

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: P529627

Luminaire Tested: **GALN-SA4D-740-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21023 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

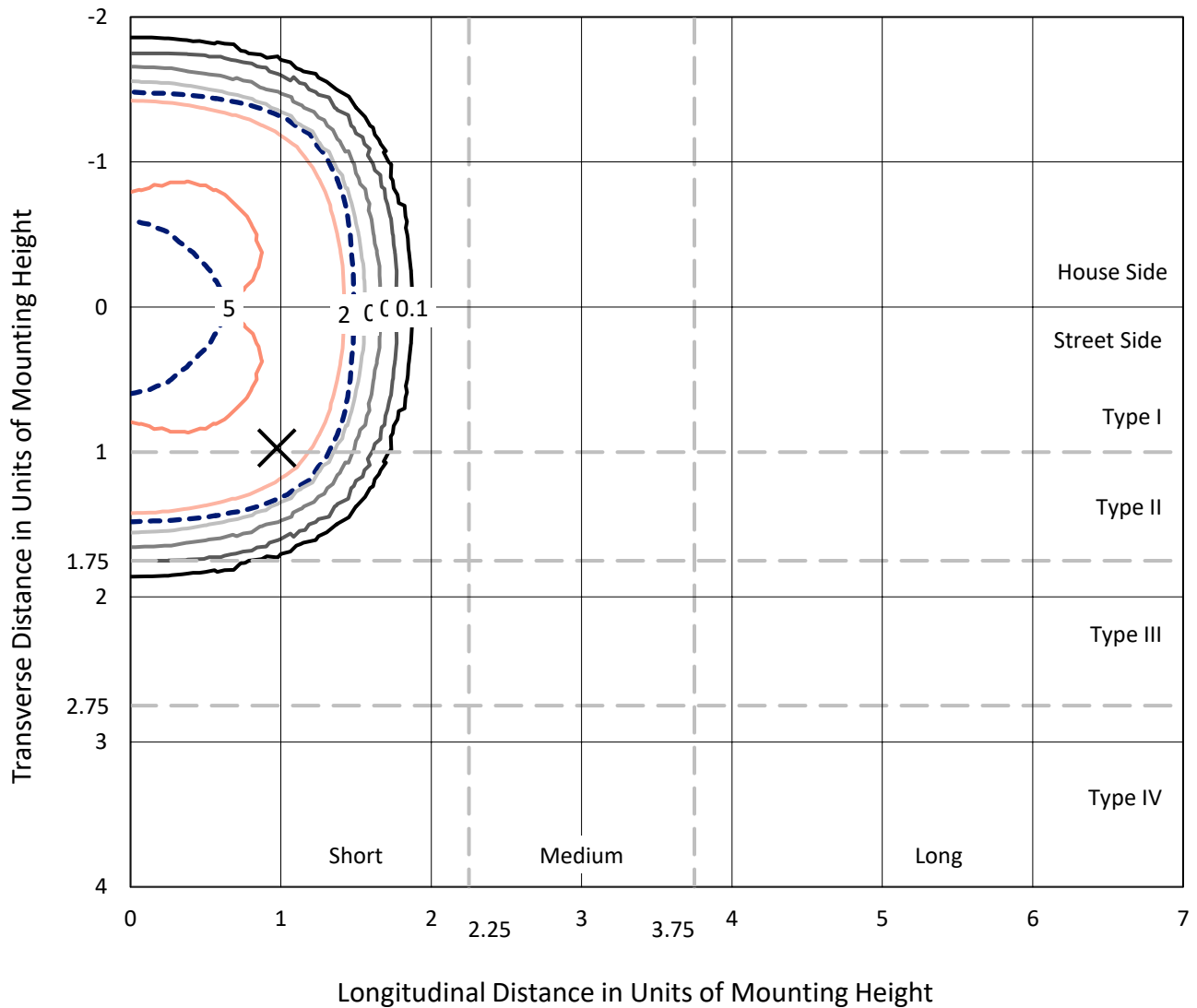
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

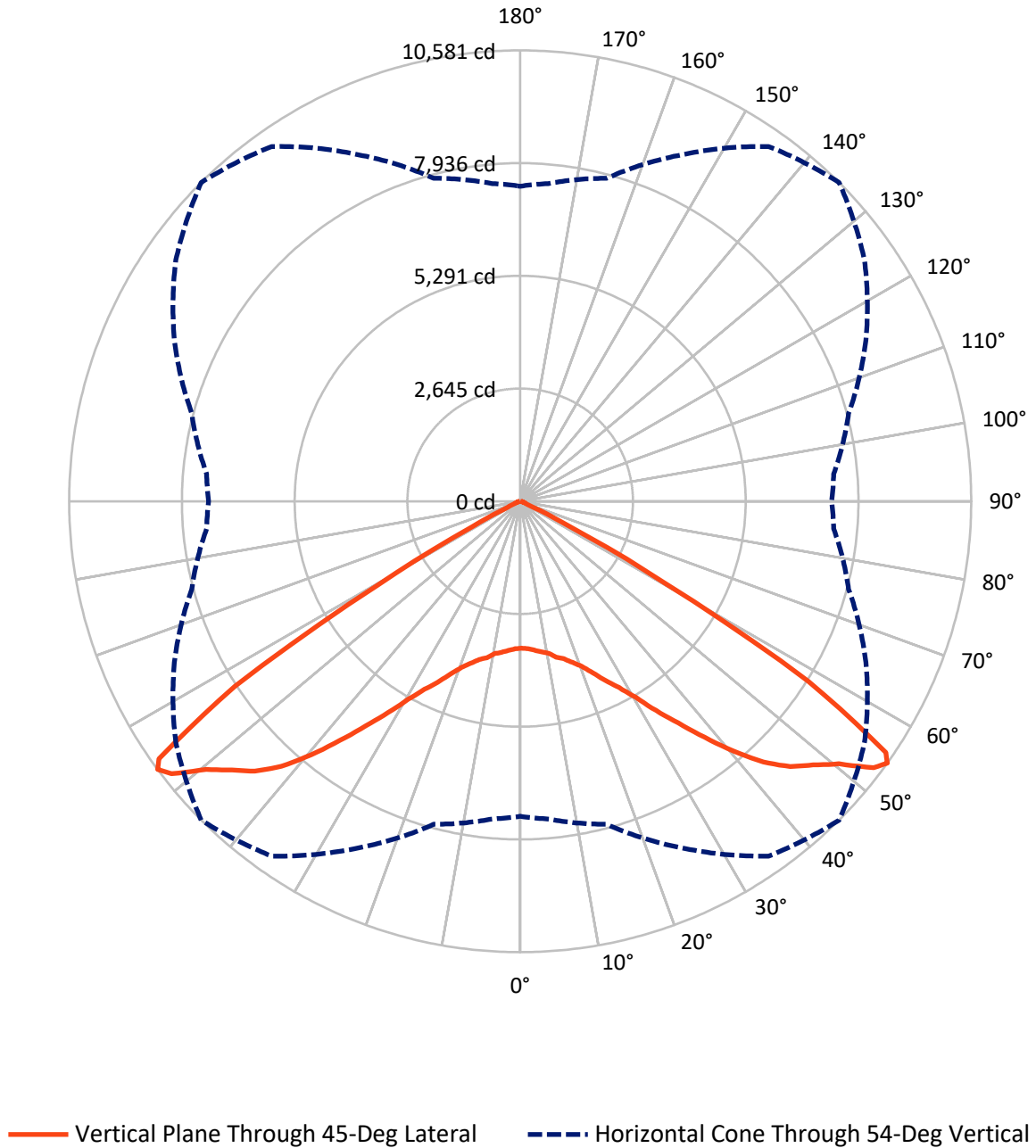
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10511.5	0.0	10511.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10511.5	0.0	10511.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21023.0	0.0	21023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.4	1.6
10°-20°	1092.6	5.2
20°-30°	2141.4	10.2
30°-40°	3850.7	18.3
40°-50°	6591.7	31.4
50°-60°	6378.1	30.3
60°-70°	546.0	2.6
70°-80°	64.7	0.3
80°-90°	20.3	0.1
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°	21023.0	100.0
0°-180°	21023.0	100.0

Coefficient of Utilization



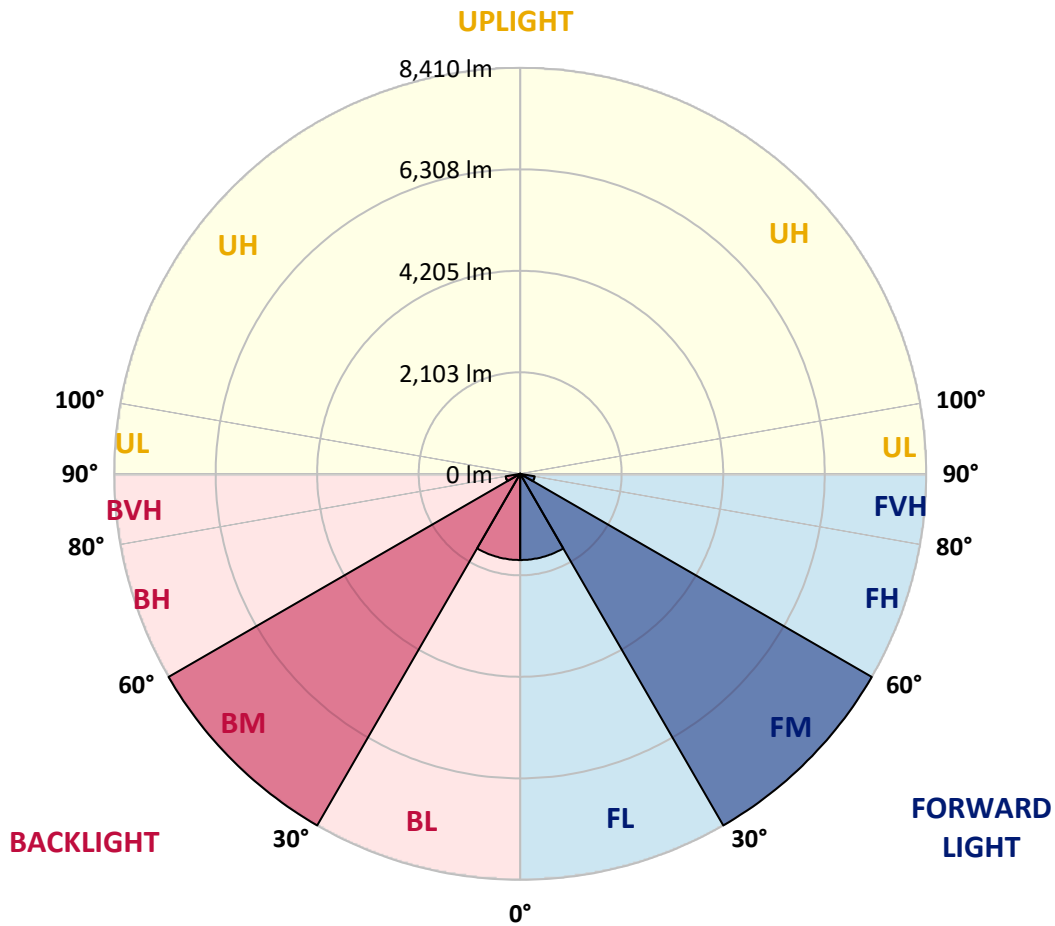
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1785.7	8.5			
FM (30°-60°)	8410.3	40.0			
FH (60°-80°)	305.4	1.5			G0/660
FVH (80°-90°)	10.1	0.0			G1/100
BL (0°-30°)	1785.7	8.5	B3/2500		
BM (30°-60°)	8410.3	40.0	B4/8500		
BH (60°-80°)	305.4	1.5	B1/500		G0/660
BVH (80°-90°)	10.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1	3447.1
2.5°	3463.8	3483.8	3470.4	3480.4	3480.4	3463.8	3473.8	3433.8	3460.4	3440.5	3443.8
5°	3517.1	3513.7	3513.7	3517.1	3503.7	3510.4	3497.1	3483.8	3473.8	3460.4	3500.4
7.5°	3583.7	3583.7	3560.4	3567.0	3560.4	3570.3	3543.7	3517.1	3507.1	3497.1	3490.4
10°	3646.9	3640.3	3630.3	3660.3	3637.0	3623.6	3610.3	3593.7	3557.0	3543.7	3530.4
12.5°	3740.2	3736.9	3723.6	3753.5	3740.2	3753.5	3703.6	3660.3	3653.6	3610.3	3633.6
15°	3850.1	3880.1	3856.8	3856.8	3850.1	3833.5	3813.5	3793.5	3733.5	3716.9	3720.2
17.5°	3993.3	3983.3	3986.7	3986.7	4020.0	3976.7	3936.7	3886.7	3856.8	3846.8	3813.5
20°	4129.9	4143.2	4139.9	4163.2	4183.2	4136.5	4093.2	4086.6	4003.3	4016.6	3970.0
22.5°	4369.7	4359.7	4376.3	4393.0	4379.7	4373.0	4333.0	4283.1	4209.8	4176.5	4169.8
25°	4622.8	4606.1	4576.2	4616.1	4636.1	4666.1	4589.5	4562.9	4449.6	4399.7	4403.0
27.5°	4839.3	4862.6	4895.9	4912.6	4962.5	4952.5	4899.2	4812.6	4726.0	4669.4	4632.8
30°	5135.7	5149.0	5205.6	5229.0	5315.6	5338.9	5255.6	5155.7	5002.5	4929.2	4885.9
32.5°	5408.8	5502.1	5498.7	5615.3	5755.2	5851.8	5701.9	5548.7	5395.5	5308.9	5232.3
35°	5851.8	5835.1	5931.7	6054.9	6281.4	6391.3	6228.1	6051.6	5818.5	5678.6	5618.6
37.5°	6264.8	6271.4	6401.3	6597.8	6857.6	7027.5	6884.2	6594.5	6354.7	6174.8	6091.6
40°	6864.3	6877.6	7010.8	7233.9	7527.0	7710.2	7543.7	7250.6	6930.9	6791.0	6791.0
42.5°	7567.0	7623.6	7710.2	7903.4	8166.5	8369.7	8219.8	7990.0	7666.9	7487.1	7513.7
45°	8289.7	8316.4	8373.0	8659.4	8782.7	8882.6	8742.7	8636.1	8419.6	8199.8	8163.2
47.5°	8965.8	8975.8	9142.4	9232.3	9328.9	9245.6	9335.5	9195.6	8952.5	8739.4	8696.1
50°	9265.6	9248.9	9485.4	9758.5	9831.8	9685.2	9608.6	9515.4	9145.7	8889.2	8776.0
52.5°	8393.0	8489.6	8929.2	9688.6	10261.4	10384.6	9938.4	9508.7	8819.3	8319.7	8243.1
54°	7393.8	7483.7	7846.8	8972.5	10164.8	10581.2	9861.8	8949.2	7976.7	7383.8	7307.2
55°	6404.6	6304.7	6964.2	8113.2	9711.9	10408.0	9558.7	8226.5	7114.1	6571.2	6464.6
57.5°	3467.1	3483.8	4040.0	5125.7	6824.3	7980.0	7047.4	5565.3	4203.2	3593.7	3540.4
60°	1099.1	1125.7	1368.9	2071.6	3260.6	3893.4	3337.2	2234.8	1545.4	1239.0	1189.0
62.5°	343.0	356.4	389.7	579.5	892.6	1275.6	999.2	599.5	446.3	409.7	416.3
65°	209.8	209.8	213.2	226.5	266.4	309.7	299.7	263.1	253.1	246.5	243.1
67.5°	136.6	133.2	139.9	149.9	156.5	159.9	169.9	179.8	176.5	169.9	169.9
70°	83.3	79.9	86.6	99.9	103.2	109.9	119.9	133.2	129.9	123.2	126.6
72.5°	46.6	46.6	50.0	59.9	69.9	76.6	86.6	96.6	99.9	96.6	96.6
75°	16.7	20.0	26.6	36.6	43.3	53.3	63.3	73.3	83.3	76.6	73.3
77.5°	6.7	6.7	13.3	23.3	33.3	43.3	59.9	69.9	76.6	69.9	63.3
80°	3.3	3.3	10.0	20.0	30.0	40.0	50.0	59.9	63.3	56.6	50.0
82.5°	3.3	3.3	10.0	20.0	30.0	36.6	53.3	59.9	66.6	59.9	50.0
85°	0.0	3.3	10.0	20.0	26.6	30.0	30.0	20.0	16.7	10.0	10.0
87.5°	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)