

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: P456831

Luminaire Tested: **GALN-SA8A-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28472 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

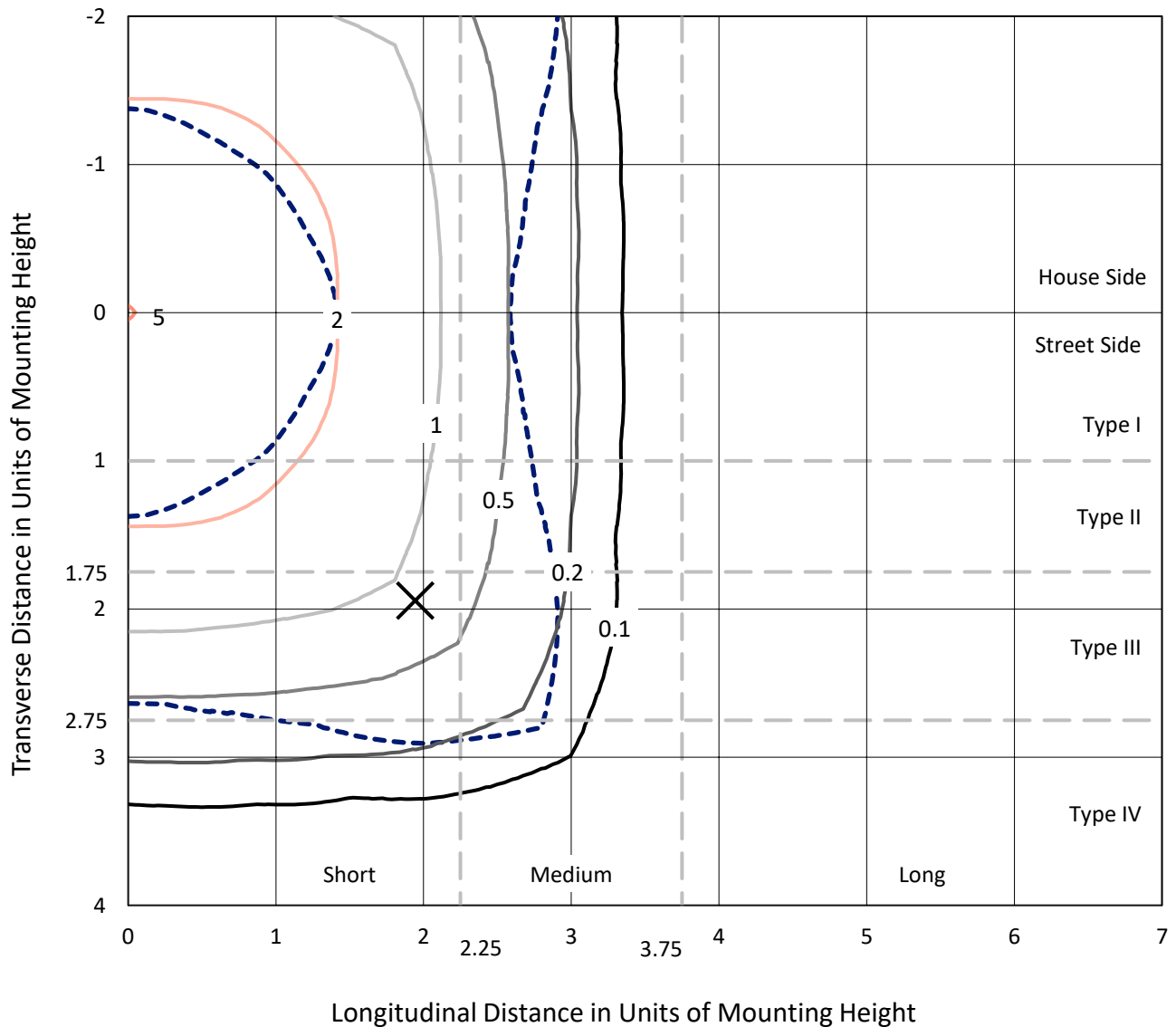
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456831
 CATALOG NUMBER: GALN-SA8A-827-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

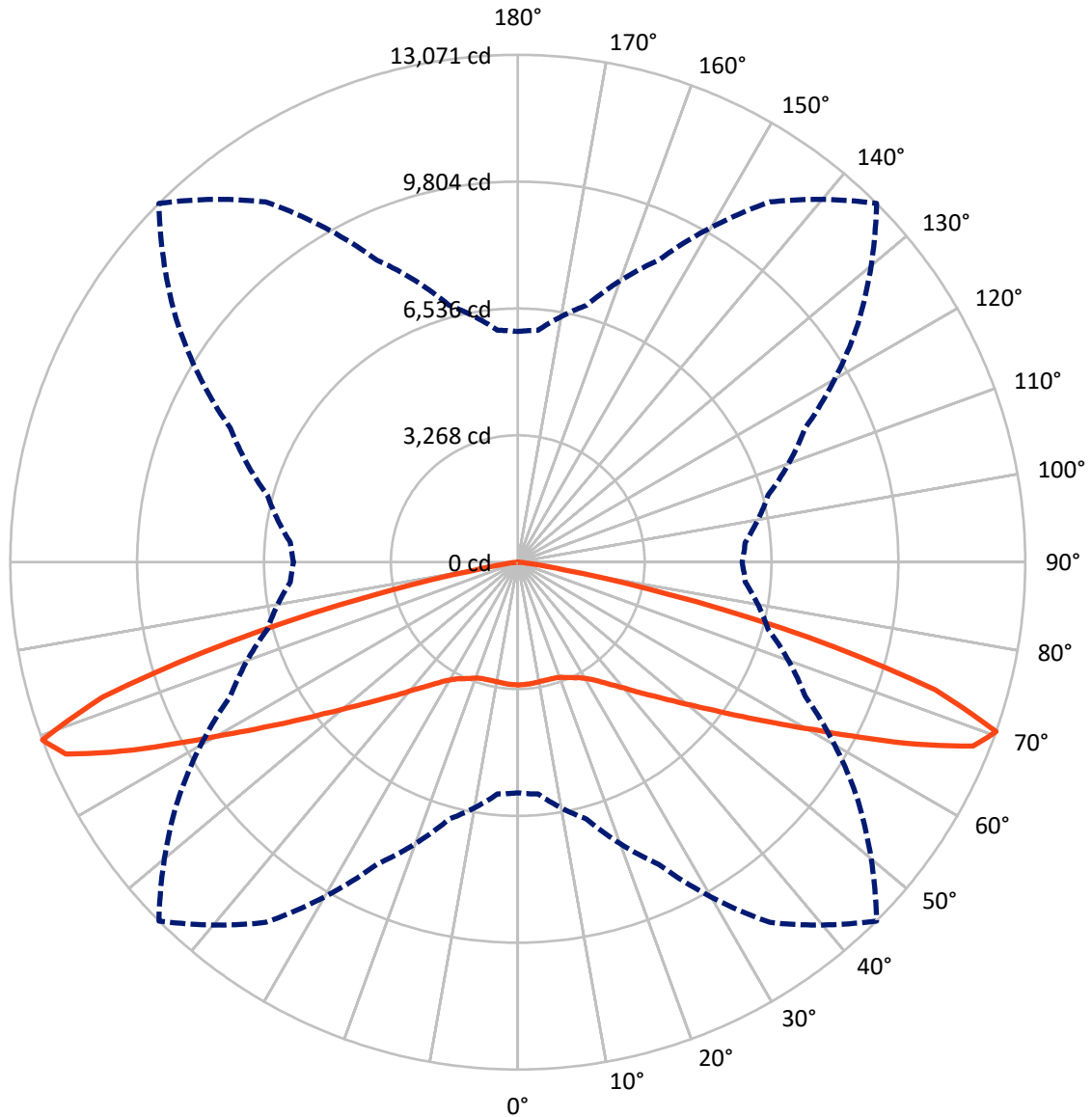
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

REPORT NUMBER: P456831
CATALOG NUMBER: GALN-SA8A-827-U-5MQ

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA8A-827-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14236.0	0.0	14236.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14236.0	0.0	14236.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28472.0	0.0	28472.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.8	1.1
10°-20°	879.8	3.1
20°-30°	1504.7	5.3
30°-40°	2388.3	8.4
40°-50°	3853.0	13.5
50°-60°	6268.9	22.0
60°-70°	9087.6	31.9
70°-80°	4030.9	14.2
80°-90°	159.0	0.6
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°	28472.0	100.0
0°-180°	28472.0	100.0



REPORT NUMBER: P456831

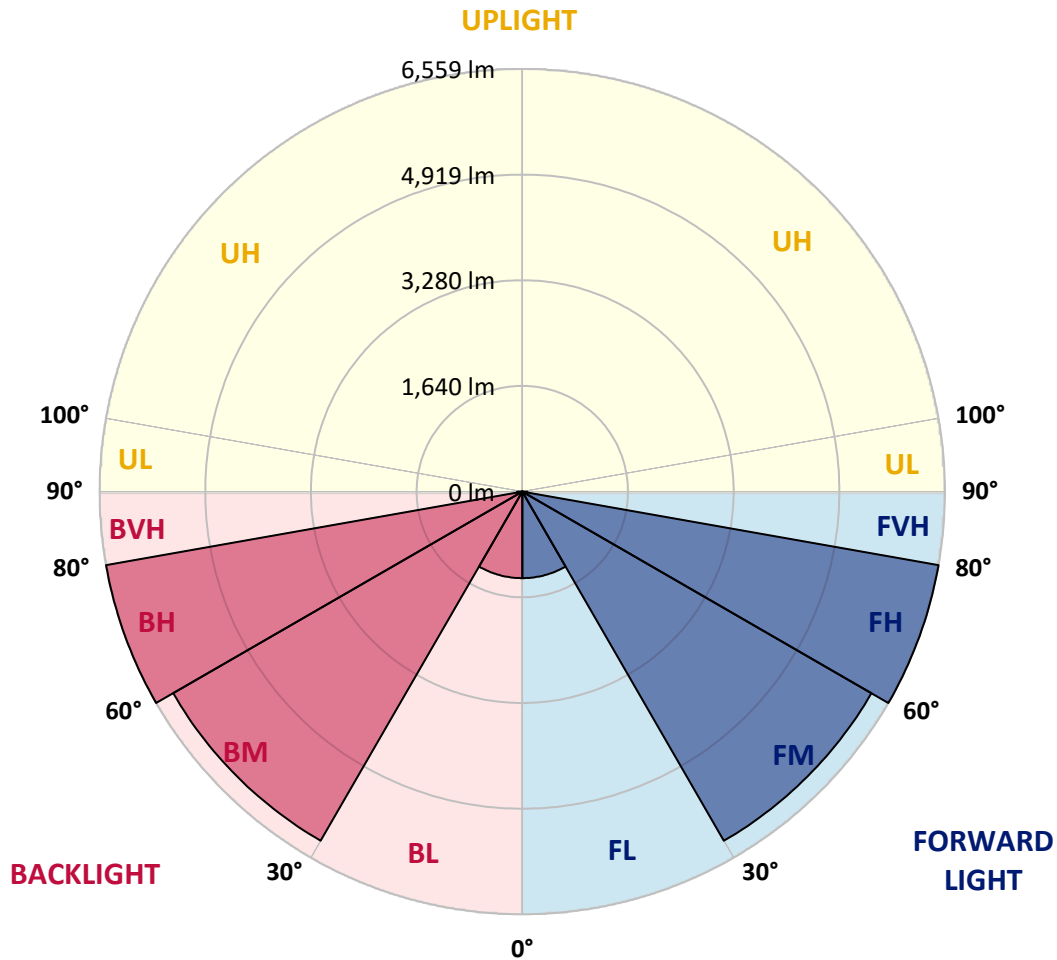
CATALOG NUMBER: GALN-SA8A-827-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1342.2	4.7			
FM (30°-60°)	6255.1	22.0			
FH (60°-80°)	6559.3	23.0			G3/7500
FVH (80°-90°)	79.5	0.3			G1/100
BL (0°-30°)	1342.2	4.7	B3/2500		
BM (30°-60°)	6255.1	22.0	B4/8500		
BH (60°-80°)	6559.3	23.0	B5		G3/7500
BVH (80°-90°)	79.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P456831

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7	3161.7
2.5°	3161.7	3164.7	3160.2	3157.2	3155.7	3155.7	3154.2	3155.7	3164.7	3166.2	3161.7
5°	3152.7	3155.7	3154.2	3151.2	3149.7	3149.7	3148.2	3146.7	3154.2	3157.2	3155.7
7.5°	3140.7	3142.2	3140.7	3139.2	3140.7	3139.2	3134.7	3131.7	3137.7	3137.7	3136.2
10°	3119.7	3122.7	3121.2	3122.7	3125.7	3125.7	3119.7	3113.7	3115.2	3112.2	3112.2
12.5°	3094.2	3098.7	3100.2	3106.2	3113.7	3122.7	3109.2	3095.7	3092.7	3091.2	3089.7
15°	3077.7	3082.2	3088.2	3094.2	3107.7	3127.2	3107.7	3086.7	3080.7	3074.6	3071.6
17.5°	3073.1	3079.2	3088.2	3097.2	3115.2	3134.7	3118.2	3097.2	3082.2	3073.1	3070.1
20°	3085.2	3089.7	3103.2	3119.7	3145.2	3164.7	3148.2	3125.7	3103.2	3089.7	3085.2
22.5°	3109.2	3116.7	3133.2	3163.2	3199.2	3227.7	3205.2	3167.7	3131.7	3113.7	3107.7
25°	3161.7	3167.7	3187.2	3227.7	3269.7	3296.7	3272.7	3229.2	3179.7	3155.7	3148.2
27.5°	3241.2	3250.2	3271.2	3319.2	3353.8	3368.8	3352.3	3322.2	3286.2	3260.7	3254.7
30°	3353.8	3364.3	3395.8	3446.8	3469.3	3478.3	3470.8	3451.3	3425.8	3398.8	3392.8
32.5°	3505.3	3511.3	3547.3	3595.3	3616.4	3619.4	3610.3	3601.3	3559.3	3514.3	3511.3
35°	3674.9	3685.4	3728.9	3785.9	3805.4	3806.9	3788.9	3775.4	3725.9	3689.9	3689.9
37.5°	3900.0	3904.5	3946.5	4011.0	4032.0	4026.0	4017.0	4005.0	3952.5	3906.0	3907.5
40°	4164.1	4173.1	4209.1	4284.1	4284.1	4276.6	4282.6	4273.6	4221.1	4176.1	4177.6
42.5°	4477.7	4482.2	4525.7	4605.2	4599.2	4584.2	4590.2	4578.2	4545.2	4494.2	4476.2
45°	4812.3	4830.3	4905.3	4981.9	4969.9	4921.8	4945.8	4942.8	4912.8	4836.3	4840.8
47.5°	5215.9	5246.0	5318.0	5409.5	5396.0	5321.0	5348.0	5366.0	5324.0	5240.0	5225.0
50°	5670.6	5690.1	5796.7	5882.2	5870.2	5790.7	5852.2	5855.2	5750.1	5631.6	5631.6
52.5°	6155.3	6174.8	6318.9	6452.4	6459.9	6344.4	6393.9	6390.9	6219.8	6063.8	6033.8
55°	6698.5	6707.5	6893.6	7090.1	7132.2	7019.6	7025.6	6965.6	6743.5	6562.0	6545.4
57.5°	7259.7	7292.7	7498.3	7753.4	7877.9	7808.9	7777.4	7616.8	7402.3	7193.7	7183.2
60°	7880.9	7882.4	8149.5	8451.2	8703.3	8749.8	8620.7	8406.1	8128.5	7852.4	7840.4
62.5°	8311.6	8376.1	8713.8	9223.9	9675.6	9936.7	9596.1	9145.9	8599.7	8154.0	8109.0
65°	8400.1	8443.7	8958.3	9822.7	10745.5	11308.2	10520.4	9563.1	8631.2	8037.0	8007.0
67.5°	7684.4	7730.9	8424.1	9750.6	11495.8	12649.7	11120.7	9362.0	8097.0	7361.8	7303.2
70°	5943.7	5996.2	6853.1	8583.2	11329.2	13071.4	10693.0	8166.1	6677.5	5883.7	5777.2
72.5°	3160.2	3353.8	4086.0	5891.2	9195.4	11254.2	8767.8	5958.7	4306.6	3520.3	3379.3
75°	1153.9	1177.9	1586.1	2612.5	5349.5	7717.4	5555.1	2842.1	1634.1	1262.0	1197.4
77.5°	477.2	475.7	522.2	789.3	1943.2	3952.5	2168.3	834.3	520.7	481.7	475.7
80°	282.1	282.1	310.6	328.6	511.7	1192.9	571.7	372.1	312.1	285.1	289.6
82.5°	126.0	133.5	196.6	207.1	247.6	327.1	276.1	237.1	204.1	141.1	127.5
85°	69.0	60.0	103.5	108.0	118.5	121.5	130.5	129.0	118.5	69.0	70.5
87.5°	13.5	16.5	30.0	22.5	25.5	22.5	30.0	42.0	43.5	24.0	19.5
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)