

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: P648083

Luminaire Tested: **GALN-SA8A-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648083
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-SA8A-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30176 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

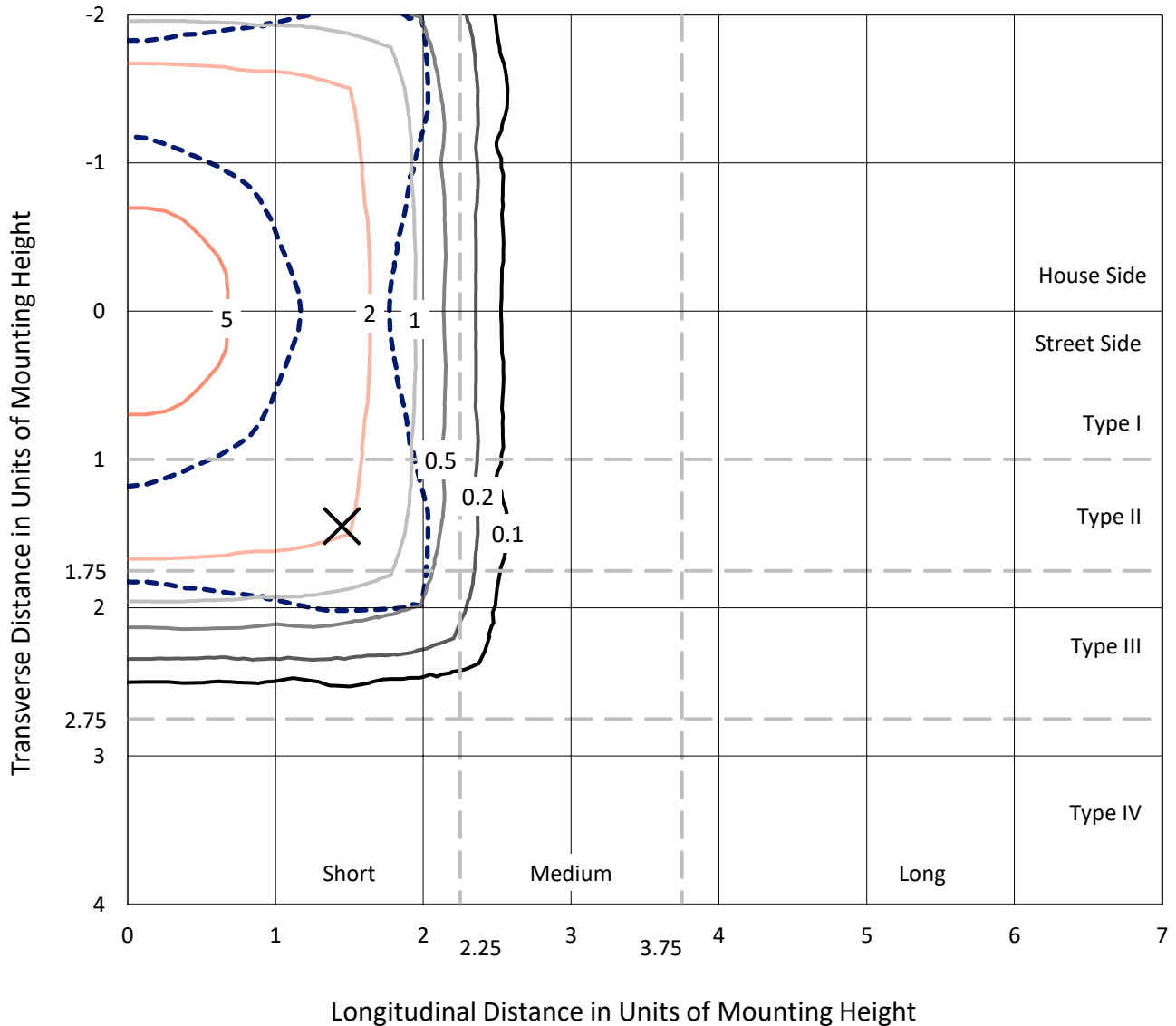
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

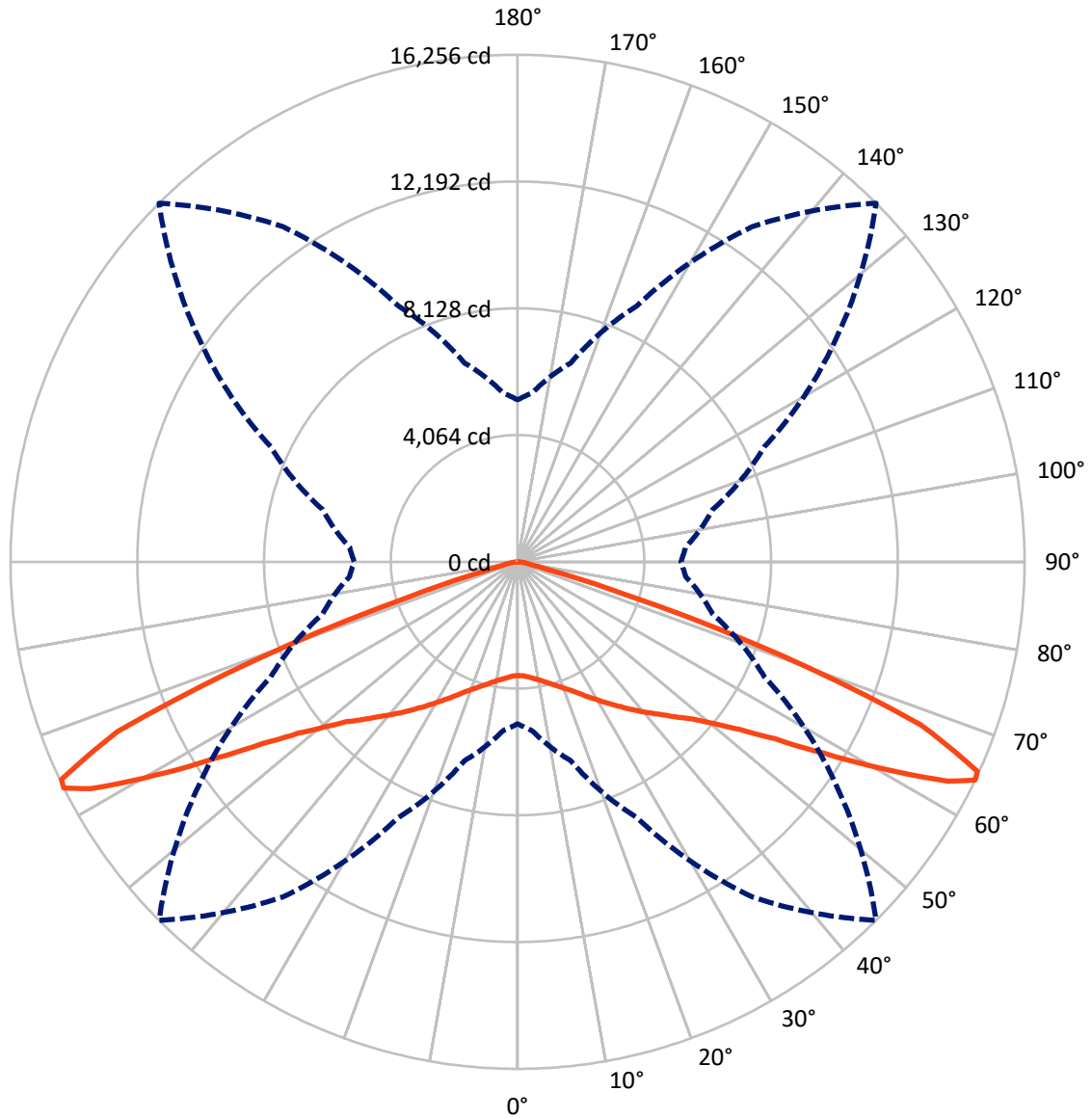
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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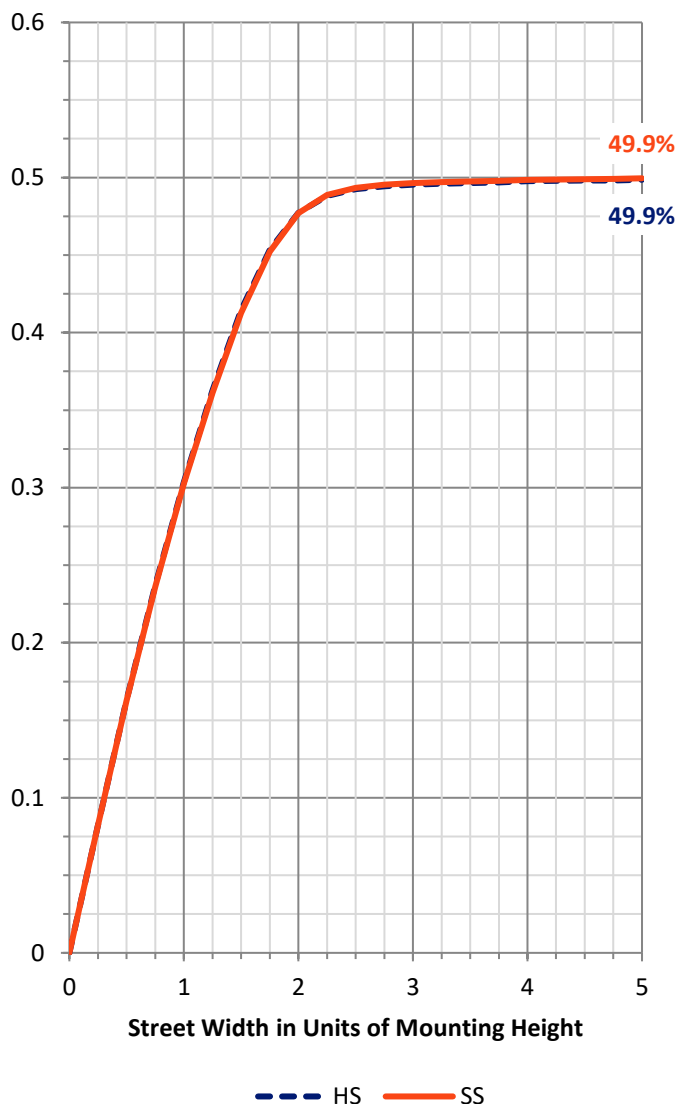
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15088.0	0.0	15088.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15088.0	0.0	15088.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30176.0	0.0	30176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.3	1.2
10°-20°	1155.8	3.8
20°-30°	2184.2	7.2
30°-40°	3617.2	12.0
40°-50°	5647.1	18.7
50°-60°	8730.2	28.9
60°-70°	7528.0	24.9
70°-80°	853.1	2.8
80°-90°	102.2	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°	30176.0	100.0
0°-180°	30176.0	100.0

Coefficient of Utilization

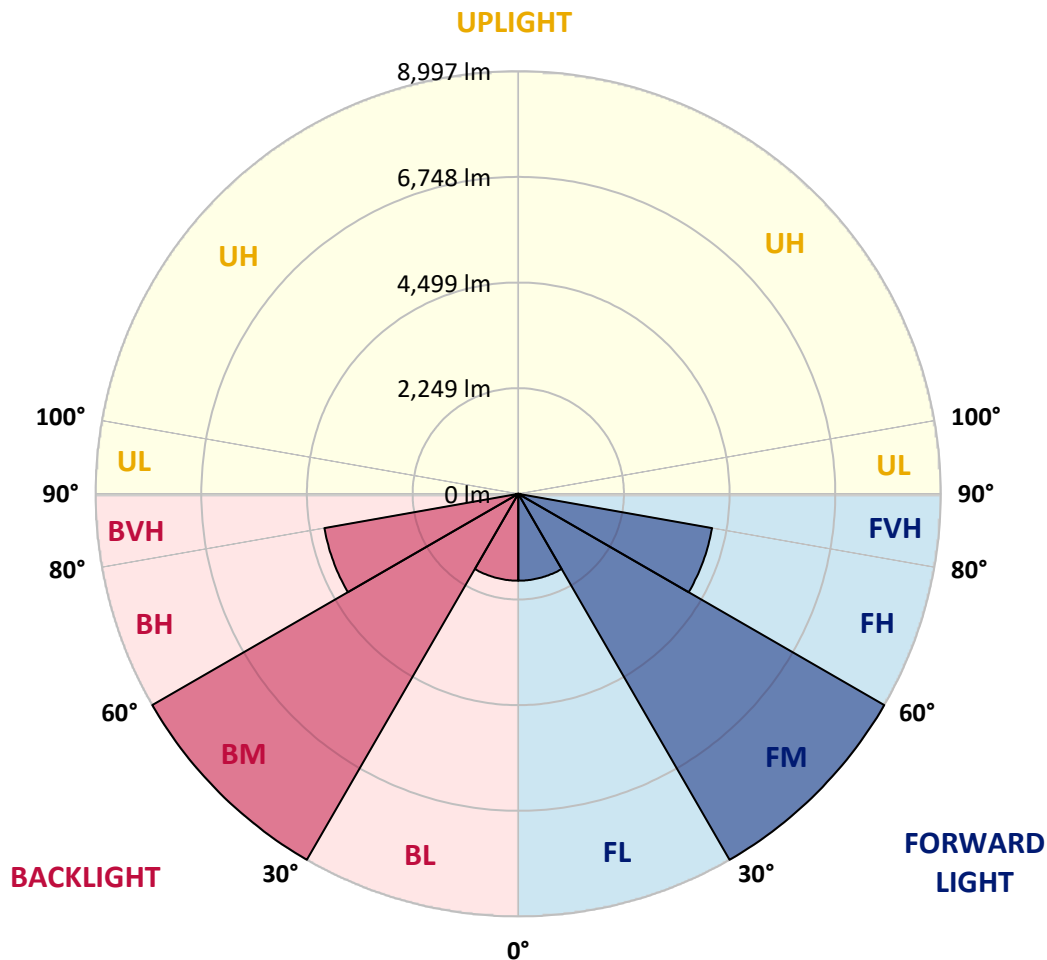


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1849.1	6.1			
FM (30°-60°)	8997.2	29.8			
FH (60°-80°)	4190.5	13.9			G2/5000
FVH (80°-90°)	51.1	0.2			G1/100
BL (0°-30°)	1849.1	6.1	B3/2500		
BM (30°-60°)	8997.2	29.8	B5		
BH (60°-80°)	4190.5	13.9	B4/5000		G2/5000
BVH (80°-90°)	51.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3647.3	3647.3	3647.3	3647.3	3647.3	3647.3	3647.3	3647.3	3647.3	3647.3	3647.3
2.5°	3661.7	3669.7	3663.3	3661.7	3660.1	3660.1	3660.1	3661.7	3668.0	3672.8	3669.7
5°	3708.1	3714.4	3711.2	3709.6	3708.1	3709.6	3706.4	3704.8	3709.6	3709.6	3708.1
7.5°	3765.5	3773.5	3770.4	3773.5	3775.2	3776.7	3768.7	3762.4	3760.7	3765.5	3762.4
10°	3843.9	3850.2	3851.9	3853.5	3856.7	3855.0	3845.5	3834.3	3832.7	3831.1	3829.5
12.5°	3931.8	3936.5	3938.2	3944.6	3949.4	3950.9	3939.7	3930.2	3914.2	3917.4	3911.0
15°	4030.9	4040.4	4038.9	4048.4	4061.3	4064.4	4053.3	4037.2	4022.9	4014.9	4010.1
17.5°	4152.3	4158.7	4155.5	4165.1	4181.1	4189.1	4179.5	4158.7	4144.3	4126.8	4117.2
20°	4296.2	4307.4	4310.6	4310.6	4325.0	4333.0	4318.6	4312.1	4289.8	4277.0	4269.0
22.5°	4459.2	4464.0	4473.6	4483.1	4497.6	4494.3	4489.6	4480.0	4459.2	4448.0	4435.2
25°	4643.0	4647.8	4671.8	4692.6	4697.4	4694.2	4687.7	4683.0	4663.8	4638.2	4628.6
27.5°	4857.2	4866.7	4898.8	4917.9	4917.9	4919.5	4906.7	4922.7	4881.1	4850.8	4847.6
30°	5125.7	5132.1	5159.3	5178.4	5168.8	5160.8	5157.6	5173.7	5128.9	5074.5	5061.8
32.5°	5391.0	5413.3	5437.4	5478.9	5445.4	5431.0	5427.8	5439.0	5387.8	5327.1	5309.5
35°	5675.5	5691.5	5736.3	5771.4	5741.0	5707.4	5721.9	5757.0	5696.2	5614.7	5611.6
37.5°	5990.3	6004.7	6062.3	6099.0	6076.7	6019.2	6043.1	6084.7	6023.9	5923.2	5902.5
40°	6318.0	6348.4	6420.3	6458.7	6421.9	6345.2	6389.9	6434.7	6380.4	6263.7	6217.3
42.5°	6685.6	6733.6	6837.5	6856.7	6786.3	6682.4	6760.7	6832.7	6794.3	6660.0	6642.5
45°	7115.6	7144.3	7272.2	7313.8	7216.3	7086.8	7184.3	7315.3	7286.6	7131.6	7098.0
47.5°	7596.7	7623.8	7756.5	7818.8	7695.7	7521.5	7697.4	7868.4	7850.7	7684.5	7668.5
50°	8165.6	8172.0	8355.8	8426.2	8303.1	8152.8	8309.5	8522.0	8451.7	8239.1	8236.0
52.5°	8788.9	8796.9	9028.7	9164.5	9095.8	8926.4	9111.8	9241.3	9062.3	8784.2	8763.4
55°	9329.2	9369.1	9685.6	10046.8	10141.1	10018.0	10074.0	10013.2	9572.1	9182.2	9121.4
57.5°	9549.7	9628.1	10109.2	10783.6	11397.3	11579.6	11148.0	10569.5	9775.1	9223.7	9164.5
60°	9011.2	9095.8	9842.2	11122.4	12688.7	13479.9	12266.8	10663.8	9313.2	8538.0	8445.4
62.5°	7216.3	7240.2	8338.2	10324.9	13441.5	15490.6	12738.3	9859.8	7969.1	6915.8	6879.0
64°	5192.9	5439.0	6602.5	9052.7	13112.3	16256.1	12466.6	8733.0	6473.1	5407.0	5234.4
65°	3883.8	3950.9	5322.3	7730.9	12532.1	16198.6	11939.2	7655.8	5360.7	4137.9	3946.2
67.5°	1467.2	1475.3	1964.3	3853.5	8921.6	13937.0	9111.8	4165.1	2258.4	1633.4	1574.3
70°	608.9	620.1	720.8	1296.2	3834.3	8948.8	4393.6	1502.4	826.3	669.7	660.1
72.5°	445.9	452.3	482.7	575.3	1179.5	3674.5	1444.9	637.8	484.3	433.2	428.3
75°	350.0	353.2	375.6	423.5	549.8	1018.1	601.0	437.9	369.2	332.5	329.3
77.5°	266.9	274.9	290.9	322.8	369.2	482.7	398.0	327.7	284.5	254.2	249.3
80°	183.8	193.4	223.8	236.5	247.7	313.3	271.7	247.7	222.1	185.4	174.2
82.5°	113.5	119.9	150.3	161.5	156.6	175.8	174.2	177.4	158.2	115.1	107.1
85°	59.1	62.3	81.5	84.7	78.3	72.0	89.5	103.9	97.5	65.5	63.9
87.5°	12.8	14.4	17.6	16.0	17.6	17.6	22.4	33.6	35.2	22.4	20.7
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)