

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: P459210

Luminaire Tested: **GALN-SA7A-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459210
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-SA7A-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30966 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

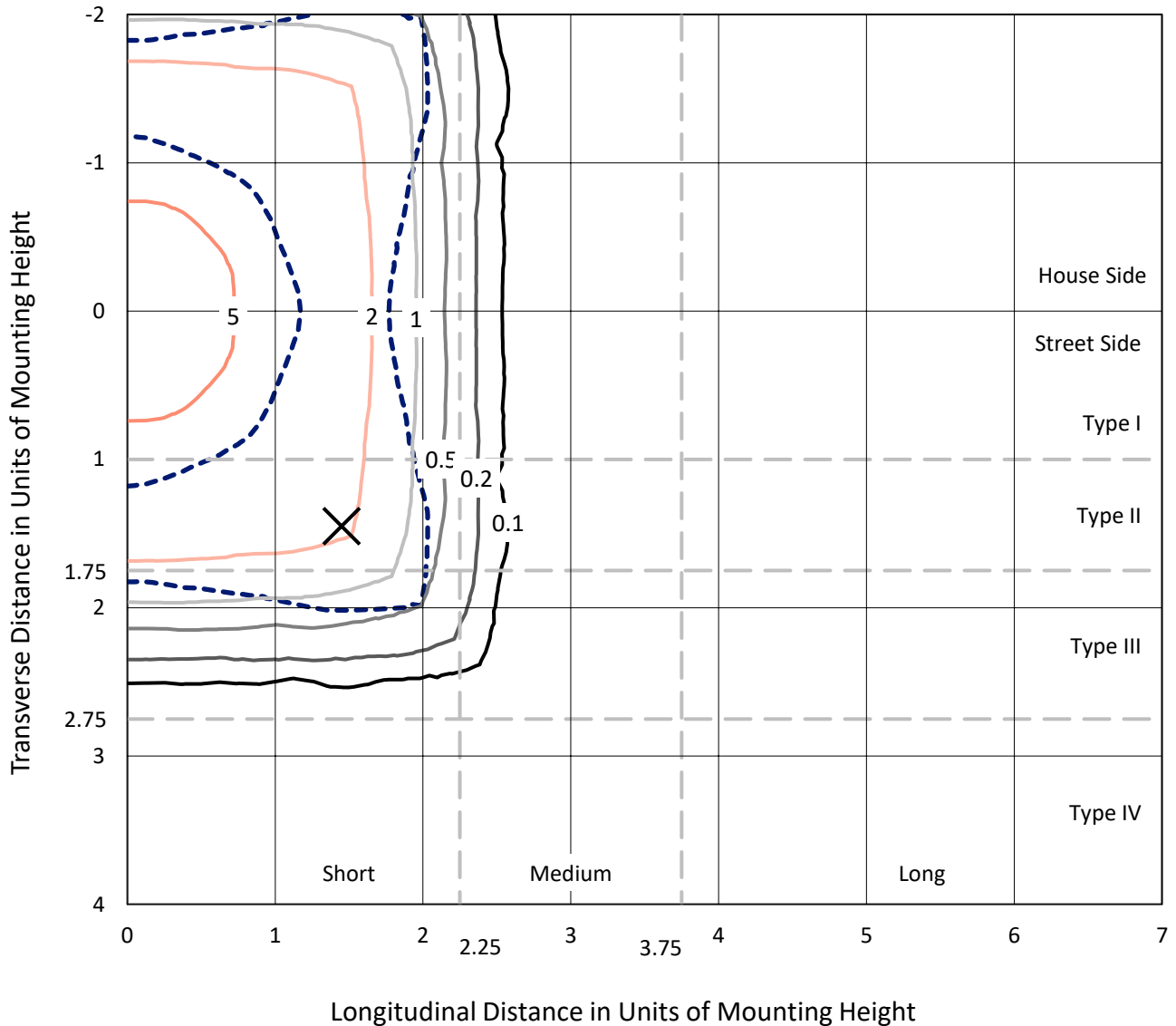
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

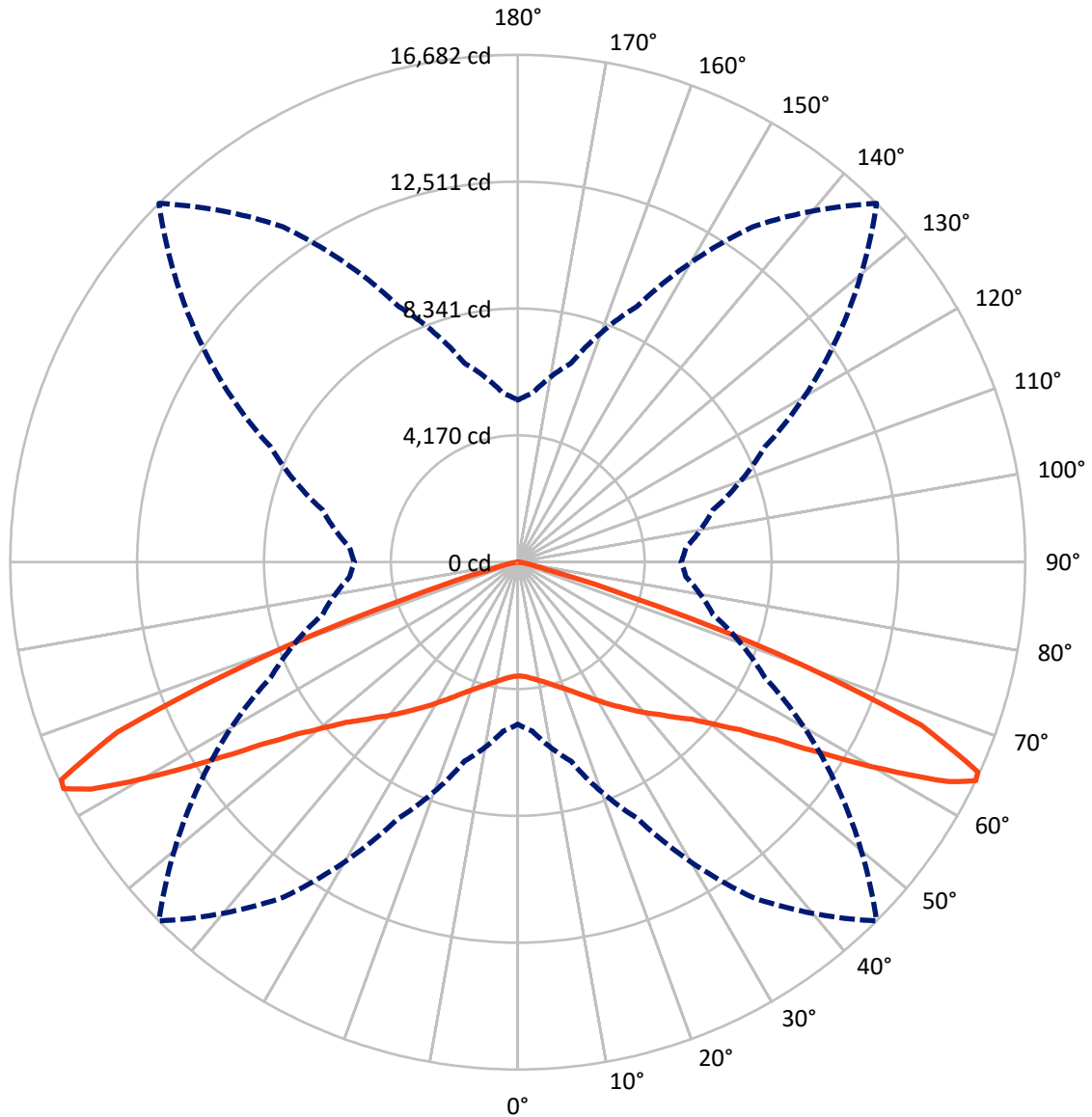
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	15483.0	0.0	15483.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15483.0	0.0	15483.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30966.0	0.0	30966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.7	1.2
10°-20°	1186.1	3.8
20°-30°	2241.3	7.2
30°-40°	3711.9	12.0
40°-50°	5794.9	18.7
50°-60°	8958.8	28.9
60°-70°	7725.0	24.9
70°-80°	875.4	2.8
80°-90°	104.9	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°	30966.0	100.0
0°-180°	30966.0	100.0

Coefficient of Utilization



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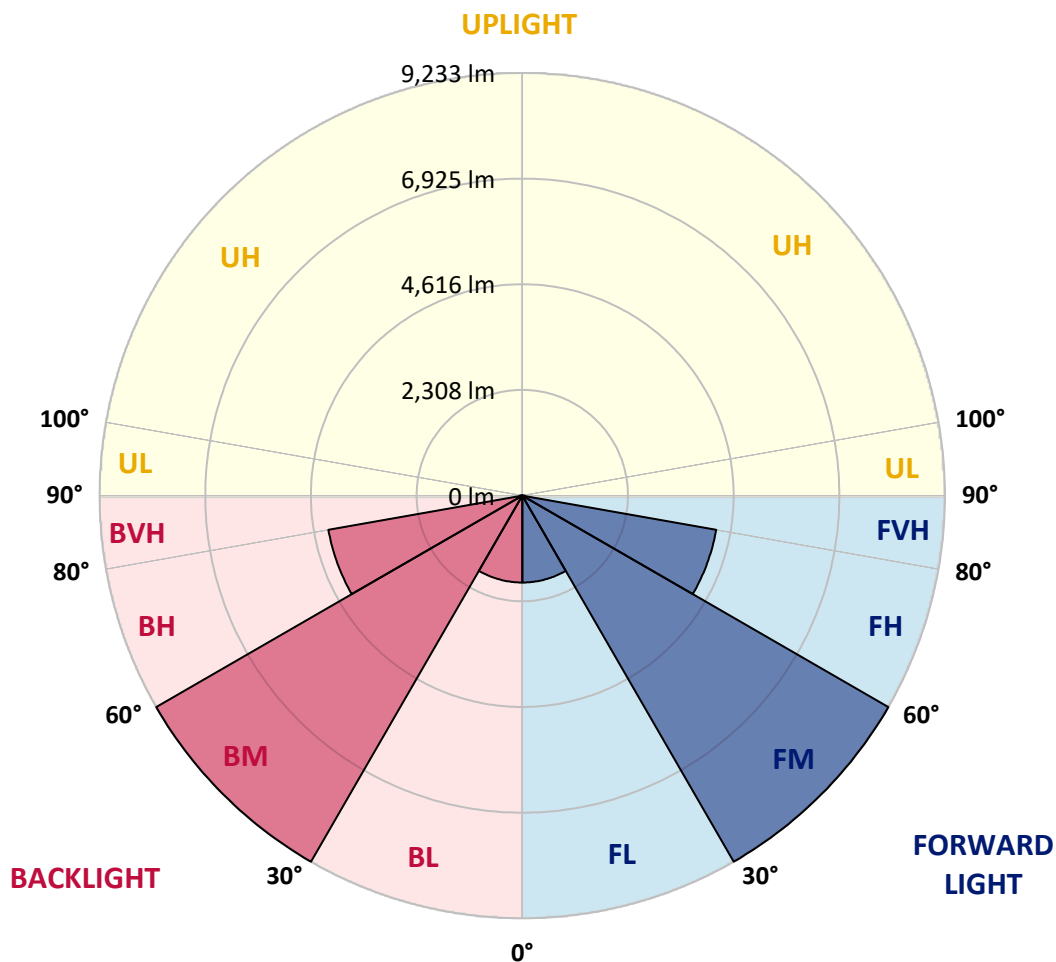
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1897.6	6.1			
FM (30°-60°)	9232.8	29.8			
FH (60°-80°)	4300.2	13.9			G2/5000
FVH (80°-90°)	52.4	0.2			G1/100
BL (0°-30°)	1897.6	6.1	B3/2500		
BM (30°-60°)	9232.8	29.8	B5		
BH (60°-80°)	4300.2	13.9	B4/5000		G2/5000
BVH (80°-90°)	52.4	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°	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8
2.5°	3757.5	3765.7	3759.2	3757.5	3755.9	3755.9	3755.9	3757.5	3764.1	3769.0	3765.7
5°	3805.1	3811.6	3808.4	3806.7	3805.1	3806.7	3803.4	3801.8	3806.7	3806.7	3805.1
7.5°	3864.1	3872.3	3869.1	3872.3	3874.0	3875.6	3867.4	3860.9	3859.2	3864.1	3860.9
10°	3944.5	3951.1	3952.7	3954.3	3957.6	3956.0	3946.1	3934.7	3933.0	3931.4	3929.7
12.5°	4034.7	4039.6	4041.3	4047.8	4052.7	4054.4	4042.9	4033.1	4016.7	4019.9	4013.4
15°	4136.4	4146.2	4144.6	4154.4	4167.6	4170.8	4159.4	4143.0	4128.2	4120.0	4115.1
17.5°	4261.0	4267.6	4264.3	4274.2	4290.6	4298.8	4288.9	4267.6	4252.8	4234.8	4225.0
20°	4408.7	4420.1	4423.4	4423.4	4438.2	4446.4	4431.6	4425.1	4402.1	4389.0	4380.8
22.5°	4575.9	4580.9	4590.7	4600.5	4615.3	4612.0	4607.1	4597.3	4575.9	4564.5	4551.3
25°	4764.6	4769.5	4794.1	4815.4	4820.3	4817.0	4810.5	4805.6	4785.9	4759.6	4749.8
27.5°	4984.3	4994.2	5027.0	5046.7	5046.7	5048.3	5035.2	5051.6	5008.9	4977.8	4974.5
30°	5259.9	5266.4	5294.3	5314.0	5304.2	5296.0	5292.7	5309.1	5263.2	5207.4	5194.3
32.5°	5532.1	5555.1	5579.7	5622.3	5587.9	5573.1	5569.9	5581.3	5528.9	5466.5	5448.5
35°	5824.1	5840.5	5886.4	5922.5	5891.3	5856.9	5871.6	5907.7	5845.4	5761.8	5758.5
37.5°	6147.2	6161.9	6221.0	6258.7	6235.7	6176.7	6201.3	6244.0	6181.6	6078.3	6057.0
40°	6483.4	6514.6	6588.4	6627.7	6590.0	6511.3	6557.2	6603.1	6547.4	6427.6	6380.1
42.5°	6860.6	6909.8	7016.4	7036.1	6964.0	6857.4	6937.7	7011.5	6972.2	6834.4	6816.4
45°	7301.8	7331.4	7462.6	7505.2	7405.2	7272.3	7372.4	7506.8	7477.3	7318.2	7283.8
47.5°	7795.5	7823.4	7959.5	8023.5	7897.2	7718.4	7898.8	8074.3	8056.3	7885.7	7869.3
50°	8379.4	8386.0	8574.6	8646.7	8520.4	8366.3	8527.0	8745.1	8673.0	8454.8	8451.6
52.5°	9019.0	9027.2	9265.1	9404.5	9333.9	9160.1	9350.3	9483.2	9299.5	9014.1	8992.8
55°	9573.4	9614.4	9939.1	10309.8	10406.6	10280.3	10337.7	10275.4	9822.7	9422.5	9360.2
57.5°	9799.7	9880.1	10373.8	11065.9	11695.7	11882.7	11439.9	10846.1	10031.0	9465.2	9404.5
60°	9247.0	9333.9	10099.9	11413.6	13020.9	13832.8	12587.9	10942.9	9557.0	8761.5	8666.4
62.5°	7405.2	7429.8	8556.5	10595.2	13793.4	15896.1	13071.8	10117.9	8177.7	7096.8	7059.1
64°	5328.8	5581.3	6775.4	9289.7	13455.6	16681.7	12793.0	8961.6	6642.5	5548.5	5371.4
65°	3985.5	4054.4	5461.6	7933.3	12860.2	16622.7	12251.7	7856.2	5501.0	4246.3	4049.5
67.5°	1505.6	1513.8	2015.7	3954.3	9155.2	14301.9	9350.3	4274.2	2317.5	1676.2	1615.5
70°	624.9	636.4	739.7	1330.1	3934.7	9183.1	4508.7	1541.7	847.9	687.2	677.4
72.5°	457.6	464.2	495.3	590.4	1210.4	3770.6	1482.7	654.4	497.0	444.5	439.6
75°	359.2	362.5	385.4	434.6	564.2	1044.8	616.7	449.4	378.9	341.1	337.9
77.5°	273.9	282.1	298.5	331.3	378.9	495.3	408.4	336.2	291.9	260.8	255.9
80°	188.6	198.5	229.6	242.7	254.2	321.5	278.8	254.2	228.0	190.3	178.8
82.5°	116.4	123.0	154.2	165.7	160.7	180.4	178.8	182.1	162.4	118.1	109.9
85°	60.7	64.0	83.6	86.9	80.4	73.8	91.8	106.6	100.0	67.2	65.6
87.5°	13.1	14.8	18.0	16.4	18.0	18.0	23.0	34.4	36.1	23.0	21.3
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)