

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: P457297

Luminaire Tested: **GALN-SA8C-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457297
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-SA8C-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43678 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

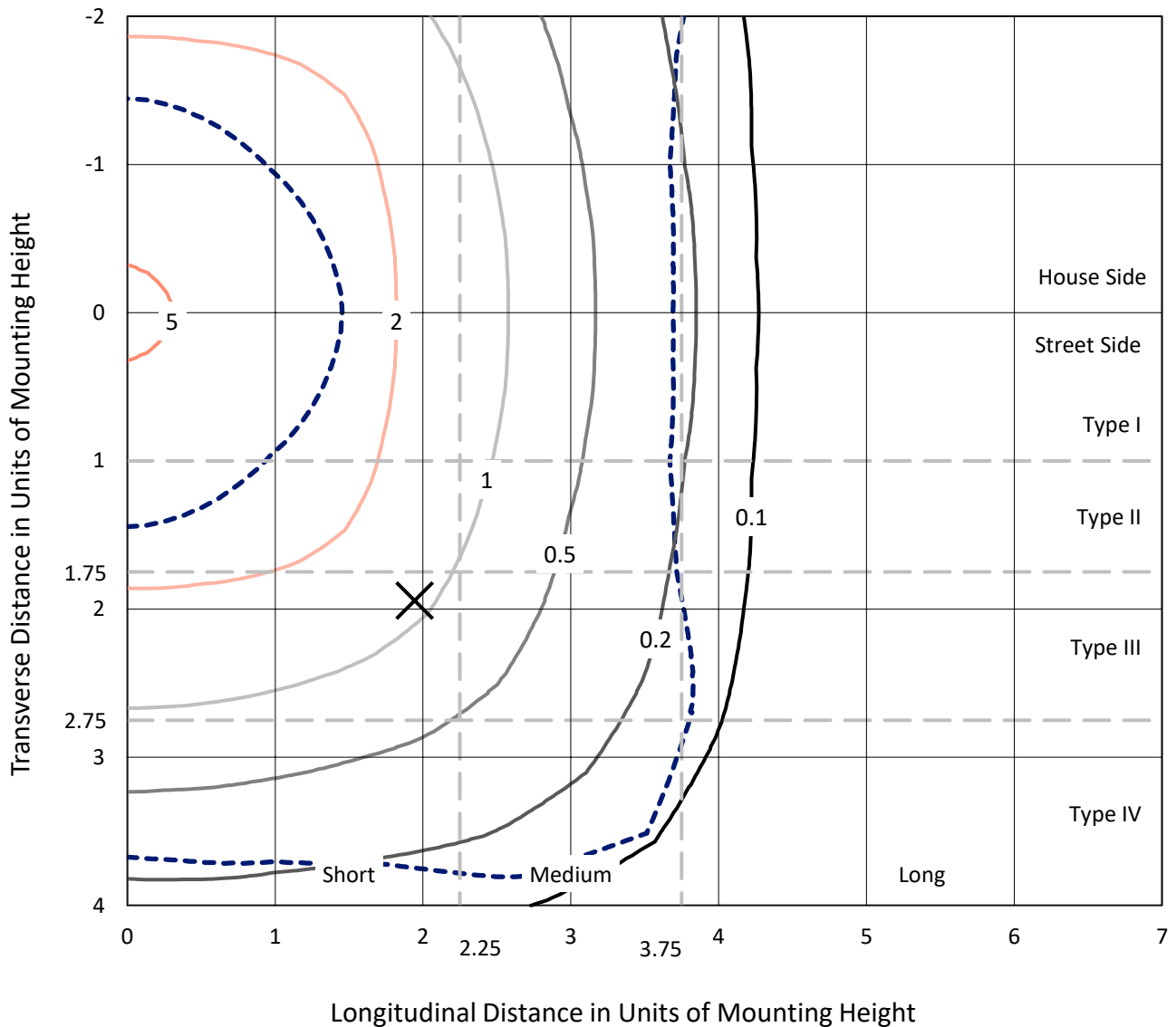
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457297
 CATALOG NUMBER: GALN-SA8C-827-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

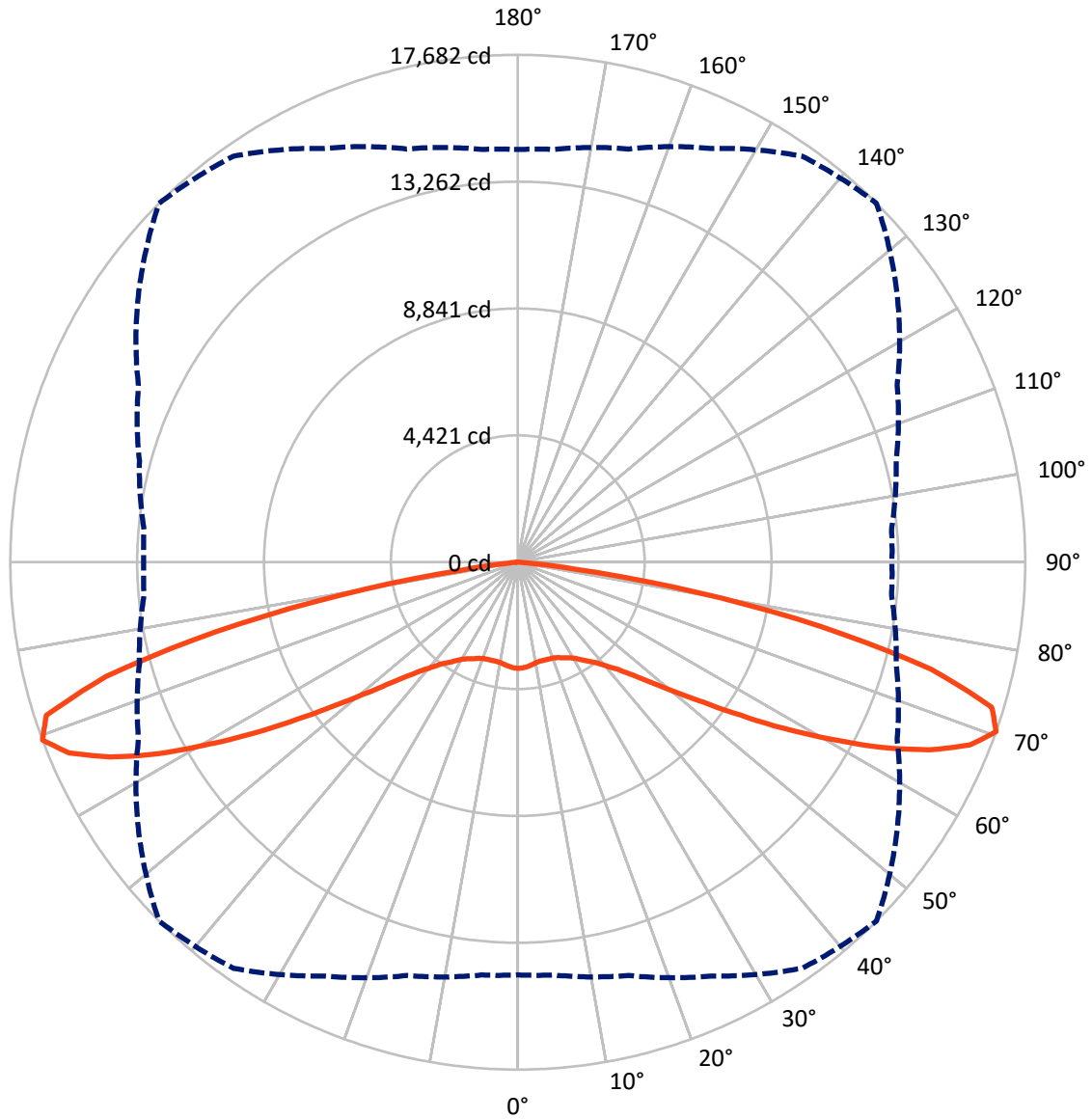
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

REPORT NUMBER: P457297
CATALOG NUMBER: GALN-SA8C-827-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P457297

CATALOG NUMBER: GALN-SA8C-827-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21839.0	0.0	21839.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21839.0	0.0	21839.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	43678.0	0.0	43678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.8	0.8
10°-20°	1012.4	2.3
20°-30°	1724.9	3.9
30°-40°	2673.6	6.1
40°-50°	4500.0	10.3
50°-60°	8187.6	18.7
60°-70°	13861.4	31.7
70°-80°	10729.3	24.6
80°-90°	642.9	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°	43678.0	100.0
0°-180°	43678.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457297

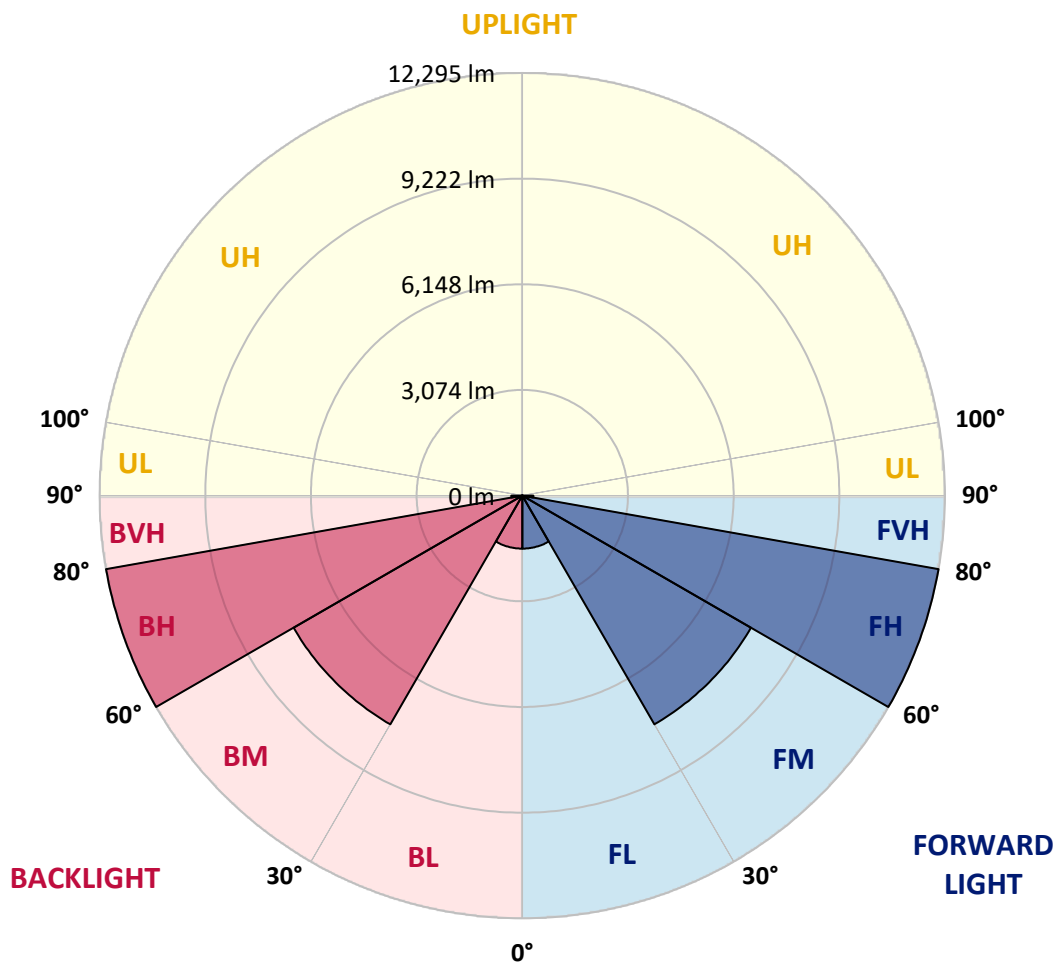
CATALOG NUMBER: GALN-SA8C-827-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1541.6	3.5			
FM (30°-60°)	7680.6	17.6			
FH (60°-80°)	12295.3	28.1			G5
FVH (80°-90°)	321.5	0.7			G3/500
BL (0°-30°)	1541.6	3.5	B3/2500		
BM (30°-60°)	7680.6	17.6	B4/8500		
BH (60°-80°)	12295.3	28.1	B5		G5
BVH (80°-90°)	321.5	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°	3697.9	3697.9	3697.9	3697.9	3697.9	3697.9	3697.9	3697.9	3697.9	3697.9	3697.9
2.5°	3688.7	3691.0	3691.0	3686.3	3684.0	3684.0	3681.7	3681.7	3688.7	3691.0	3693.3
5°	3656.4	3656.4	3656.4	3654.0	3649.4	3649.4	3644.8	3644.8	3647.1	3654.0	3649.4
7.5°	3612.5	3617.1	3617.1	3607.9	3601.0	3601.0	3598.7	3601.0	3603.3	3610.2	3607.9
10°	3598.7	3601.0	3589.5	3573.3	3561.8	3554.9	3557.2	3561.8	3573.3	3577.9	3580.2
12.5°	3607.9	3607.9	3587.1	3564.1	3543.3	3534.1	3531.8	3547.9	3568.7	3582.5	3587.1
15°	3619.4	3614.8	3589.5	3559.5	3538.7	3536.4	3534.1	3545.6	3575.6	3603.3	3605.6
17.5°	3626.4	3624.1	3591.8	3554.9	3543.3	3543.3	3541.0	3550.2	3582.5	3617.1	3619.4
20°	3649.4	3642.5	3605.6	3566.4	3557.2	3561.8	3554.9	3566.4	3601.0	3642.5	3651.7
22.5°	3695.6	3688.7	3651.7	3612.5	3607.9	3607.9	3605.6	3617.1	3654.0	3697.9	3704.8
25°	3750.9	3744.0	3709.4	3681.7	3686.3	3695.6	3691.0	3693.3	3723.3	3760.2	3771.7
27.5°	3824.8	3813.2	3783.2	3760.2	3774.0	3774.0	3774.0	3771.7	3790.2	3824.8	3836.3
30°	3914.7	3910.1	3877.8	3875.5	3887.0	3875.5	3875.5	3877.8	3880.1	3912.4	3923.9
32.5°	4032.4	4023.1	4007.0	4002.4	4034.7	4043.9	4011.6	3981.6	3997.8	4030.1	4037.0
35°	4226.1	4212.3	4189.2	4163.9	4189.2	4233.1	4163.9	4140.8	4182.3	4226.1	4230.8
37.5°	4489.1	4482.2	4445.3	4399.2	4396.9	4443.0	4371.5	4369.2	4447.6	4500.7	4507.6
40°	4819.0	4825.9	4779.8	4736.0	4712.9	4749.8	4694.4	4715.2	4791.3	4851.3	4846.7
42.5°	5282.7	5257.3	5185.8	5144.3	5118.9	5105.1	5091.2	5123.5	5208.9	5273.5	5324.2
45°	5824.8	5815.6	5725.6	5674.8	5619.5	5598.7	5594.1	5651.8	5755.6	5834.0	5840.9
47.5°	6438.4	6417.7	6360.0	6306.9	6286.2	6260.8	6237.7	6281.5	6385.4	6440.7	6456.9
50°	7070.5	7075.1	7075.1	7065.9	7086.6	7091.3	7029.0	7045.1	7102.8	7098.2	7093.6
52.5°	7792.5	7817.9	7937.9	7949.4	8048.6	8115.5	8002.5	7935.6	7914.8	7790.2	7799.5
55°	8641.5	8664.5	8844.5	9024.4	9292.0	9405.0	9167.4	8959.8	8812.2	8623.0	8632.2
57.5°	9700.3	9711.8	9882.5	10228.6	10653.0	10918.3	10500.8	10090.2	9790.3	9610.3	9538.8
60°	10839.9	10851.4	11100.6	11522.7	12182.5	12505.4	11988.7	11317.4	10939.1	10664.6	10683.0
62.5°	12207.8	12254.0	12477.7	13059.1	13859.5	14221.7	13536.6	12639.2	12127.1	11785.7	11799.5
65°	13672.7	13751.1	13995.6	14634.6	15372.8	15762.7	14923.0	13887.2	13250.5	12833.0	12876.8
67.5°	14623.1	14692.3	15045.3	15751.2	16671.6	16994.6	15910.3	14703.9	13908.0	13409.7	13317.4
70°	14380.9	14438.6	14909.2	15910.3	17273.7	17682.0	16145.6	14583.9	13647.3	13072.9	13036.0
72.5°	12694.6	12574.6	13262.1	14699.2	16586.2	17271.4	15405.1	13319.7	12140.9	11550.4	11481.2
75°	8413.1	8673.7	9688.8	11382.0	14032.6	14881.5	13149.0	10694.5	9211.2	8719.9	8643.8
77.5°	2812.0	3012.7	3914.7	6452.3	9566.5	10842.2	9580.3	6994.4	4948.2	3986.2	4004.7
80°	745.1	735.9	952.7	1774.0	4133.9	6279.2	4812.1	2369.1	1296.4	938.9	890.4
82.5°	267.6	299.9	385.2	491.4	1095.8	1951.6	1377.2	664.4	486.7	359.9	348.3
85°	117.6	115.3	166.1	196.1	274.5	364.5	323.0	281.4	246.8	163.8	152.3
87.5°	25.4	25.4	39.2	30.0	48.4	48.4	60.0	71.5	73.8	48.4	39.2
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)