

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: P458949

Luminaire Tested: **GALN-SA4D-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29751 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

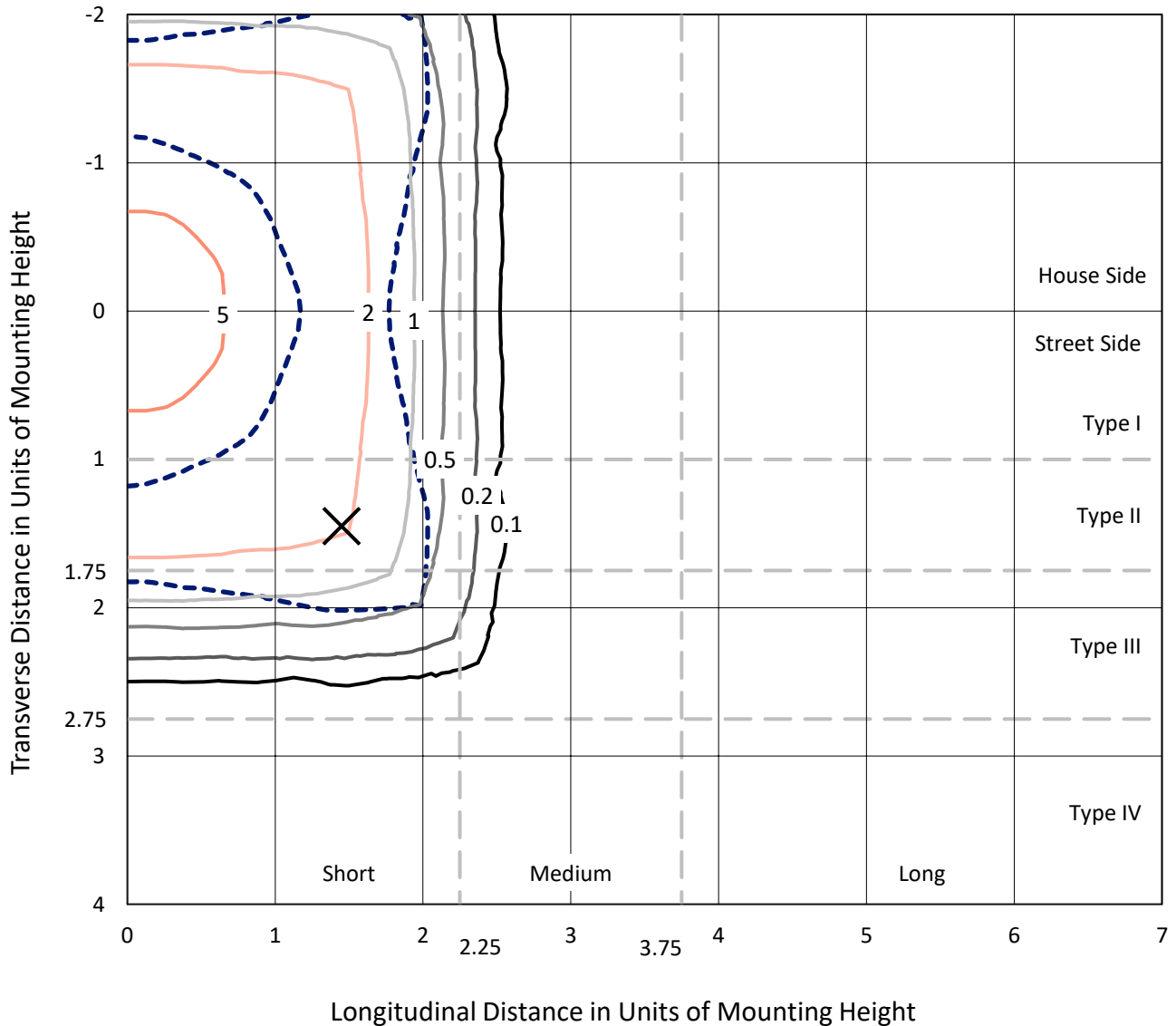
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

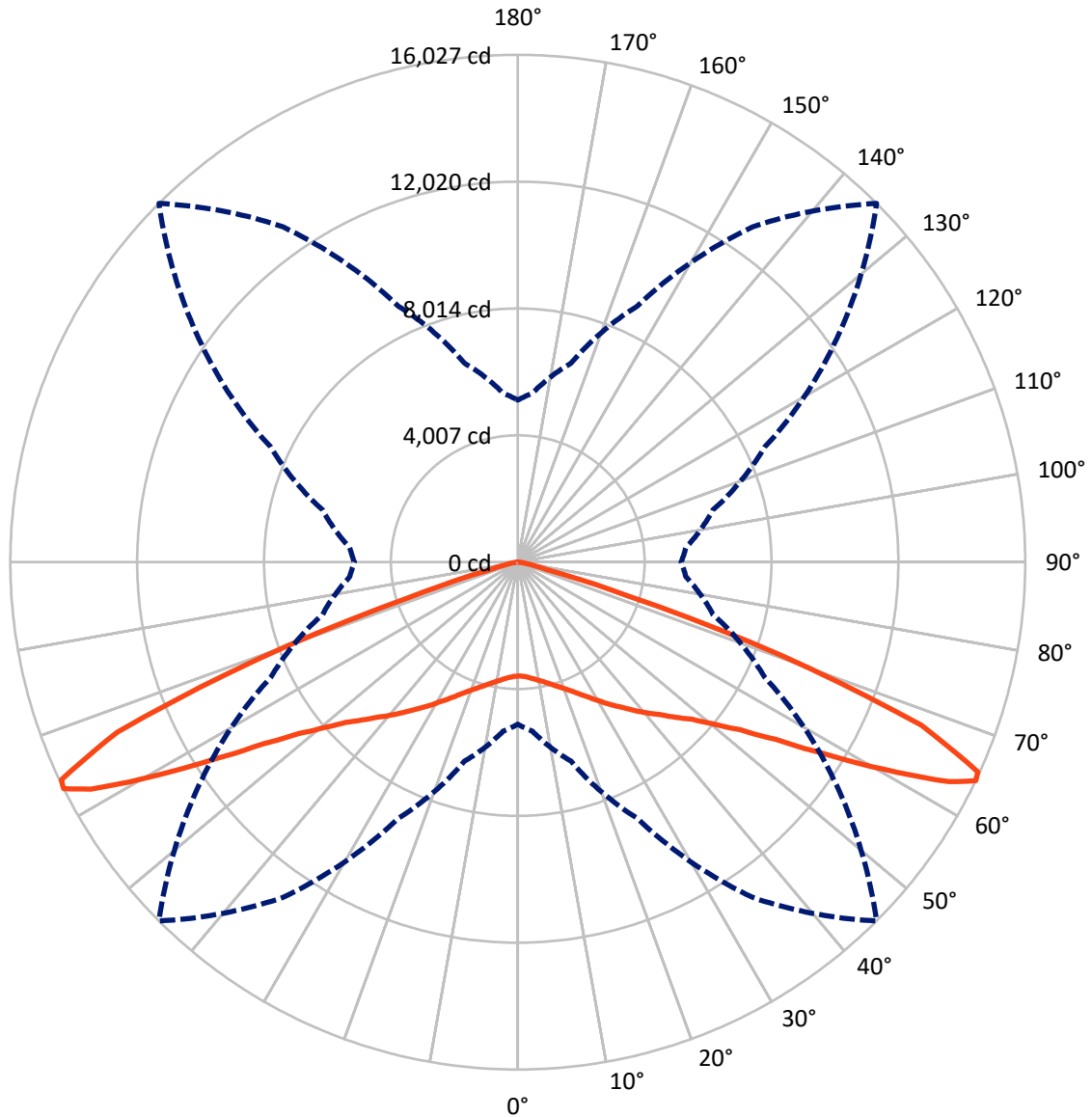
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14875.5	0.0	14875.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14875.5	0.0	14875.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29751.0	0.0	29751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.3	1.2
10°-20°	1139.5	3.8
20°-30°	2153.4	7.2
30°-40°	3566.3	12.0
40°-50°	5567.5	18.7
50°-60°	8607.2	28.9
60°-70°	7421.9	24.9
70°-80°	841.1	2.8
80°-90°	100.8	0.3
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°	29751.0	100.0
0°-180°	29751.0	100.0

Coefficient of Utilization



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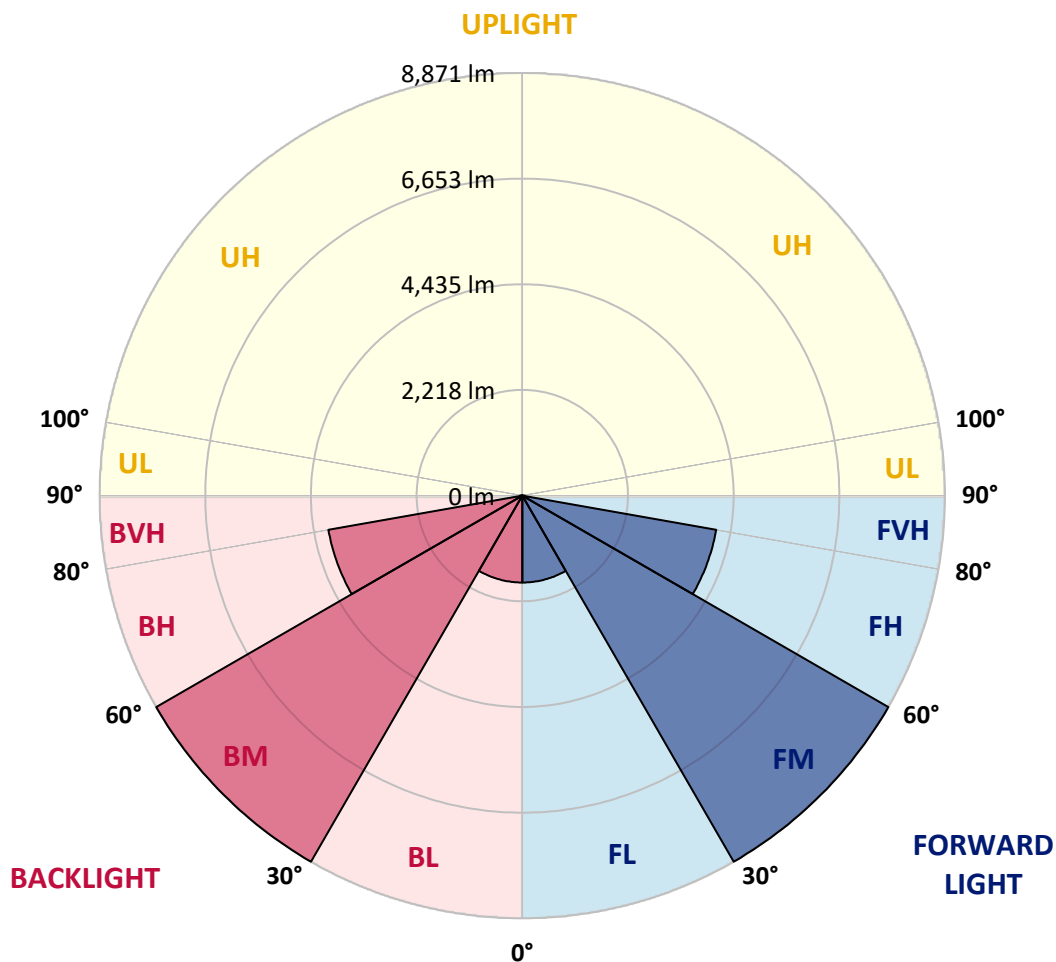
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1823.1	6.1			
FM (30°-60°)	8870.5	29.8			
FH (60°-80°)	4131.5	13.9			G2/5000
FVH (80°-90°)	50.4	0.2			G1/100
BL (0°-30°)	1823.1	6.1	B3/2500		
BM (30°-60°)	8870.5	29.8	B5		
BH (60°-80°)	4131.5	13.9	B4/5000		G2/5000
BVH (80°-90°)	50.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3595.9	3595.9	3595.9	3595.9	3595.9	3595.9	3595.9	3595.9	3595.9	3595.9	3595.9
2.5°	3610.1	3618.0	3611.7	3610.1	3608.5	3608.5	3608.5	3610.1	3616.4	3621.1	3618.0
5°	3655.8	3662.1	3658.9	3657.4	3655.8	3657.4	3654.2	3652.6	3657.4	3657.4	3655.8
7.5°	3712.5	3720.4	3717.2	3720.4	3722.0	3723.5	3715.7	3709.4	3707.8	3712.5	3709.4
10°	3789.7	3796.0	3797.6	3799.2	3802.3	3800.8	3791.3	3780.3	3778.7	3777.1	3775.5
12.5°	3876.4	3881.1	3882.7	3889.0	3893.7	3895.3	3884.3	3874.8	3859.1	3862.2	3855.9
15°	3974.1	3983.5	3982.0	3991.4	4004.0	4007.2	3996.2	3980.4	3966.2	3958.3	3953.6
17.5°	4093.9	4100.2	4097.0	4106.5	4122.2	4130.1	4120.6	4100.2	4086.0	4068.6	4059.2
20°	4235.7	4246.7	4249.9	4249.9	4264.0	4271.9	4257.7	4251.4	4229.4	4216.8	4208.9
22.5°	4396.4	4401.1	4410.6	4420.0	4434.2	4431.1	4426.3	4416.9	4396.4	4385.4	4372.8
25°	4577.6	4582.3	4606.0	4626.5	4631.2	4628.0	4621.7	4617.0	4598.1	4572.9	4563.4
27.5°	4788.8	4798.2	4829.7	4848.6	4848.6	4850.2	4837.6	4853.4	4812.4	4782.5	4779.3
30°	5053.5	5059.8	5086.6	5105.5	5096.0	5088.2	5085.0	5100.8	5056.6	5003.1	4990.5
32.5°	5315.1	5337.1	5360.8	5401.7	5368.7	5354.5	5351.3	5362.3	5311.9	5252.0	5234.7
35°	5595.6	5611.3	5655.4	5690.1	5660.2	5627.1	5641.3	5675.9	5616.0	5535.7	5532.5
37.5°	5906.0	5920.2	5976.9	6013.1	5991.1	5934.4	5958.0	5999.0	5939.1	5839.8	5819.3
40°	6229.0	6259.0	6329.9	6367.7	6331.4	6255.8	6299.9	6344.1	6290.5	6175.4	6129.7
42.5°	6591.4	6638.7	6741.1	6760.1	6690.7	6588.3	6665.5	6736.4	6698.6	6566.2	6548.9
45°	7015.3	7043.7	7169.8	7210.7	7114.6	6987.0	7083.1	7212.3	7183.9	7031.1	6998.0
47.5°	7489.6	7516.4	7647.2	7708.7	7587.3	7415.6	7588.9	7757.5	7740.2	7576.3	7560.5
50°	8050.6	8056.9	8238.1	8307.5	8186.1	8038.0	8192.4	8402.0	8332.7	8123.1	8119.9
52.5°	8665.2	8673.0	8901.5	9035.5	8967.7	8800.7	8983.5	9111.1	8934.6	8660.4	8640.0
55°	9197.8	9237.2	9549.2	9905.3	9998.3	9876.9	9932.1	9872.2	9437.3	9052.8	8992.9
57.5°	9415.2	9492.4	9966.7	10631.7	11236.8	11416.5	10991.0	10420.6	9637.4	9093.8	9035.5
60°	8884.2	8967.7	9703.6	10965.8	12510.0	13290.0	12094.0	10513.5	9182.0	8417.8	8326.4
62.5°	7114.6	7138.2	8220.8	10179.5	13252.2	15272.4	12558.9	9720.9	7856.8	6818.4	6782.1
64°	5119.7	5362.3	6509.5	8925.2	12927.6	16027.2	12291.0	8610.0	6381.9	5330.8	5160.6
65°	3829.1	3895.3	5247.3	7622.0	12355.6	15970.4	11771.0	7547.9	5285.1	4079.7	3890.6
67.5°	1446.6	1454.4	1936.6	3799.2	8796.0	13740.7	8983.5	4106.5	2226.6	1610.4	1552.1
70°	600.4	611.4	710.7	1277.9	3780.3	8822.7	4331.8	1481.2	814.7	660.2	650.8
72.5°	439.6	445.9	475.9	567.3	1162.9	3622.7	1424.5	628.7	477.5	427.0	422.3
75°	345.1	348.2	370.3	417.6	542.1	1003.8	592.5	431.8	364.0	327.8	324.6
77.5°	263.2	271.0	286.8	318.3	364.0	475.9	392.4	323.0	280.5	250.5	245.8
80°	181.2	190.7	220.6	233.2	244.2	308.9	267.9	244.2	219.0	182.8	171.8
82.5°	111.9	118.2	148.1	159.2	154.4	173.3	171.8	174.9	156.0	113.5	105.6
85°	58.3	61.5	80.4	83.5	77.2	70.9	88.2	102.4	96.1	64.6	63.0
87.5°	12.6	14.2	17.3	15.8	17.3	17.3	22.1	33.1	34.7	22.1	20.5
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)