

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: P459065

Luminaire Tested: **GALN-SA5D-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459065
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-SA5D-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 37663 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

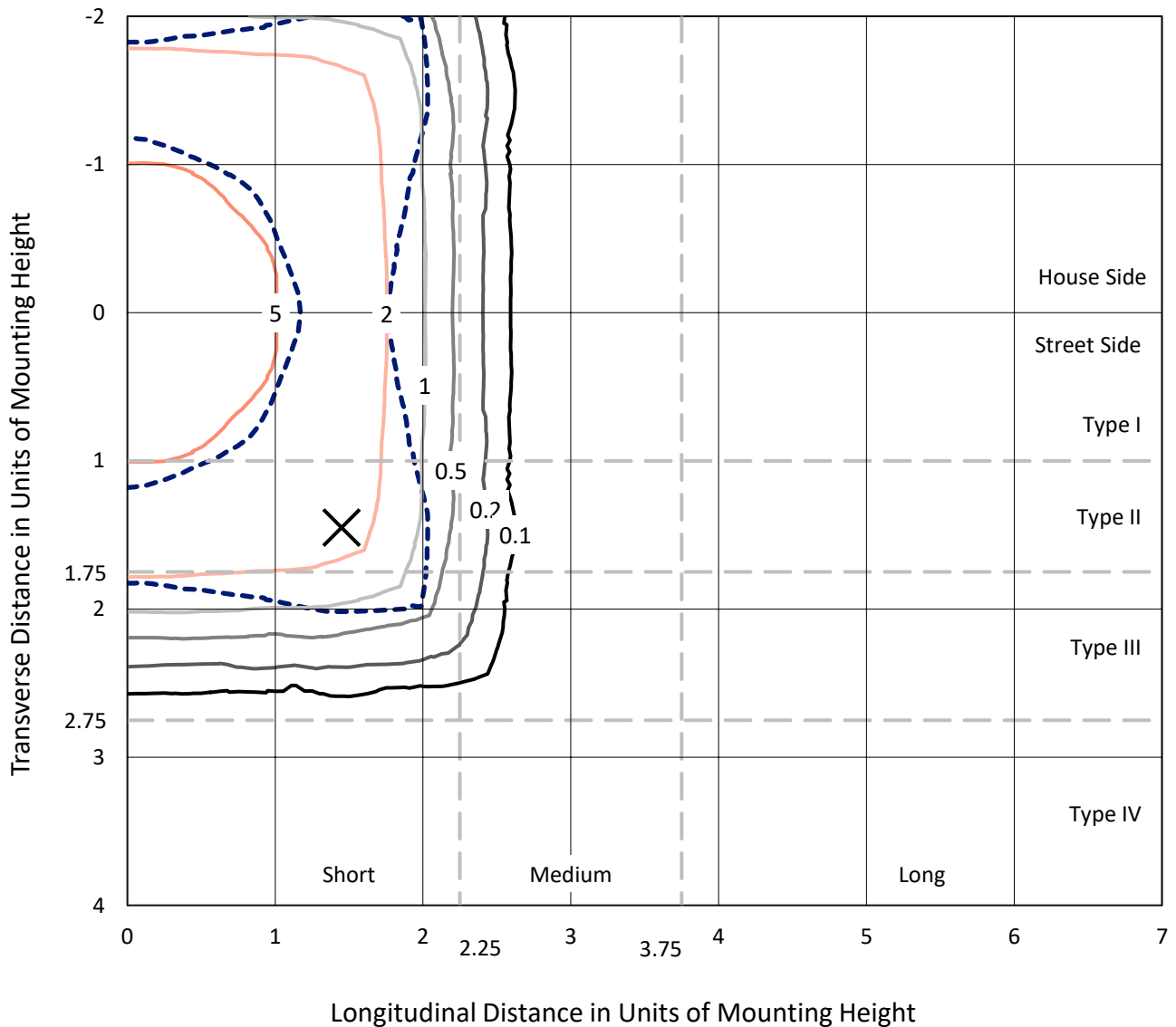
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

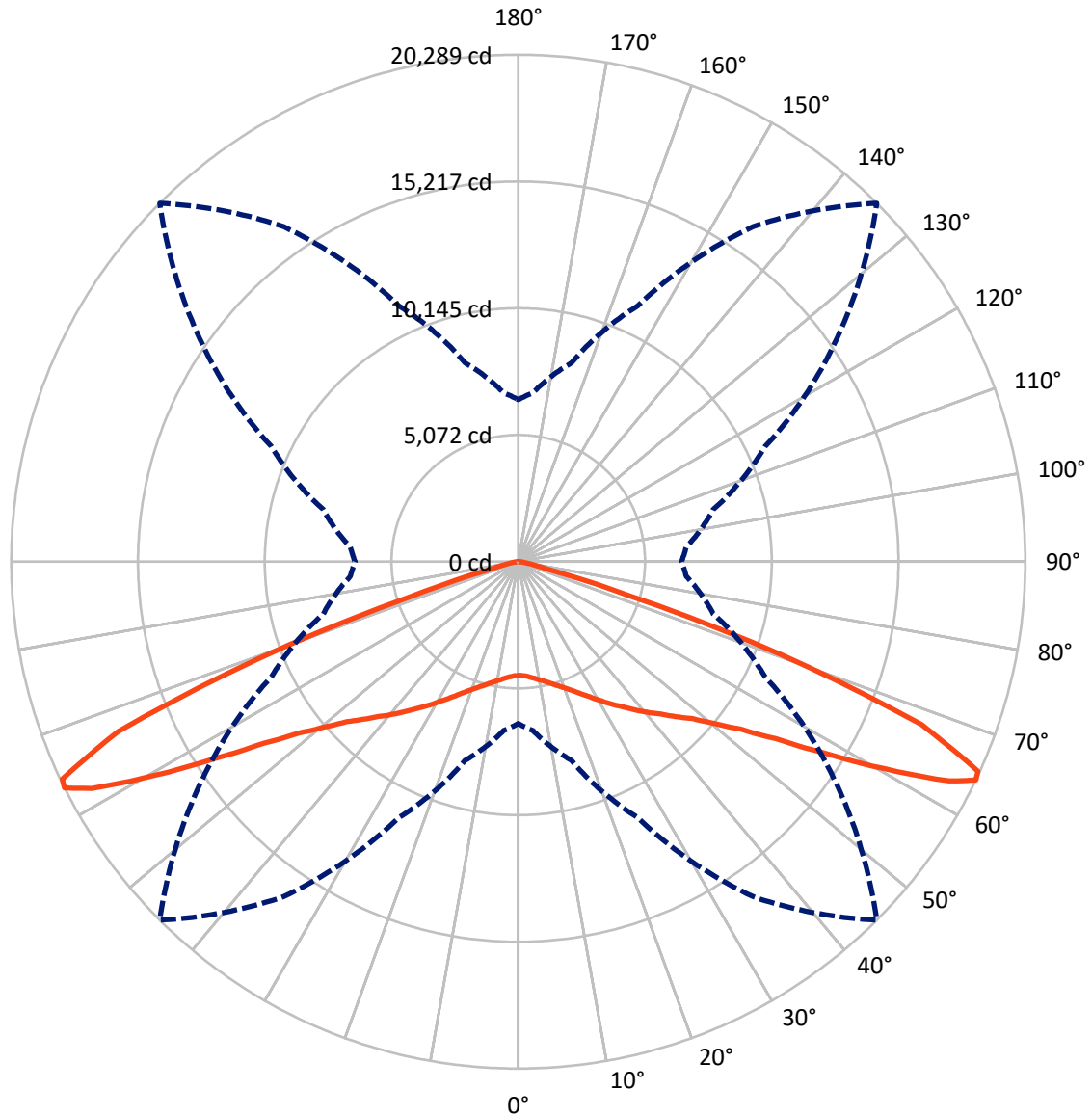
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	18831.5	0.0	18831.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18831.5	0.0	18831.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	37663.0	0.0	37663.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.2	1.2
10°-20°	1442.6	3.8
20°-30°	2726.1	7.2
30°-40°	4514.7	12.0
40°-50°	7048.1	18.7
50°-60°	10896.3	28.9
60°-70°	9395.7	24.9
70°-80°	1064.8	2.8
80°-90°	127.6	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°	37663.0	100.0
0°-180°	37663.0	100.0



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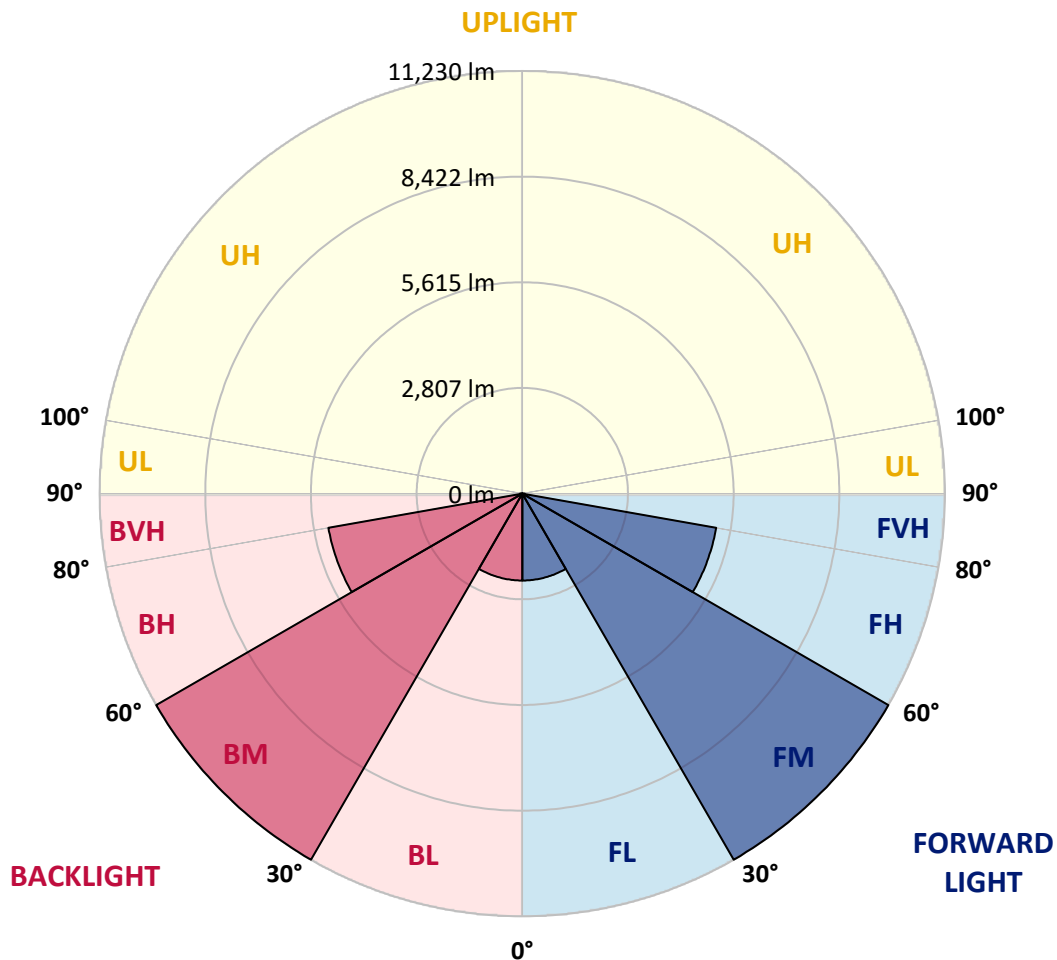
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2307.9	6.1			
FM (30°-60°)	11229.5	29.8			
FH (60°-80°)	5230.2	13.9			G3/7500
FVH (80°-90°)	63.8	0.2			G1/100
BL (0°-30°)	2307.9	6.1	B3/2500		
BM (30°-60°)	11229.5	29.8	B5		
BH (60°-80°)	5230.2	13.9	B5		G3/7500
BVH (80°-90°)	63.8	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4552.2	4552.2	4552.2	4552.2	4552.2	4552.2	4552.2	4552.2	4552.2	4552.2	4552.2
2.5°	4570.2	4580.1	4572.2	4570.2	4568.2	4568.2	4568.2	4570.2	4578.1	4584.1	4580.1
5°	4628.0	4636.0	4632.0	4630.0	4628.0	4630.0	4626.0	4624.0	4630.0	4630.0	4628.0
7.5°	4699.8	4709.8	4705.8	4709.8	4711.8	4713.8	4703.8	4695.8	4693.8	4699.8	4695.8
10°	4797.6	4805.6	4807.5	4809.5	4813.5	4811.5	4799.6	4785.6	4783.6	4781.6	4779.6
12.5°	4907.3	4913.3	4915.3	4923.2	4929.2	4931.2	4917.3	4905.3	4885.3	4889.3	4881.4
15°	5031.0	5042.9	5040.9	5052.9	5068.9	5072.9	5058.9	5038.9	5021.0	5011.0	5005.0
17.5°	5182.6	5190.6	5186.6	5198.5	5218.5	5228.5	5216.5	5190.6	5172.6	5150.7	5138.7
20°	5362.1	5376.1	5380.1	5380.1	5398.0	5408.0	5390.0	5382.1	5354.1	5338.2	5328.2
22.5°	5565.6	5571.6	5583.5	5595.5	5613.5	5609.5	5603.5	5591.5	5565.6	5551.6	5535.7
25°	5795.0	5801.0	5830.9	5856.8	5862.8	5858.8	5850.8	5844.9	5820.9	5789.0	5777.0
27.5°	6062.3	6074.3	6114.2	6138.1	6138.1	6140.1	6124.1	6144.1	6092.2	6054.3	6050.3
30°	6397.4	6405.4	6439.3	6463.3	6451.3	6441.3	6437.3	6457.3	6401.4	6333.6	6317.6
32.5°	6728.6	6756.5	6786.4	6838.3	6796.4	6778.4	6774.4	6788.4	6724.6	6648.8	6626.8
35°	7083.6	7103.6	7159.5	7203.3	7165.4	7123.5	7141.5	7185.4	7109.6	7007.8	7003.9
37.5°	7476.6	7494.6	7566.4	7612.3	7584.4	7512.5	7542.5	7594.3	7518.5	7392.8	7366.9
40°	7885.6	7923.5	8013.2	8061.1	8015.2	7919.5	7975.3	8031.2	7963.4	7817.7	7759.9
42.5°	8344.4	8404.2	8533.9	8557.8	8470.1	8340.4	8438.1	8527.9	8480.0	8312.5	8290.5
45°	8881.0	8916.9	9076.5	9128.4	9006.7	8845.1	8966.8	9130.3	9094.4	8900.9	8859.0
47.5°	9481.4	9515.3	9680.9	9758.7	9605.1	9387.7	9607.1	9820.6	9798.6	9591.2	9571.2
50°	10191.6	10199.6	10429.0	10516.8	10363.2	10175.6	10371.1	10636.4	10548.7	10283.4	10279.4
52.5°	10969.6	10979.6	11268.8	11438.4	11352.6	11141.1	11372.5	11534.1	11310.7	10963.6	10937.7
55°	11643.8	11693.7	12088.7	12539.5	12657.2	12503.6	12573.4	12497.6	11947.0	11460.3	11384.5
57.5°	11919.1	12016.9	12617.3	13459.1	14225.1	14452.6	13914.0	13191.8	12200.4	11512.2	11438.4
60°	11246.9	11352.6	12284.2	13882.0	15837.0	16824.4	15310.3	13309.5	11623.9	10656.4	10540.7
62.5°	9006.7	9036.6	10407.0	12886.6	16776.5	19333.9	15898.8	12306.1	9946.2	8631.6	8585.8
64°	6481.2	6788.4	8240.7	11298.7	16365.6	20289.4	15559.7	10899.8	8079.1	6748.5	6533.1
65°	4847.4	4931.2	6642.8	9649.0	15641.5	20217.6	14901.4	9555.2	6690.7	5164.6	4925.2
67.5°	1831.3	1841.2	2451.6	4809.5	11135.2	17394.9	11372.5	5198.5	2818.7	2038.7	1964.9
70°	760.0	774.0	899.7	1617.8	4785.6	11169.1	5483.8	1875.1	1031.3	835.8	823.9
72.5°	556.6	564.5	602.4	718.1	1472.2	4586.1	1803.3	795.9	604.4	540.6	534.6
75°	436.9	440.9	468.8	528.6	686.2	1270.7	750.1	546.6	460.8	414.9	410.9
77.5°	333.1	343.1	363.1	403.0	460.8	602.4	496.7	408.9	355.1	317.2	311.2
80°	229.4	241.4	279.3	295.2	309.2	391.0	339.1	309.2	277.3	231.4	217.4
82.5°	141.6	149.6	187.5	201.5	195.5	219.4	217.4	221.4	197.5	143.6	133.7
85°	73.8	77.8	101.7	105.7	97.7	89.8	111.7	129.7	121.7	81.8	79.8
87.5°	16.0	18.0	21.9	19.9	21.9	21.9	27.9	41.9	43.9	27.9	25.9
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)