

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: P456715

Luminaire Tested: **GALN-SA8A-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35273 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

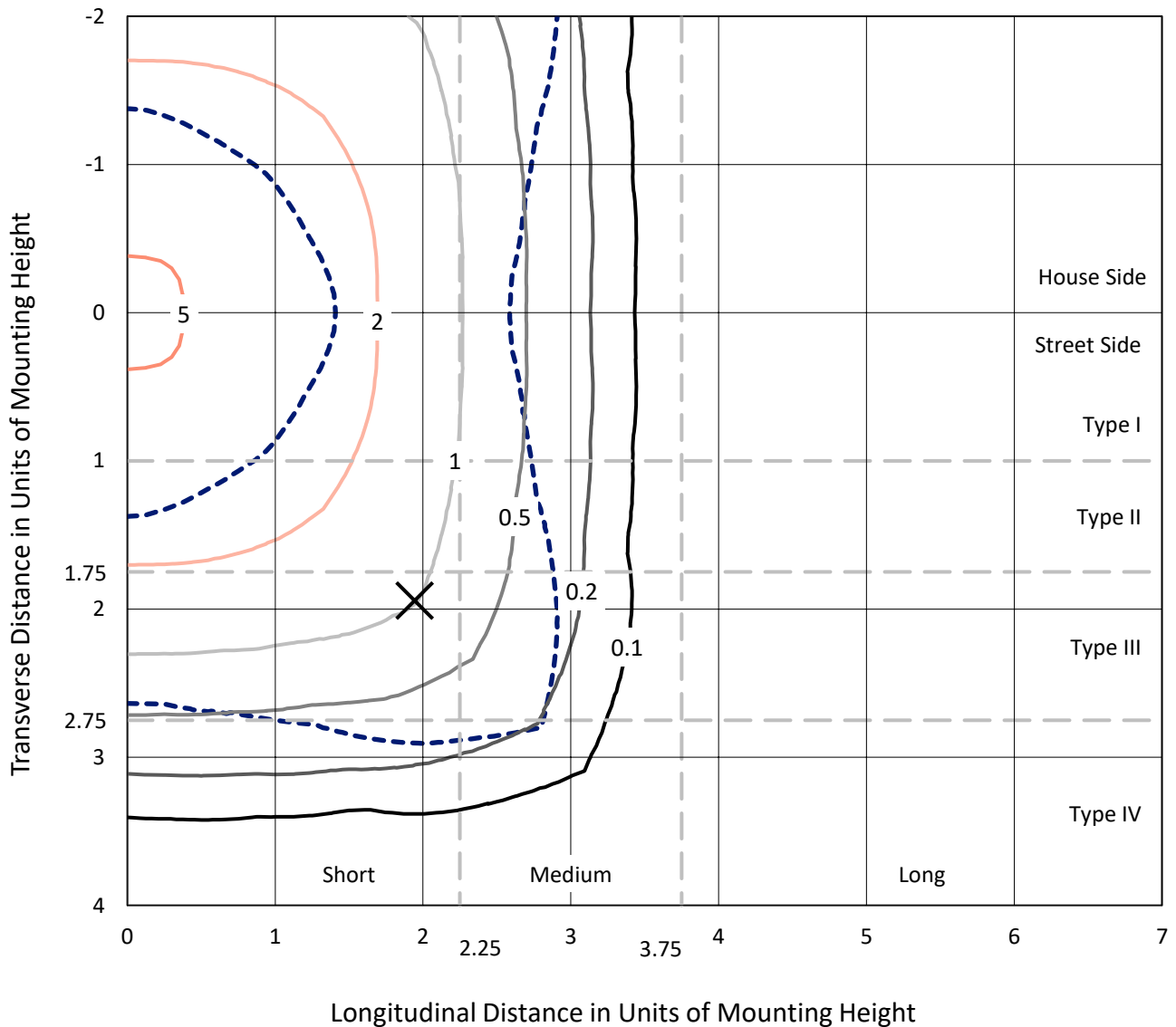
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

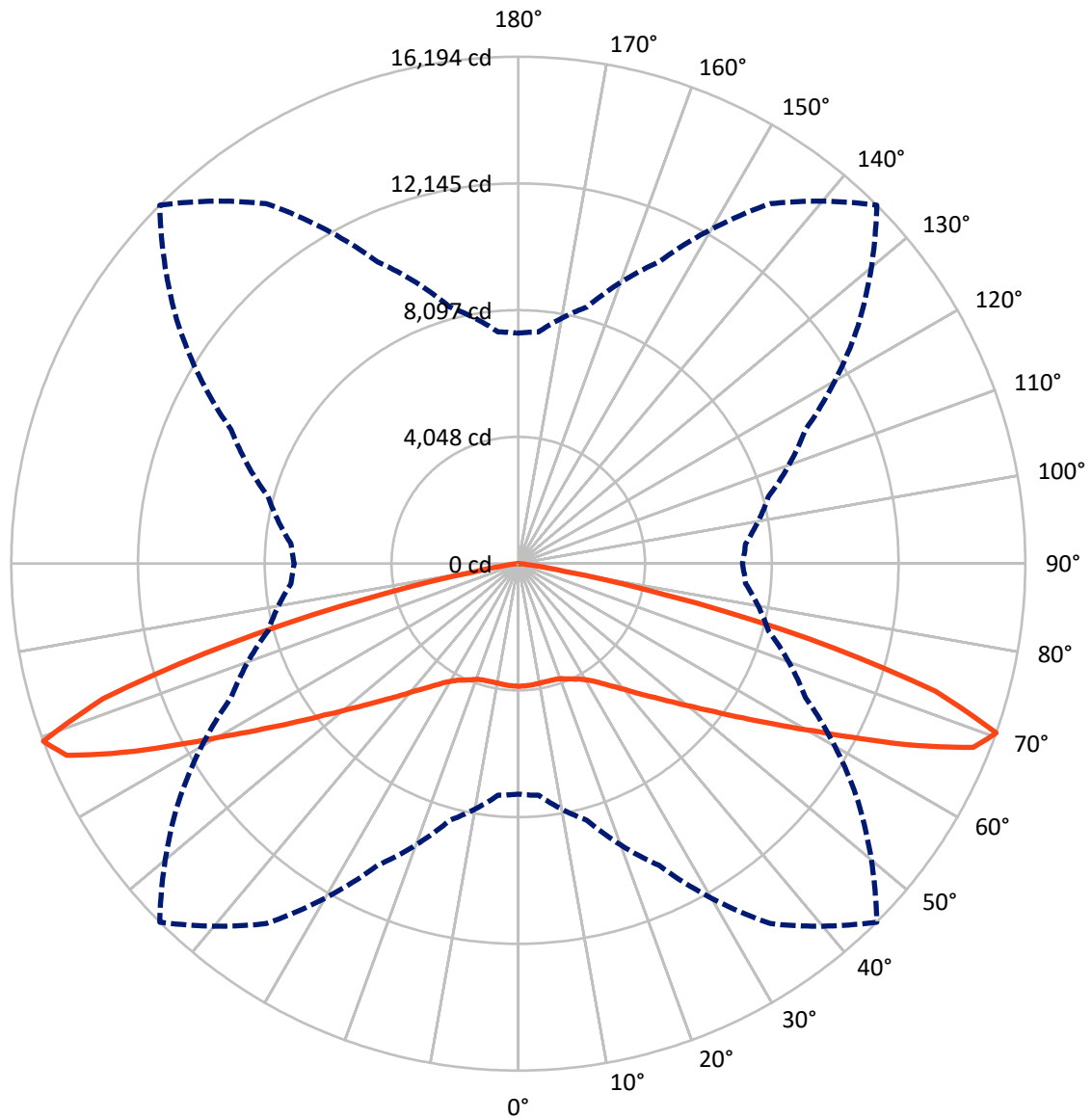
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17636.5	0.0	17636.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17636.5	0.0	17636.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35273.0	0.0	35273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.4	1.1
10°-20°	1090.0	3.1
20°-30°	1864.1	5.3
30°-40°	2958.8	8.4
40°-50°	4773.3	13.5
50°-60°	7766.3	22.0
60°-70°	11258.3	31.9
70°-80°	4993.8	14.2
80°-90°	197.0	0.6
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°	35273.0	100.0
0°-180°	35273.0	100.0

Coefficient of Utilization



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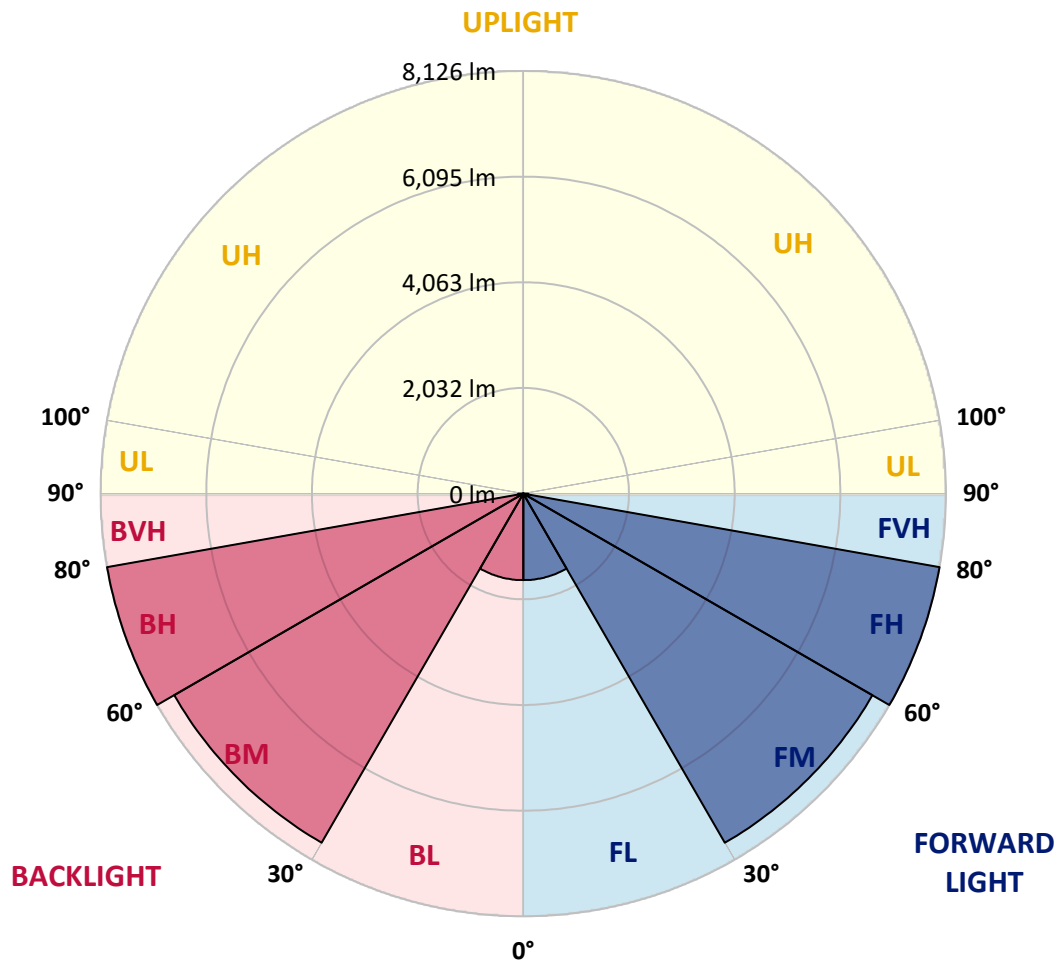
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1662.8	4.7			
FM (30°-60°)	7749.2	22.0			
FH (60°-80°)	8126.1	23.0			G4/12000
FVH (80°-90°)	98.5	0.3			G1/100
BL (0°-30°)	1662.8	4.7	B3/2500		
BM (30°-60°)	7749.2	22.0	B4/8500		
BH (60°-80°)	8126.1	23.0	B5		G4/12000
BVH (80°-90°)	98.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9	3916.9
2.5°	3916.9	3920.6	3915.0	3911.3	3909.5	3909.5	3907.6	3909.5	3920.6	3922.5	3916.9
5°	3905.7	3909.5	3907.6	3903.9	3902.0	3902.0	3900.2	3898.3	3907.6	3911.3	3909.5
7.5°	3890.9	3892.7	3890.9	3889.0	3890.9	3889.0	3883.4	3879.7	3887.2	3887.2	3885.3
10°	3864.8	3868.6	3866.7	3868.6	3872.3	3872.3	3864.8	3857.4	3859.3	3855.6	3855.6
12.5°	3833.2	3838.8	3840.7	3848.1	3857.4	3868.6	3851.8	3835.1	3831.4	3829.5	3827.7
15°	3812.8	3818.4	3825.8	3833.2	3850.0	3874.1	3850.0	3824.0	3816.5	3809.1	3805.4
17.5°	3807.2	3814.7	3825.8	3837.0	3859.3	3883.4	3863.0	3837.0	3818.4	3807.2	3803.5
20°	3822.1	3827.7	3844.4	3864.8	3896.5	3920.6	3900.2	3872.3	3844.4	3827.7	3822.1
22.5°	3851.8	3861.1	3881.6	3918.8	3963.4	3998.7	3970.8	3924.3	3879.7	3857.4	3850.0
25°	3916.9	3924.3	3948.5	3998.7	4050.7	4084.2	4054.5	4000.6	3939.2	3909.5	3900.2
27.5°	4015.4	4026.6	4052.6	4112.1	4154.9	4173.4	4153.0	4115.8	4071.2	4039.6	4032.2
30°	4154.9	4167.9	4206.9	4270.1	4298.0	4309.1	4299.9	4275.7	4244.1	4210.6	4203.2
32.5°	4342.6	4350.0	4394.7	4454.1	4480.2	4483.9	4472.7	4461.6	4409.5	4353.8	4350.0
35°	4552.7	4565.7	4619.6	4690.2	4714.4	4716.3	4694.0	4677.2	4615.9	4571.3	4571.3
37.5°	4831.5	4837.1	4889.2	4969.1	4995.1	4987.7	4976.5	4961.7	4896.6	4839.0	4840.8
40°	5158.7	5169.9	5214.5	5307.4	5307.4	5298.1	5305.6	5294.4	5229.4	5173.6	5175.4
42.5°	5547.2	5552.8	5606.7	5705.3	5697.8	5679.2	5686.7	5671.8	5630.9	5567.7	5545.4
45°	5961.8	5984.1	6077.1	6171.9	6157.0	6097.5	6127.2	6123.5	6086.3	5991.5	5997.1
47.5°	6461.9	6499.0	6588.3	6701.7	6684.9	6592.0	6625.5	6647.8	6595.7	6491.6	6473.0
50°	7025.1	7049.3	7181.3	7287.3	7272.4	7173.9	7250.1	7253.8	7123.7	6976.8	6976.8
52.5°	7625.6	7649.8	7828.2	7993.7	8003.0	7859.8	7921.2	7917.5	7705.5	7512.2	7475.0
55°	8298.5	8309.7	8540.2	8783.7	8835.8	8696.4	8703.8	8629.5	8354.3	8129.4	8108.9
57.5°	8993.8	9034.7	9289.4	9605.4	9759.7	9674.2	9635.2	9436.3	9170.4	8912.0	8899.0
60°	9763.4	9765.3	10096.2	10469.9	10782.2	10839.8	10679.9	10414.1	10070.2	9728.1	9713.2
62.5°	10297.0	10376.9	10795.2	11427.2	11986.8	12310.3	11888.3	11330.6	10653.9	10101.8	10046.0
65°	10406.6	10460.6	11098.2	12169.0	13312.3	14009.4	13033.4	11847.4	10692.9	9956.8	9919.6
67.5°	9519.9	9577.5	10436.4	12079.7	14241.8	15671.3	13777.0	11598.3	10031.1	9120.2	9047.7
70°	7363.5	7428.5	8490.0	10633.4	14035.4	16193.7	13247.2	10116.6	8272.5	7289.1	7157.1
72.5°	3915.0	4154.9	5062.0	7298.4	11391.9	13942.5	10862.1	7382.1	5335.3	4361.2	4186.5
75°	1429.6	1459.3	1965.0	3236.5	6627.3	9560.8	6882.0	3520.9	2024.4	1563.4	1483.5
77.5°	591.2	589.3	646.9	977.8	2407.4	4896.6	2686.2	1033.6	645.1	596.7	589.3
80°	349.5	349.5	384.8	407.1	633.9	1477.9	708.3	461.0	386.7	353.2	358.8
82.5°	156.2	165.5	243.5	256.5	306.7	405.3	342.1	293.7	252.8	174.7	158.0
85°	85.5	74.4	128.3	133.8	146.9	150.6	161.7	159.9	146.9	85.5	87.4
87.5°	16.7	20.4	37.2	27.9	31.6	27.9	37.2	52.1	53.9	29.7	24.2
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)