

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: P457674

Luminaire Tested: **GALN-SA9A-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457674
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-SA9A-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43390 lumens
Efficiency: N/A
Efficacy: 158.4 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

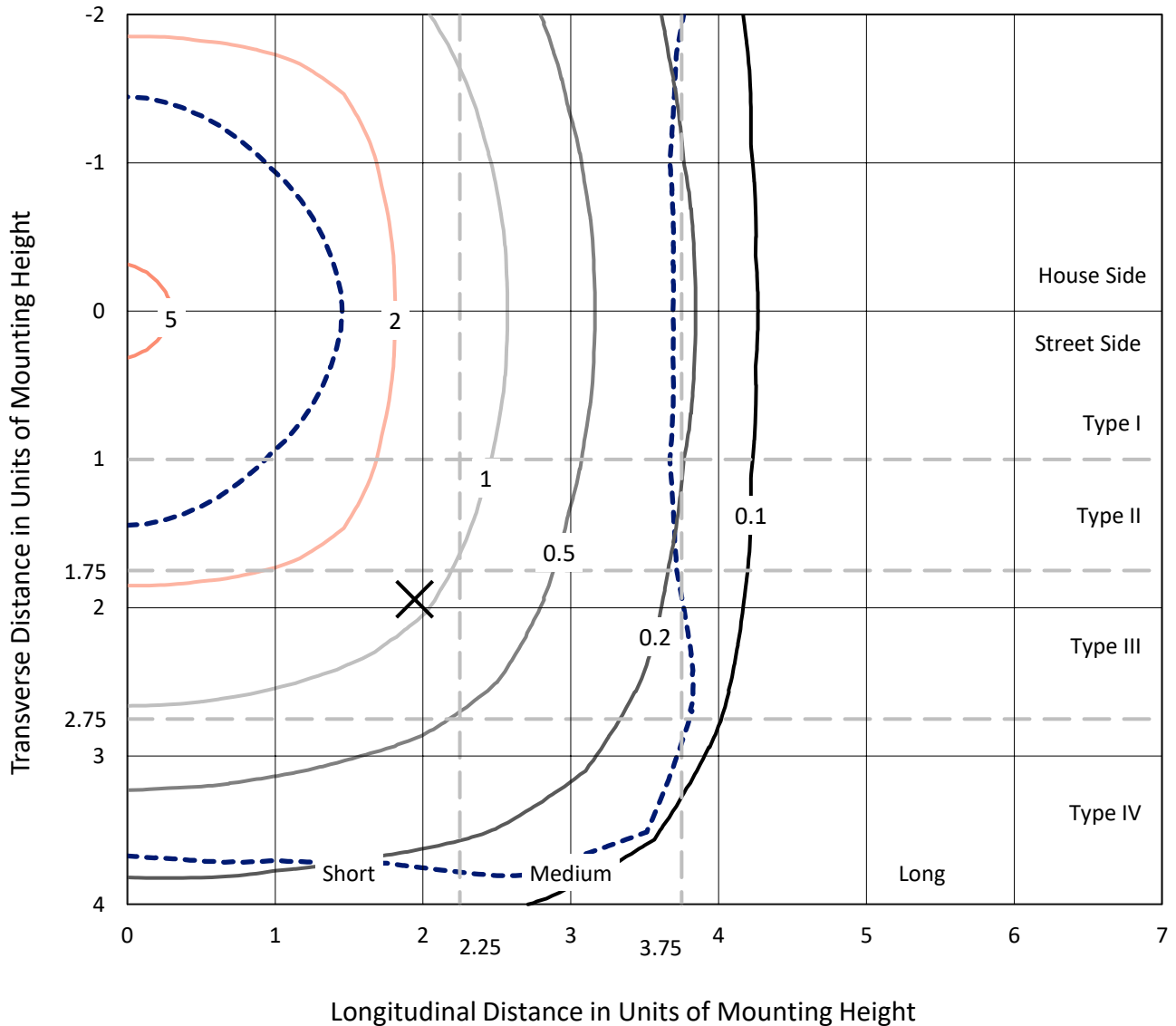
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

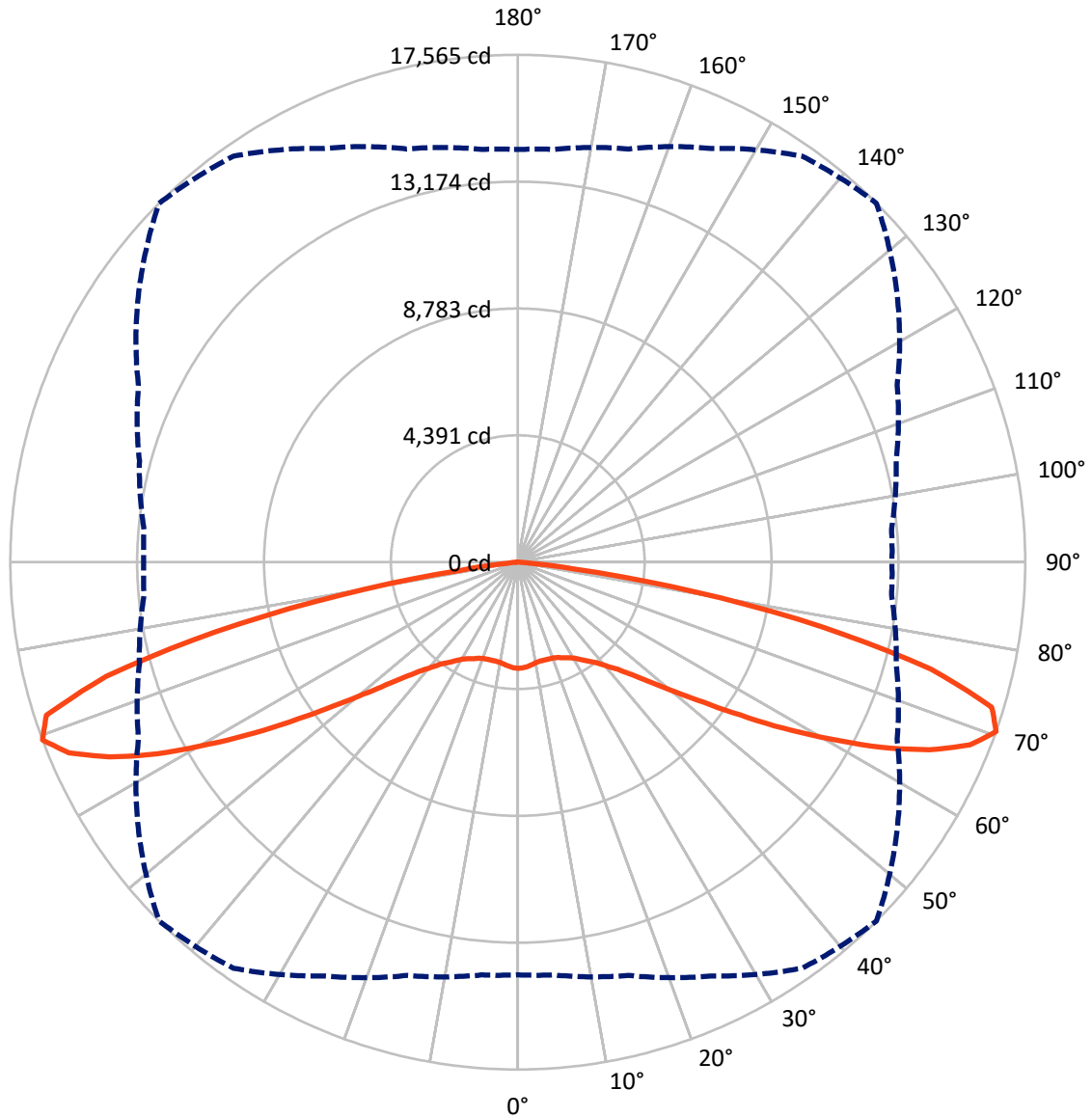
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	21695.0	0.0	21695.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21695.0	0.0	21695.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	43390.0	0.0	43390.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.5	0.8
10°-20°	1005.7	2.3
20°-30°	1713.5	3.9
30°-40°	2656.0	6.1
40°-50°	4470.4	10.3
50°-60°	8133.6	18.7
60°-70°	13770.0	31.7
70°-80°	10658.5	24.6
80°-90°	638.7	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°	43390.0	100.0
0°-180°	43390.0	100.0



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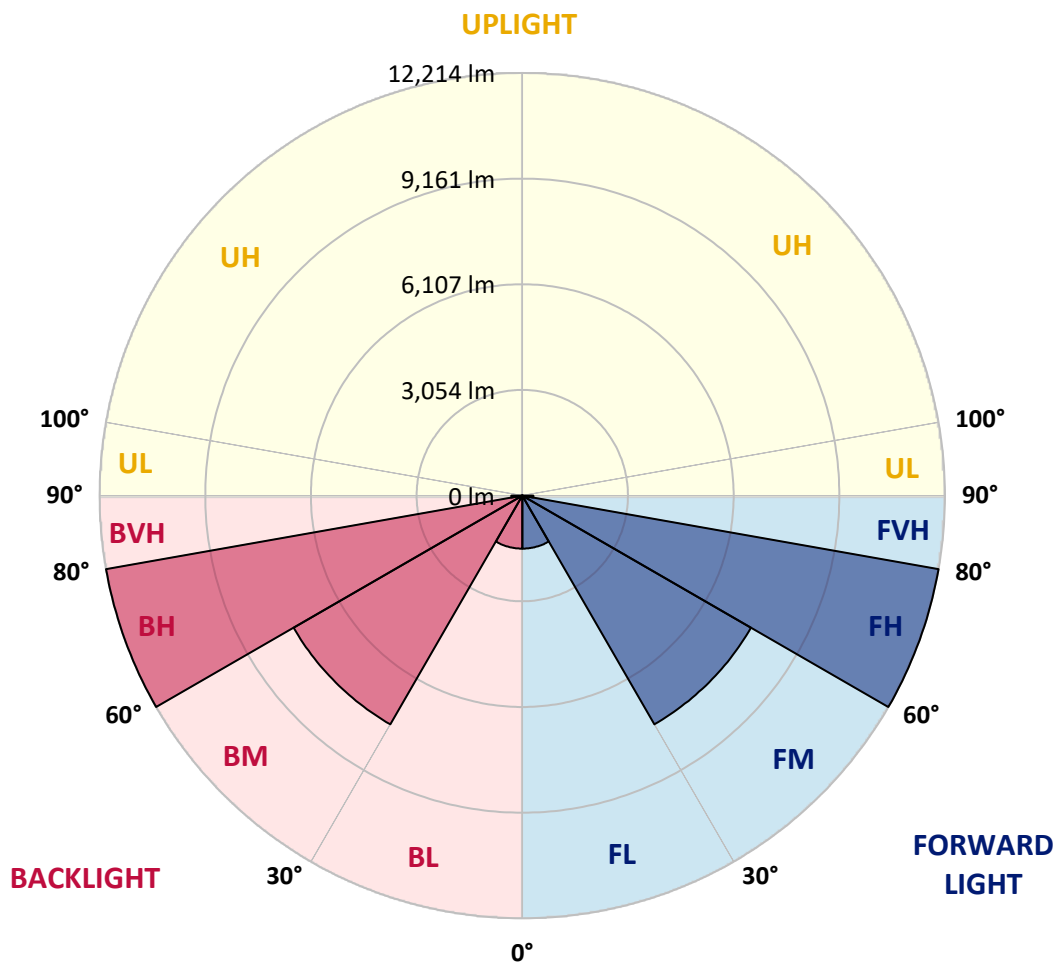
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1531.4	3.5			
FM (30°-60°)	7630.0	17.6			
FH (60°-80°)	12214.3	28.1			G5
FVH (80°-90°)	319.3	0.7			G3/500
BL (0°-30°)	1531.4	3.5	B3/2500		
BM (30°-60°)	7630.0	17.6	B4/8500		
BH (60°-80°)	12214.3	28.1	B5		G5
BVH (80°-90°)	319.3	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3673.5	3673.5	3673.5	3673.5	3673.5	3673.5	3673.5	3673.5	3673.5	3673.5	3673.5
2.5°	3664.3	3666.6	3666.6	3662.0	3659.7	3659.7	3657.5	3657.5	3664.3	3666.6	3668.9
5°	3632.2	3632.2	3632.2	3630.0	3625.4	3625.4	3620.8	3620.8	3623.1	3630.0	3625.4
7.5°	3588.7	3593.3	3593.3	3584.1	3577.2	3577.2	3575.0	3577.2	3579.5	3586.4	3584.1
10°	3575.0	3577.2	3565.8	3549.7	3538.3	3531.4	3533.7	3538.3	3549.7	3554.3	3556.6
12.5°	3584.1	3584.1	3563.5	3540.6	3520.0	3510.8	3508.5	3524.5	3545.2	3558.9	3563.5
15°	3595.6	3591.0	3565.8	3536.0	3515.4	3513.1	3510.8	3522.2	3552.0	3579.5	3581.8
17.5°	3602.5	3600.2	3568.1	3531.4	3520.0	3520.0	3517.7	3526.8	3558.9	3593.3	3595.6
20°	3625.4	3618.5	3581.8	3542.9	3533.7	3538.3	3531.4	3542.9	3577.2	3618.5	3627.7
22.5°	3671.2	3664.3	3627.7	3588.7	3584.1	3584.1	3581.8	3593.3	3630.0	3673.5	3680.4
25°	3726.2	3719.3	3685.0	3657.5	3662.0	3671.2	3666.6	3668.9	3698.7	3735.4	3746.8
27.5°	3799.5	3788.1	3758.3	3735.4	3749.1	3749.1	3749.1	3746.8	3765.2	3799.5	3811.0
30°	3888.9	3884.3	3852.2	3850.0	3861.4	3850.0	3850.0	3852.2	3854.5	3886.6	3898.1
32.5°	4005.8	3996.6	3980.6	3976.0	4008.1	4017.2	3985.2	3955.4	3971.4	4003.5	4010.4
35°	4198.3	4184.5	4161.6	4136.4	4161.6	4205.2	4136.4	4113.5	4154.7	4198.3	4202.9
37.5°	4459.5	4452.7	4416.0	4370.2	4367.9	4413.7	4342.7	4340.4	4418.3	4471.0	4477.9
40°	4787.2	4794.1	4748.3	4704.7	4681.8	4718.5	4663.5	4684.1	4759.7	4819.3	4814.7
42.5°	5247.8	5222.6	5151.6	5110.4	5085.1	5071.4	5057.6	5089.7	5174.5	5238.7	5289.1
45°	5786.4	5777.2	5687.8	5637.4	5582.4	5561.8	5557.2	5614.5	5717.6	5795.6	5802.4
47.5°	6396.0	6375.3	6318.0	6265.3	6244.7	6219.5	6196.6	6240.1	6343.3	6398.3	6414.3
50°	7023.9	7028.5	7028.5	7019.3	7039.9	7044.5	6982.6	6998.7	7056.0	7051.4	7046.8
52.5°	7741.2	7766.4	7885.5	7897.0	7995.5	8062.0	7949.7	7883.2	7862.6	7738.9	7748.0
55°	8584.5	8607.4	8786.1	8964.9	9230.7	9343.0	9107.0	8900.7	8754.1	8566.1	8575.3
57.5°	9636.3	9647.8	9817.4	10161.1	10582.8	10846.3	10431.5	10023.6	9725.7	9547.0	9475.9
60°	10768.4	10779.9	11027.4	11446.7	12102.1	12423.0	11909.6	11242.8	10866.9	10594.2	10612.6
62.5°	12127.3	12173.2	12395.5	12973.0	13768.2	14127.9	13447.3	12555.9	12047.1	11708.0	11721.7
65°	13582.5	13660.5	13903.4	14538.1	15271.5	15658.8	14824.6	13795.7	13163.2	12748.4	12791.9
67.5°	14526.7	14595.4	14946.1	15647.3	16561.7	16882.5	15805.4	14606.9	13816.3	13321.3	13229.6
70°	14286.1	14343.4	14810.9	15805.4	17159.8	17565.4	16039.2	14487.7	13557.3	12986.7	12950.0
72.5°	12610.9	12491.7	13174.6	14602.3	16476.9	17157.5	15303.6	13231.9	12060.9	11474.2	11405.5
75°	8357.6	8616.6	9624.9	11306.9	13940.0	14783.4	13062.3	10624.0	9150.5	8662.4	8586.8
77.5°	2793.5	2992.9	3888.9	6409.7	9503.4	10770.7	9517.2	6948.2	4915.6	3959.9	3978.3
80°	740.2	731.0	946.4	1762.3	4106.6	6237.8	4780.4	2353.5	1287.9	932.7	884.6
82.5°	265.8	297.9	382.7	488.1	1088.5	1938.7	1368.1	660.0	483.5	357.5	346.0
85°	116.9	114.6	165.0	194.8	272.7	362.1	320.8	279.6	245.2	162.7	151.2
87.5°	25.2	25.2	39.0	29.8	48.1	48.1	59.6	71.0	73.3	48.1	39.0
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)