

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: P452656

Luminaire Tested: **GALN-SA3C-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452656
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-SA3C-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16101 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

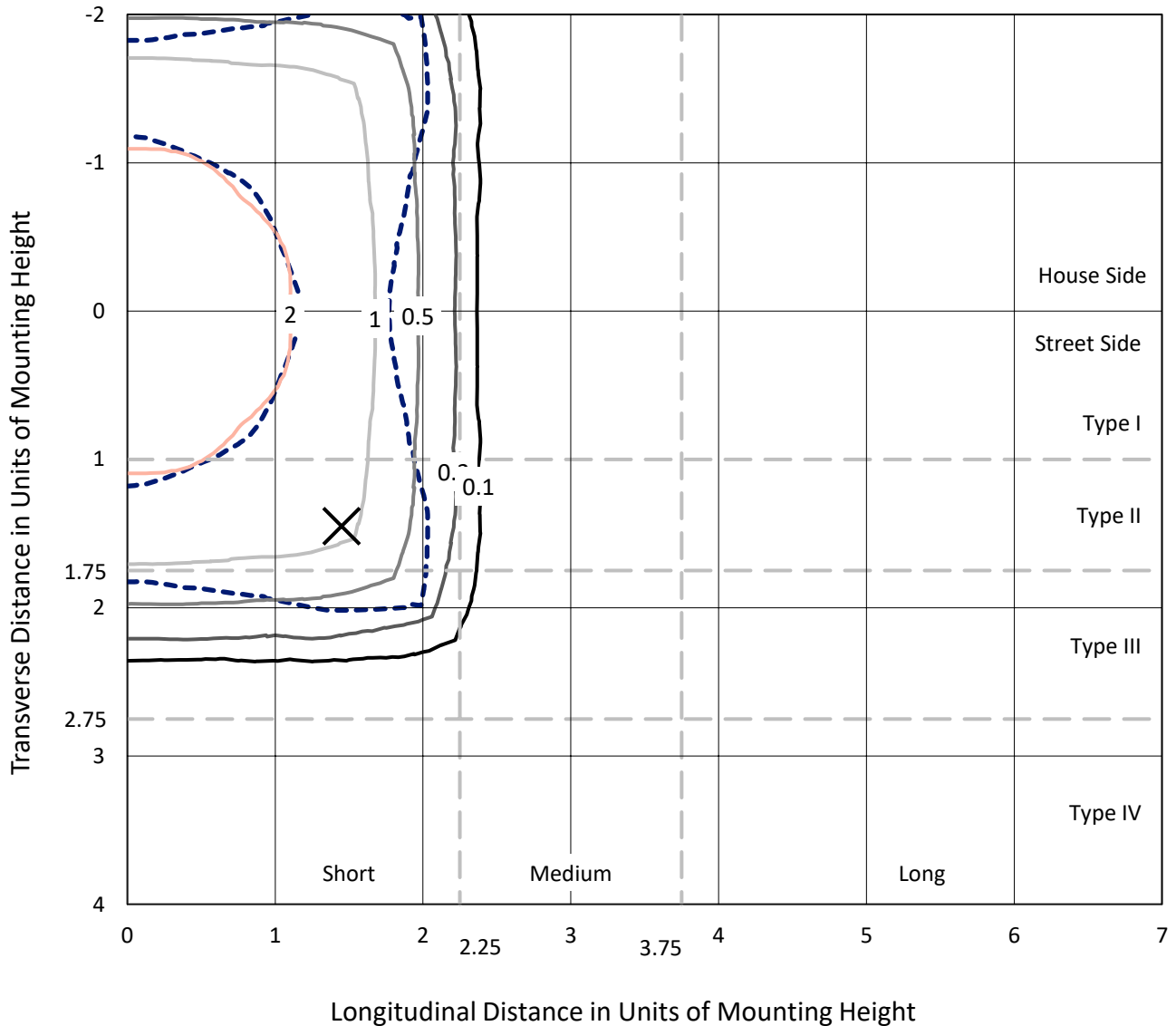
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452656
 CATALOG NUMBER: GALN-SA3C-827-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

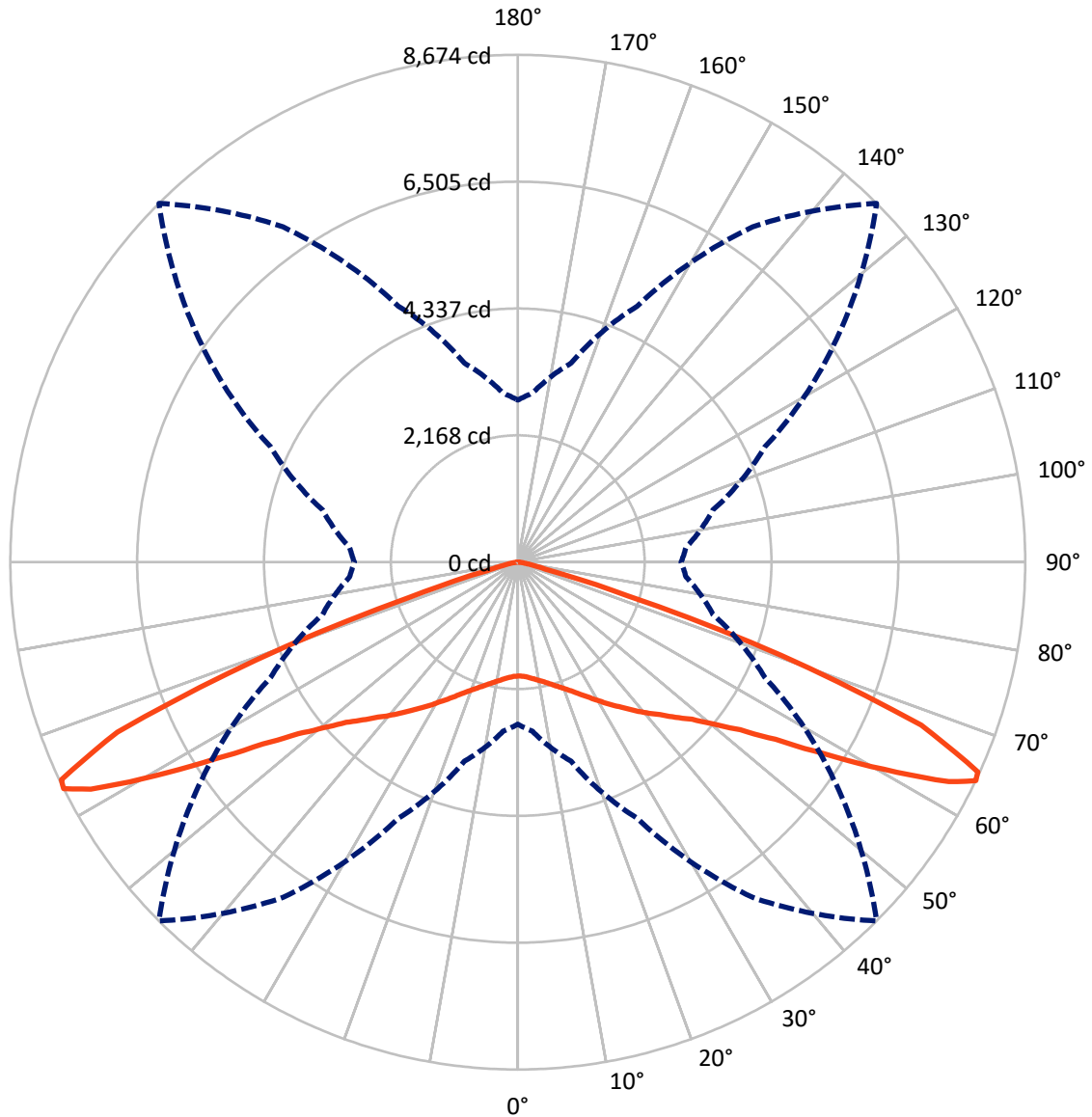
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

REPORT NUMBER: P452656
CATALOG NUMBER: GALN-SA3C-827-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P452656

CATALOG NUMBER: GALN-SA3C-827-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8050.5	0.0	8050.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8050.5	0.0	8050.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16101.0	0.0	16101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	1.2
10°-20°	616.7	3.8
20°-30°	1165.4	7.2
30°-40°	1930.0	12.0
40°-50°	3013.1	18.7
50°-60°	4658.2	28.9
60°-70°	4016.7	24.9
70°-80°	455.2	2.8
80°-90°	54.5	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°	16101.0	100.0
0°-180°	16101.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452656

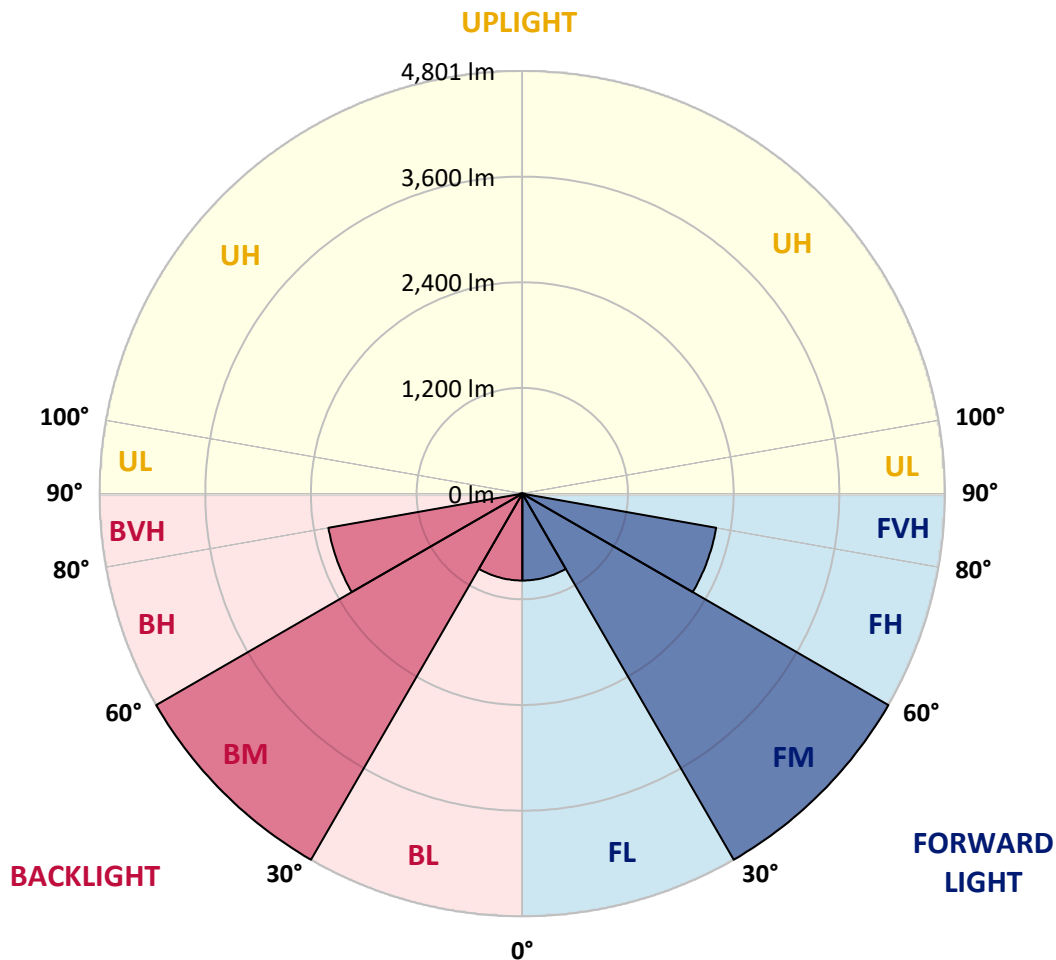
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	986.6	6.1			
FM	(30°-60°)	4800.6	29.8			
FH	(60°-80°)	2235.9	13.9			G2/5000
FVH	(80°-90°)	27.3	0.2			G1/100
BL	(0°-30°)	986.6	6.1	B2/1000		
BM	(30°-60°)	4800.6	29.8	B3/5000		
BH	(60°-80°)	2235.9	13.9	B3/2500		G2/5000
BVH	(80°-90°)	27.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





REPORT NUMBER: P452656

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1
2.5°	1953.8	1958.0	1954.6	1953.8	1952.9	1952.9	1952.9	1953.8	1957.2	1959.7	1958.0
5°	1978.5	1981.9	1980.2	1979.3	1978.5	1979.3	1977.6	1976.8	1979.3	1979.3	1978.5
7.5°	2009.2	2013.4	2011.7	2013.4	2014.3	2015.2	2010.9	2007.5	2006.6	2009.2	2007.5
10°	2051.0	2054.4	2055.2	2056.1	2057.8	2056.9	2051.8	2045.9	2045.0	2044.1	2043.3
12.5°	2097.9	2100.4	2101.3	2104.7	2107.3	2108.1	2102.1	2097.0	2088.5	2090.2	2086.8
15°	2150.7	2155.9	2155.0	2160.1	2167.0	2168.7	2162.7	2154.2	2146.5	2142.2	2139.7
17.5°	2215.6	2219.0	2217.3	2222.4	2230.9	2235.2	2230.1	2219.0	2211.3	2201.9	2196.8
20°	2292.3	2298.3	2300.0	2300.0	2307.7	2311.9	2304.3	2300.8	2288.9	2282.1	2277.8
22.5°	2379.3	2381.9	2387.0	2392.1	2399.8	2398.1	2395.5	2390.4	2379.3	2373.3	2366.5
25°	2477.4	2479.9	2492.7	2503.8	2506.4	2504.7	2501.2	2498.7	2488.5	2474.8	2469.7
27.5°	2591.6	2596.8	2613.8	2624.0	2624.0	2624.9	2618.1	2626.6	2604.4	2588.2	2586.5
30°	2734.9	2738.3	2752.8	2763.1	2757.9	2753.7	2752.0	2760.5	2736.6	2707.6	2700.8
32.5°	2876.5	2888.4	2901.2	2923.4	2905.5	2897.8	2896.1	2902.1	2874.8	2842.4	2833.0
35°	3028.3	3036.8	3060.7	3079.4	3063.2	3045.3	3053.0	3071.8	3039.4	2995.9	2994.2
37.5°	3196.3	3203.9	3234.6	3254.3	3242.3	3211.6	3224.4	3246.6	3214.2	3160.5	3149.4
40°	3371.1	3387.3	3425.7	3446.1	3426.5	3385.6	3409.5	3433.3	3404.4	3342.1	3317.4
42.5°	3567.2	3592.8	3648.3	3658.5	3621.0	3565.5	3607.3	3645.7	3625.2	3553.6	3544.2
45°	3796.6	3812.0	3880.2	3902.4	3850.4	3781.3	3833.3	3903.2	3887.9	3805.2	3787.3
47.5°	4053.3	4067.8	4138.6	4171.9	4106.2	4013.2	4107.1	4198.3	4188.9	4100.2	4091.7
50°	4356.9	4360.3	4458.4	4495.9	4430.3	4350.1	4433.7	4547.1	4509.6	4396.2	4394.4
52.5°	4689.5	4693.8	4817.4	4889.9	4853.3	4762.9	4861.8	4930.9	4835.3	4687.0	4675.9
55°	4977.8	4999.1	5167.9	5360.7	5411.0	5345.3	5375.2	5342.8	5107.4	4899.3	4866.9
57.5°	5095.4	5137.2	5393.9	5753.8	6081.3	6178.5	5948.2	5639.5	5215.7	4921.5	4889.9
60°	4808.1	4853.3	5251.5	5934.6	6770.3	7192.5	6545.2	5689.8	4969.2	4555.6	4506.2
62.5°	3850.4	3863.2	4449.0	5509.1	7172.0	8265.3	6796.8	5260.9	4252.0	3690.0	3670.4
64°	2770.7	2902.1	3522.9	4830.2	6996.3	8673.8	6651.8	4659.7	3453.8	2885.0	2792.9
65°	2072.3	2108.1	2839.8	4125.0	6686.8	8643.1	6370.4	4084.9	2860.3	2207.9	2105.5
67.5°	782.9	787.1	1048.1	2056.1	4760.3	7436.4	4861.8	2222.4	1205.0	871.6	840.0
70°	324.9	330.9	384.6	691.6	2045.9	4774.8	2344.3	801.6	440.9	357.3	352.2
72.5°	237.9	241.3	257.5	307.0	629.4	1960.6	770.9	340.3	258.4	231.1	228.5
75°	186.8	188.5	200.4	226.0	293.4	543.2	320.7	233.7	197.0	177.4	175.7
77.5°	142.4	146.7	155.2	172.3	197.0	257.5	212.3	174.8	151.8	135.6	133.0
80°	98.1	103.2	119.4	126.2	132.2	167.1	145.0	132.2	118.5	98.9	93.0
82.5°	60.5	64.0	80.2	86.1	83.6	93.8	93.0	94.7	84.4	61.4	57.1
85°	31.6	33.3	43.5	45.2	41.8	38.4	47.8	55.4	52.0	35.0	34.1
87.5°	6.8	7.7	9.4	8.5	9.4	9.4	11.9	17.9	18.8	11.9	11.1
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)