

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: P454658

Luminaire Tested: **GALN-SA5D-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454658
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-SA5D-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 40546 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

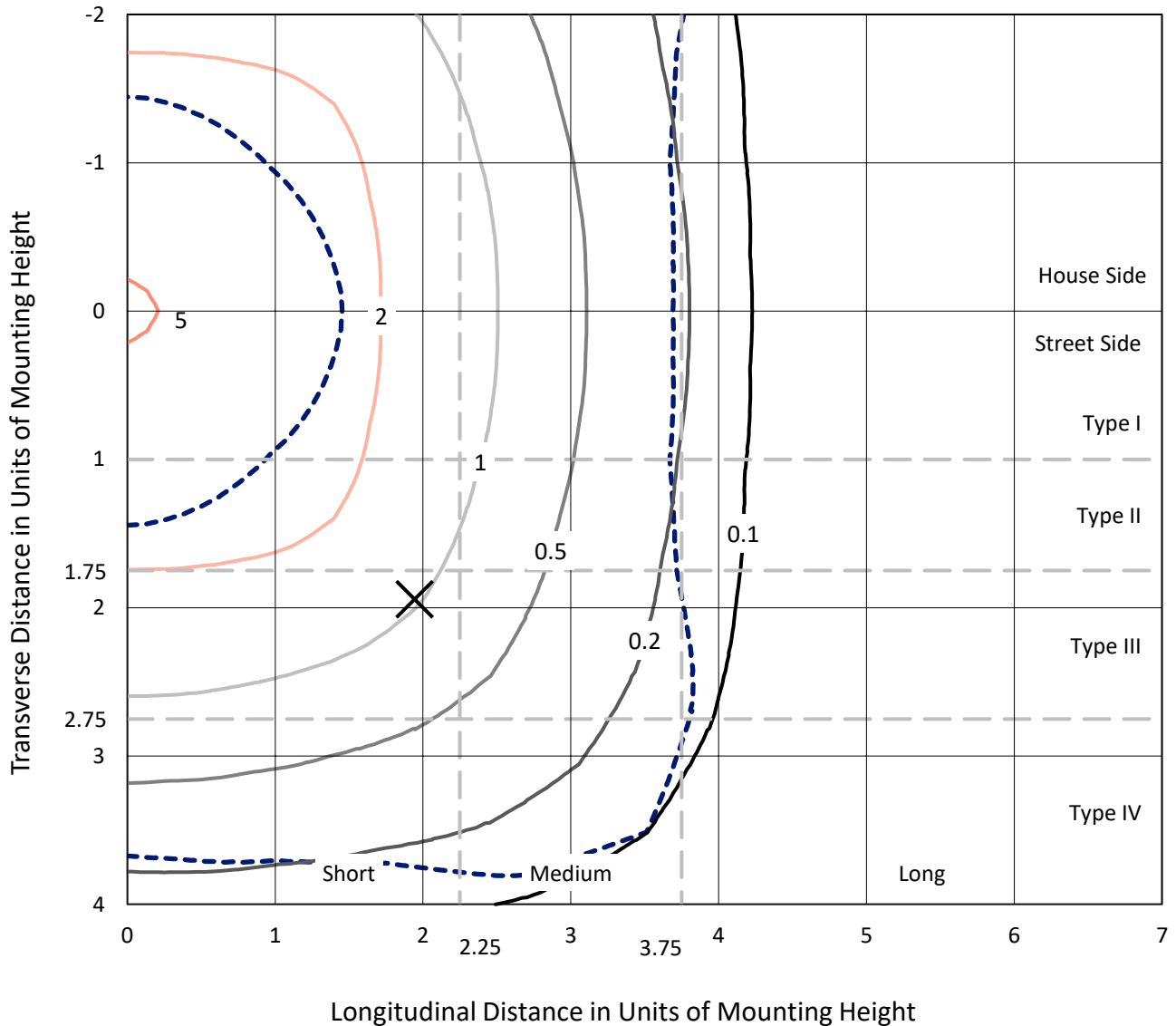
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

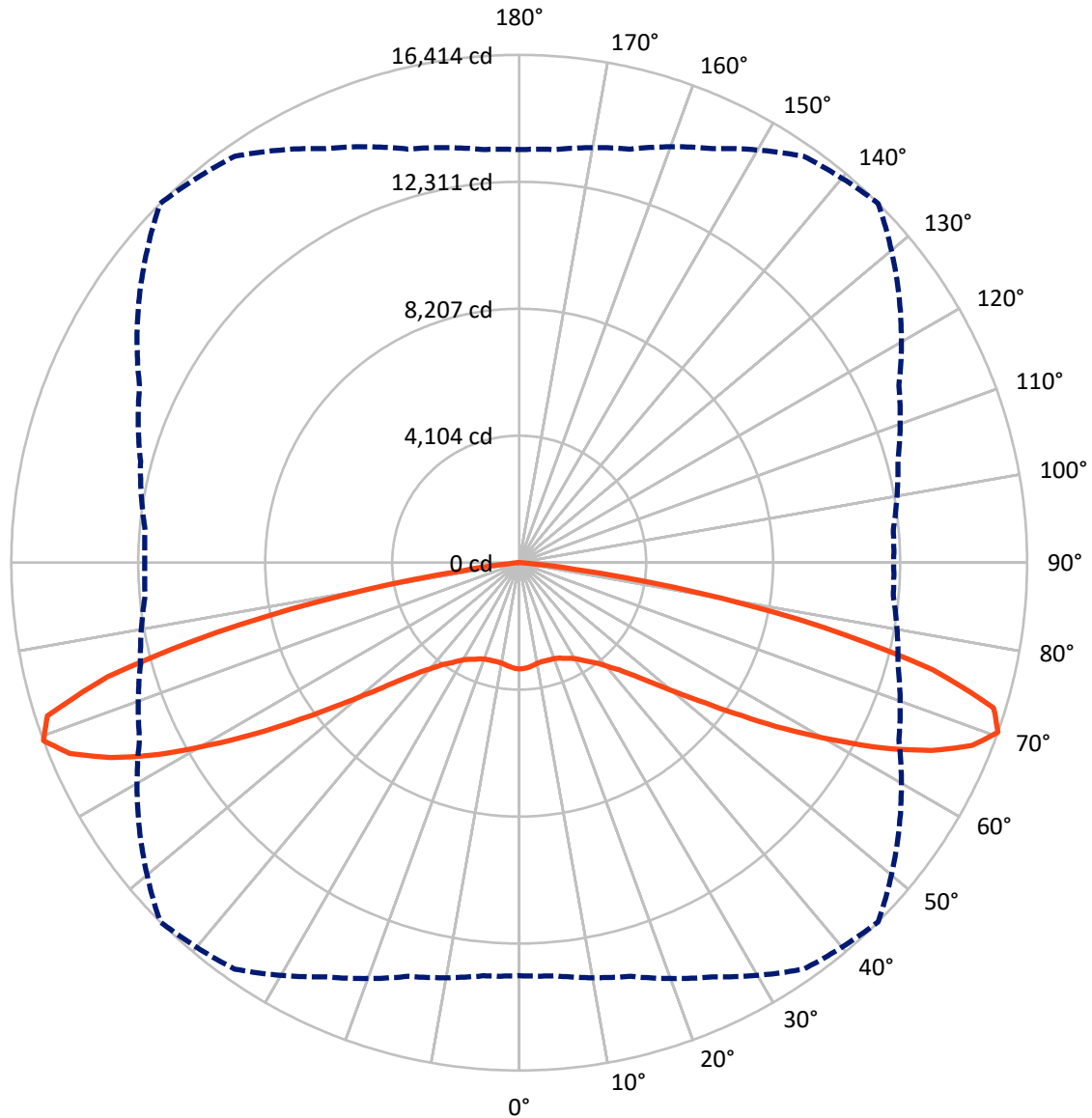
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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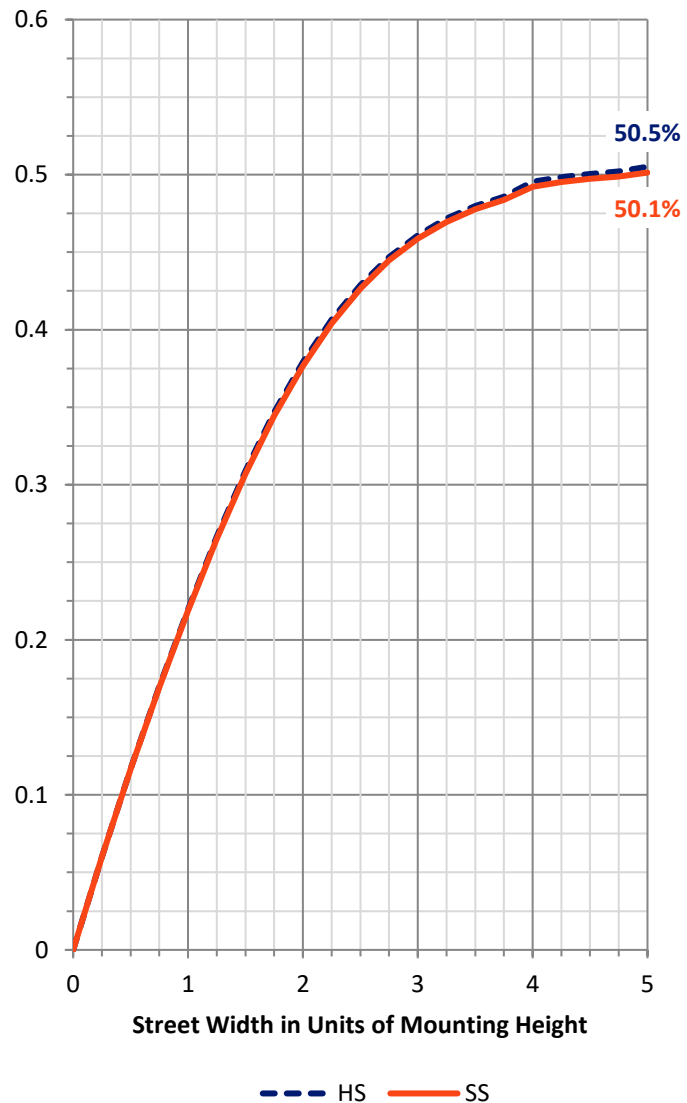
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20273.0	0.0	20273.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20273.0	0.0	20273.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40546.0	0.0	40546.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.0	0.8
10°-20°	939.8	2.3
20°-30°	1601.2	3.9
30°-40°	2481.9	6.1
40°-50°	4177.4	10.3
50°-60°	7600.5	18.7
60°-70°	12867.5	31.7
70°-80°	9959.9	24.6
80°-90°	596.8	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°	40546.0	100.0
0°-180°	40546.0	100.0



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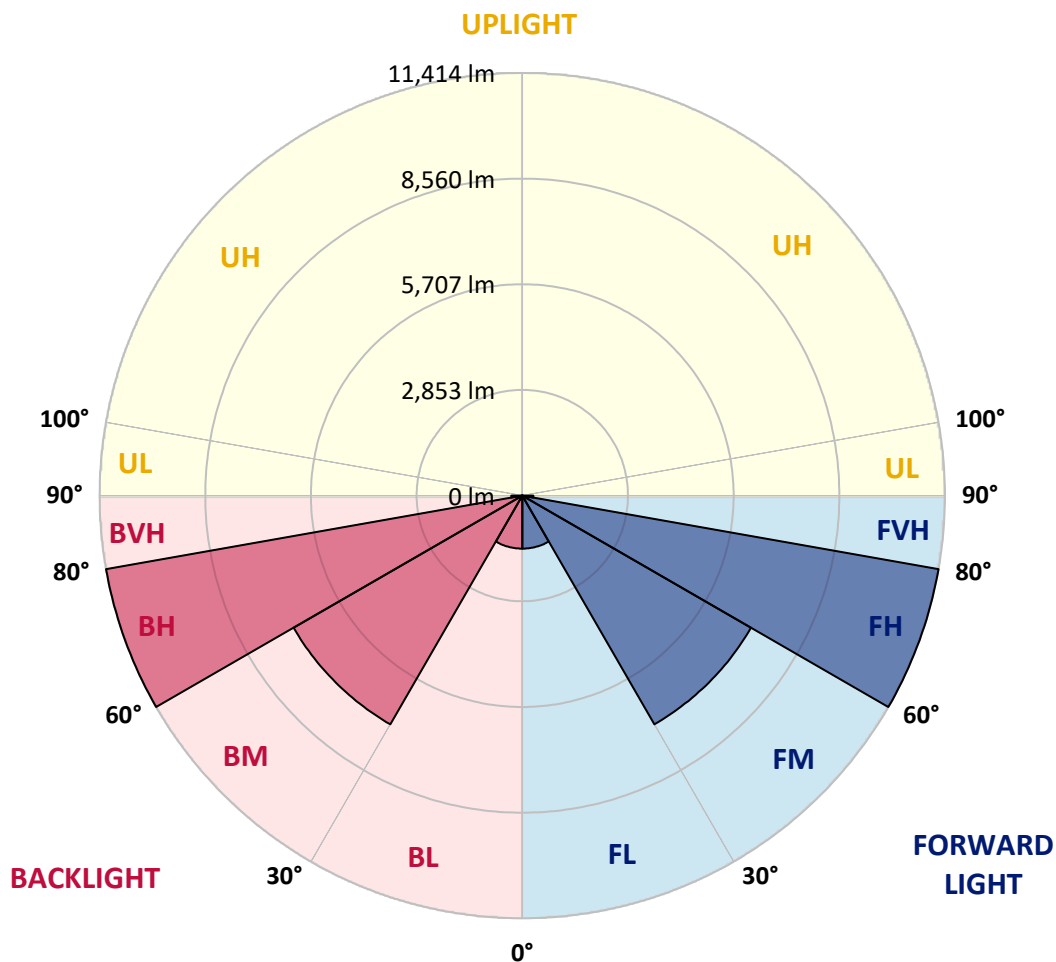
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1431.0	3.5			
FM (30°-60°)	7129.9	17.6			
FH (60°-80°)	11413.7	28.1			G4/12000
FVH (80°-90°)	298.4	0.7			G3/500
BL (0°-30°)	1431.0	3.5	B3/2500		
BM (30°-60°)	7129.9	17.6	B4/8500		
BH (60°-80°)	11413.7	28.1	B5		G4/12000
BVH (80°-90°)	298.4	0.7			G3/500
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°	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7	3432.7
2.5°	3424.1	3426.3	3426.3	3422.0	3419.9	3419.9	3417.7	3417.7	3424.1	3426.3	3428.4
5°	3394.2	3394.2	3394.2	3392.0	3387.7	3387.7	3383.5	3383.5	3385.6	3392.0	3387.7
7.5°	3353.5	3357.8	3357.8	3349.2	3342.8	3342.8	3340.6	3342.8	3344.9	3351.3	3349.2
10°	3340.6	3342.8	3332.1	3317.1	3306.4	3299.9	3302.1	3306.4	3317.1	3321.4	3323.5
12.5°	3349.2	3349.2	3329.9	3308.5	3289.2	3280.7	3278.5	3293.5	3312.8	3325.6	3329.9
15°	3359.9	3355.6	3332.1	3304.2	3285.0	3282.8	3280.7	3291.4	3319.2	3344.9	3347.1
17.5°	3366.3	3364.2	3334.2	3299.9	3289.2	3289.2	3287.1	3295.7	3325.6	3357.8	3359.9
20°	3387.7	3381.3	3347.1	3310.7	3302.1	3306.4	3299.9	3310.7	3342.8	3381.3	3389.9
22.5°	3430.6	3424.1	3389.9	3353.5	3349.2	3349.2	3347.1	3357.8	3392.0	3432.7	3439.1
25°	3482.0	3475.5	3443.4	3417.7	3422.0	3430.6	3426.3	3428.4	3456.3	3490.5	3501.2
27.5°	3550.5	3539.8	3511.9	3490.5	3503.4	3503.4	3503.4	3501.2	3518.4	3550.5	3561.2
30°	3634.0	3629.7	3599.7	3597.6	3608.3	3597.6	3597.6	3599.7	3601.9	3631.9	3642.6
32.5°	3743.2	3734.7	3719.7	3715.4	3745.4	3753.9	3724.0	3696.1	3711.1	3741.1	3747.5
35°	3923.1	3910.3	3888.8	3865.3	3888.8	3929.5	3865.3	3843.9	3882.4	3923.1	3927.4
37.5°	4167.2	4160.8	4126.5	4083.7	4081.6	4124.4	4058.0	4055.9	4128.7	4177.9	4184.4
40°	4473.5	4479.9	4437.0	4396.4	4374.9	4409.2	4357.8	4377.1	4447.8	4503.4	4499.1
42.5°	4903.9	4880.3	4813.9	4775.4	4751.8	4739.0	4726.1	4756.1	4835.4	4895.3	4942.4
45°	5407.1	5398.5	5315.0	5267.9	5216.5	5197.3	5193.0	5246.5	5342.9	5415.7	5422.1
47.5°	5976.7	5957.5	5903.9	5854.7	5835.4	5811.8	5790.4	5831.1	5927.5	5978.9	5993.9
50°	6563.5	6567.8	6567.8	6559.2	6578.5	6582.8	6524.9	6539.9	6593.5	6589.2	6584.9
52.5°	7233.8	7257.3	7368.7	7379.4	7471.5	7533.6	7428.6	7366.5	7347.3	7231.6	7240.2
55°	8021.8	8043.2	8210.3	8377.3	8625.7	8730.6	8510.1	8317.3	8180.3	8004.7	8013.2
57.5°	9004.7	9015.4	9173.9	9495.1	9889.1	10135.4	9747.8	9366.6	9088.2	8921.2	8854.8
60°	10062.6	10073.3	10304.6	10696.5	11308.9	11608.7	11129.0	10505.9	10154.7	9899.8	9917.0
62.5°	11332.5	11375.3	11583.0	12122.6	12865.7	13201.9	12565.9	11732.9	11257.5	10940.6	10953.4
65°	12692.3	12765.1	12992.1	13585.2	14270.5	14632.4	13852.9	12891.4	12300.4	11912.8	11953.5
67.5°	13574.5	13638.8	13966.4	14621.7	15476.1	15775.9	14769.5	13649.5	12910.7	12448.1	12362.5
70°	13349.7	13403.2	13840.1	14769.5	16035.0	16414.1	14987.9	13538.1	12668.7	12135.5	12101.2
72.5°	11784.3	11672.9	12311.1	13645.2	15396.9	16032.9	14300.5	12364.6	11270.4	10722.1	10657.9
75°	7809.8	8051.8	8994.0	10565.8	13026.3	13814.4	12206.2	9927.7	8550.7	8094.6	8023.9
77.5°	2610.4	2796.7	3634.0	5989.6	8880.5	10064.7	8893.4	6492.8	4593.4	3700.4	3717.5
80°	691.7	683.1	884.4	1646.8	3837.4	5829.0	4467.0	2199.3	1203.5	871.6	826.6
82.5°	248.4	278.4	357.6	456.1	1017.2	1811.7	1278.4	616.7	451.8	334.1	323.4
85°	109.2	107.1	154.2	182.0	254.8	338.3	299.8	261.3	229.1	152.0	141.3
87.5°	23.6	23.6	36.4	27.8	45.0	45.0	55.7	66.4	68.5	45.0	36.4
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)