

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: P532667

Luminaire Tested: **GALN-SA8A-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-740-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22162 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

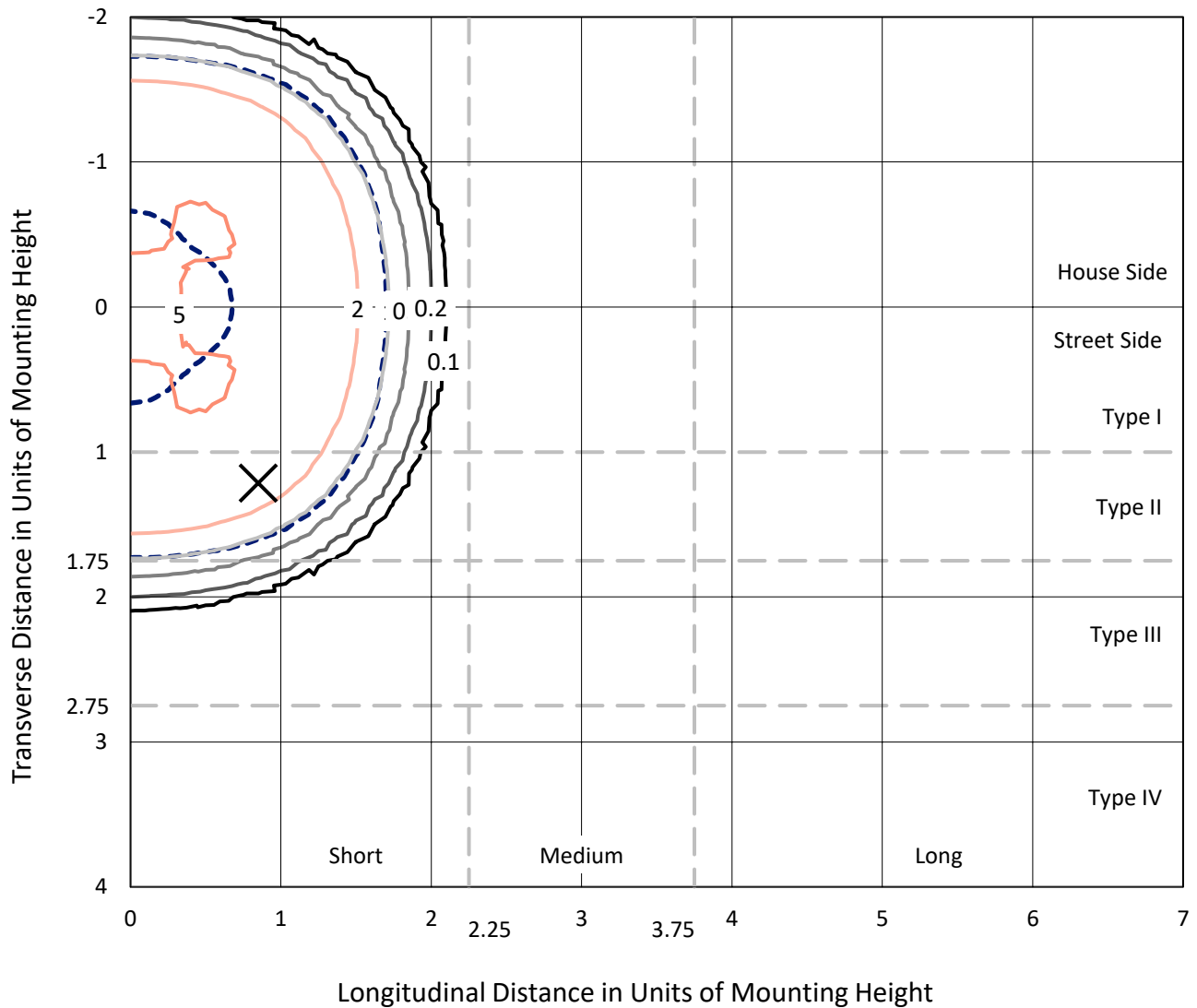
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

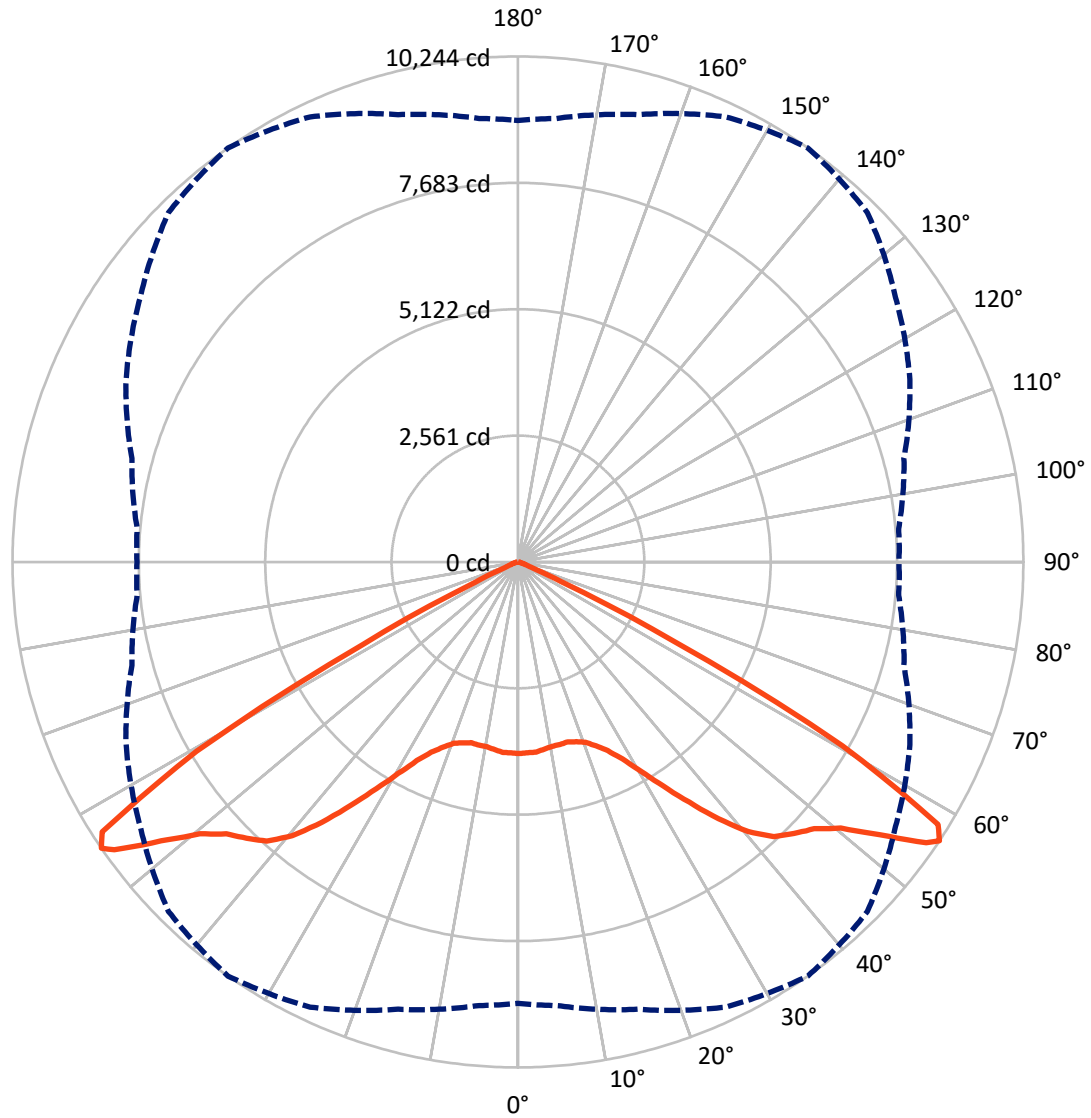
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11081.0	0.0	11081.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11081.0	0.0	11081.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22162.0	0.0	22162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.0	1.6
10°-20°	1065.5	4.8
20°-30°	1929.5	8.7
30°-40°	3578.0	16.1
40°-50°	5873.1	26.5
50°-60°	7566.3	34.1
60°-70°	1667.5	7.5
70°-80°	96.7	0.4
80°-90°	20.4	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°	22162.0	100.0
0°-180°	22162.0	100.0

Coefficient of Utilization



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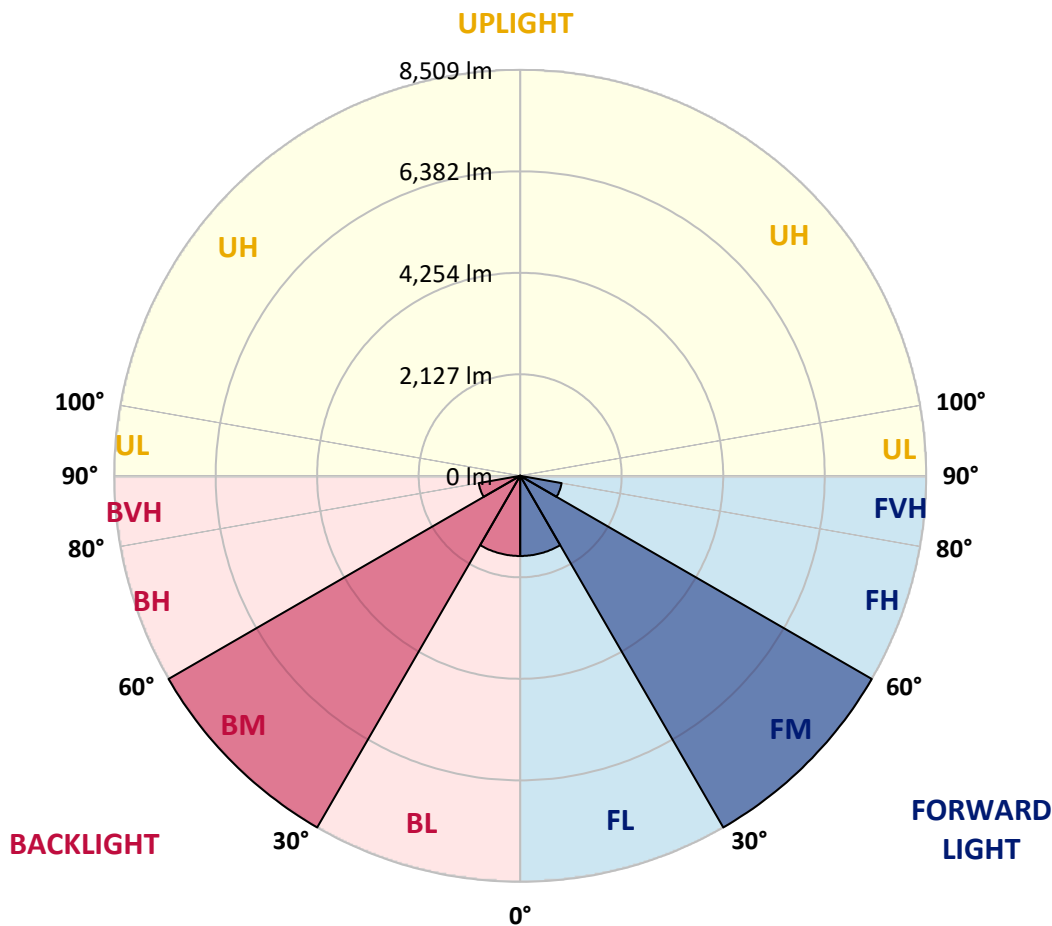
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1680.0	7.6			
FM (30°-60°)	8508.7	38.4			
FH (60°-80°)	882.1	4.0			G1/1800
FVH (80°-90°)	10.2	0.0			G1/100
BL (0°-30°)	1680.0	7.6	B3/2500		
BM (30°-60°)	8508.7	38.4	B5		
BH (60°-80°)	882.1	4.0	B2/1000		G1/1800
BVH (80°-90°)	10.2	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°	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3
2.5°	3891.3	3891.3	3895.3	3899.3	3871.2	3859.2	3863.2	3855.1	3851.1	3863.2	3863.2
5°	3879.2	3879.2	3867.2	3871.2	3871.2	3835.1	3835.1	3843.1	3843.1	3819.0	3811.0
7.5°	3847.1	3839.1	3823.0	3843.1	3831.1	3802.9	3782.9	3774.8	3774.8	3790.9	3774.8
10°	3778.8	3782.9	3798.9	3807.0	3798.9	3823.0	3774.8	3746.7	3718.6	3706.6	3706.6
12.5°	3746.7	3770.8	3746.7	3766.8	3794.9	3774.8	3746.7	3726.6	3686.5	3670.4	3670.4
15°	3742.7	3758.8	3766.8	3794.9	3782.9	3790.9	3734.7	3710.6	3650.3	3622.2	3610.2
17.5°	3738.7	3758.8	3770.8	3823.0	3831.1	3835.1	3790.9	3718.6	3666.4	3638.3	3610.2
20°	3782.9	3790.9	3815.0	3867.2	3899.3	3955.5	3875.2	3798.9	3686.5	3654.4	3642.3
22.5°	3839.1	3879.2	3903.3	3959.6	4043.9	4092.1	3987.7	3891.3	3774.8	3734.7	3686.5
25°	4019.8	4011.8	4051.9	4168.4	4236.6	4272.8	4188.5	4047.9	3895.3	3847.1	3855.1
27.5°	4244.7	4252.7	4288.9	4417.4	4517.8	4574.0	4473.6	4288.9	4140.3	4060.0	4051.9
30°	4537.8	4529.8	4570.0	4742.6	4923.3	5007.7	4831.0	4614.1	4469.6	4365.2	4389.2
32.5°	4847.0	4851.1	4963.5	5120.1	5413.3	5577.9	5292.8	5027.8	4810.9	4738.6	4702.5
35°	5304.8	5324.9	5413.3	5654.2	5979.5	6192.3	5879.1	5561.9	5312.9	5180.4	5196.4
37.5°	5871.1	5851.0	5999.6	6260.6	6601.9	6758.6	6493.5	6132.1	5879.1	5790.8	5847.0
40°	6473.4	6493.5	6569.8	6806.7	7188.2	7292.7	6899.1	6702.3	6481.5	6437.3	6505.6
42.5°	7075.8	7063.8	7120.0	7332.8	7609.9	7537.6	7304.7	7188.2	7031.6	6943.3	7035.6
45°	7517.5	7497.5	7601.9	7746.4	7846.8	7710.3	7605.9	7565.7	7485.4	7389.0	7473.4
47.5°	7947.2	7931.2	8031.6	8071.7	8079.7	7899.0	7919.1	7991.4	7790.6	7589.8	7686.2
50°	8312.7	8284.6	8409.0	8497.4	8477.3	8188.2	8260.5	8188.2	7874.9	7638.0	7601.9
52.5°	8923.1	8935.1	9067.6	9228.3	9180.1	8939.1	8834.7	8505.4	8103.8	7891.0	7766.5
55°	9308.6	9248.3	9477.2	9987.2	10043.5	9794.5	9332.7	8846.8	8244.4	7983.4	7951.2
56°	8947.2	9023.5	9384.9	9955.1	10244.3	10015.4	9344.7	8762.4	8099.8	7746.4	7722.3
57.5°	8027.5	7987.4	8477.3	9256.4	10043.5	9947.1	9015.4	8160.1	7389.0	6991.5	6943.3
60°	4995.6	5112.1	5541.8	6505.6	7557.7	7605.9	6682.3	5947.4	5047.8	4694.4	4778.8
62.5°	1955.7	1855.3	2124.3	2843.2	3566.0	3726.6	3377.3	2807.0	2305.1	1955.7	1931.6
65°	453.8	441.7	498.0	686.7	959.8	1112.4	1056.2	759.0	558.2	530.1	489.9
67.5°	257.0	257.0	245.0	245.0	269.1	285.1	273.1	269.1	281.1	293.2	289.1
70°	180.7	176.7	168.7	172.7	164.6	164.6	176.7	196.8	212.8	212.8	216.9
72.5°	108.4	108.4	108.4	120.5	120.5	120.5	132.5	148.6	152.6	148.6	144.6
75°	48.2	48.2	56.2	68.3	76.3	80.3	92.4	100.4	108.4	100.4	92.4
77.5°	12.0	12.0	20.1	28.1	36.1	44.2	60.2	72.3	76.3	72.3	60.2
80°	4.0	4.0	8.0	20.1	36.1	44.2	60.2	64.3	68.3	60.2	48.2
82.5°	4.0	4.0	8.0	20.1	28.1	36.1	48.2	56.2	60.2	52.2	48.2
85°	0.0	4.0	8.0	16.1	24.1	32.1	32.1	24.1	20.1	12.0	16.1
87.5°	0.0	0.0	4.0	4.0	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)