

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: P647589

Luminaire Tested: **GALN-SA8D-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

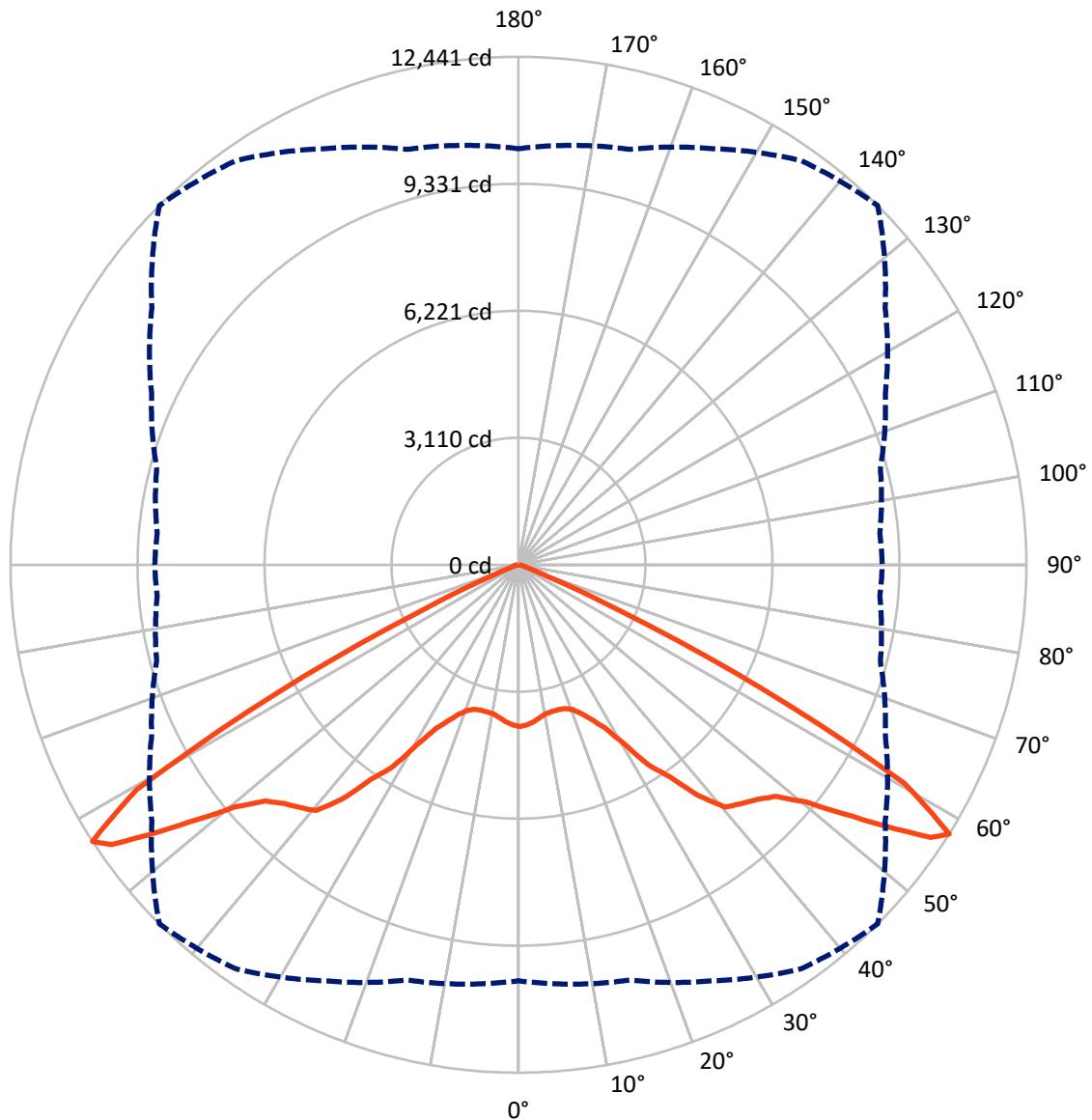
Lumens per Lamp: N/A
Luminaire Lumens: 25513.3 lumens
Efficiency: N/A
Efficacy: 51.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 493
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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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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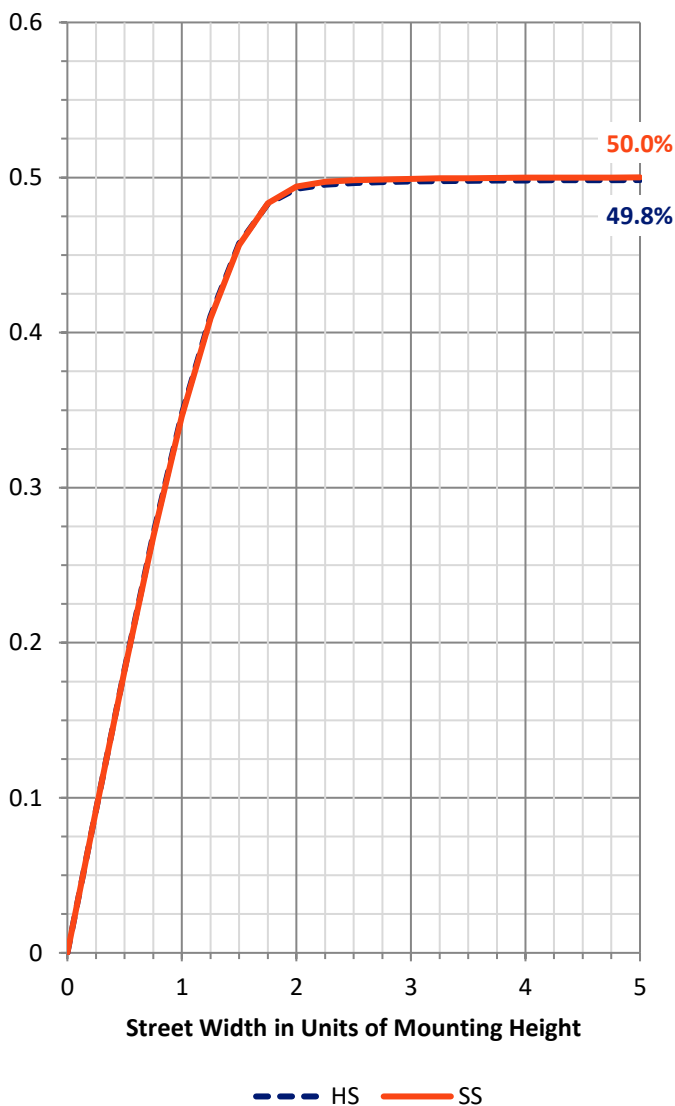
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12756.6	0.0	12756.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12756.6	0.0	12756.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	25513.3	0.0	25513.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.7	1.4
10°-20°	1051.2	4.1
20°-30°	1940.3	7.6
30°-40°	3815.8	15.0
40°-50°	6214.9	24.4
50°-60°	8863.2	34.7
60°-70°	3068.7	12.0
70°-80°	164.6	0.6
80°-90°	30.9	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°	25513.3	100.0
0°-180°	25513.3	100.0

Coefficient of Utilization



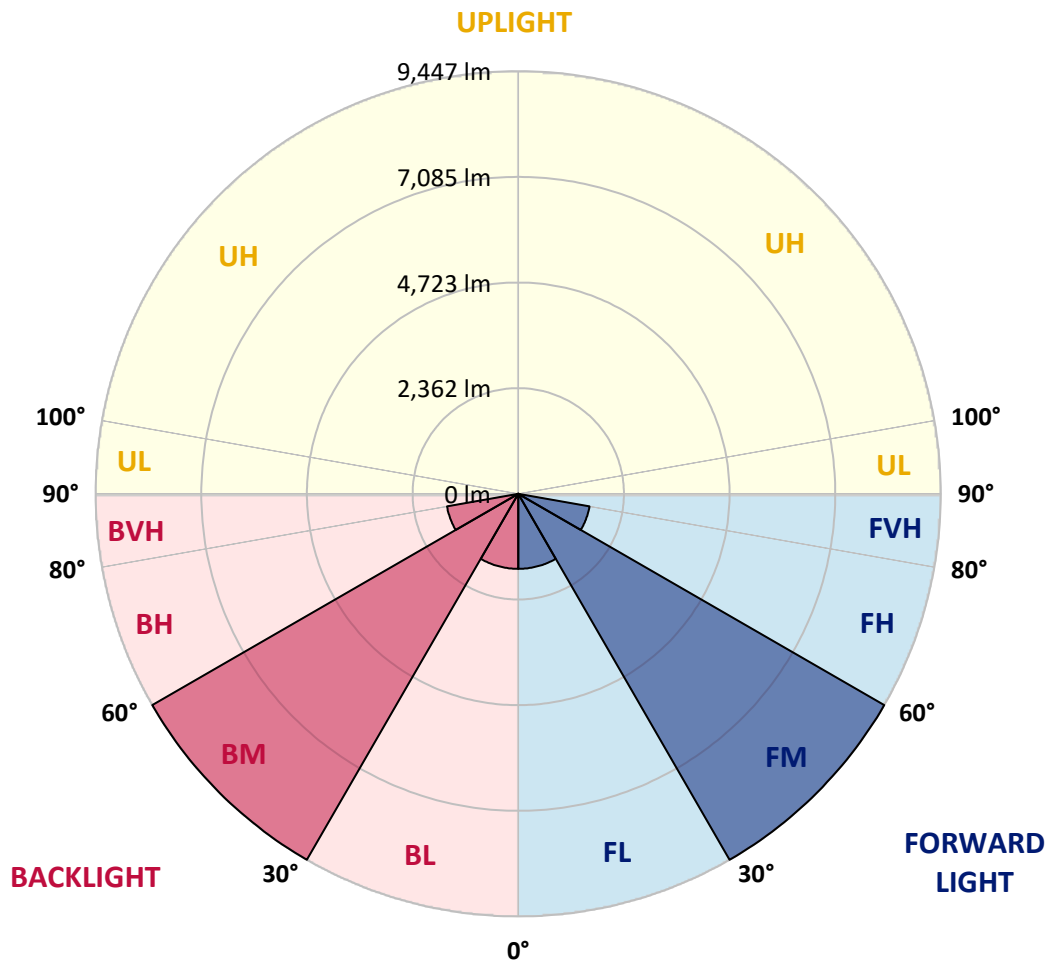
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1677.5	6.6			
FM (30°-60°)	9447.0	37.0			
FH (60°-80°)	1616.6	6.3			G1/1800
FVH (80°-90°)	15.5	0.1			G1/100
BL (0°-30°)	1677.5	6.6	B3/2500		
BM (30°-60°)	9447.0	37.0	B5		
BH (60°-80°)	1616.6	6.3	B3/2500		G1/1800
BVH (80°-90°)	15.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3957.4	3957.4	3957.4	3957.4	3957.4	3957.4	3957.4	3957.4	3957.4	3957.4	3957.4
2.5°	3946.7	3968.0	3941.4	3930.8	3925.5	3925.5	3909.5	3909.5	3904.2	3909.5	3888.2
5°	3882.9	3904.2	3904.2	3898.9	3866.9	3861.6	3845.7	3835.1	3840.4	3819.1	3835.1
7.5°	3819.1	3835.1	3813.8	3808.4	3797.8	3776.6	3771.2	3723.3	3728.6	3728.6	3739.3
10°	3808.4	3803.1	3771.2	3744.6	3712.7	3707.3	3691.5	3680.8	3680.8	3675.5	3691.5
12.5°	3808.4	3781.8	3776.6	3718.0	3664.8	3686.1	3643.5	3617.0	3654.2	3664.8	3686.1
15°	3803.1	3829.7	3739.3	3712.7	3675.5	3680.8	3643.5	3617.0	3638.2	3648.9	3664.8
17.5°	3835.1	3819.1	3792.5	3739.3	3723.3	3702.0	3654.2	3632.9	3632.9	3659.5	3664.8
20°	3920.2	3877.6	3824.4	3797.8	3813.8	3787.1	3728.6	3648.9	3670.2	3691.5	3707.3
22.5°	4000.0	3968.0	3930.8	3914.8	4005.3	3962.7	3861.6	3771.2	3739.3	3776.6	3803.1
25°	4154.2	4154.2	4085.1	4106.3	4207.4	4212.7	4095.6	3936.1	3914.8	3930.8	3941.4
27.5°	4468.0	4483.9	4425.4	4446.7	4489.3	4526.5	4425.4	4292.5	4244.6	4239.3	4255.2
30°	4808.4	4840.3	4835.0	4925.5	5047.8	5069.1	4920.1	4702.1	4558.4	4531.8	4553.1
32.5°	5255.3	5271.2	5260.5	5366.9	5696.7	5851.0	5462.7	5154.2	4962.7	5010.6	4962.7
35°	6095.7	6079.7	5962.6	5983.9	6255.2	6366.9	5994.6	5797.8	5707.4	5803.1	5781.8
37.5°	6819.0	6760.5	6664.7	6803.1	7085.0	7186.1	6797.8	6452.0	6287.1	6446.7	6515.8
40°	7430.7	7281.8	7148.8	7287.1	7664.8	7803.1	7233.9	6952.0	6888.2	7005.2	7154.1
42.5°	7946.7	7850.9	7675.4	7686.0	7936.0	7999.8	7542.4	7377.5	7313.7	7499.9	7574.4
45°	8313.7	8223.2	8058.4	8047.8	8239.2	8196.7	7787.1	7675.4	7712.6	7834.9	7872.2
47.5°	8499.9	8547.7	8451.9	8478.6	8579.6	8478.6	8154.1	8154.1	8069.0	8143.4	8106.2
50°	9037.1	8888.1	9010.5	9010.5	9116.9	9127.5	8803.0	8686.0	8457.3	8329.6	8329.6
52.5°	9664.7	9675.4	9723.2	9898.8	10079.6	10233.9	9771.1	9271.1	8888.1	8723.2	8701.9
55°	10180.6	10287.1	10478.5	10808.3	11329.6	11542.4	10744.5	9850.9	9382.8	9127.5	9074.3
56°	10462.6	10361.5	10691.3	11143.4	11824.2	12100.9	10904.1	9967.9	9452.0	9164.7	9159.4
57.5°	10191.3	10303.0	10531.7	11244.5	12079.6	12441.2	10962.5	9914.7	9175.4	8882.8	8909.4
60°	8047.8	8154.1	8462.6	9260.5	10568.9	10850.9	9276.4	8175.4	7515.9	7095.6	7100.9
62.5°	4553.1	4632.9	4872.2	5611.6	6425.5	6696.7	5781.8	5047.8	4590.3	4356.3	4281.8
65°	1675.5	1643.6	1680.8	2058.5	2558.5	2787.2	2404.2	2031.9	1792.5	1707.4	1675.5
67.5°	627.7	579.8	542.5	579.8	728.7	771.3	707.4	590.4	553.2	569.2	579.8
70°	388.3	367.0	292.5	276.6	271.3	266.0	281.9	297.9	340.4	398.9	409.6
72.5°	271.3	255.3	207.4	196.8	186.2	180.9	207.4	228.7	266.0	308.5	313.8
75°	106.4	111.7	106.4	117.0	122.3	127.6	148.9	164.9	180.9	180.9	175.5
77.5°	21.3	21.3	31.9	42.5	53.2	69.1	101.1	117.0	122.3	117.0	101.1
80°	0.0	0.0	10.6	21.3	42.5	58.5	90.4	101.1	111.7	101.1	79.8
82.5°	0.0	0.0	10.6	26.6	42.5	53.2	85.1	106.4	122.3	111.7	85.1
85°	0.0	0.0	10.6	21.3	31.9	37.3	37.3	26.6	26.6	16.0	10.6
87.5°	0.0	0.0	0.0	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)