

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: P529108

Luminaire Tested: **GALN-SA4B-730-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529108  
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-730-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 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: 18465 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

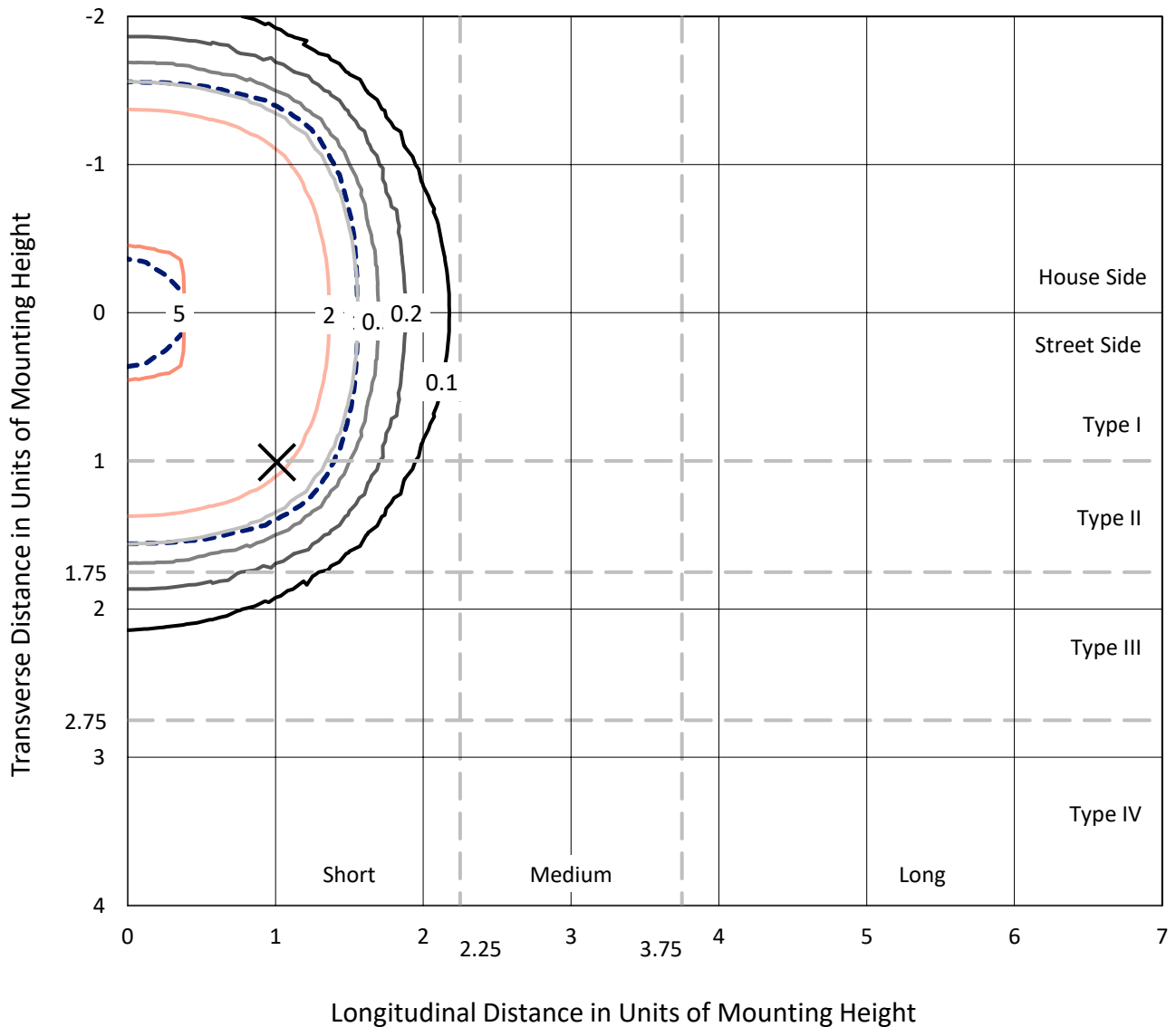
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

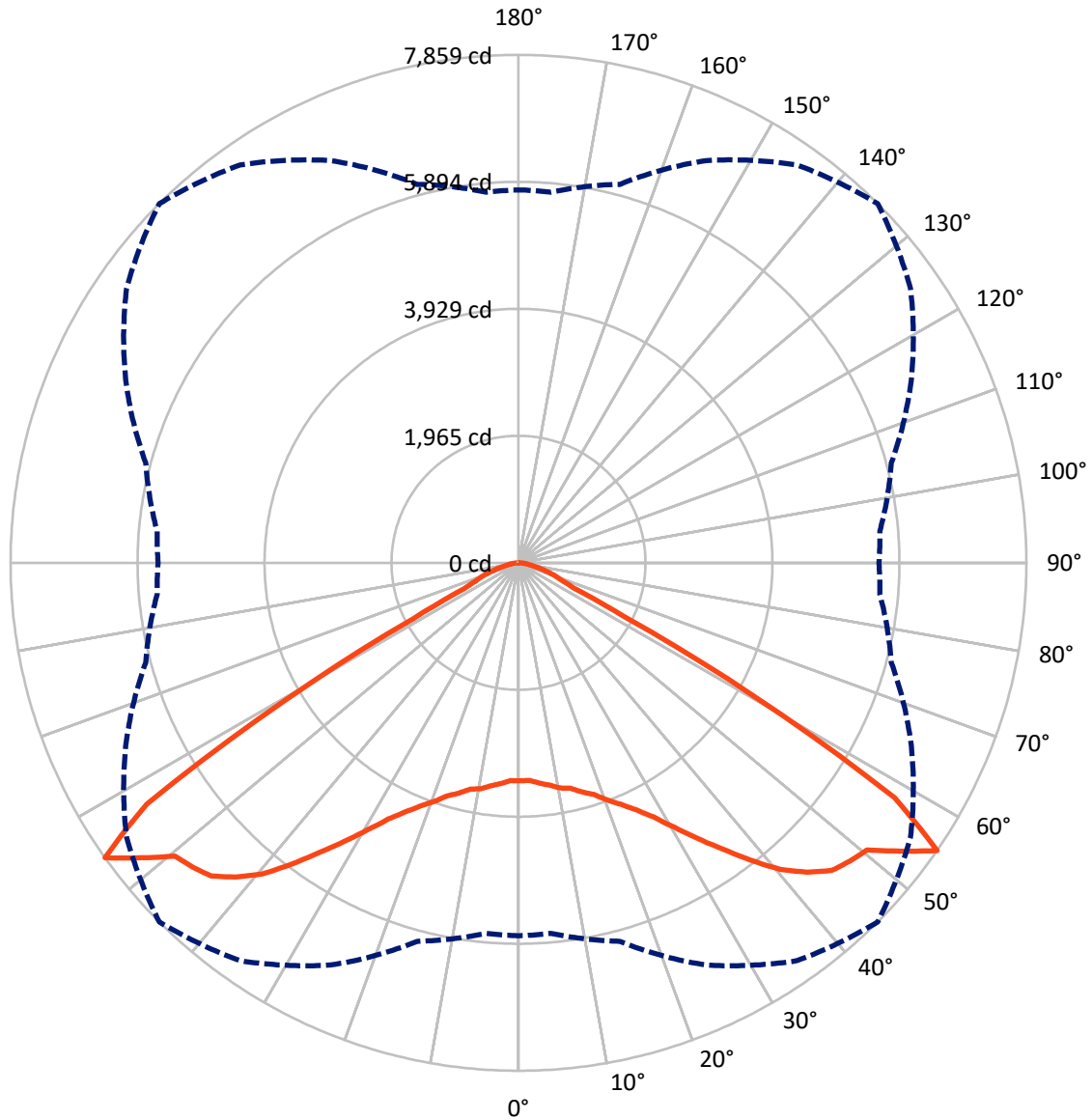
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	9232.5	0.0	9232.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9232.5	0.0	9232.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18465.0	0.0	18465.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.4	1.8
10°-20°	1043.6	5.7
20°-30°	1945.9	10.5
30°-40°	3258.1	17.6
40°-50°	5069.9	27.5
50°-60°	5264.1	28.5
60°-70°	1116.4	6.0
70°-80°	367.7	2.0
80°-90°	70.0	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°	18465.0	100.0
0°-180°	18465.0	100.0

**Coefficient of Utilization**



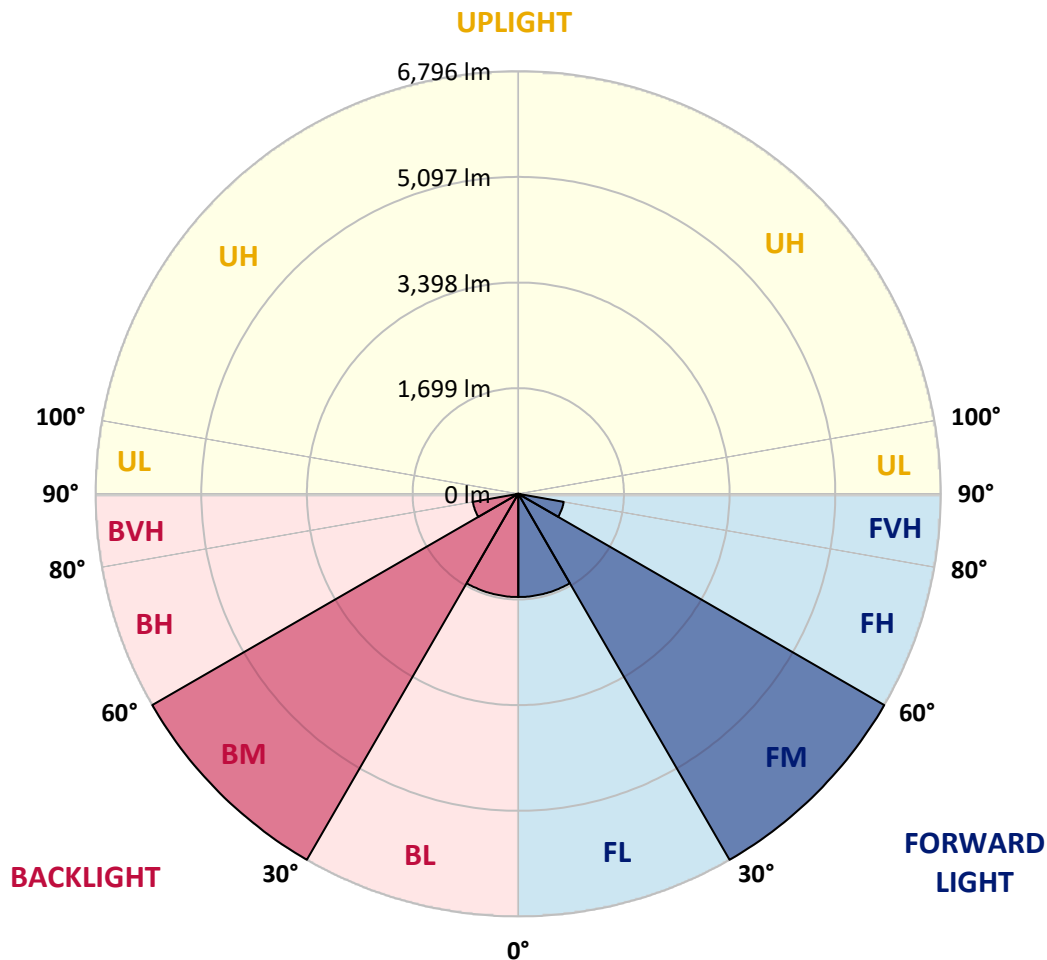
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1659.4	9.0			
FM (30°-60°)	6796.1	36.8			
FH (60°-80°)	742.0	4.0			G1/1800
FVH (80°-90°)	35.0	0.2			G1/100
BL (0°-30°)	1659.4	9.0	B3/2500		
BM (30°-60°)	6796.1	36.8	B4/8500		
BH (60°-80°)	742.0	4.0	B2/1000		G1/1800
BVH (80°-90°)	35.0	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°	3371.4	3371.4	3371.4	3371.4	3371.4	3371.4	3371.4	3371.4	3371.4	3371.4	3371.4
2.5°	3411.6	3396.0	3369.2	3389.3	3404.9	3371.4	3384.8	3391.5	3387.1	3369.2	3375.9
5°	3460.7	3451.8	3429.4	3445.1	3425.0	3425.0	3411.6	3393.7	3420.5	3416.1	3427.2
7.5°	3460.7	3449.5	3494.2	3465.1	3474.1	3474.1	3451.8	3433.9	3447.3	3427.2	3416.1
10°	3529.9	3545.5	3525.4	3532.1	3527.6	3543.2	3509.8	3498.6	3487.5	3480.8	3467.4
12.5°	3612.4	3601.3	3607.9	3603.5	3619.1	3578.9	3558.9	3534.3	3554.4	3525.4	3545.5
15°	3679.3	3672.7	3679.3	3697.2	3681.6	3679.3	3643.6	3619.1	3587.9	3594.6	3563.3
17.5°	3770.8	3764.1	3766.4	3782.0	3779.8	3768.6	3741.8	3695.0	3683.8	3666.0	3645.9
20°	3906.9	3895.8	3891.3	3898.0	3909.2	3918.1	3864.5	3846.7	3808.8	3779.8	3746.3
22.5°	4023.0	4018.5	4036.3	4007.3	4031.9	4058.7	4007.3	3998.4	3904.7	3889.1	3853.4
25°	4183.6	4176.9	4165.8	4208.2	4237.2	4234.9	4185.8	4136.8	4065.4	4047.5	4047.5
27.5°	4353.2	4315.3	4373.3	4384.4	4435.7	4451.4	4409.0	4337.6	4270.6	4232.7	4241.6
30°	4565.2	4529.5	4542.8	4623.2	4690.1	4748.1	4641.0	4536.2	4442.4	4375.5	4364.3
32.5°	4777.1	4741.4	4781.6	4859.7	4993.6	5080.6	4975.7	4792.7	4683.4	4585.2	4605.3
35°	4948.9	4975.7	5040.4	5158.7	5297.0	5437.6	5270.2	5129.7	4973.5	4864.1	4879.8
37.5°	5225.6	5308.2	5359.5	5495.6	5691.9	5837.0	5662.9	5480.0	5312.6	5169.8	5120.7
40°	5587.1	5642.9	5700.9	5861.5	6093.6	6238.6	6073.5	5834.7	5669.6	5522.4	5515.7
42.5°	5984.2	6037.8	6098.0	6294.4	6432.7	6542.1	6390.3	6263.1	6080.2	5964.2	5957.5
45°	6446.1	6408.2	6475.1	6604.5	6720.6	6792.0	6693.8	6631.3	6499.7	6392.6	6381.4
47.5°	6754.0	6720.6	6841.0	6957.1	6974.9	6896.8	6916.9	6974.9	6836.6	6660.3	6716.1
50°	6932.5	6932.5	7012.8	7120.0	7086.5	6986.1	7144.5	7149.0	7010.6	6854.4	6854.4
52.5°	6622.4	6691.5	6919.1	7269.4	7381.0	7410.0	7374.3	7222.6	6861.1	6542.1	6526.4
55°	5770.0	5754.4	6062.3	6865.6	7514.9	7858.5	7403.3	6704.9	5970.9	5611.6	5575.9
57.5°	3753.0	3770.8	4230.5	5049.3	6220.8	6861.1	6093.6	5111.8	4230.5	3735.1	3782.0
60°	1689.1	1749.3	2028.2	2639.6	3645.9	4168.0	3654.8	2773.5	2128.6	1847.5	1872.0
62.5°	970.6	981.8	992.9	1178.1	1553.0	1836.3	1613.2	1245.0	1097.8	1048.7	1048.7
65°	818.9	812.2	814.4	830.0	870.2	928.2	903.7	870.2	874.7	870.2	863.5
67.5°	696.2	705.1	698.4	709.5	711.8	720.7	736.3	749.7	751.9	756.4	751.9
70°	571.2	573.4	577.9	586.8	589.1	595.7	618.1	629.2	635.9	635.9	644.8
72.5°	437.3	435.1	439.6	448.5	459.6	461.9	482.0	497.6	506.5	495.3	497.6
75°	287.8	290.1	296.8	303.5	319.1	334.7	341.4	357.0	359.2	363.7	352.5
77.5°	171.8	176.3	183.0	196.4	209.7	223.1	238.7	249.9	254.4	249.9	236.5
80°	111.6	111.6	120.5	131.6	147.3	158.4	167.3	176.3	183.0	176.3	171.8
82.5°	69.2	69.2	80.3	93.7	104.9	111.6	125.0	136.1	142.8	138.3	131.6
85°	35.7	37.9	46.9	58.0	66.9	71.4	69.2	62.5	55.8	53.6	49.1
87.5°	11.2	11.2	13.4	13.4	11.2	11.2	13.4	11.2	13.4	13.4	13.4
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)