

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: P531812

Luminaire Tested: **GALN-SA7A-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21091 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

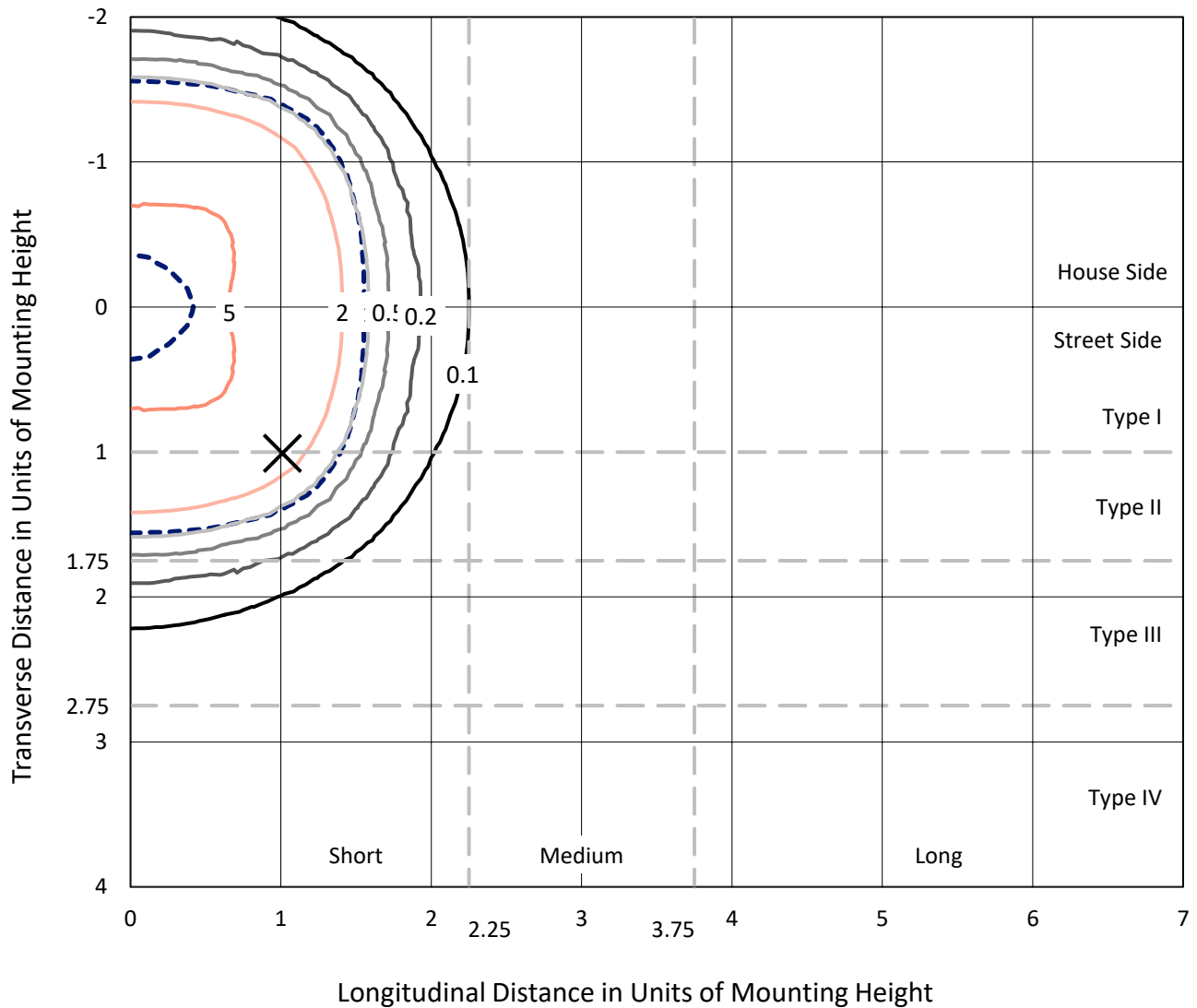
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

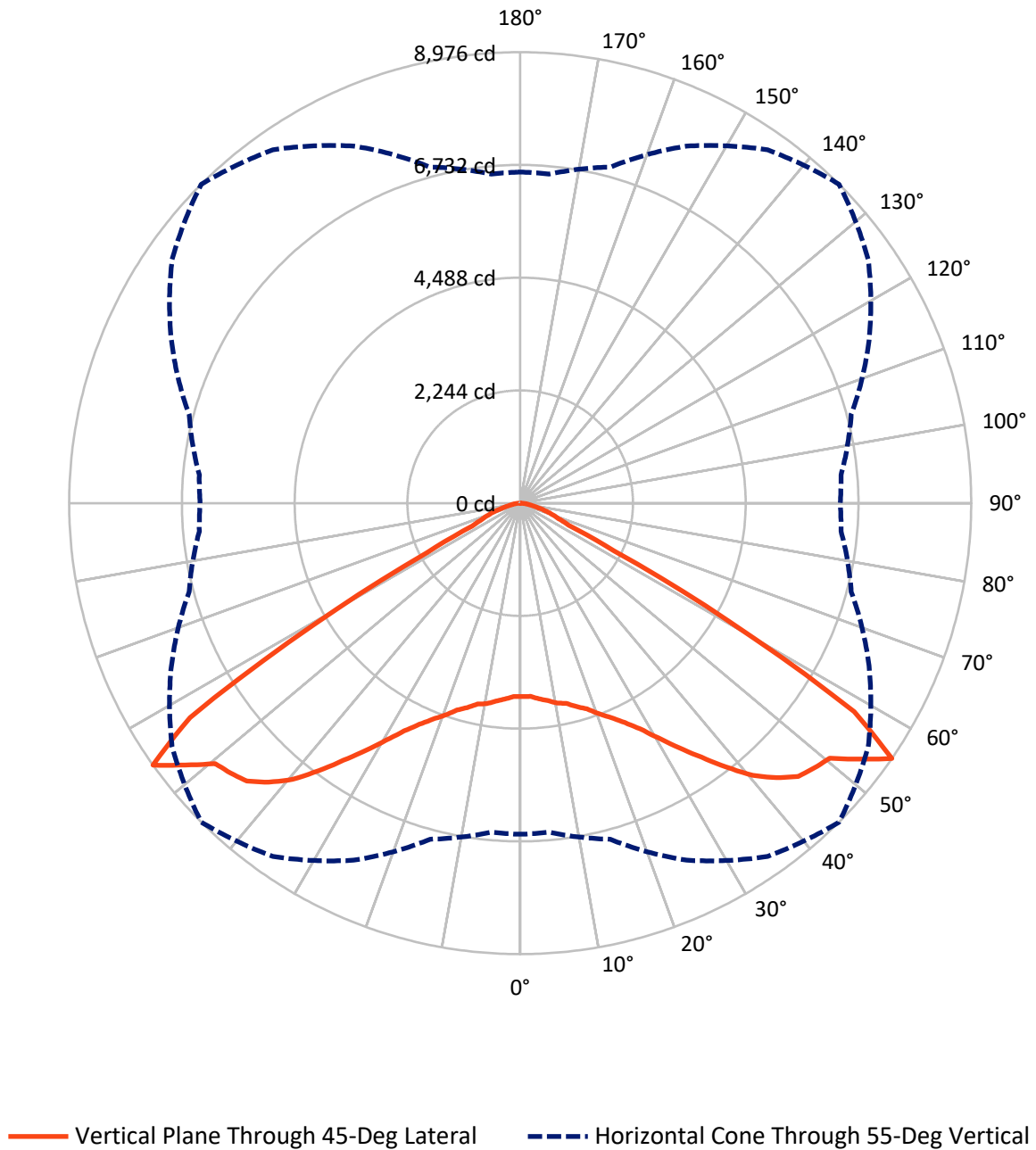
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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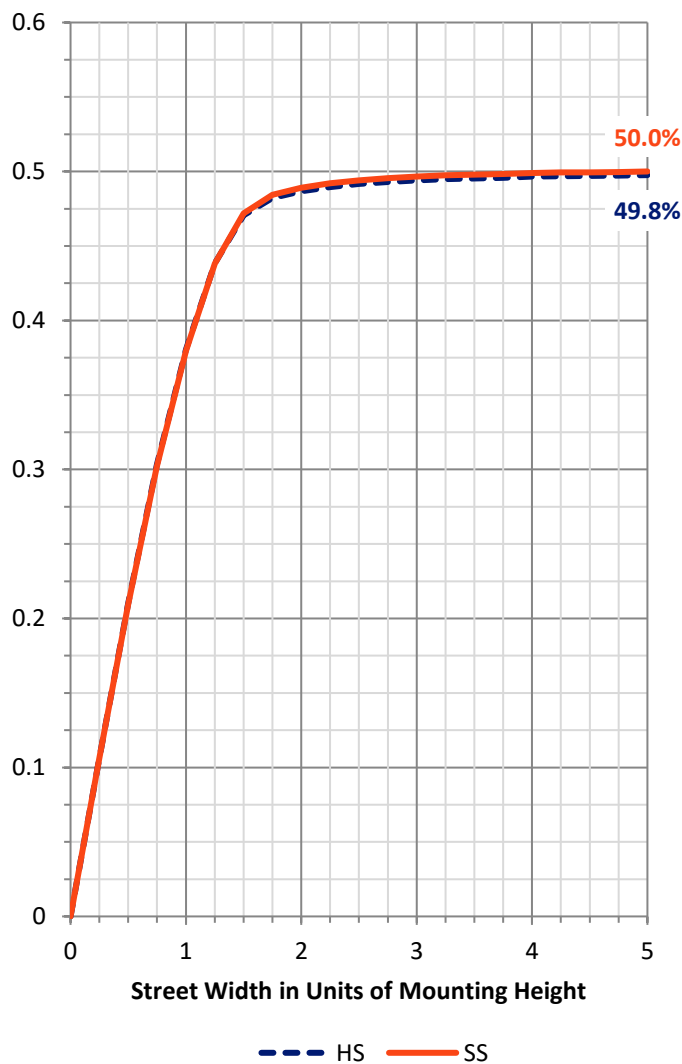
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10545.5	0.0	10545.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10545.5	0.0	10545.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21091.0	0.0	21091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.2	1.8
10°-20°	1192.0	5.7
20°-30°	2222.7	10.5
30°-40°	3721.5	17.6
40°-50°	5790.9	27.5
50°-60°	6012.8	28.5
60°-70°	1275.1	6.0
70°-80°	419.9	2.0
80°-90°	80.0	0.4
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°	21091.0	100.0
0°-180°	21091.0	100.0

Coefficient of Utilization

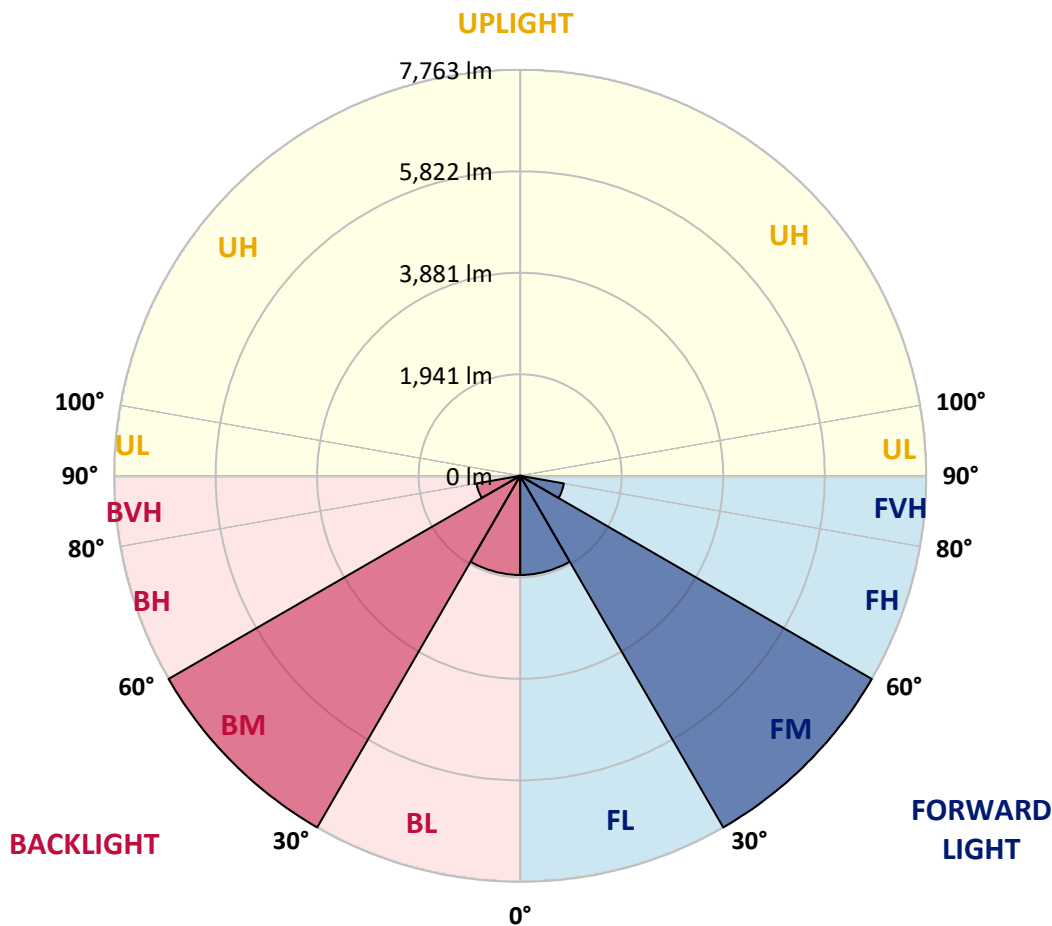


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1895.4	9.0			
FM (30°-60°)	7762.6	36.8			
FH (60°-80°)	847.5	4.0			G1/1800
FVH (80°-90°)	40.0	0.2			G1/100
BL (0°-30°)	1895.4	9.0	B3/2500		
BM (30°-60°)	7762.6	36.8	B4/8500		
BH (60°-80°)	847.5	4.0	B2/1000		G1/1800
BVH (80°-90°)	40.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3850.9	3850.9	3850.9	3850.9	3850.9	3850.9	3850.9	3850.9	3850.9	3850.9	3850.9
2.5°	3896.8	3878.9	3848.4	3871.3	3889.1	3850.9	3866.2	3873.8	3868.7	3848.4	3856.0
5°	3952.8	3942.7	3917.2	3935.0	3912.1	3912.1	3896.8	3876.4	3907.0	3901.9	3914.6
7.5°	3952.8	3940.1	3991.1	3957.9	3968.1	3968.1	3942.7	3922.3	3937.6	3914.6	3901.9
10°	4031.9	4049.7	4026.8	4034.4	4029.3	4047.1	4008.9	3996.2	3983.4	3975.8	3960.5
12.5°	4126.1	4113.4	4121.1	4116.0	4133.8	4087.9	4065.0	4036.9	4059.9	4026.8	4049.7
15°	4202.6	4195.0	4202.6	4223.0	4205.2	4202.6	4161.8	4133.8	4098.1	4105.8	4070.1
17.5°	4307.1	4299.5	4302.0	4319.8	4317.3	4304.5	4274.0	4220.4	4207.7	4187.3	4164.4
20°	4462.6	4449.8	4444.7	4452.4	4465.1	4475.3	4414.1	4393.7	4350.4	4317.3	4279.1
22.5°	4595.1	4590.0	4610.4	4577.2	4605.3	4635.9	4577.2	4567.1	4460.0	4442.2	4401.4
25°	4778.6	4770.9	4758.2	4806.6	4839.8	4837.2	4781.1	4725.1	4643.5	4623.1	4623.1
27.5°	4972.3	4929.0	4995.2	5008.0	5066.6	5084.4	5036.0	4954.4	4878.0	4834.7	4844.8
30°	5214.4	5173.6	5188.9	5280.7	5357.1	5423.4	5301.0	5181.3	5074.2	4997.8	4985.0
32.5°	5456.5	5415.7	5461.6	5550.8	5703.7	5803.1	5683.3	5474.3	5349.5	5237.3	5260.3
35°	5652.7	5683.3	5757.2	5892.3	6050.3	6210.9	6019.7	5859.2	5680.8	5555.9	5573.7
37.5°	5968.8	6063.1	6121.7	6277.1	6501.4	6667.1	6468.3	6259.3	6068.2	5905.1	5849.0
40°	6381.6	6445.4	6511.6	6695.1	6960.2	7125.8	6937.2	6664.5	6475.9	6307.7	6300.1
42.5°	6835.3	6896.5	6965.3	7189.5	7347.6	7472.4	7299.1	7153.9	6944.9	6812.4	6804.7
45°	7362.8	7319.5	7396.0	7543.8	7676.3	7757.9	7645.7	7574.4	7424.0	7301.7	7288.9
47.5°	7714.5	7676.3	7813.9	7946.5	7966.9	7877.7	7900.6	7966.9	7808.8	7607.5	7671.2
50°	7918.4	7918.4	8010.2	8132.5	8094.3	7979.6	8160.5	8165.6	8007.6	7829.2	7829.2
52.5°	7564.2	7643.2	7903.1	8303.3	8430.7	8463.8	8423.1	8249.7	7836.9	7472.4	7454.6
55°	6590.6	6572.8	6924.5	7842.0	8583.6	8976.1	8456.2	7658.5	6820.0	6409.7	6368.9
57.5°	4286.7	4307.1	4832.1	5767.4	7105.4	7836.9	6960.2	5838.8	4832.1	4266.3	4319.8
60°	1929.3	1998.1	2316.7	3015.0	4164.4	4760.7	4174.6	3167.9	2431.3	2110.2	2138.3
62.5°	1108.6	1121.4	1134.1	1345.6	1773.8	2097.5	1842.6	1422.1	1253.9	1197.8	1197.8
65°	935.3	927.7	930.2	948.1	993.9	1060.2	1032.2	993.9	999.0	993.9	986.3
67.5°	795.2	805.4	797.7	810.4	813.0	823.2	841.0	856.3	858.9	864.0	858.9
70°	652.4	655.0	660.1	670.3	672.8	680.5	706.0	718.7	726.3	726.3	736.5
72.5°	499.5	497.0	502.1	512.3	525.0	527.6	550.5	568.3	578.5	565.8	568.3
75°	328.8	331.3	339.0	346.6	364.4	382.3	389.9	407.8	410.3	415.4	402.7
77.5°	196.2	201.3	209.0	224.3	239.6	254.9	272.7	285.4	290.5	285.4	270.1
80°	127.4	127.4	137.6	150.4	168.2	180.9	191.1	201.3	209.0	201.3	196.2
82.5°	79.0	79.0	91.7	107.0	119.8	127.4	142.7	155.5	163.1	158.0	150.4
85°	40.8	43.3	53.5	66.3	76.5	81.6	79.0	71.4	63.7	61.2	56.1
87.5°	12.7	12.7	15.3	15.3	12.7	12.7	15.3	12.7	15.3	15.3	15.3
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)