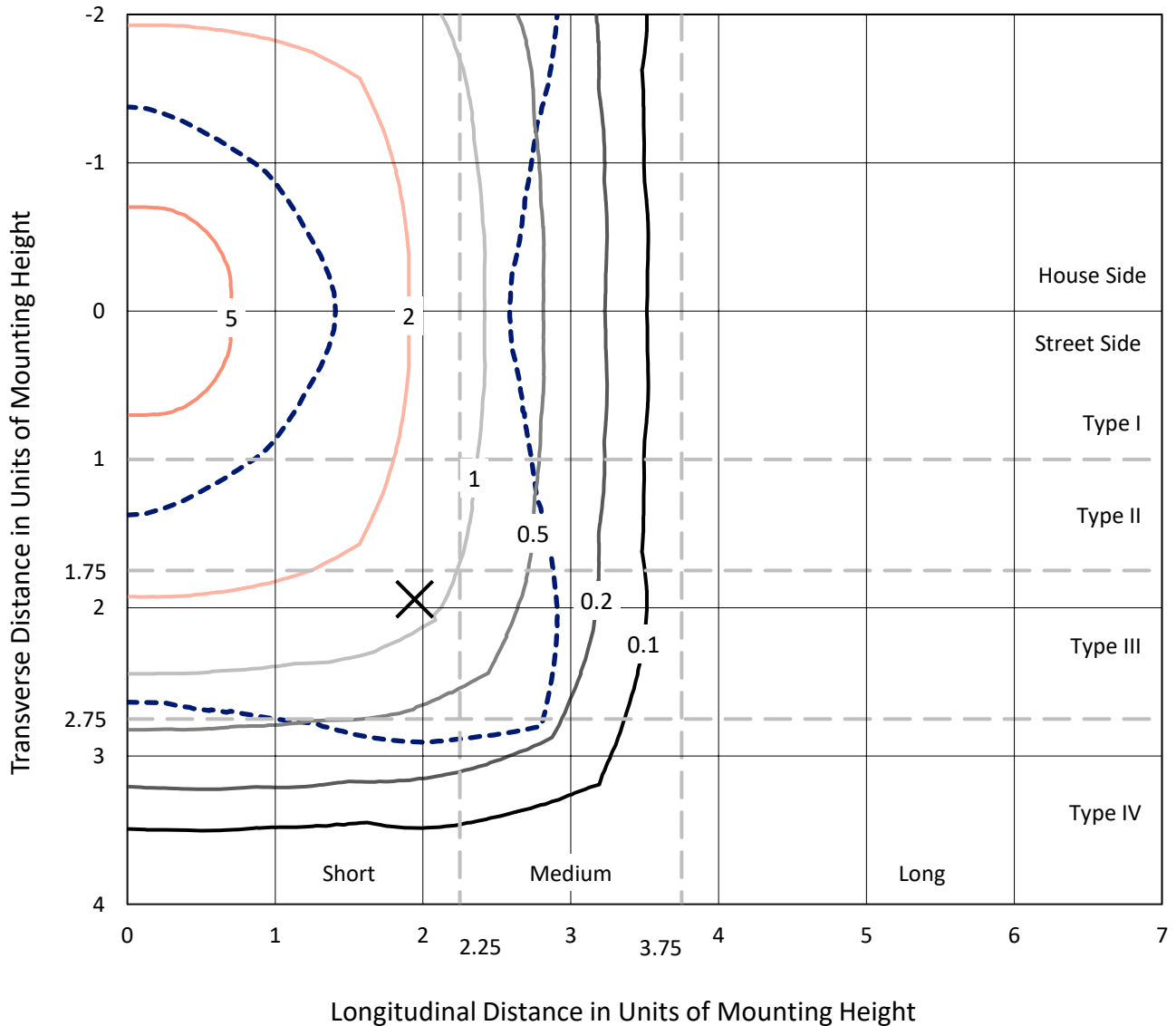
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

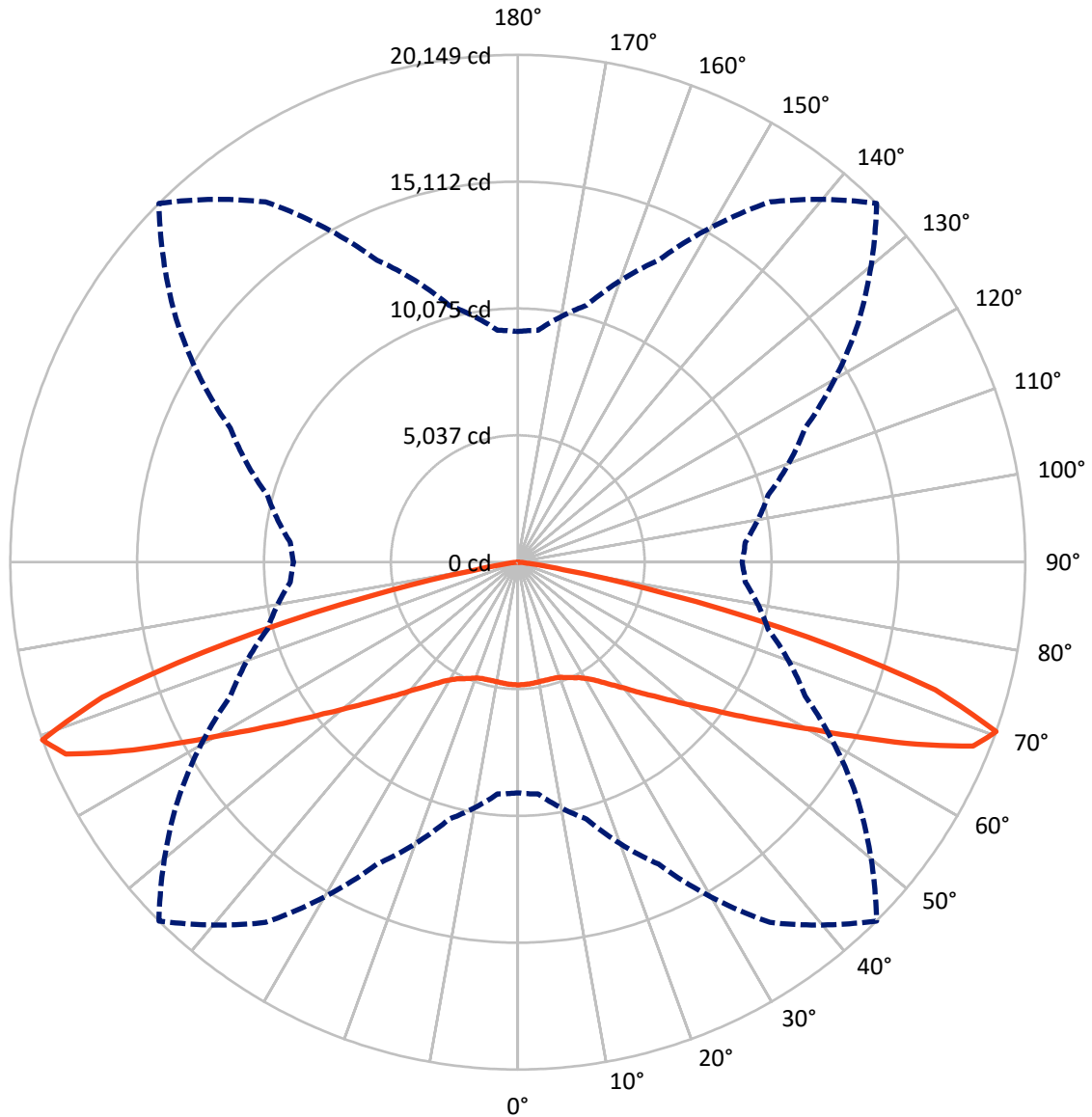
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	21944.5	0.0	21944.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21944.5	0.0	21944.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43889.0	0.0	43889.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.2	1.1
10°-20°	1356.2	3.1
20°-30°	2319.5	5.3
30°-40°	3681.5	8.4
40°-50°	5939.3	13.5
50°-60°	9663.3	22.0
60°-70°	14008.3	31.9
70°-80°	6213.6	14.2
80°-90°	245.1	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°	43889.0	100.0
0°-180°	43889.0	100.0



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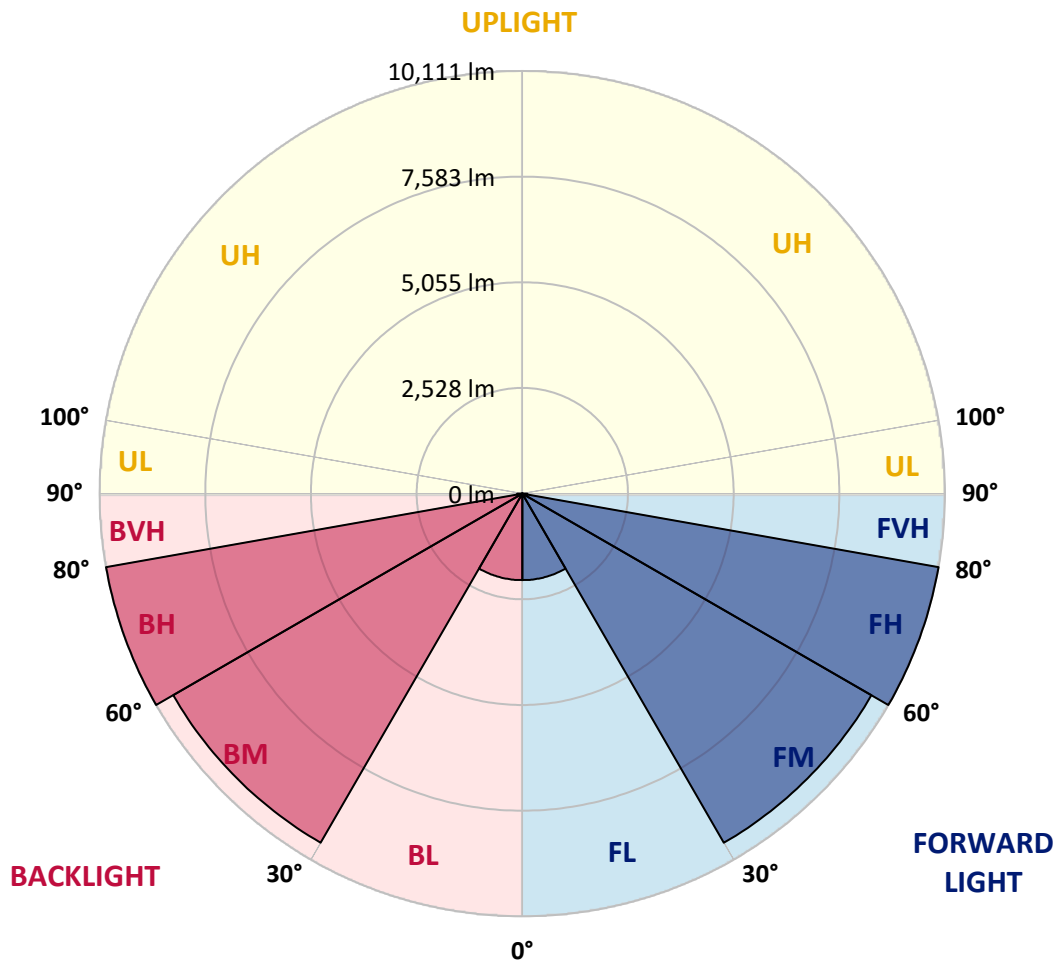
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2068.9	4.7			
FM (30°-60°)	9642.1	22.0			
FH (60°-80°)	10111.0	23.0			G4/12000
FVH (80°-90°)	122.5	0.3			G2/225
BL (0°-30°)	2068.9	4.7	B3/2500		
BM (30°-60°)	9642.1	22.0	B5		
BH (60°-80°)	10111.0	23.0	B5		G4/12000
BVH (80°-90°)	122.5	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°	4873.7	4873.7	4873.7	4873.7	4873.7	4873.7	4873.7	4873.7	4873.7	4873.7	4873.7
2.5°	4873.7	4878.3	4871.4	4866.7	4864.4	4864.4	4862.1	4864.4	4878.3	4880.6	4873.7
5°	4859.8	4864.4	4862.1	4857.5	4855.2	4855.2	4852.8	4850.5	4862.1	4866.7	4864.4
7.5°	4841.3	4843.6	4841.3	4839.0	4841.3	4839.0	4832.0	4827.4	4836.7	4836.7	4834.3
10°	4808.9	4813.5	4811.2	4813.5	4818.2	4818.2	4808.9	4799.6	4802.0	4797.3	4797.3
12.5°	4769.6	4776.5	4778.8	4788.1	4799.6	4813.5	4792.7	4771.9	4767.3	4765.0	4762.6
15°	4744.1	4751.1	4760.3	4769.6	4790.4	4820.5	4790.4	4758.0	4748.8	4739.5	4734.9
17.5°	4737.2	4746.4	4760.3	4774.2	4802.0	4832.0	4806.6	4774.2	4751.1	4737.2	4732.6
20°	4755.7	4762.6	4783.5	4808.9	4848.2	4878.3	4852.8	4818.2	4783.5	4762.6	4755.7
22.5°	4792.7	4804.3	4829.7	4876.0	4931.5	4975.4	4940.7	4882.9	4827.4	4799.6	4790.4
25°	4873.7	4882.9	4913.0	4975.4	5040.2	5081.8	5044.8	4977.8	4901.4	4864.4	4852.8
27.5°	4996.3	5010.1	5042.5	5116.5	5169.7	5192.9	5167.4	5121.2	5065.7	5026.3	5017.1
30°	5169.7	5185.9	5234.5	5313.2	5347.8	5361.7	5350.2	5320.1	5280.8	5239.1	5229.9
32.5°	5403.4	5412.6	5468.1	5542.1	5574.5	5579.2	5565.3	5551.4	5486.6	5417.2	5412.6
35°	5664.7	5680.9	5748.0	5835.9	5866.0	5868.3	5840.5	5819.7	5743.4	5687.9	5687.9
37.5°	6011.7	6018.6	6083.4	6182.9	6215.3	6206.0	6192.1	6173.6	6092.7	6021.0	6023.3
40°	6418.8	6432.7	6488.2	6603.9	6603.9	6592.3	6601.5	6587.7	6506.7	6437.3	6439.6
42.5°	6902.2	6909.2	6976.3	7098.9	7089.6	7066.5	7075.7	7057.2	7006.3	6927.7	6899.9
45°	7418.1	7445.8	7561.5	7679.4	7660.9	7586.9	7623.9	7619.3	7573.0	7455.1	7462.0
47.5°	8040.3	8086.5	8197.6	8338.7	8317.8	8202.2	8243.8	8271.6	8206.8	8077.3	8054.2
50°	8741.1	8771.2	8935.4	9067.3	9048.8	8926.2	9021.0	9025.7	8863.7	8681.0	8681.0
52.5°	9488.3	9518.3	9740.4	9946.3	9957.8	9779.7	9856.0	9851.4	9587.7	9347.2	9300.9
55°	10325.6	10339.5	10626.3	10929.3	10994.1	10820.6	10829.9	10737.3	10395.0	10115.1	10089.7
57.5°	11190.7	11241.6	11558.5	11951.7	12143.7	12037.3	11988.7	11741.2	11410.4	11088.9	11072.7
60°	12148.3	12150.6	12562.4	13027.3	13415.9	13487.6	13288.7	12957.9	12530.0	12104.4	12085.9
62.5°	12812.2	12911.6	13432.1	14218.5	14914.8	15317.2	14792.2	14098.2	13256.3	12569.3	12499.9
65°	12948.6	13015.7	13809.1	15141.4	16564.0	17431.4	16217.0	14741.3	13304.9	12388.9	12342.6
67.5°	11845.3	11917.0	12985.6	15030.4	17720.5	19499.3	17142.3	14431.3	12481.4	11348.0	11257.8
70°	9162.1	9243.1	10563.9	13230.8	17463.8	20149.3	16483.0	12587.8	10293.2	9069.6	8905.4
72.5°	4871.4	5169.7	6298.5	9081.2	14174.6	17348.1	13515.3	9185.3	6638.5	5426.5	5209.1
75°	1778.8	1815.8	2444.9	4027.1	8246.1	11896.2	8563.0	4381.0	2518.9	1945.3	1845.8
77.5°	735.6	733.2	805.0	1216.7	2995.4	6092.7	3342.4	1286.1	802.6	742.5	733.2
80°	434.9	434.9	478.8	506.6	788.8	1838.9	881.3	573.6	481.1	439.5	446.4
82.5°	194.3	205.9	303.0	319.2	381.7	504.3	425.6	365.5	314.6	217.4	196.6
85°	106.4	92.5	159.6	166.5	182.7	187.4	201.2	198.9	182.7	106.4	108.7
87.5°	20.8	25.4	46.3	34.7	39.3	34.7	46.3	64.8	67.1	37.0	30.1
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)