

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: P652053

Luminaire Tested: **GALN-SA8A-840-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652053  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-840-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32042.1 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 244  
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

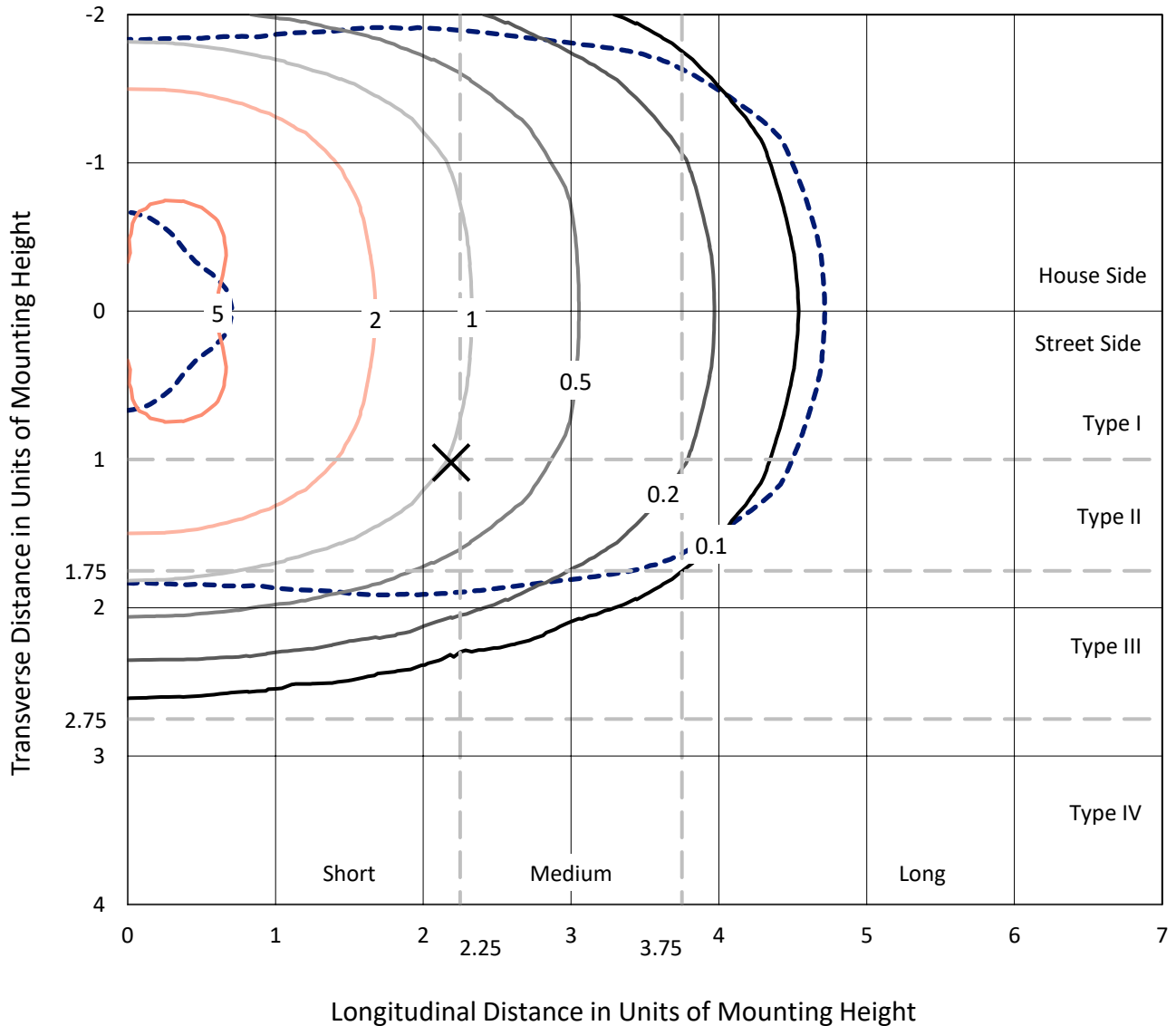




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### Iso-Footcandle Lines of Horizontal Illumination

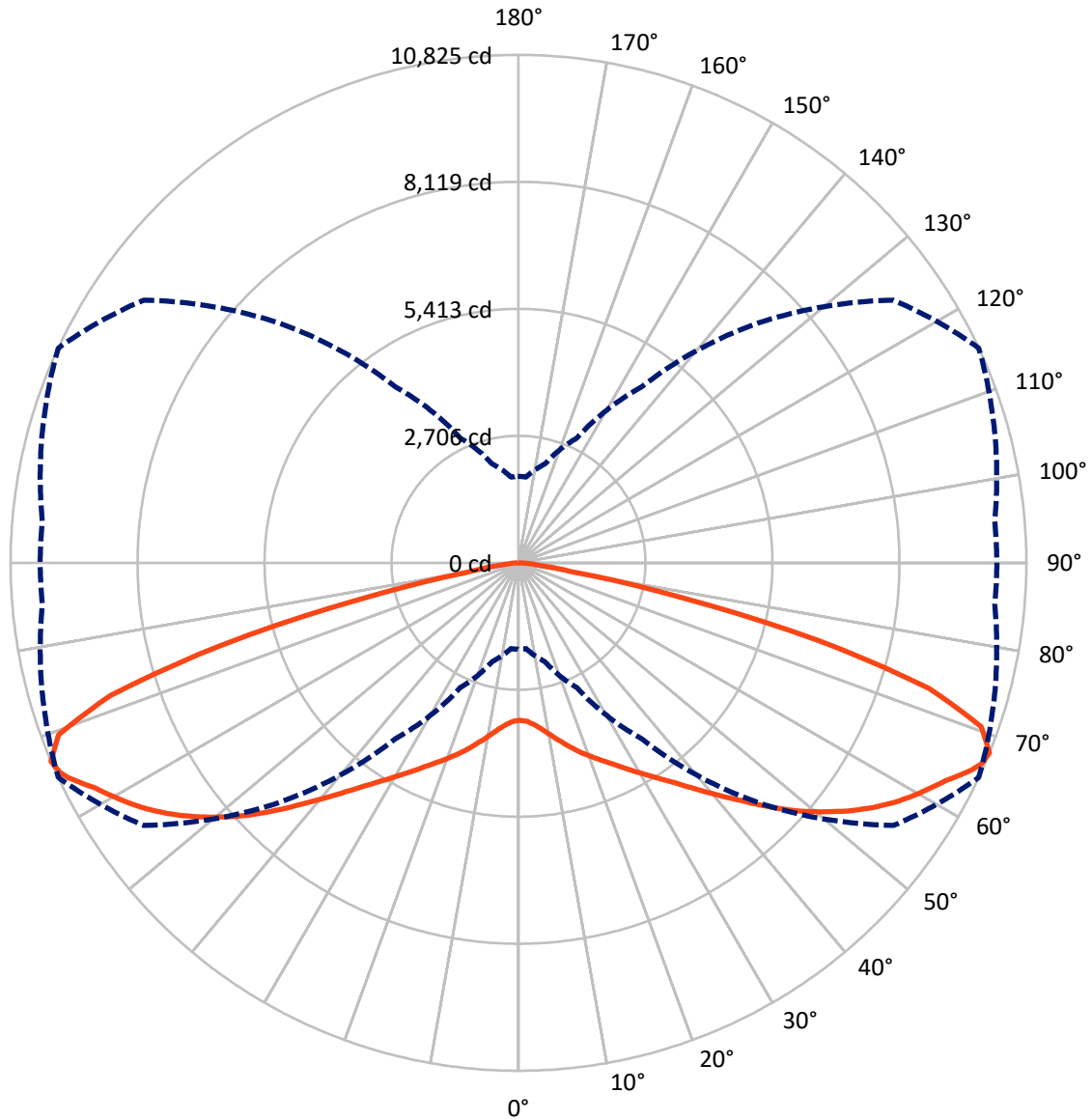
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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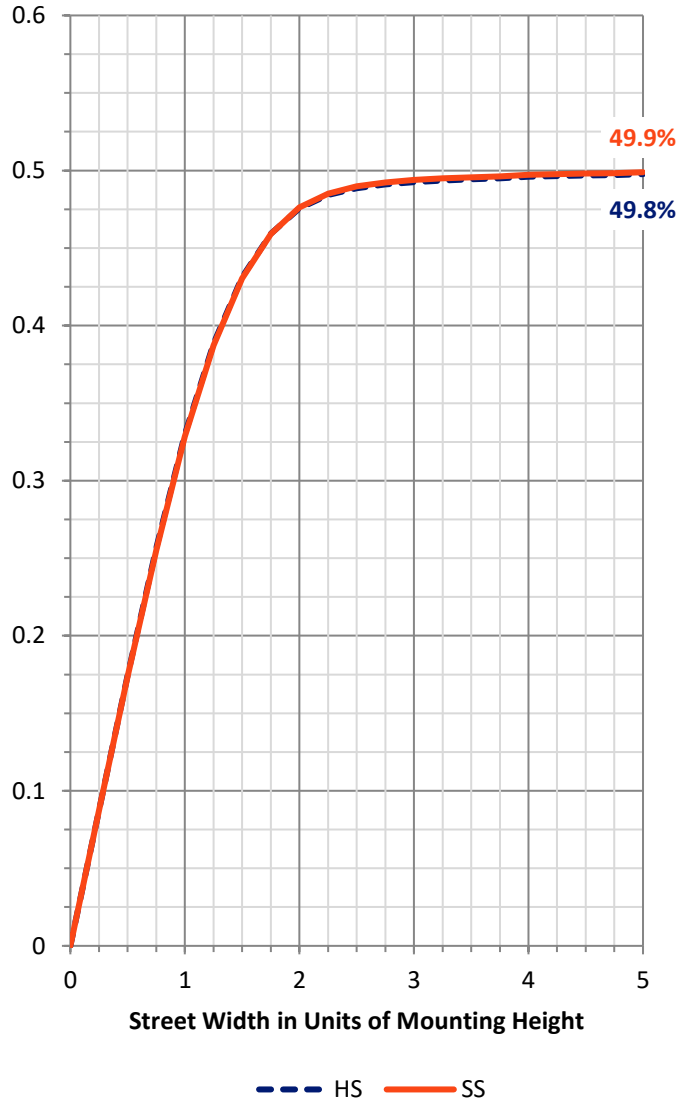
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16021.1	0.0	16021.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16021.1	0.0	16021.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32042.1	0.0	32042.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.0	1.0
10°-20°	1107.8	3.5
20°-30°	2167.0	6.8
30°-40°	3685.8	11.5
40°-50°	5833.5	18.2
50°-60°	7735.2	24.1
60°-70°	7296.6	22.8
70°-80°	3607.1	11.3
80°-90°	278.0	0.9
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°	32042.1	100.0
0°-180°	32042.1	100.0

**Coefficient of Utilization**



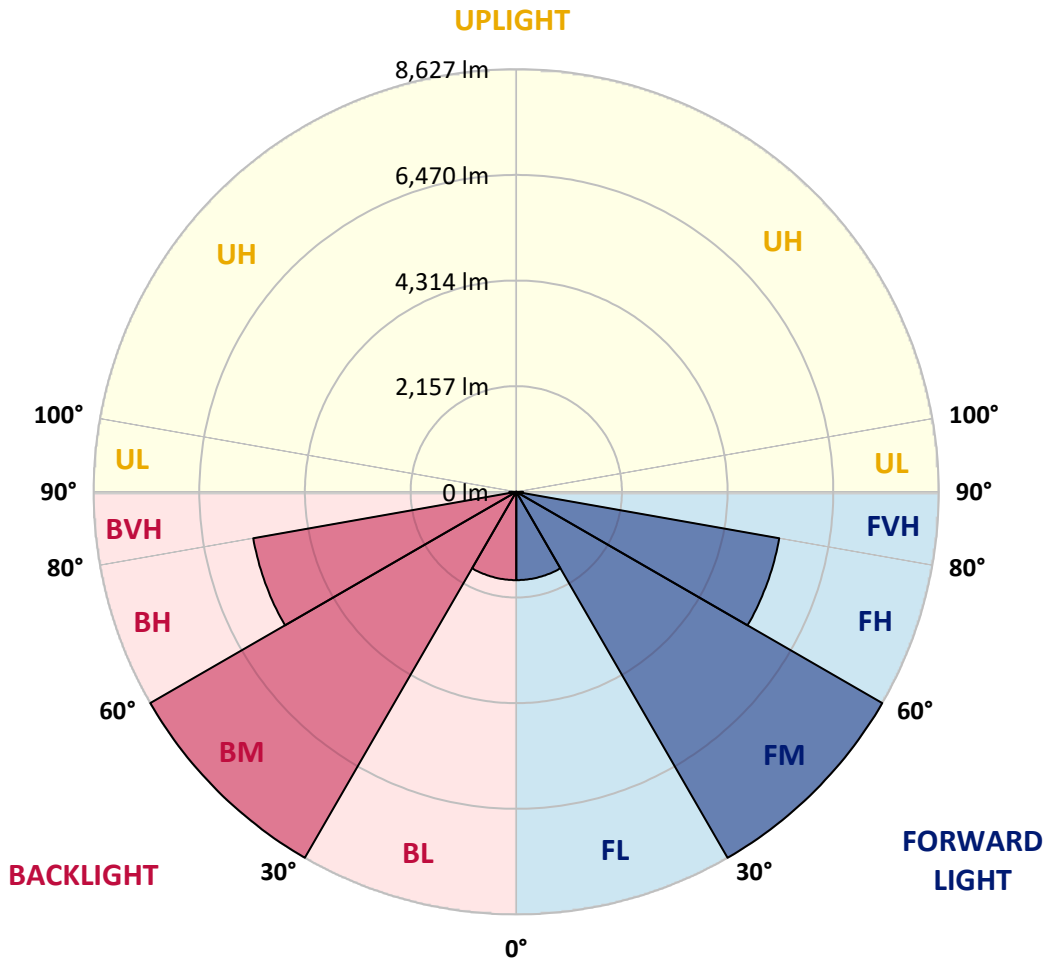
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1802.9	5.6			
FM	(30°-60°)	8627.3	26.9			
FH	(60°-80°)	5451.9	17.0			G3/7500
FVH	(80°-90°)	139.0	0.4			G2/225
BL	(0°-30°)	1802.9	5.6	B3/2500		
BM	(30°-60°)	8627.3	26.9	B5		
BH	(60°-80°)	5451.9	17.0	B5		G5
BVH	(80°-90°)	139.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1	3356.1
2.5°	3338.9	3342.4	3345.8	3351.0	3357.9	3368.1	3375.0	3380.1	3393.9	3395.6	3393.9
5°	3326.9	3330.4	3338.9	3354.4	3376.7	3407.6	3431.7	3460.9	3483.2	3498.6	3495.2
7.5°	3325.2	3332.1	3345.8	3378.5	3421.4	3474.6	3529.5	3579.3	3622.2	3656.6	3651.4
10°	3352.7	3361.3	3383.6	3431.7	3498.6	3575.8	3653.1	3726.9	3788.7	3833.4	3848.8
12.5°	3399.1	3405.9	3447.1	3519.2	3615.4	3711.5	3799.0	3890.0	3975.8	4051.3	4051.3
15°	3479.7	3491.7	3543.2	3648.0	3766.4	3878.0	3967.2	4063.4	4156.1	4241.9	4267.7
17.5°	3591.3	3608.5	3685.8	3819.7	3970.7	4073.7	4157.8	4236.8	4317.4	4399.9	4411.9
20°	3744.1	3761.3	3864.2	4025.6	4204.2	4327.8	4384.4	4403.3	4442.8	4521.7	4532.1
22.5°	3951.9	3969.0	4084.0	4266.0	4465.1	4599.0	4623.1	4578.4	4568.1	4629.9	4636.8
25°	4187.0	4202.5	4334.6	4530.4	4736.3	4882.3	4875.4	4765.5	4703.7	4741.5	4751.8
27.5°	4451.4	4473.7	4607.6	4810.2	5033.3	5162.1	5141.5	4981.8	4849.6	4842.8	4846.2
30°	4789.6	4813.6	4940.6	5134.6	5354.4	5472.8	5429.9	5215.3	5011.0	4942.4	4942.4
32.5°	5146.7	5206.7	5335.5	5538.1	5709.7	5795.6	5730.3	5472.8	5201.6	5105.5	5100.2
35°	5611.8	5644.5	5771.5	5968.9	6097.7	6164.6	6039.3	5763.0	5450.5	5337.2	5321.8
37.5°	6066.8	6094.2	6241.9	6430.7	6587.0	6583.5	6413.6	6108.0	5759.5	5632.4	5622.2
40°	6532.0	6561.1	6729.4	6902.8	7059.0	7045.3	6839.3	6497.7	6126.9	5984.4	6011.8
42.5°	6935.4	6968.0	7158.6	7405.8	7546.5	7543.1	7304.5	6920.0	6533.7	6406.7	6430.7
45°	7302.8	7332.0	7553.4	7836.7	8042.7	8068.5	7807.5	7400.6	7004.1	6841.0	6847.8
47.5°	7562.0	7616.9	7848.7	8173.2	8453.0	8544.0	8288.1	7889.9	7433.3	7263.3	7273.6
50°	7759.4	7793.8	8046.1	8415.2	8768.9	8957.7	8751.7	8343.1	7862.4	7682.2	7706.3
52.5°	7783.5	7824.7	8099.3	8525.0	8978.3	9265.0	9163.7	8786.0	8300.2	8114.8	8166.3
55°	7587.8	7611.8	7939.7	8456.4	9060.7	9493.3	9519.0	9198.0	8717.4	8576.6	8610.9
57.5°	7029.8	7091.6	7507.1	8135.4	8947.4	9615.2	9785.1	9572.3	9139.7	9000.6	9055.6
60°	6114.8	6176.6	6593.8	7390.4	8519.9	9558.6	10004.9	9903.6	9522.5	9410.9	9440.1
62.5°	4791.3	4786.1	5302.8	6279.7	7670.2	9280.4	10167.9	10222.9	9900.2	9759.4	9804.0
65°	3105.5	3121.0	3620.5	4672.8	6387.8	8573.2	10204.0	10629.7	10271.0	10058.1	10090.7
66°	2497.8	2544.1	2968.1	3938.1	5733.8	8109.7	10095.9	10749.9	10384.2	10126.7	10142.2
67.5°	1843.7	1835.1	2183.7	2932.1	4578.4	7229.0	9757.7	10825.4	10513.0	10188.5	10195.4
70°	1052.3	1050.6	1174.2	1610.3	2691.8	5090.0	8224.6	10463.2	10774.0	10411.7	10392.8
72.5°	769.1	764.0	781.1	889.3	1313.3	2569.8	5673.6	9144.8	10640.1	10375.7	10322.4
75°	645.5	642.0	638.6	652.4	736.5	1163.9	3011.0	6578.4	9232.3	9738.8	9683.9
77.5°	527.1	527.1	528.7	525.3	528.7	612.8	1248.0	3526.1	5622.2	6276.2	6429.0
80°	412.0	410.3	439.5	427.5	400.0	393.1	552.8	1134.8	1866.0	1855.8	1531.3
82.5°	303.9	283.2	334.7	326.1	295.3	250.6	322.8	484.1	623.2	405.1	300.4
85°	192.3	190.6	236.9	216.3	180.2	118.4	154.5	207.7	257.5	156.3	127.1
87.5°	34.3	32.6	75.5	54.9	54.9	34.3	42.9	56.7	84.1	58.4	42.9
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)