

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: P652317

Luminaire Tested: **GALN-SA4B-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652317  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-840-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17051.2 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

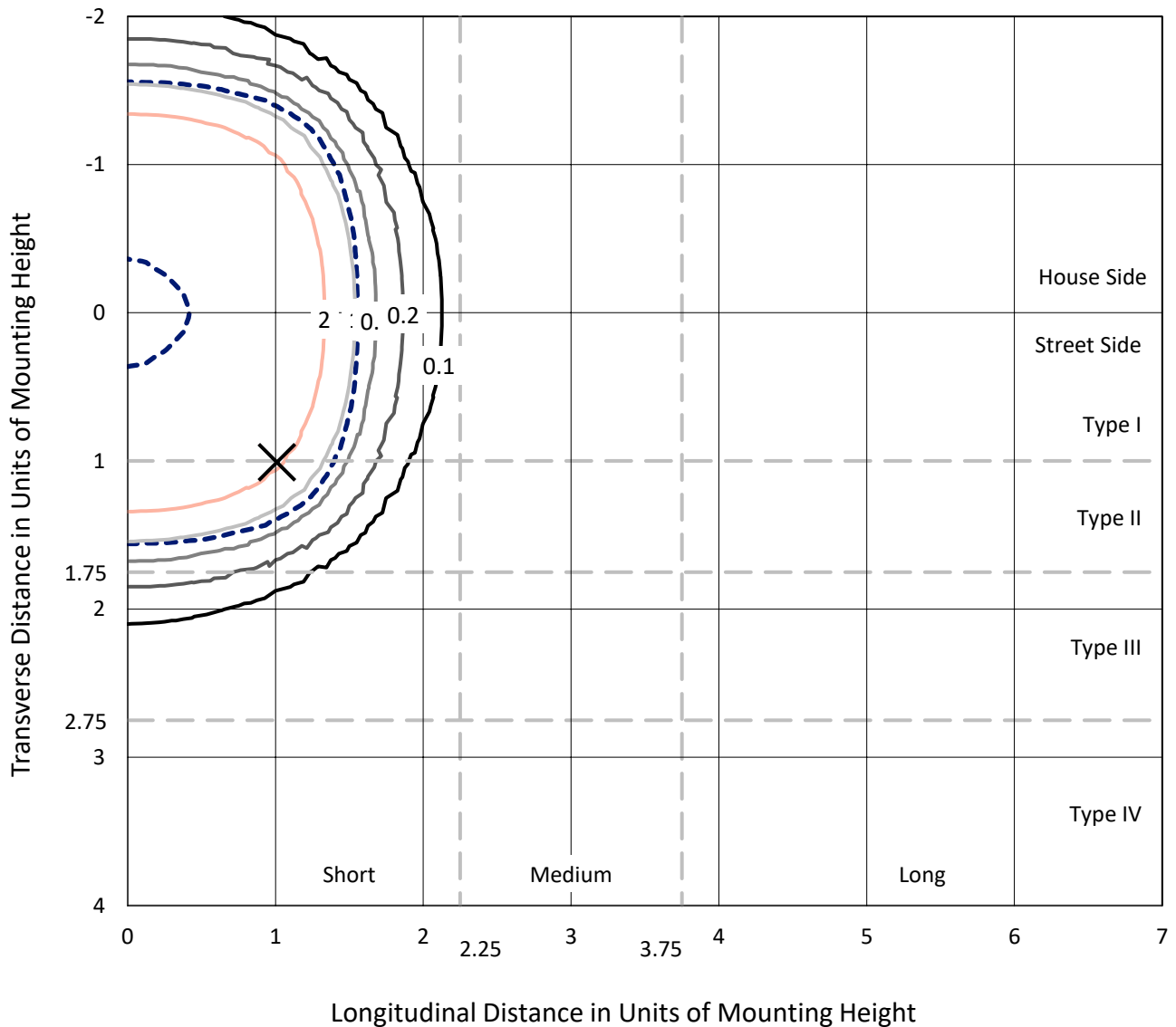
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

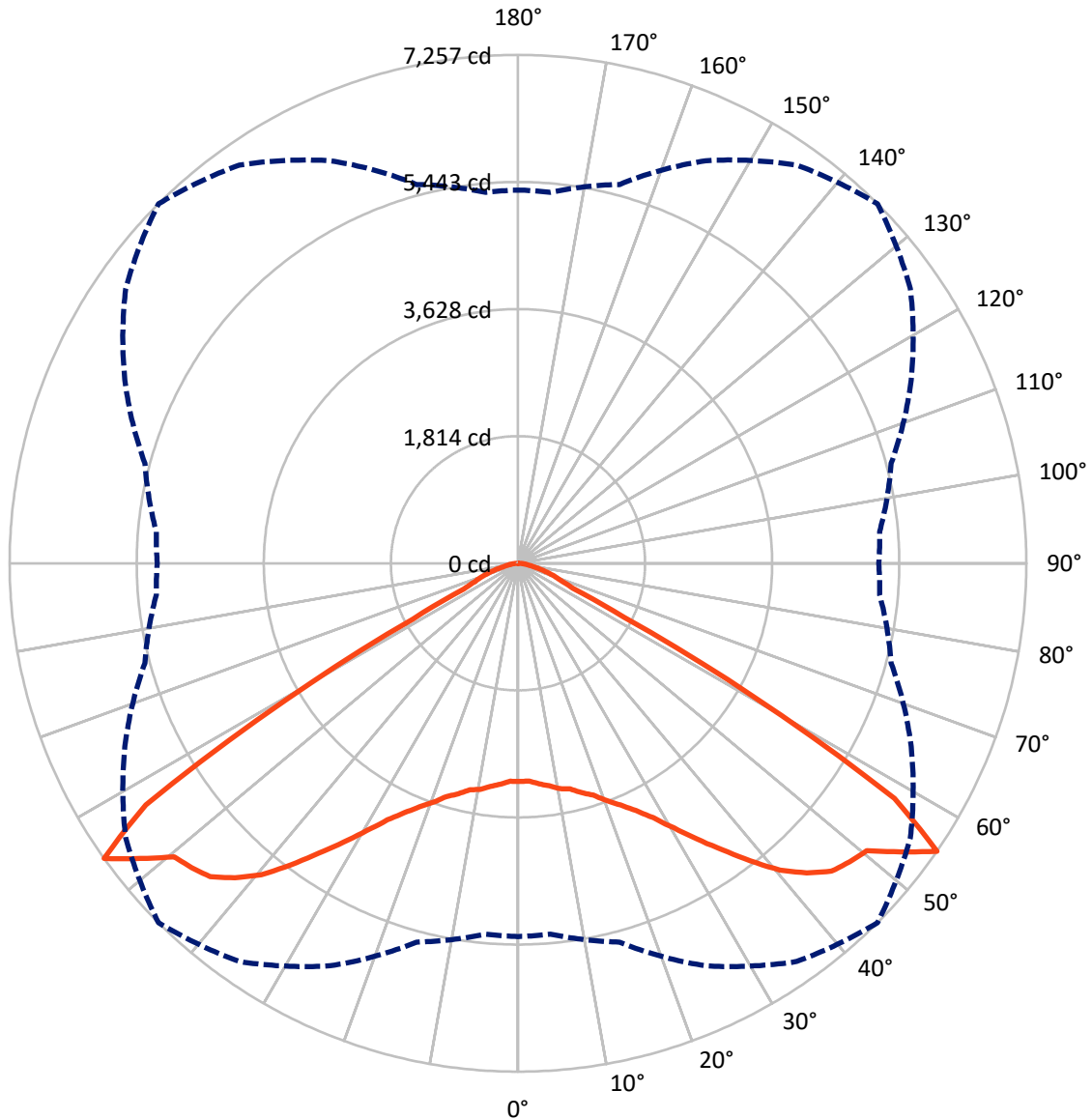
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8525.6	0.0	8525.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8525.6	0.0	8525.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17051.2	0.0	17051.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.1	1.8
10°-20°	963.7	5.7
20°-30°	1797.0	10.5
30°-40°	3008.7	17.6
40°-50°	4681.7	27.5
50°-60°	4861.1	28.5
60°-70°	1030.9	6.0
70°-80°	339.5	2.0
80°-90°	64.6	0.4
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°	17051.2	100.0
0°-180°	17051.2	100.0

**Coefficient of Utilization**



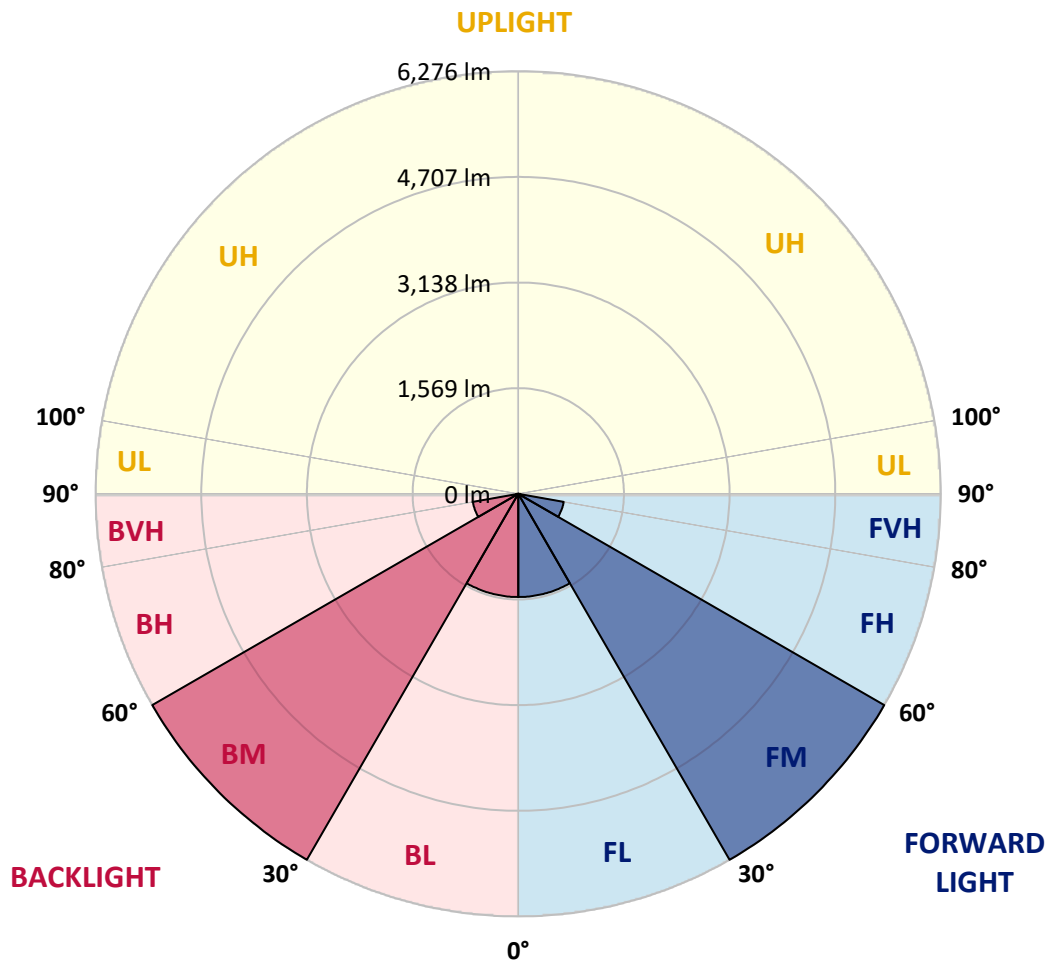
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1532.4	9.0			
FM (30°-60°)	6275.7	36.8			
FH (60°-80°)	685.2	4.0			G1/1800
FVH (80°-90°)	32.3	0.2			G1/100
BL (0°-30°)	1532.4	9.0	B3/2500		
BM (30°-60°)	6275.7	36.8	B4/8500		
BH (60°-80°)	685.2	4.0	B2/1000		G1/1800
BVH (80°-90°)	32.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3113.3	3113.3	3113.3	3113.3	3113.3	3113.3	3113.3	3113.3	3113.3	3113.3	3113.3
2.5°	3150.4	3136.0	3111.3	3129.8	3144.2	3113.3	3125.7	3131.9	3127.8	3111.3	3117.4
5°	3195.7	3187.5	3166.9	3181.3	3162.7	3162.7	3150.4	3133.9	3158.6	3154.5	3164.9
7.5°	3195.7	3185.5	3226.7	3199.8	3208.1	3208.1	3187.5	3171.0	3183.4	3164.9	3154.5
10°	3259.6	3274.0	3255.5	3261.7	3257.5	3272.0	3241.0	3230.8	3220.4	3214.3	3201.9
12.5°	3335.8	3325.6	3331.7	3327.6	3342.0	3305.0	3286.4	3263.8	3282.3	3255.5	3274.0
15°	3397.6	3391.5	3397.6	3414.1	3399.7	3397.6	3364.7	3342.0	3313.2	3319.3	3290.5
17.5°	3482.2	3475.9	3478.0	3492.4	3490.4	3480.1	3455.3	3412.1	3401.8	3385.3	3366.8
20°	3607.8	3597.5	3593.4	3599.6	3609.9	3618.2	3568.7	3552.2	3517.1	3490.4	3459.5
22.5°	3714.9	3710.8	3727.3	3700.6	3723.2	3747.9	3700.6	3692.3	3605.8	3591.3	3558.4
25°	3863.3	3857.2	3846.8	3886.0	3912.8	3910.7	3865.4	3820.1	3754.1	3737.7	3737.7
27.5°	4019.9	3984.9	4038.5	4048.7	4096.2	4110.6	4071.4	4005.5	3943.7	3908.6	3916.9
30°	4215.6	4182.6	4195.0	4269.2	4331.0	4384.6	4285.7	4188.9	4102.3	4040.5	4030.2
32.5°	4411.4	4378.4	4415.5	4487.6	4611.2	4691.6	4594.7	4425.8	4324.8	4234.2	4252.7
35°	4570.0	4594.7	4654.5	4763.7	4891.4	5021.3	4866.7	4736.9	4592.7	4491.7	4506.2
37.5°	4825.5	4901.8	4949.1	5074.8	5256.2	5390.1	5229.3	5060.4	4905.9	4774.0	4728.7
40°	5159.3	5210.8	5264.4	5412.8	5627.0	5760.9	5608.5	5388.0	5235.6	5099.6	5093.3
42.5°	5526.0	5575.5	5631.2	5812.5	5940.2	6041.2	5901.0	5783.6	5614.7	5507.5	5501.3
45°	5952.6	5917.5	5979.3	6098.8	6206.0	6271.9	6181.3	6123.6	6002.0	5903.1	5892.8
47.5°	6236.9	6206.0	6317.3	6424.4	6440.9	6368.8	6387.3	6440.9	6313.1	6150.4	6201.9
50°	6401.8	6401.8	6476.0	6574.9	6543.9	6451.2	6597.5	6601.6	6473.8	6329.6	6329.6
52.5°	6115.3	6179.2	6389.4	6712.9	6815.9	6842.7	6809.7	6669.6	6335.8	6041.2	6026.8
55°	5328.2	5313.9	5598.2	6340.0	6939.5	7256.8	6836.5	6191.6	5513.7	5182.0	5149.0
57.5°	3465.7	3482.2	3906.6	4662.8	5744.5	6335.8	5627.0	4720.4	3906.6	3449.2	3492.4
60°	1559.7	1615.4	1872.9	2437.5	3366.8	3848.9	3375.0	2561.1	1965.7	1706.1	1728.7
62.5°	896.3	906.6	916.9	1087.9	1434.1	1695.7	1489.7	1149.7	1013.7	968.4	968.4
65°	756.1	750.0	752.0	766.5	803.6	857.1	834.4	803.6	807.7	803.6	797.4
67.5°	642.9	651.1	644.9	655.2	657.2	665.5	679.9	692.3	694.3	698.5	694.3
70°	527.5	529.5	533.6	541.9	544.0	550.1	570.7	581.0	587.2	587.2	595.4
72.5°	403.8	401.7	405.9	414.1	424.5	426.5	445.1	459.4	467.7	457.4	459.4
75°	265.8	267.9	274.0	280.2	294.6	309.1	315.2	329.7	331.7	335.8	325.6
77.5°	158.6	162.7	169.0	181.3	193.7	206.0	220.4	230.8	234.9	230.8	218.4
80°	103.0	103.0	111.3	121.5	136.0	146.2	154.5	162.7	169.0	162.7	158.6
82.5°	63.8	63.8	74.2	86.5	96.8	103.0	115.4	125.6	131.9	127.7	121.5
85°	33.0	35.0	43.2	53.6	61.8	65.9	63.8	57.7	51.5	49.5	45.3
87.5°	10.3	10.3	12.4	12.4	10.3	10.3	12.4	10.3	12.4	12.4	12.4
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)