

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: P650898

Luminaire Tested: **GALN-SA5C-840-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650898  
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-SA5C-840-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30549.3 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

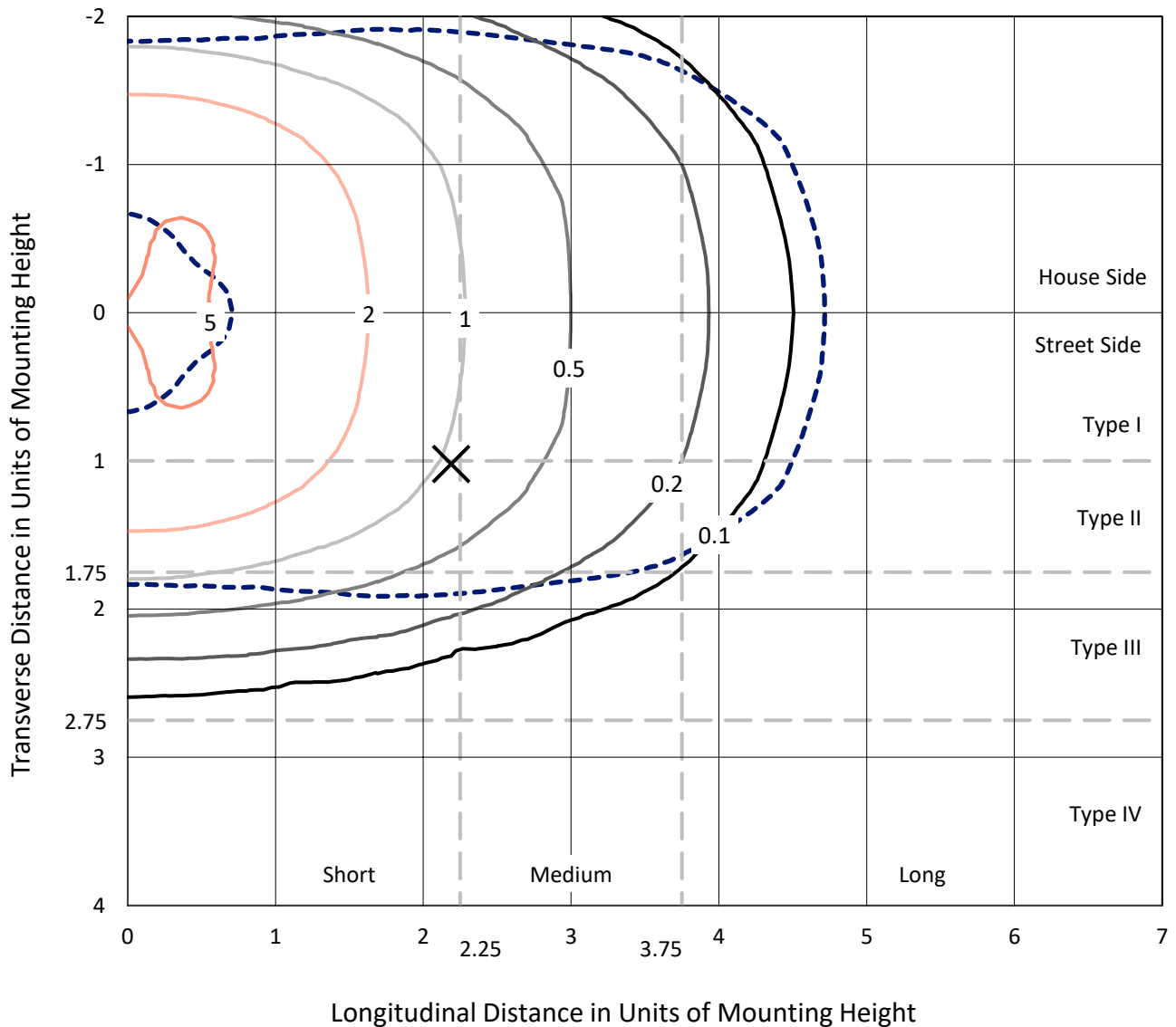
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

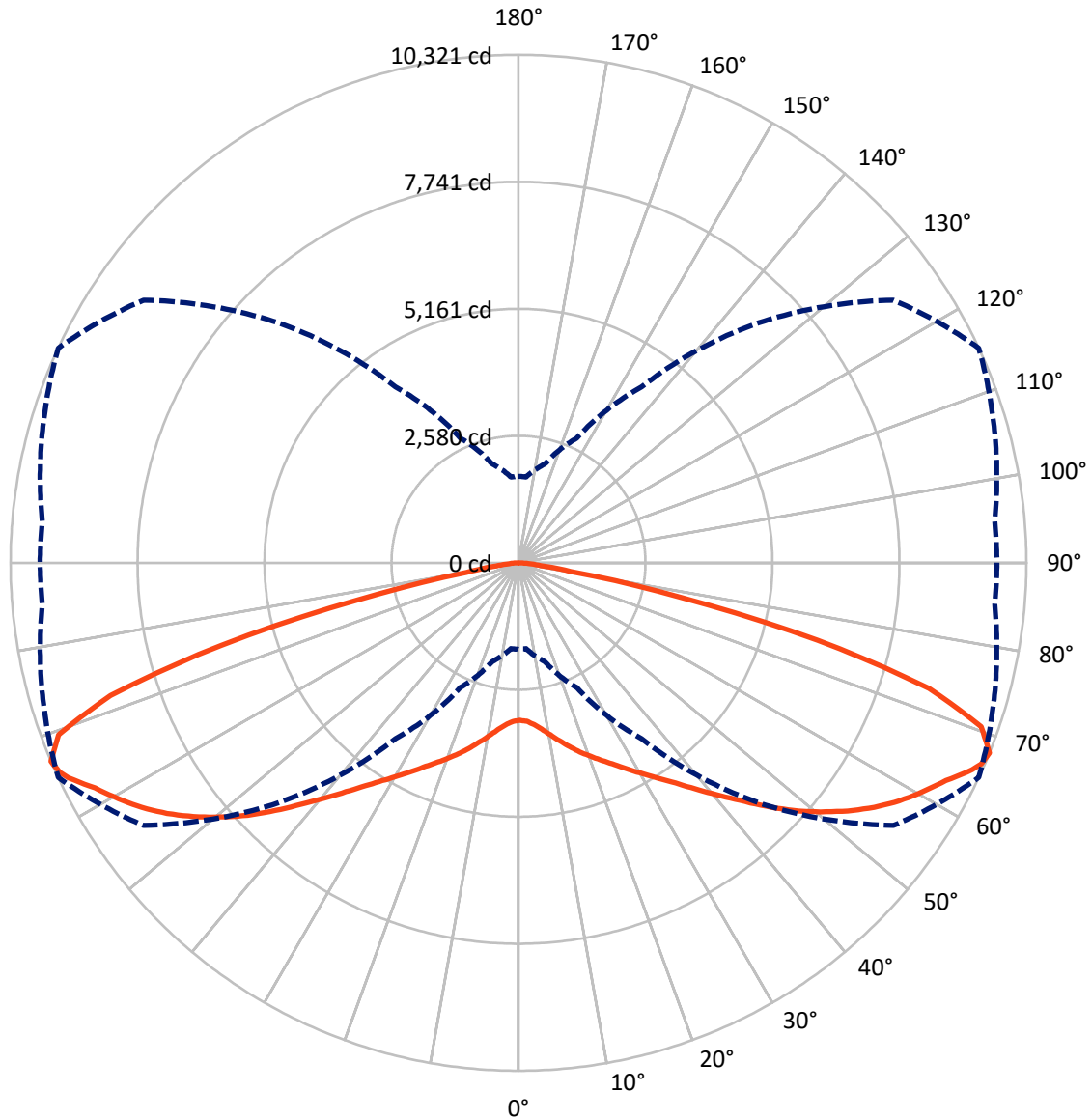
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	15274.7	0.0	15274.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15274.7	0.0	15274.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30549.3	0.0	30549.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.6	1.0
10°-20°	1056.2	3.5
20°-30°	2066.1	6.8
30°-40°	3514.1	11.5
40°-50°	5561.8	18.2
50°-60°	7374.8	24.1
60°-70°	6956.7	22.8
70°-80°	3439.0	11.3
80°-90°	265.0	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°	30549.3	100.0
0°-180°	30549.3	100.0

**Coefficient of Utilization**



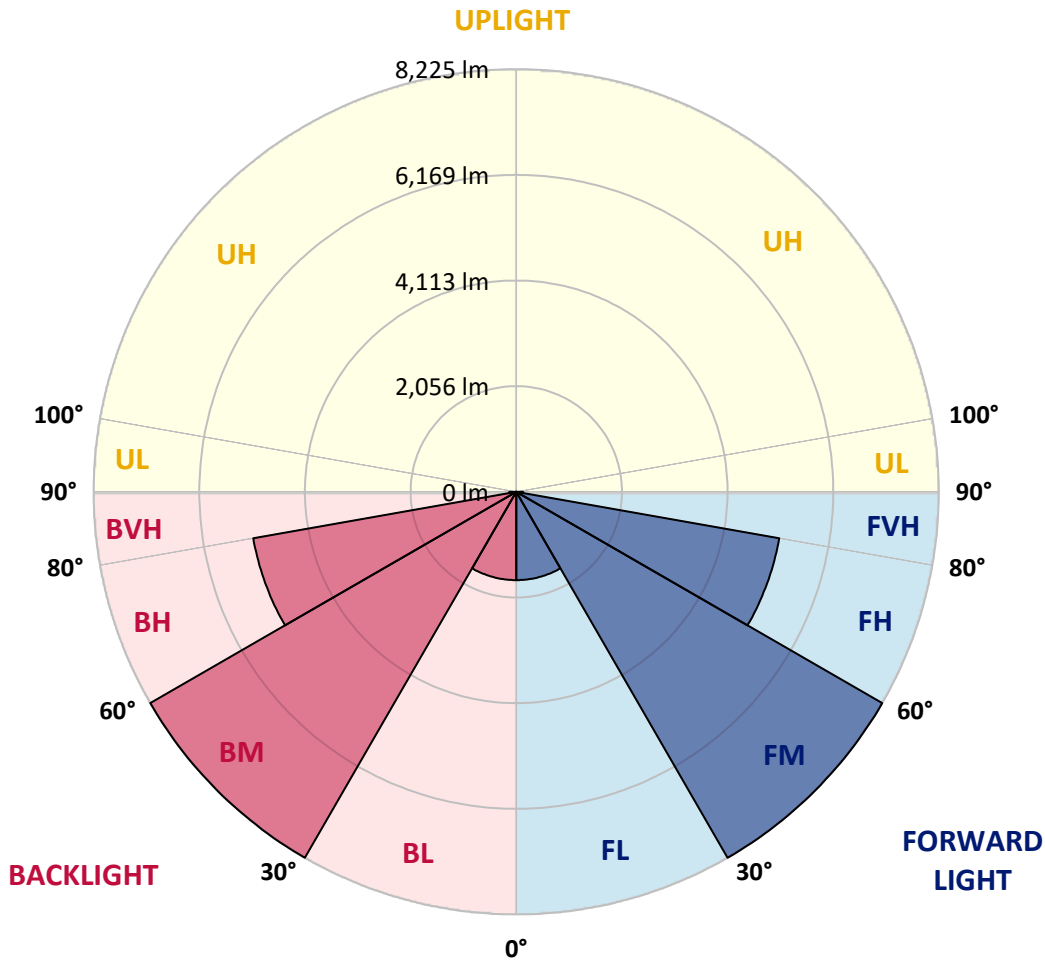
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1718.9	5.6			
FM	(30°-60°)	8225.3	26.9			
FH	(60°-80°)	5197.9	17.0			G3/7500
FVH	(80°-90°)	132.5	0.4			G2/225
BL	(0°-30°)	1718.9	5.6	B3/2500		
BM	(30°-60°)	8225.3	26.9	B4/8500		
BH	(60°-80°)	5197.9	17.0	B5		G5
BVH	(80°-90°)	132.5	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°	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8	3199.8
2.5°	3183.4	3186.7	3189.9	3194.9	3201.4	3211.2	3217.8	3222.7	3235.7	3237.4	3235.7
5°	3171.9	3175.2	3183.4	3198.2	3219.4	3248.9	3271.8	3299.6	3320.9	3335.7	3332.4
7.5°	3170.3	3176.9	3189.9	3221.0	3262.0	3312.7	3365.1	3412.5	3453.5	3486.2	3481.3
10°	3196.5	3204.7	3226.0	3271.8	3335.7	3409.2	3482.9	3553.3	3612.3	3654.8	3669.5
12.5°	3240.7	3247.3	3286.5	3355.3	3446.9	3538.6	3622.0	3708.8	3790.6	3862.6	3862.6
15°	3317.6	3329.1	3378.2	3478.0	3591.0	3697.4	3782.5	3874.1	3962.5	4044.3	4068.8
17.5°	3424.0	3440.4	3514.0	3641.7	3785.7	3883.9	3964.1	4039.4	4116.4	4194.9	4206.3
20°	3569.7	3586.0	3684.3	3838.1	4008.3	4126.1	4180.2	4198.2	4235.8	4311.1	4320.9
22.5°	3767.7	3784.1	3893.7	4067.2	4257.1	4384.7	4407.7	4365.1	4355.3	4414.2	4420.8
25°	3992.0	4006.7	4132.7	4319.3	4515.7	4654.9	4648.3	4543.5	4484.6	4520.6	4530.4
27.5°	4244.0	4265.3	4393.0	4586.1	4798.8	4921.6	4901.9	4749.7	4623.7	4617.2	4620.5
30°	4566.5	4589.3	4710.4	4895.4	5104.9	5217.8	5176.9	4972.3	4777.6	4712.1	4712.1
32.5°	4906.9	4964.2	5086.9	5280.1	5443.7	5525.5	5463.3	5217.8	4959.2	4867.6	4862.7
35°	5350.4	5381.5	5502.7	5690.9	5813.6	5877.4	5758.0	5494.4	5196.5	5088.6	5073.8
37.5°	5784.1	5810.3	5951.1	6131.1	6280.1	6276.8	6114.7	5823.4	5491.1	5370.0	5360.2
40°	6227.7	6255.5	6415.9	6581.2	6730.2	6717.1	6520.7	6195.0	5841.4	5705.6	5731.8
42.5°	6612.3	6643.4	6825.1	7060.8	7195.0	7191.7	6964.2	6597.6	6229.3	6108.2	6131.1
45°	6962.6	6990.4	7201.6	7471.6	7668.0	7692.5	7443.8	7055.9	6677.8	6522.3	6528.9
47.5°	7209.7	7262.1	7483.0	7792.4	8059.1	8145.9	7902.0	7522.3	7086.9	6925.0	6934.7
50°	7397.9	7430.7	7671.3	8023.1	8360.3	8540.4	8344.0	7954.4	7496.2	7324.3	7347.2
52.5°	7420.8	7460.2	7722.0	8127.9	8560.0	8833.4	8736.7	8376.7	7913.5	7736.8	7785.8
55°	7234.3	7257.2	7569.8	8062.4	8638.6	9051.0	9075.6	8769.5	8311.2	8177.0	8209.8
57.5°	6702.3	6761.2	7157.3	7756.4	8530.5	9167.2	9329.3	9126.3	8713.9	8581.3	8633.6
60°	5830.0	5888.9	6286.6	7046.1	8123.0	9113.2	9538.8	9442.2	9078.8	8972.5	9000.3
62.5°	4568.1	4563.2	5055.8	5987.1	7312.8	8848.1	9694.2	9746.6	9438.9	9304.7	9347.3
65°	2960.8	2975.5	3451.8	4455.1	6090.2	8173.8	9728.6	10134.6	9792.4	9589.5	9620.6
66°	2381.4	2425.6	2829.9	3754.6	5466.6	7731.8	9625.5	10249.1	9900.5	9654.9	9669.7
67.5°	1757.9	1749.6	2081.9	2795.5	4365.1	6892.2	9303.1	10321.1	10023.2	9713.9	9720.4
70°	1003.3	1001.6	1119.5	1535.2	2566.4	4852.8	7841.5	9975.8	10272.0	9926.7	9908.7
72.5°	733.3	728.3	744.7	847.8	1252.1	2450.2	5409.3	8718.7	10144.3	9892.3	9841.6
75°	615.4	612.2	608.9	621.9	702.2	1109.7	2870.8	6271.8	8802.2	9285.1	9232.7
77.5°	502.5	502.5	504.1	500.8	504.1	584.3	1189.9	3361.8	5360.2	5983.8	6129.5
80°	392.8	391.1	419.0	407.5	381.4	374.8	527.1	1081.9	1779.1	1769.3	1460.0
82.5°	289.7	270.0	319.2	311.0	281.5	238.9	307.7	461.5	594.2	386.3	286.4
85°	183.3	181.7	225.9	206.2	171.8	112.9	147.3	198.1	245.5	148.9	121.1
87.5°	32.7	31.1	72.0	52.4	52.4	32.7	41.0	54.0	80.2	55.7	41.0
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)