

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: P650941

Luminaire Tested: **GALN-SA6C-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-840-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24085.4 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

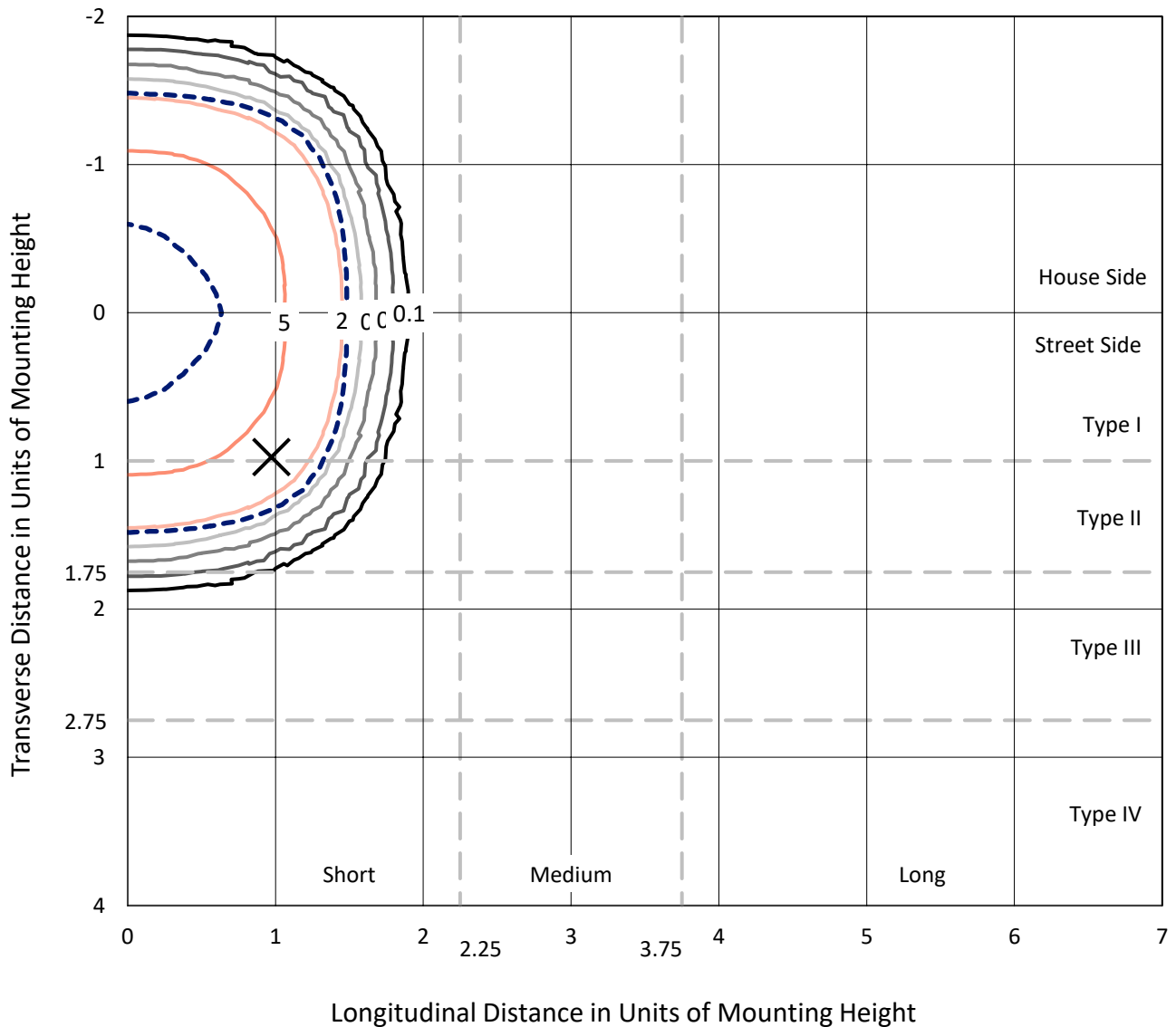
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

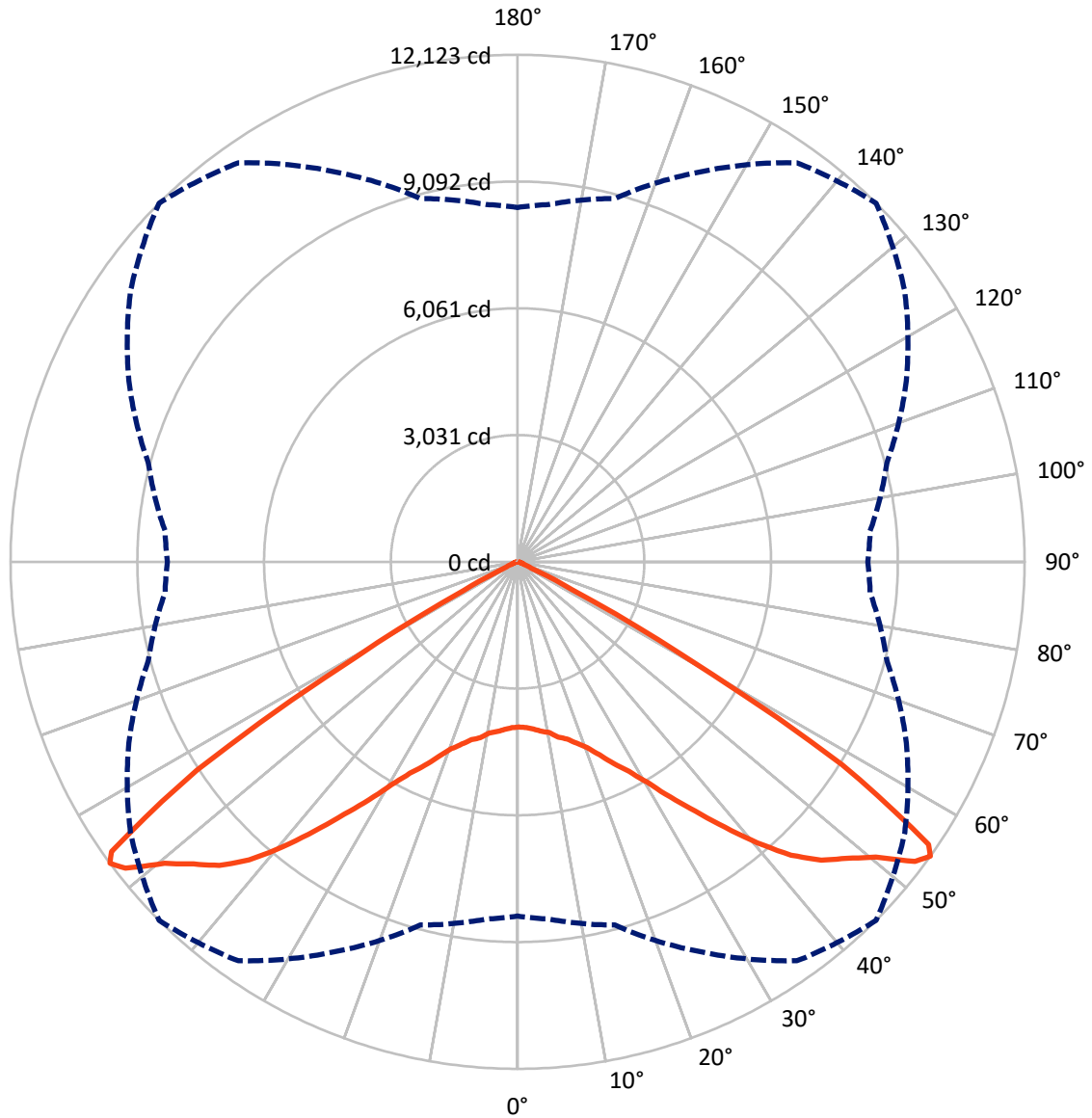
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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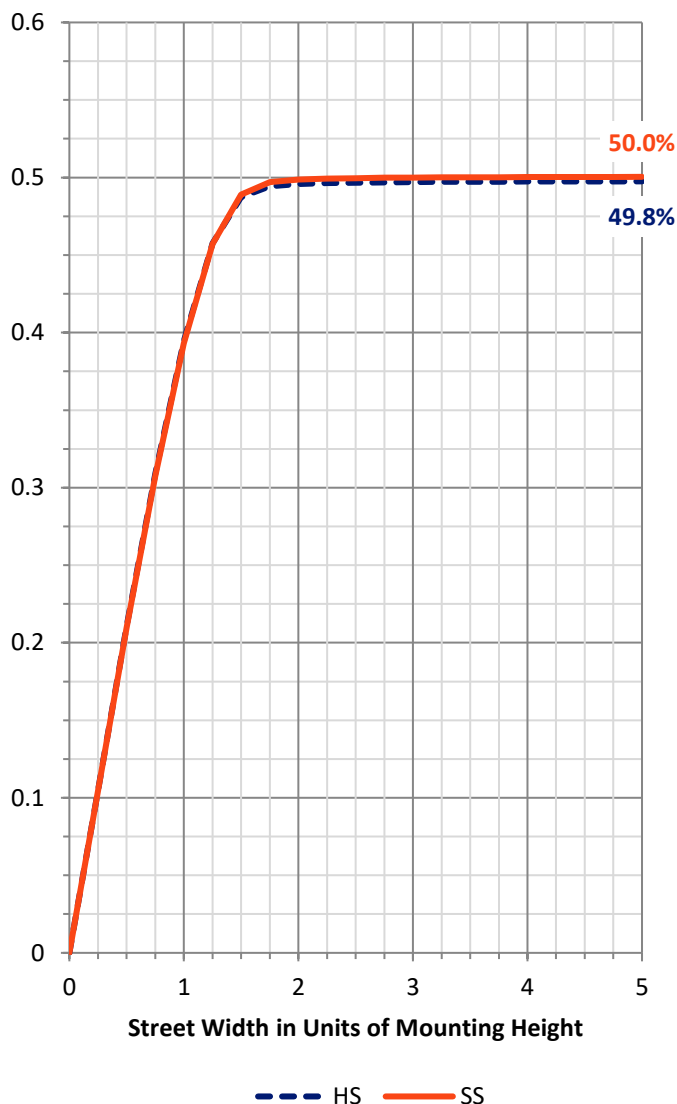
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12042.7	0.0	12042.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12042.7	0.0	12042.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24085.4	0.0	24085.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.5	1.6
10°-20°	1251.8	5.2
20°-30°	2453.4	10.2
30°-40°	4411.7	18.3
40°-50°	7551.9	31.4
50°-60°	7307.2	30.3
60°-70°	625.5	2.6
70°-80°	74.1	0.3
80°-90°	23.2	0.1
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°	24085.4	100.0
0°-180°	24085.4	100.0

**Coefficient of Utilization**



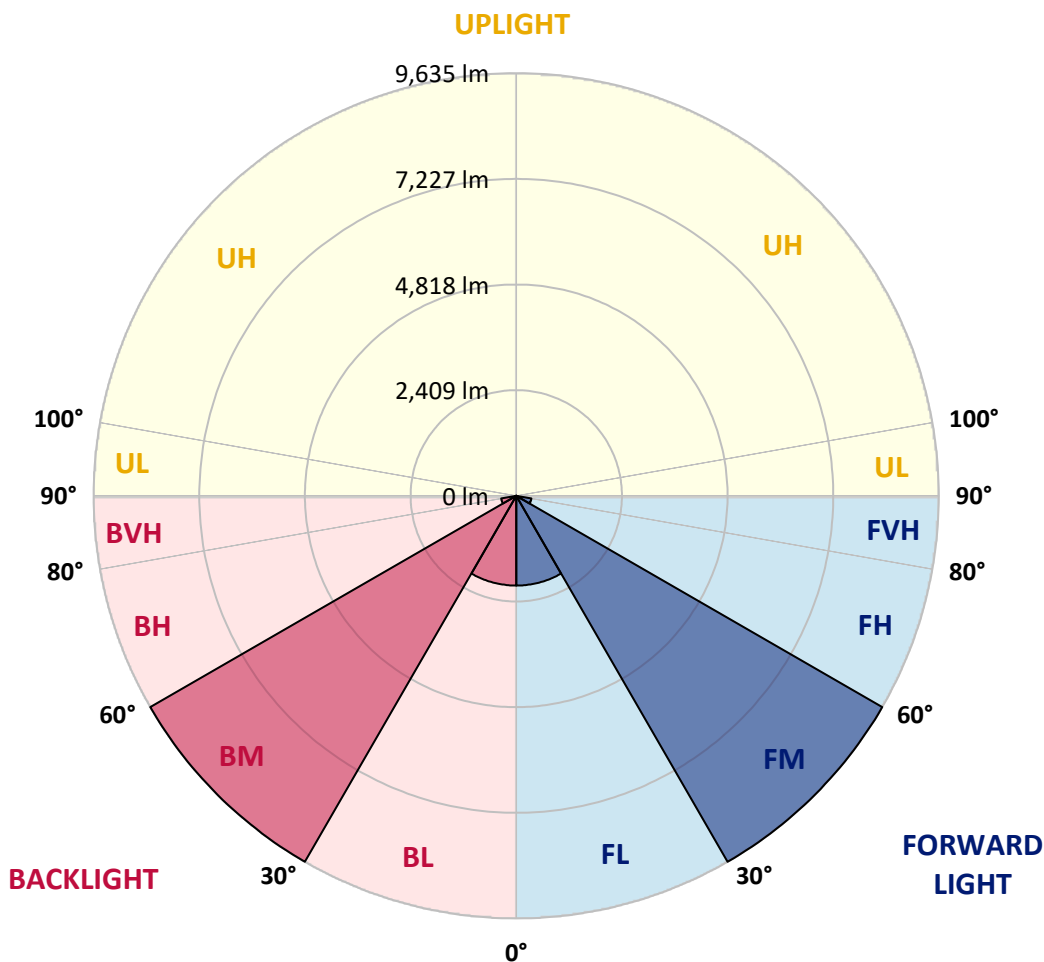
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2045.8	8.5			
FM (30°-60°)	9635.4	40.0			
FH (60°-80°)	349.8	1.5			G0/660
FVH (80°-90°)	11.6	0.0			G1/100
BL (0°-30°)	2045.8	8.5	B3/2500		
BM (30°-60°)	9635.4	40.0	B5		
BH (60°-80°)	349.8	1.5	B1/500		G0/660
BVH (80°-90°)	11.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3949.3	3949.3	3949.3	3949.3	3949.3	3949.3	3949.3	3949.3	3949.3	3949.3	3949.3
2.5°	3968.3	3991.2	3976.0	3987.4	3987.4	3968.3	3979.8	3934.0	3964.6	3941.6	3945.5
5°	4029.4	4025.5	4025.5	4029.4	4014.1	4021.7	4006.5	3991.2	3979.8	3964.6	4010.3
7.5°	4105.7	4105.7	4079.0	4086.6	4079.0	4090.5	4059.9	4029.4	4018.0	4006.5	3998.9
10°	4178.2	4170.6	4159.1	4193.5	4166.7	4151.5	4136.2	4117.1	4075.1	4059.9	4044.6
12.5°	4285.1	4281.2	4266.0	4300.3	4285.1	4300.3	4243.1	4193.5	4185.8	4136.2	4163.0
15°	4411.0	4445.3	4418.6	4418.6	4411.0	4391.9	4369.0	4346.1	4277.4	4258.3	4262.1
17.5°	4575.0	4563.6	4567.4	4567.4	4605.6	4555.9	4510.2	4452.9	4418.6	4407.2	4369.0
20°	4731.5	4746.8	4742.9	4769.6	4792.5	4739.1	4689.5	4681.8	4586.5	4601.7	4548.3
22.5°	5006.2	4994.8	5013.9	5032.9	5017.7	5010.0	4964.3	4907.0	4823.1	4784.9	4777.3
25°	5296.2	5277.1	5242.8	5288.5	5311.5	5345.8	5258.0	5227.5	5097.8	5040.5	5044.4
27.5°	5544.2	5571.0	5609.0	5628.1	5685.4	5674.0	5612.9	5513.7	5414.5	5349.6	5307.6
30°	5883.8	5899.1	5964.0	5990.7	6089.8	6116.6	6021.2	5906.7	5731.2	5647.2	5597.6
32.5°	6196.7	6303.5	6299.8	6433.3	6593.5	6704.2	6532.5	6357.0	6181.4	6082.2	5994.5
35°	6704.2	6685.1	6795.8	6937.0	7196.4	7322.3	7135.4	6933.1	6666.0	6505.8	6437.1
37.5°	7177.3	7185.0	7333.8	7558.9	7856.5	8051.1	7887.1	7555.1	7280.4	7074.3	6979.0
40°	7864.2	7879.4	8032.1	8287.7	8623.5	8833.4	8642.5	8306.8	7940.5	7780.3	7780.3
42.5°	8669.3	8734.1	8833.4	9054.7	9356.1	9588.8	9417.2	9153.9	8783.7	8577.7	8608.2
45°	9497.3	9527.9	9592.7	9920.9	10062.0	10176.5	10016.2	9894.1	9646.1	9394.3	9352.3
47.5°	10271.9	10283.3	10474.2	10577.2	10687.8	10592.4	10695.4	10535.1	10256.6	10012.4	9962.8
50°	10615.3	10596.2	10867.1	11180.0	11263.9	11096.1	11008.3	10901.5	10477.9	10184.1	10054.4
52.5°	9615.6	9726.2	10229.9	11099.9	11756.2	11897.4	11386.0	10893.8	10104.0	9531.6	9443.8
54°	8470.9	8573.9	8989.8	10279.5	11645.5	12122.5	11298.3	10252.8	9138.6	8459.5	8371.7
55°	7337.6	7223.1	7978.7	9295.1	11126.6	11924.1	10951.1	9424.8	8150.4	7528.4	7406.3
57.5°	3972.1	3991.2	4628.4	5872.4	7818.4	9142.4	8074.0	6376.0	4815.4	4117.1	4056.1
60°	1259.1	1289.7	1568.3	2373.4	3735.6	4460.6	3823.4	2560.3	1770.5	1419.4	1362.2
62.5°	393.0	408.3	446.4	664.0	1022.6	1461.4	1144.7	686.8	511.3	469.4	476.9
65°	240.4	240.4	244.2	259.4	305.3	354.9	343.4	301.4	290.0	282.3	278.5
67.5°	156.4	152.6	160.3	171.7	179.3	183.2	194.6	206.0	202.3	194.6	194.6
70°	95.4	91.6	99.2	114.5	118.3	125.9	137.3	152.6	148.8	141.2	145.0
72.5°	53.4	53.4	57.3	68.7	80.1	87.8	99.2	110.7	114.5	110.7	110.7
75°	19.1	22.9	30.5	42.0	49.6	61.1	72.5	83.9	95.4	87.8	83.9
77.5°	7.7	7.7	15.2	26.7	38.2	49.6	68.7	80.1	87.8	80.1	72.5
80°	3.8	3.8	11.4	22.9	34.3	45.8	57.3	68.7	72.5	64.8	57.3
82.5°	3.8	3.8	11.4	22.9	34.3	42.0	61.1	68.7	76.3	68.7	57.3
85°	0.0	3.8	11.4	22.9	30.5	34.3	34.3	22.9	19.1	11.4	11.4
87.5°	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)