

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: P458455

Luminaire Tested: **GALN-SA9D-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458455
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-SA9D-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54071 lumens
Efficiency: N/A
Efficacy: 98.0 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

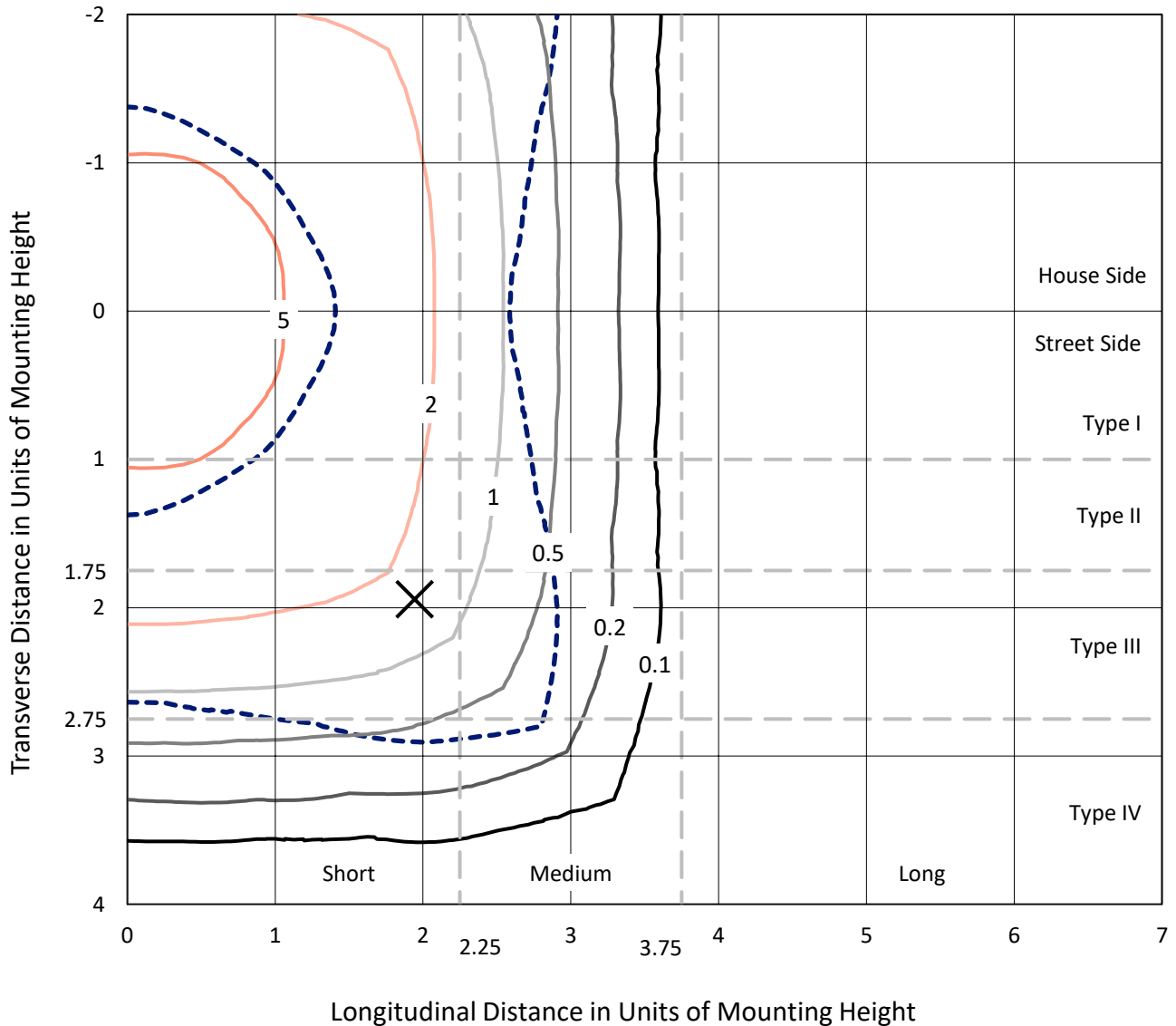
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

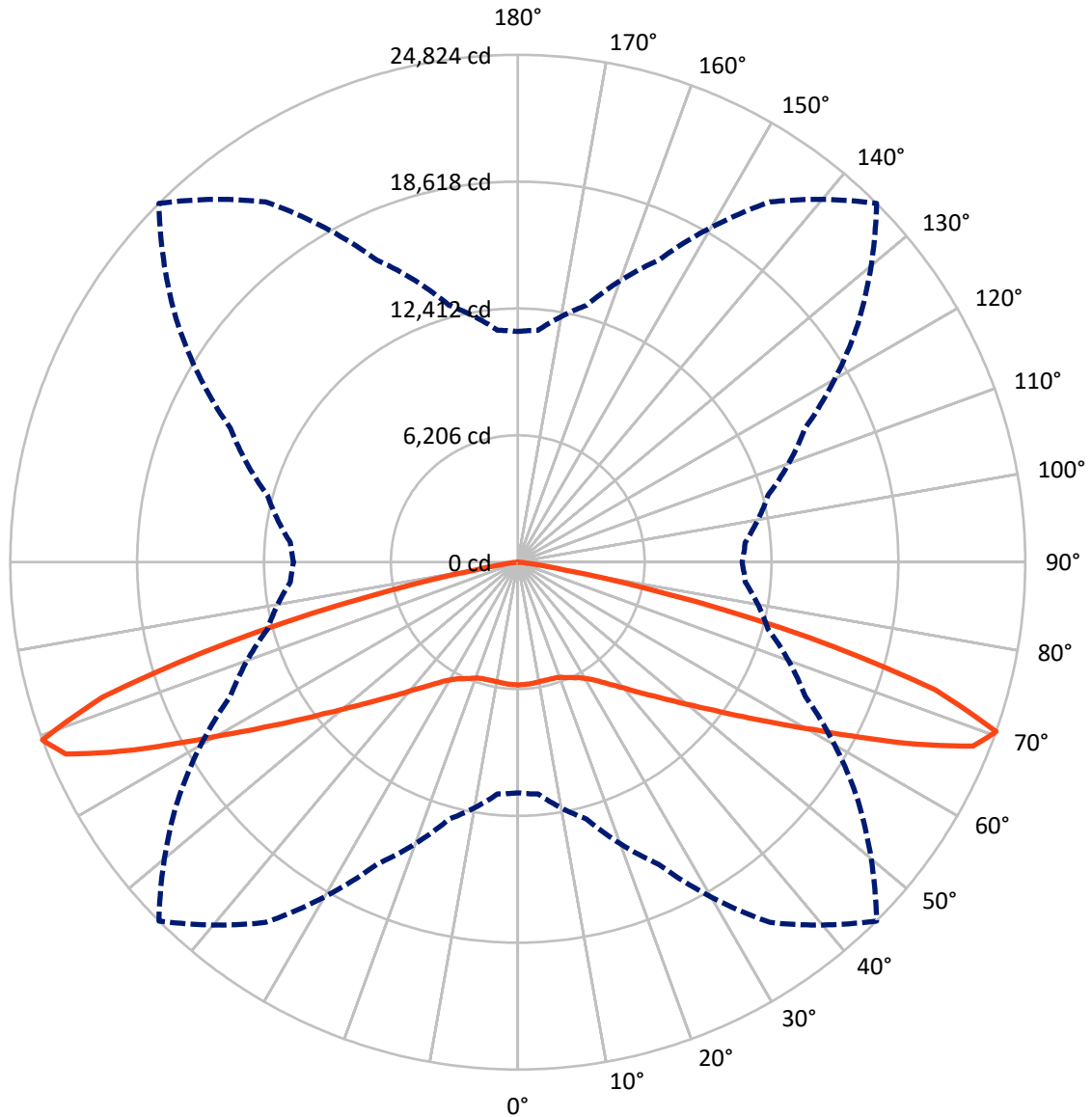
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27035.5	0.0	27035.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27035.5	0.0	27035.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	54071.0	0.0	54071.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.4	1.1
10°-20°	1670.8	3.1
20°-30°	2857.6	5.3
30°-40°	4535.6	8.4
40°-50°	7317.2	13.5
50°-60°	11905.2	22.0
60°-70°	17258.2	31.9
70°-80°	7655.1	14.2
80°-90°	301.9	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°	54071.0	100.0
0°-180°	54071.0	100.0

Coefficient of Utilization



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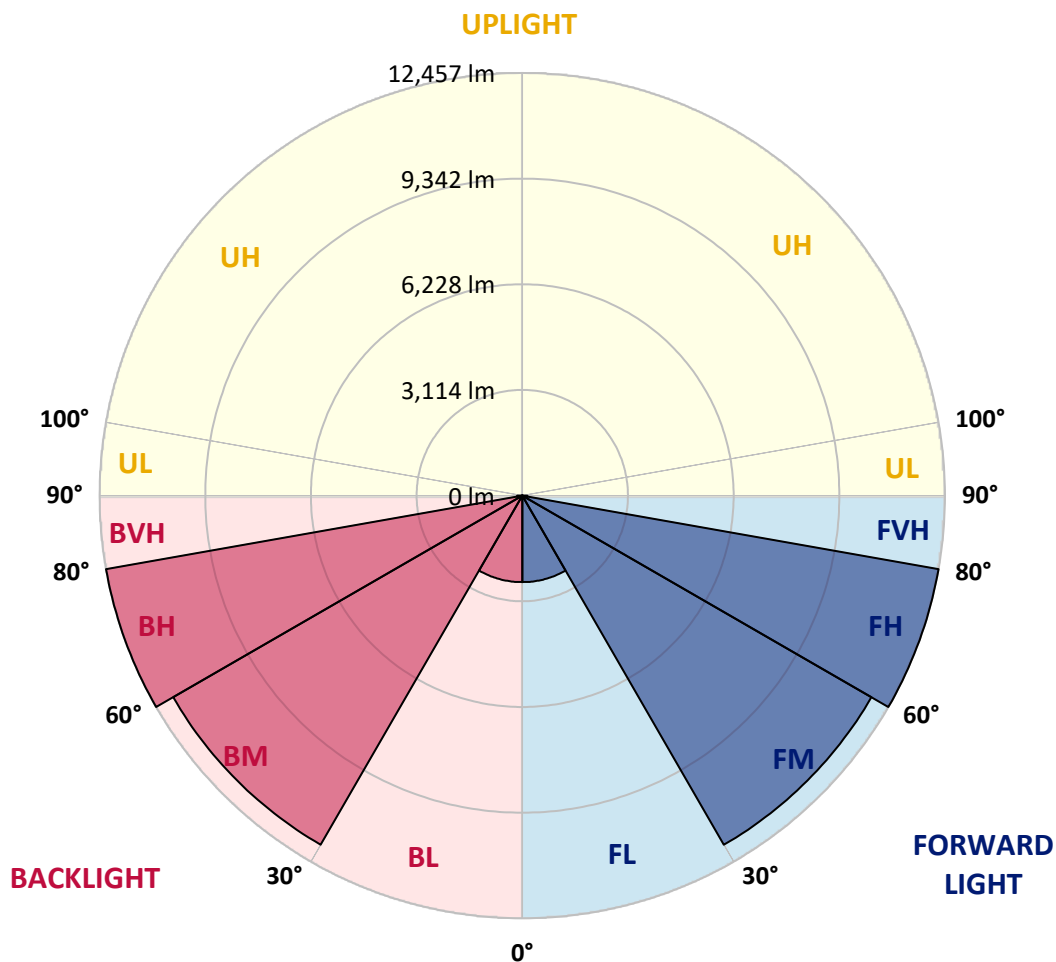
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2548.9	4.7			
FM	(30°-60°)	11879.0	22.0			
FH	(60°-80°)	12456.7	23.0			G5
FVH	(80°-90°)	151.0	0.3			G2/225
BL	(0°-30°)	2548.9	4.7	B4/5000		
BM	(30°-60°)	11879.0	22.0	B5		
BH	(60°-80°)	12456.7	23.0	B5		G5
BVH	(80°-90°)	151.0	0.3			G2/225
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°	6004.3	6004.3	6004.3	6004.3	6004.3	6004.3	6004.3	6004.3	6004.3	6004.3	6004.3
2.5°	6004.3	6010.0	6001.5	5995.8	5992.9	5992.9	5990.1	5992.9	6010.0	6012.9	6004.3
5°	5987.2	5992.9	5990.1	5984.4	5981.5	5981.5	5978.7	5975.8	5990.1	5995.8	5992.9
7.5°	5964.4	5967.3	5964.4	5961.6	5964.4	5961.6	5953.0	5947.3	5958.7	5958.7	5955.9
10°	5924.5	5930.2	5927.4	5930.2	5935.9	5935.9	5924.5	5913.1	5916.0	5910.3	5910.3
12.5°	5876.1	5884.6	5887.5	5898.9	5913.1	5930.2	5904.6	5878.9	5873.2	5870.4	5867.5
15°	5844.7	5853.3	5864.7	5876.1	5901.7	5938.8	5901.7	5861.8	5850.4	5839.0	5833.3
17.5°	5836.2	5847.6	5864.7	5881.8	5916.0	5953.0	5921.7	5881.8	5853.3	5836.2	5830.5
20°	5859.0	5867.5	5893.2	5924.5	5973.0	6010.0	5978.7	5935.9	5893.2	5867.5	5859.0
22.5°	5904.6	5918.8	5950.2	6007.2	6075.6	6129.7	6087.0	6015.7	5947.3	5913.1	5901.7
25°	6004.3	6015.7	6052.8	6129.7	6209.5	6260.8	6215.2	6132.6	6038.5	5992.9	5978.7
27.5°	6155.4	6172.5	6212.4	6303.5	6369.1	6397.6	6366.2	6309.2	6240.9	6192.4	6181.0
30°	6369.1	6389.0	6448.9	6545.8	6588.5	6605.6	6591.4	6554.3	6505.9	6454.6	6443.2
32.5°	6656.9	6668.3	6736.7	6827.9	6867.8	6873.5	6856.4	6839.3	6759.5	6674.0	6668.3
35°	6978.9	6998.9	7081.5	7189.8	7226.9	7229.7	7195.5	7169.9	7075.8	7007.4	7007.4
37.5°	7406.4	7414.9	7494.7	7617.3	7657.2	7645.8	7628.7	7605.9	7506.1	7417.8	7420.6
40°	7907.9	7925.0	7993.4	8135.9	8135.9	8121.7	8133.1	8116.0	8016.2	7930.7	7933.6
42.5°	8503.5	8512.1	8594.7	8745.7	8734.3	8705.9	8717.2	8694.5	8631.8	8534.9	8500.7
45°	9139.0	9173.2	9315.7	9461.0	9438.2	9347.0	9392.6	9386.9	9329.9	9184.6	9193.2
47.5°	9905.6	9962.6	10099.4	10273.2	10247.5	10105.1	10156.4	10190.5	10110.8	9951.2	9922.7
50°	10769.0	10806.1	11008.4	11170.8	11148.0	10997.0	11113.9	11119.6	10920.1	10694.9	10694.9
52.5°	11689.5	11726.5	12000.1	12253.7	12268.0	12048.6	12142.6	12136.9	11812.0	11515.7	11458.7
55°	12721.1	12738.2	13091.5	13464.9	13544.7	13330.9	13342.3	13228.3	12806.6	12461.8	12430.4
57.5°	13786.9	13849.6	14240.0	14724.4	14961.0	14829.9	14770.0	14465.1	14057.6	13661.5	13641.5
60°	14966.7	14969.5	15476.8	16049.5	16528.3	16616.6	16371.6	15964.1	15436.9	14912.5	14889.7
62.5°	15784.5	15907.1	16548.2	17517.1	18374.9	18870.8	18223.9	17369.0	16331.7	15485.3	15399.8
65°	15952.7	16035.3	17012.7	18654.2	20406.7	21475.4	19979.3	18161.2	16391.5	15263.0	15206.0
67.5°	14593.3	14681.7	15998.2	18517.4	21831.6	24023.0	21119.2	17779.3	15377.0	13980.7	13869.5
70°	11287.7	11387.4	13014.6	16300.3	21515.3	24823.8	20307.0	15508.1	12681.2	11173.7	10971.4
72.5°	6001.5	6369.1	7759.7	11187.9	17463.0	21372.8	16650.8	11316.2	8178.7	6685.4	6417.5
75°	2191.4	2237.0	3012.1	4961.3	10159.2	14656.0	10549.6	5397.3	3103.3	2396.6	2274.1
77.5°	906.2	903.4	991.7	1498.9	3690.4	7506.1	4117.8	1584.4	988.8	914.8	903.4
80°	535.7	535.7	589.9	624.1	971.7	2265.5	1085.7	706.7	592.7	541.4	550.0
82.5°	239.4	253.6	373.3	393.3	470.2	621.2	524.3	450.3	387.6	267.9	242.2
85°	131.1	114.0	196.6	205.2	225.1	230.8	247.9	245.1	225.1	131.1	133.9
87.5°	25.6	31.3	57.0	42.7	48.4	42.7	57.0	79.8	82.6	45.6	37.0
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)