

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: P458370

Luminaire Tested: **GALN-SA9D-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73399 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

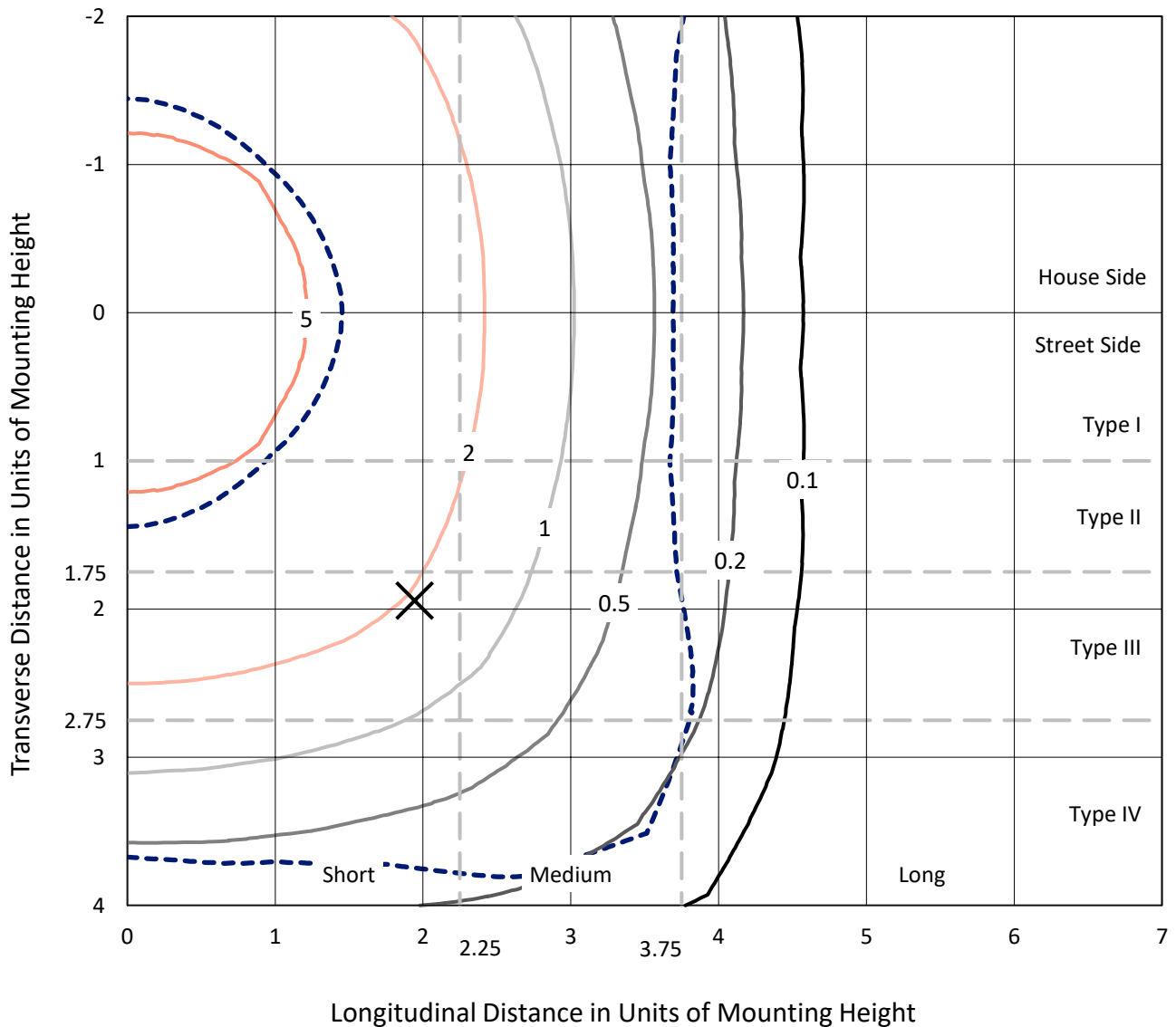
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

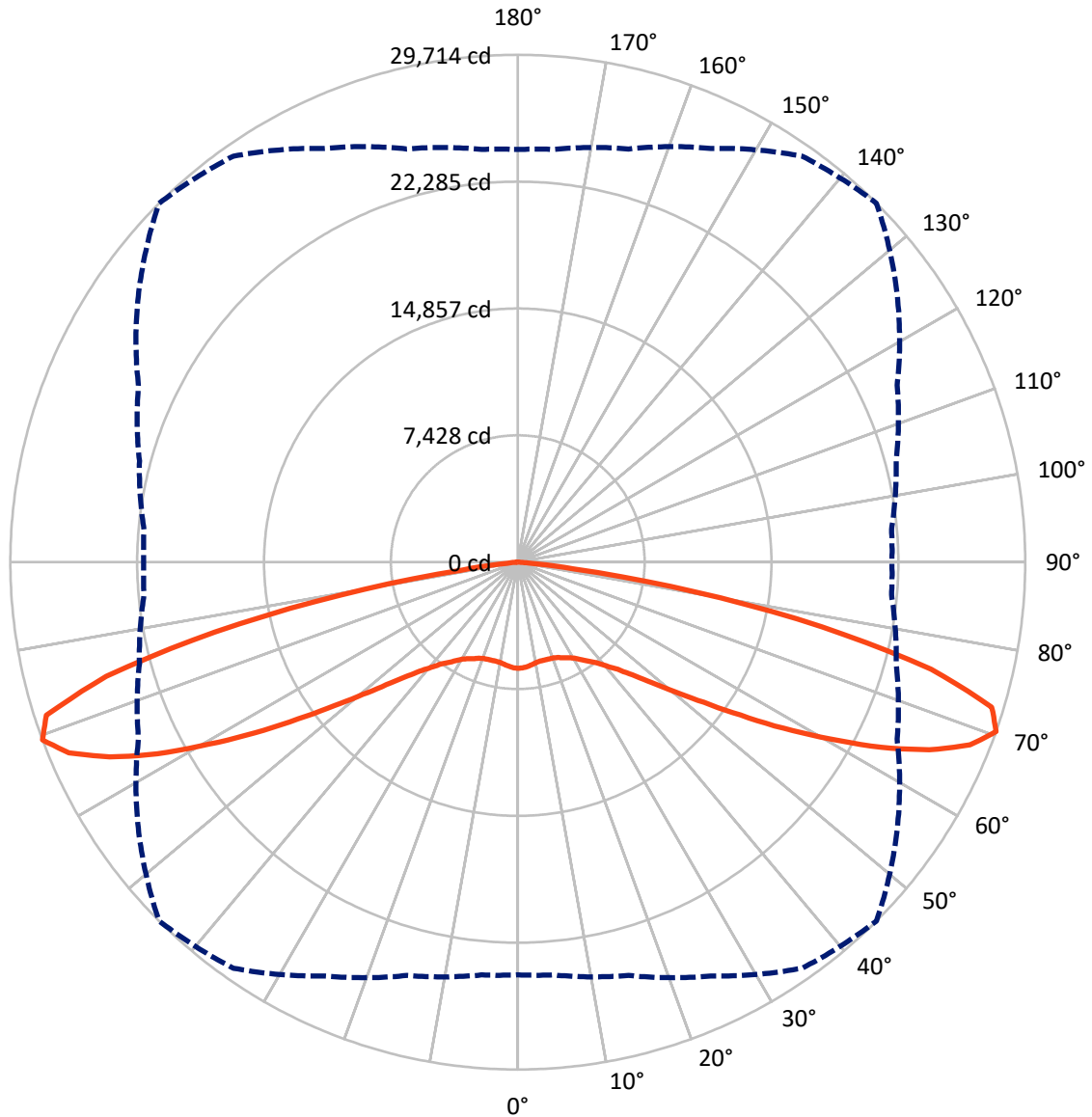
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	36699.5	0.0	36699.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	36699.5	0.0	36699.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	73399.0	0.0	73399.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.1	0.8
10°-20°	1701.3	2.3
20°-30°	2898.6	3.9
30°-40°	4492.9	6.1
40°-50°	7562.1	10.3
50°-60°	13758.9	18.7
60°-70°	23293.5	31.7
70°-80°	18030.1	24.6
80°-90°	1080.4	1.5
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°	73399.0	100.0
0°-180°	73399.0	100.0



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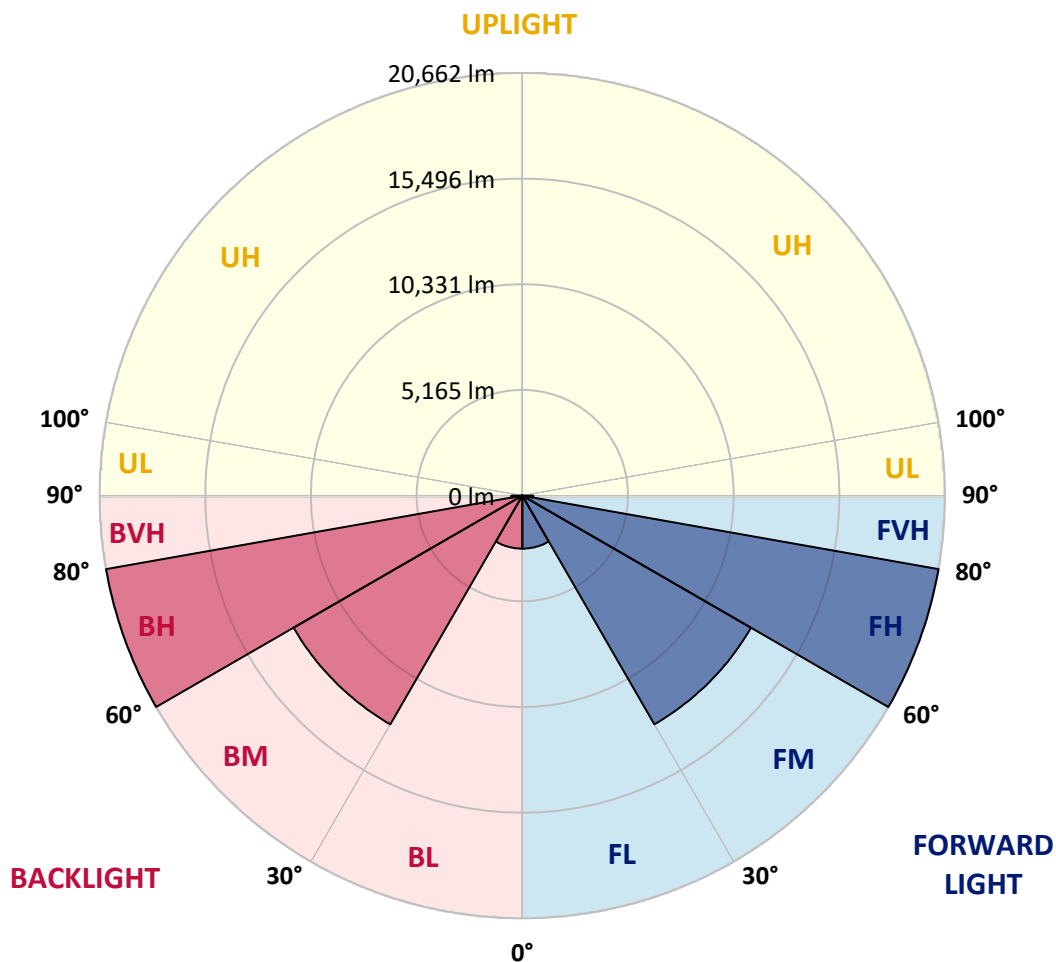
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2590.5	3.5			
FM (30°-60°)	12907.0	17.6			
FH (60°-80°)	20661.8	28.1			G5
FVH (80°-90°)	540.2	0.7			G4/750
BL (0°-30°)	2590.5	3.5	B4/5000		
BM (30°-60°)	12907.0	17.6	B5		
BH (60°-80°)	20661.8	28.1	B5		G5
BVH (80°-90°)	540.2	0.7			G4/750
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°	6214.1	6214.1	6214.1	6214.1	6214.1	6214.1	6214.1	6214.1	6214.1	6214.1	6214.1
2.5°	6198.6	6202.5	6202.5	6194.7	6190.9	6190.9	6187.0	6187.0	6198.6	6202.5	6206.4
5°	6144.3	6144.3	6144.3	6140.5	6132.7	6132.7	6125.0	6125.0	6128.8	6140.5	6132.7
7.5°	6070.7	6078.4	6078.4	6062.9	6051.3	6051.3	6047.4	6051.3	6055.2	6066.8	6062.9
10°	6047.4	6051.3	6031.9	6004.8	5985.4	5973.8	5977.7	5985.4	6004.8	6012.5	6016.4
12.5°	6062.9	6062.9	6028.0	5989.3	5954.4	5938.9	5935.0	5962.1	5997.0	6020.3	6028.0
15°	6082.3	6074.6	6031.9	5981.5	5946.6	5942.8	5938.9	5958.3	6008.7	6055.2	6059.1
17.5°	6094.0	6090.1	6035.8	5973.8	5954.4	5954.4	5950.5	5966.0	6020.3	6078.4	6082.3
20°	6132.7	6121.1	6059.1	5993.2	5977.7	5985.4	5973.8	5993.2	6051.3	6121.1	6136.6
22.5°	6210.2	6198.6	6136.6	6070.7	6062.9	6062.9	6059.1	6078.4	6140.5	6214.1	6225.8
25°	6303.3	6291.7	6233.5	6187.0	6194.7	6210.2	6202.5	6206.4	6256.8	6318.8	6338.2
27.5°	6427.3	6408.0	6357.6	6318.8	6342.1	6342.1	6342.1	6338.2	6369.2	6427.3	6446.7
30°	6578.5	6570.8	6516.5	6512.6	6532.0	6512.6	6512.6	6516.5	6520.4	6574.6	6594.0
32.5°	6776.2	6760.7	6733.6	6725.8	6780.1	6795.6	6741.3	6690.9	6718.1	6772.3	6784.0
35°	7101.9	7078.6	7039.8	6997.2	7039.8	7113.5	6997.2	6958.4	7028.2	7101.9	7109.6
37.5°	7543.8	7532.2	7470.1	7392.6	7388.7	7466.3	7346.1	7342.2	7474.0	7563.2	7574.8
40°	8098.1	8109.8	8032.2	7958.6	7919.8	7981.8	7888.8	7923.7	8051.6	8152.4	8144.7
42.5°	8877.3	8834.7	8714.5	8644.7	8602.1	8578.8	8555.6	8609.8	8753.3	8861.8	8947.1
45°	9788.3	9772.8	9621.6	9536.3	9443.3	9408.4	9400.7	9497.6	9672.0	9803.8	9815.4
47.5°	10819.5	10784.6	10687.7	10598.5	10563.6	10521.0	10482.2	10555.9	10730.3	10823.4	10850.5
50°	11881.7	11889.4	11889.4	11873.9	11908.8	11916.5	11811.9	11839.0	11935.9	11928.2	11920.4
52.5°	13095.0	13137.7	13339.2	13358.6	13525.3	13637.7	13447.8	13335.4	13300.5	13091.1	13106.6
55°	14521.6	14560.4	14862.7	15165.1	15614.8	15804.7	15405.4	15056.6	14808.5	14490.6	14506.1
57.5°	16300.9	16320.3	16607.2	17188.7	17901.9	18347.8	17646.1	16956.1	16452.1	16149.7	16029.6
60°	18216.0	18235.3	18654.0	19363.4	20472.1	21014.8	20146.5	19018.4	18382.6	17921.3	17952.3
62.5°	20514.8	20592.3	20968.3	21945.2	23290.4	23899.0	22747.6	21239.7	20379.1	19805.3	19828.6
65°	22976.4	23108.2	23519.1	24592.9	25833.4	26488.5	25077.5	23336.9	22267.0	21565.3	21639.0
67.5°	24573.5	24689.8	25282.9	26469.1	28015.9	28558.6	26736.6	24709.2	23371.8	22534.4	22379.4
70°	24166.5	24263.4	25054.2	26736.6	29027.7	29713.8	27132.0	24507.6	22933.7	21968.5	21906.4
72.5°	21332.7	21131.1	22286.3	24701.4	27872.5	29023.8	25887.7	22383.3	20402.3	19409.9	19293.6
75°	14137.8	14575.9	16281.5	19126.9	23581.1	25007.7	22096.4	17971.7	15479.1	14653.4	14525.5
77.5°	4725.5	5062.8	6578.5	10842.7	16076.1	18219.8	16099.3	11753.7	8315.2	6698.7	6729.7
80°	1252.1	1236.6	1601.0	2981.1	6946.8	10552.0	8086.5	3981.2	2178.6	1577.8	1496.4
82.5°	449.7	504.0	647.4	825.7	1841.4	3279.6	2314.3	1116.4	818.0	604.7	585.4
85°	197.7	193.8	279.1	329.5	461.3	612.5	542.7	472.9	414.8	275.2	255.9
87.5°	42.6	42.6	65.9	50.4	81.4	81.4	100.8	120.2	124.0	81.4	65.9
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)