

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: P458369

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458369
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-SA9D-740-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 73190 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

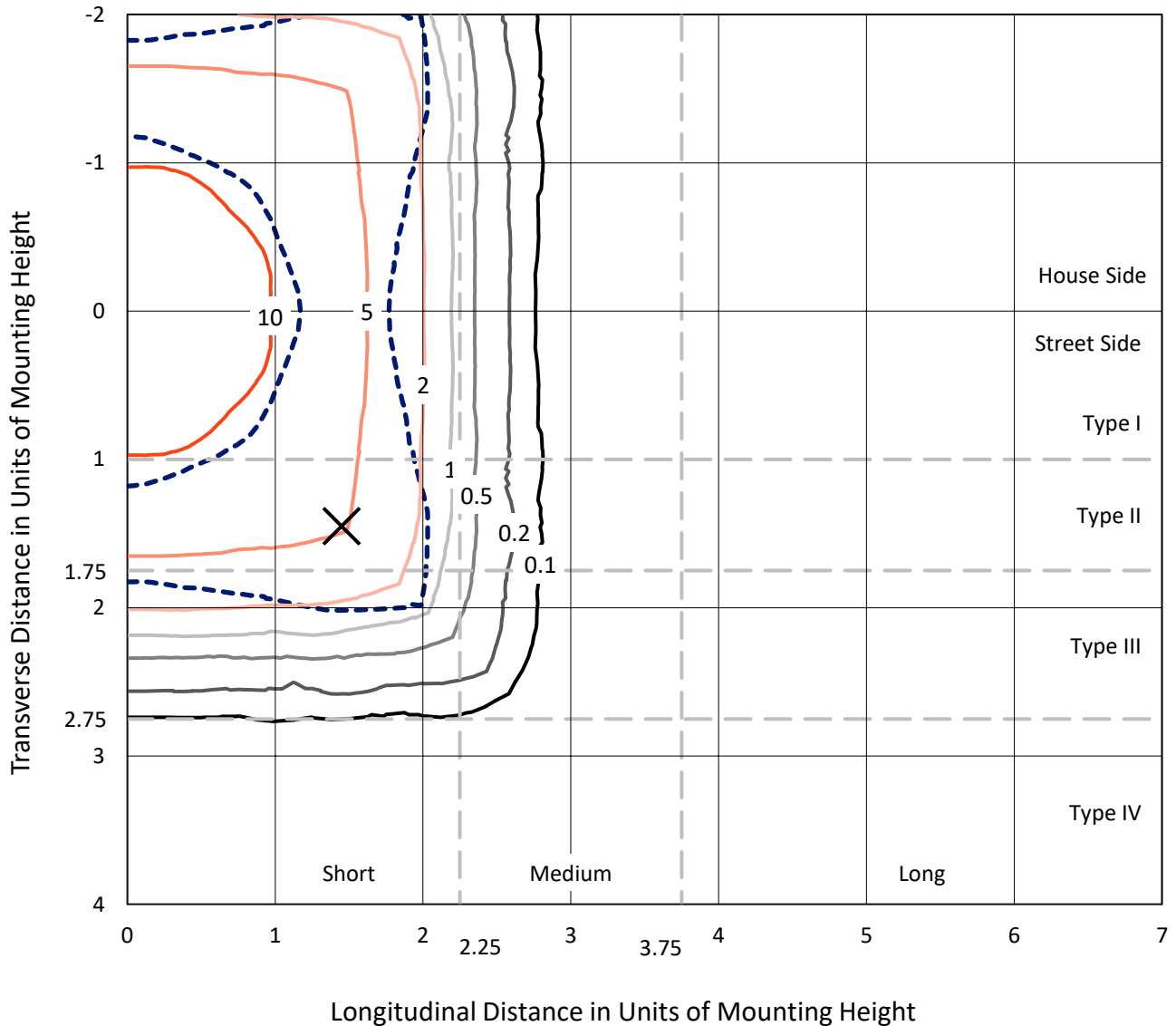
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

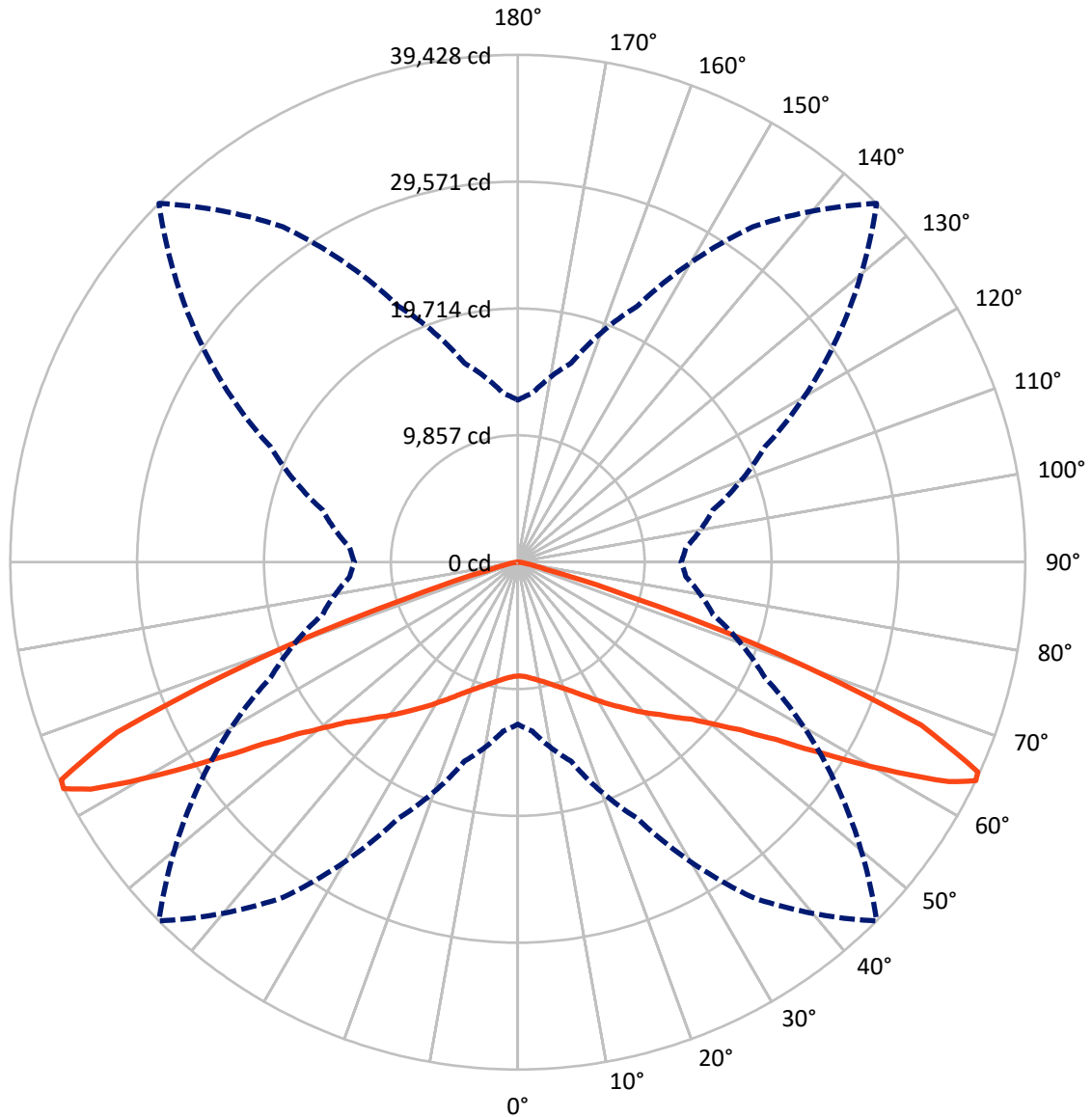
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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	36595.0	0.0	36595.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	36595.0	0.0	36595.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	73190.0	0.0	73190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	869.1	1.2
10°-20°	2803.3	3.8
20°-30°	5297.5	7.2
30°-40°	8773.3	12.0
40°-50°	13696.6	18.7
50°-60°	21174.6	28.9
60°-70°	18258.6	24.9
70°-80°	2069.2	2.8
80°-90°	247.9	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°	73190.0	100.0
0°-180°	73190.0	100.0

Coefficient of Utilization



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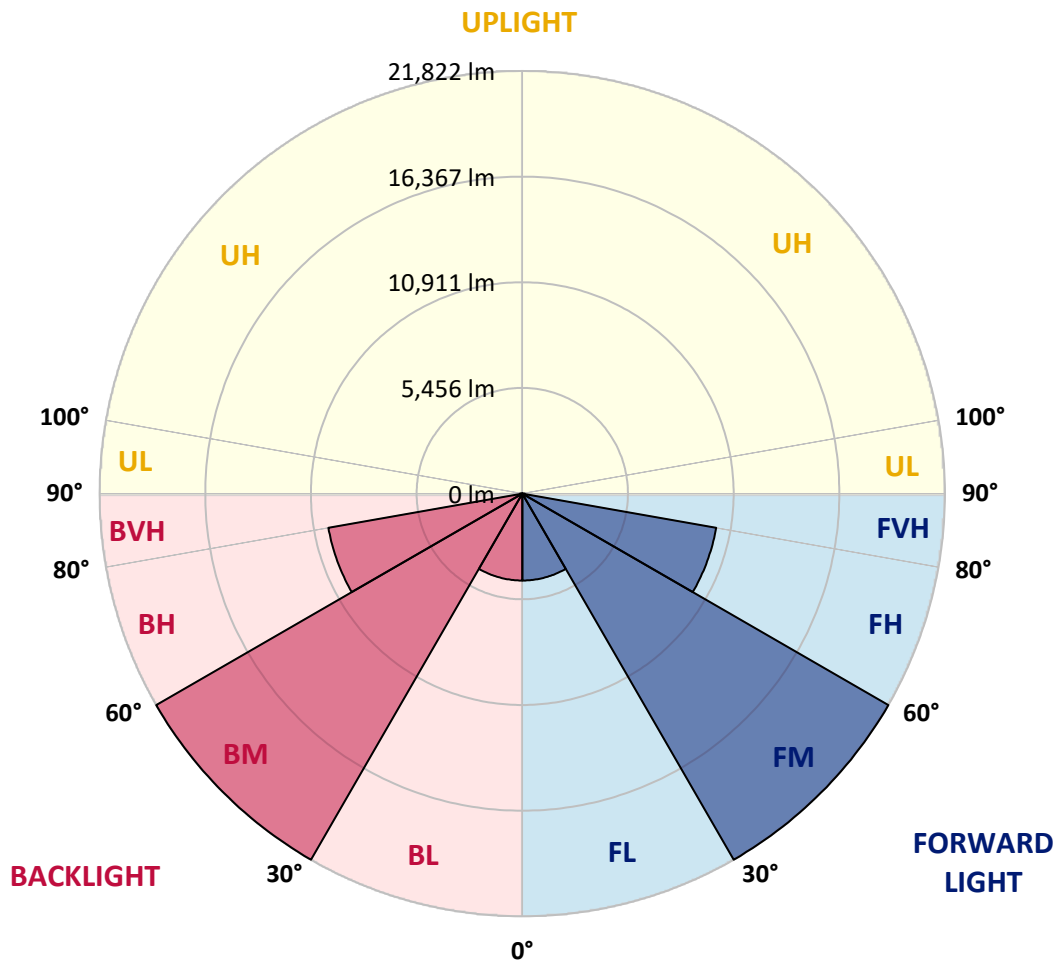
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4485.0	6.1			
FM	(30°-60°)	21822.2	29.8			
FH	(60°-80°)	10163.9	13.9			G4/12000
FVH	(80°-90°)	123.9	0.2			G2/225
BL	(0°-30°)	4485.0	6.1	B4/5000		
BM	(30°-60°)	21822.2	29.8	B5		
BH	(60°-80°)	10163.9	13.9	B5		G4/12000
BVH	(80°-90°)	123.9	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8846.2	8846.2	8846.2	8846.2	8846.2	8846.2	8846.2	8846.2	8846.2	8846.2	8846.2
2.5°	8881.1	8900.5	8885.0	8881.1	8877.3	8877.3	8877.3	8881.1	8896.6	8908.3	8900.5
5°	8993.6	9009.1	9001.3	8997.4	8993.6	8997.4	8989.7	8985.8	8997.4	8997.4	8993.6
7.5°	9133.1	9152.5	9144.7	9152.5	9156.4	9160.2	9140.9	9125.4	9121.5	9133.1	9125.4
10°	9323.1	9338.6	9342.4	9346.3	9354.1	9350.2	9326.9	9299.8	9295.9	9292.0	9288.2
12.5°	9536.3	9547.9	9551.8	9567.3	9578.9	9582.8	9555.6	9532.4	9493.6	9501.4	9485.9
15°	9776.6	9799.9	9796.0	9819.3	9850.3	9858.0	9830.9	9792.1	9757.2	9737.8	9726.2
17.5°	10071.2	10086.7	10079.0	10102.2	10141.0	10160.4	10137.1	10086.7	10051.8	10009.2	9985.9
20°	10420.1	10447.2	10455.0	10455.0	10489.9	10509.3	10474.4	10458.9	10404.6	10373.6	10354.2
22.5°	10815.5	10827.1	10850.4	10873.7	10908.6	10900.8	10889.2	10865.9	10815.5	10788.4	10757.4
25°	11261.3	11273.0	11331.1	11381.5	11393.1	11385.4	11369.9	11358.2	11311.7	11249.7	11226.4
27.5°	11780.8	11804.0	11881.6	11928.1	11928.1	11932.0	11900.9	11939.7	11838.9	11765.3	11757.5
30°	12432.0	12447.5	12513.4	12560.0	12536.7	12517.3	12509.6	12548.3	12439.8	12308.0	12277.0
32.5°	13075.5	13129.8	13188.0	13288.7	13207.3	13172.5	13164.7	13191.8	13067.8	12920.5	12877.8
35°	13765.6	13804.3	13912.9	13998.2	13924.5	13843.1	13878.0	13963.3	13816.0	13618.3	13610.5
37.5°	14529.2	14564.1	14703.7	14792.8	14738.6	14599.0	14657.2	14758.0	14610.6	14366.4	14316.0
40°	15323.9	15397.6	15572.0	15665.1	15575.9	15389.8	15498.4	15606.9	15475.1	15192.1	15079.7
42.5°	16215.5	16331.8	16583.8	16630.3	16459.7	16207.8	16397.7	16572.2	16479.1	16153.5	16110.9
45°	17258.3	17328.1	17638.2	17739.0	17502.5	17188.5	17425.0	17742.9	17673.1	17297.1	17215.7
47.5°	18425.1	18491.0	18812.8	18964.0	18665.5	18243.0	18669.4	19084.2	19041.5	18638.4	18599.6
50°	19805.2	19820.7	20266.5	20437.1	20138.6	19774.2	20154.1	20669.7	20499.1	19983.5	19975.8
52.5°	21317.0	21336.4	21898.5	22228.0	22061.3	21650.4	22100.1	22414.1	21979.9	21305.4	21255.0
55°	22627.3	22724.2	23491.8	24367.9	24596.6	24298.1	24433.8	24286.5	23216.5	22270.7	22123.4
57.5°	23162.3	23352.2	24519.1	26155.0	27643.5	28085.5	27038.8	25635.5	23708.9	22371.5	22228.0
60°	21855.9	22061.3	23871.7	26976.8	30775.8	32694.7	29752.4	25864.2	22588.5	20708.4	20483.6
62.5°	17502.5	17560.7	20223.9	25042.4	32601.6	37571.3	30895.9	23914.3	19328.4	16773.7	16684.6
64°	12594.8	13191.8	16013.9	21956.7	31803.1	39428.2	30236.9	21181.4	15699.9	13114.3	12695.6
65°	9420.0	9582.8	12908.8	18750.8	30395.9	39288.6	28957.7	18568.6	13001.9	10036.3	9571.2
67.5°	3558.7	3578.0	4764.3	9346.3	21638.8	33803.3	22100.1	10102.2	5477.5	3961.8	3818.4
70°	1477.0	1504.1	1748.3	3143.9	9299.8	21704.7	10656.6	3643.9	2004.2	1624.3	1601.0
72.5°	1081.6	1097.1	1170.7	1395.6	2860.9	8912.1	3504.4	1546.7	1174.6	1050.5	1038.9
75°	849.0	856.7	911.0	1027.3	1333.5	2469.3	1457.6	1062.2	895.5	806.3	798.6
77.5°	647.4	666.8	705.5	783.1	895.5	1170.7	965.3	794.7	690.0	616.4	604.7
80°	445.8	469.1	542.7	573.7	600.9	759.8	659.0	600.9	538.8	449.7	422.5
82.5°	275.2	290.7	364.4	391.5	379.9	426.4	422.5	430.3	383.8	279.1	259.7
85°	143.4	151.2	197.7	205.5	189.9	174.4	217.1	252.0	236.5	158.9	155.1
87.5°	31.0	34.9	42.6	38.8	42.6	42.6	54.3	81.4	85.3	54.3	50.4
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)