

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: P459412

Luminaire Tested: **GALN-SA8D-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459412
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-SA8D-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61032 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

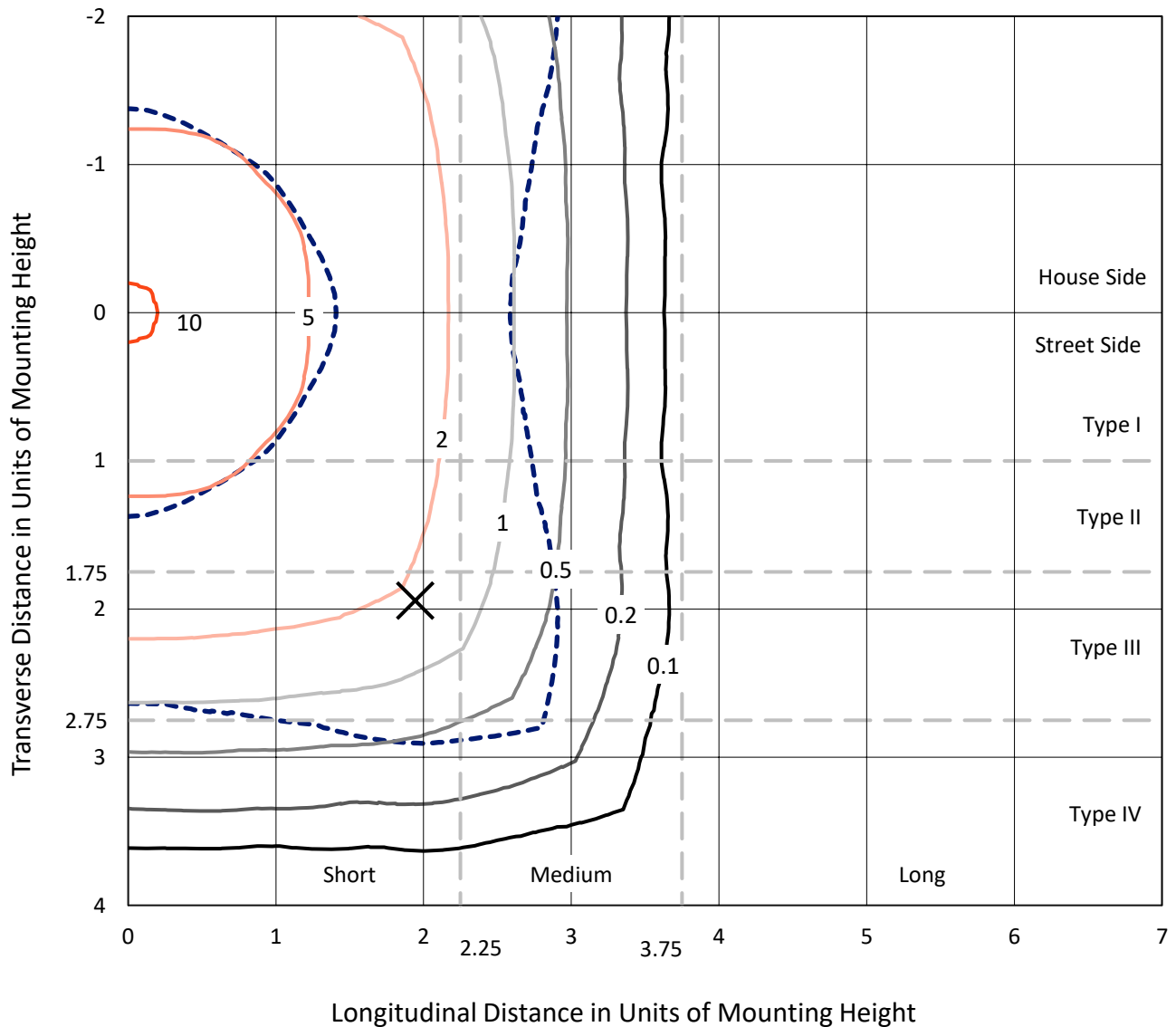
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

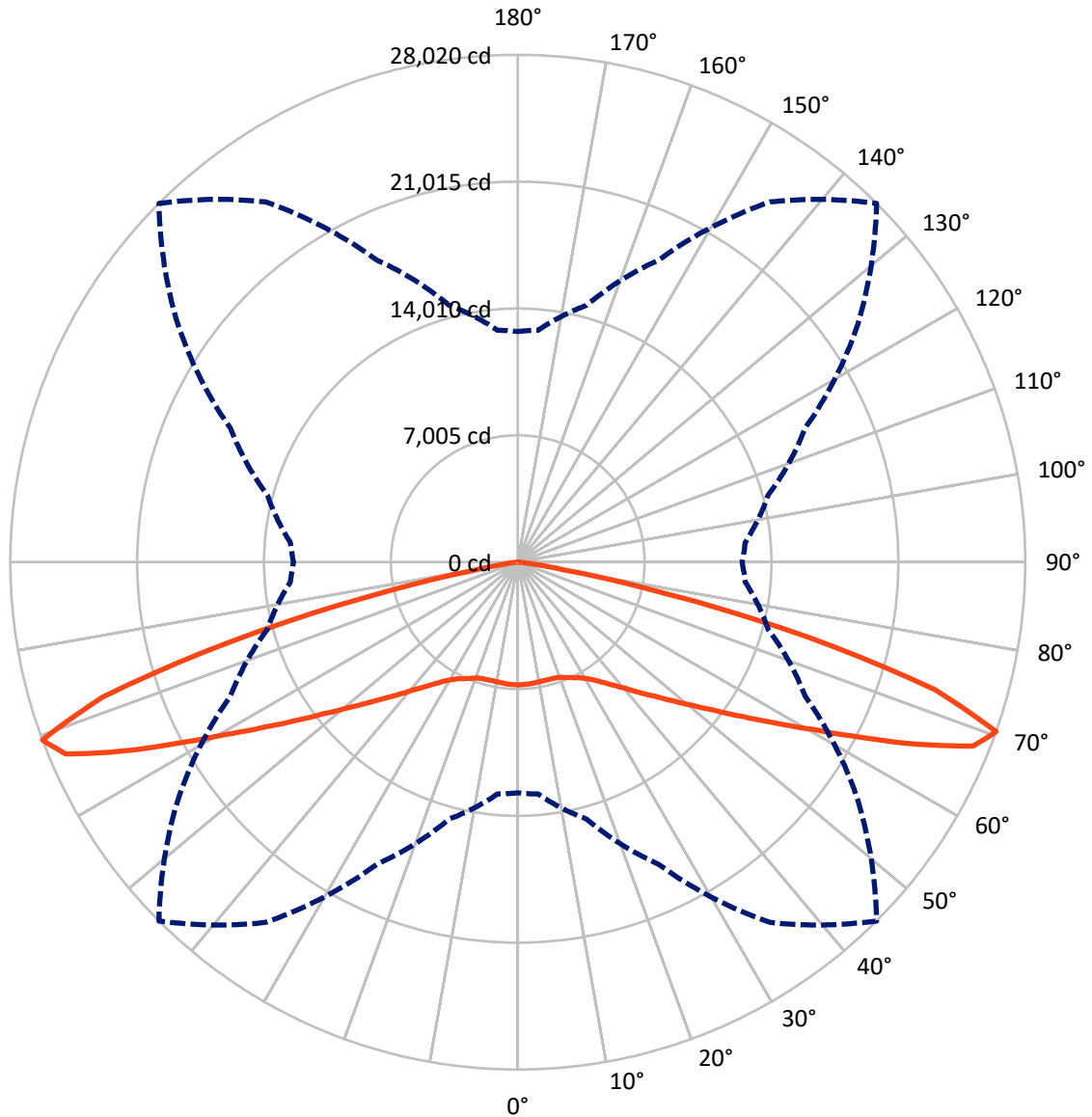
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	30516.0	0.0	30516.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30516.0	0.0	30516.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	61032.0	0.0	61032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.7	1.1
10°-20°	1885.9	3.1
20°-30°	3225.5	5.3
30°-40°	5119.5	8.4
40°-50°	8259.2	13.5
50°-60°	13437.8	22.0
60°-70°	19480.0	31.9
70°-80°	8640.6	14.2
80°-90°	340.8	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°	61032.0	100.0
0°-180°	61032.0	100.0

Coefficient of Utilization



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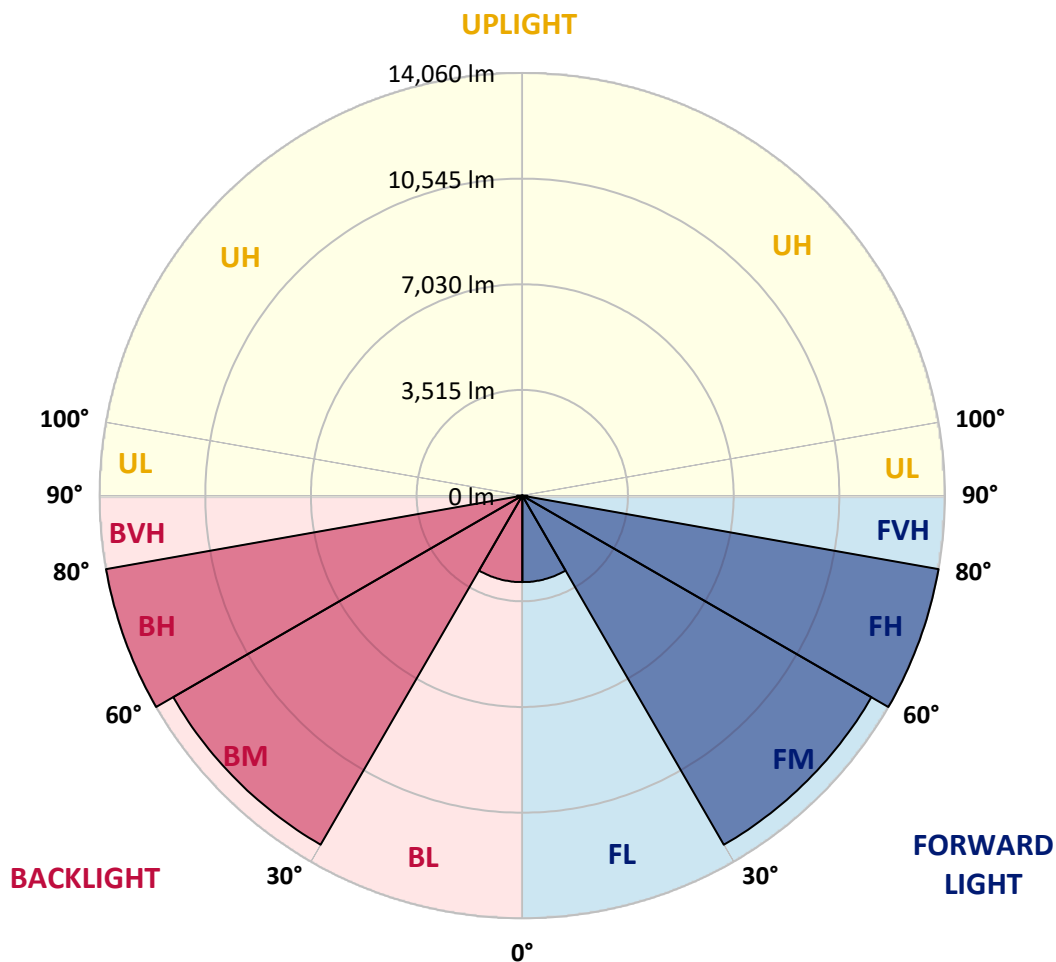
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2877.0	4.7			
FM	(30°-60°)	13408.3	22.0			
FH	(60°-80°)	14060.3	23.0			G5
FVH	(80°-90°)	170.4	0.3			G2/225
BL	(0°-30°)	2877.0	4.7	B4/5000		
BM	(30°-60°)	13408.3	22.0	B5		
BH	(60°-80°)	14060.3	23.0	B5		G5
BVH	(80°-90°)	170.4	0.3			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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6777.3	6777.3	6777.3	6777.3	6777.3	6777.3	6777.3	6777.3	6777.3	6777.3	6777.3
2.5°	6777.3	6783.7	6774.1	6767.7	6764.4	6764.4	6761.2	6764.4	6783.7	6787.0	6777.3
5°	6758.0	6764.4	6761.2	6754.8	6751.6	6751.6	6748.4	6745.2	6761.2	6767.7	6764.4
7.5°	6732.3	6735.5	6732.3	6729.1	6732.3	6729.1	6719.4	6713.0	6725.9	6725.9	6722.6
10°	6687.3	6693.7	6690.5	6693.7	6700.1	6700.1	6687.3	6674.4	6677.6	6671.2	6671.2
12.5°	6632.6	6642.2	6645.4	6658.3	6674.4	6693.7	6664.7	6635.8	6629.4	6626.1	6622.9
15°	6597.2	6606.8	6619.7	6632.6	6661.5	6703.3	6661.5	6616.5	6603.6	6590.8	6584.3
17.5°	6587.5	6600.4	6619.7	6639.0	6677.6	6719.4	6684.0	6639.0	6606.8	6587.5	6581.1
20°	6613.3	6622.9	6651.9	6687.3	6741.9	6783.7	6748.4	6700.1	6651.9	6622.9	6613.3
22.5°	6664.7	6680.8	6716.2	6780.5	6857.7	6918.8	6870.6	6790.2	6713.0	6674.4	6661.5
25°	6777.3	6790.2	6832.0	6918.8	7008.9	7066.8	7015.3	6922.1	6815.9	6764.4	6748.4
27.5°	6947.8	6967.1	7012.1	7115.1	7189.0	7221.2	7185.8	7121.5	7044.3	6989.6	6976.7
30°	7189.0	7211.6	7279.1	7388.5	7436.7	7456.0	7439.9	7398.1	7343.4	7285.5	7272.7
32.5°	7513.9	7526.8	7604.0	7706.9	7751.9	7758.4	7739.1	7719.8	7629.7	7533.2	7526.8
35°	7877.4	7899.9	7993.2	8115.4	8157.2	8160.4	8121.8	8092.9	7986.7	7909.5	7909.5
37.5°	8359.9	8369.5	8459.6	8597.9	8642.9	8630.1	8610.8	8585.0	8472.4	8372.7	8376.0
40°	8926.0	8945.3	9022.5	9183.3	9183.3	9167.2	9180.1	9160.8	9048.2	8951.7	8954.9
42.5°	9598.2	9607.9	9701.2	9871.7	9858.8	9826.6	9839.5	9813.8	9743.0	9633.6	9595.0
45°	10315.5	10354.1	10515.0	10679.0	10653.3	10550.4	10601.8	10595.4	10531.1	10367.0	10376.7
47.5°	11180.8	11245.1	11399.5	11595.7	11566.8	11406.0	11463.9	11502.5	11412.4	11232.3	11200.1
50°	12155.4	12197.2	12425.6	12609.0	12583.2	12412.7	12544.6	12551.1	12325.9	12071.8	12071.8
52.5°	13194.4	13236.2	13545.0	13831.3	13847.3	13599.7	13705.8	13699.4	13332.7	12998.2	12933.8
55°	14358.8	14378.1	14776.9	15198.3	15288.4	15047.1	15060.0	14931.3	14455.3	14066.1	14030.7
57.5°	15561.8	15632.5	16073.2	16620.0	16887.0	16739.0	16671.5	16327.3	15867.3	15420.2	15397.7
60°	16893.4	16896.6	17469.2	18115.7	18656.1	18755.8	18479.2	18019.2	17424.2	16832.3	16806.6
62.5°	17816.6	17954.9	18678.6	19772.3	20740.5	21300.1	20570.0	19605.0	18434.2	17478.8	17382.4
65°	18006.4	18099.6	19202.9	21055.7	23033.9	24240.1	22551.4	20499.2	18501.7	17228.0	17163.6
67.5°	16472.1	16571.8	18057.8	20901.3	24642.2	27115.7	23838.0	20068.2	17356.6	15780.5	15655.1
70°	12740.8	12853.4	14690.1	18398.8	24285.1	28019.6	22921.3	17504.6	14313.7	12612.2	12383.8
72.5°	6774.1	7189.0	8758.7	12628.3	19711.1	24124.3	18794.4	12773.0	9231.6	7546.1	7243.7
75°	2473.5	2525.0	3399.9	5600.1	11467.1	16542.8	11907.7	6092.2	3502.8	2705.1	2566.8
77.5°	1022.9	1019.7	1119.4	1691.9	4165.5	8472.4	4647.9	1788.4	1116.2	1032.5	1019.7
80°	604.7	604.7	665.8	704.4	1096.9	2557.2	1225.5	797.7	669.0	611.1	620.8
82.5°	270.2	286.3	421.4	443.9	530.7	701.2	591.8	508.2	437.5	302.4	273.4
85°	148.0	128.7	221.9	231.6	254.1	260.5	279.8	276.6	254.1	148.0	151.2
87.5°	28.9	35.4	64.3	48.2	54.7	48.2	64.3	90.1	93.3	51.5	41.8
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)