

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: P530250

Luminaire Tested: **GALN-SA5C-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25990 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

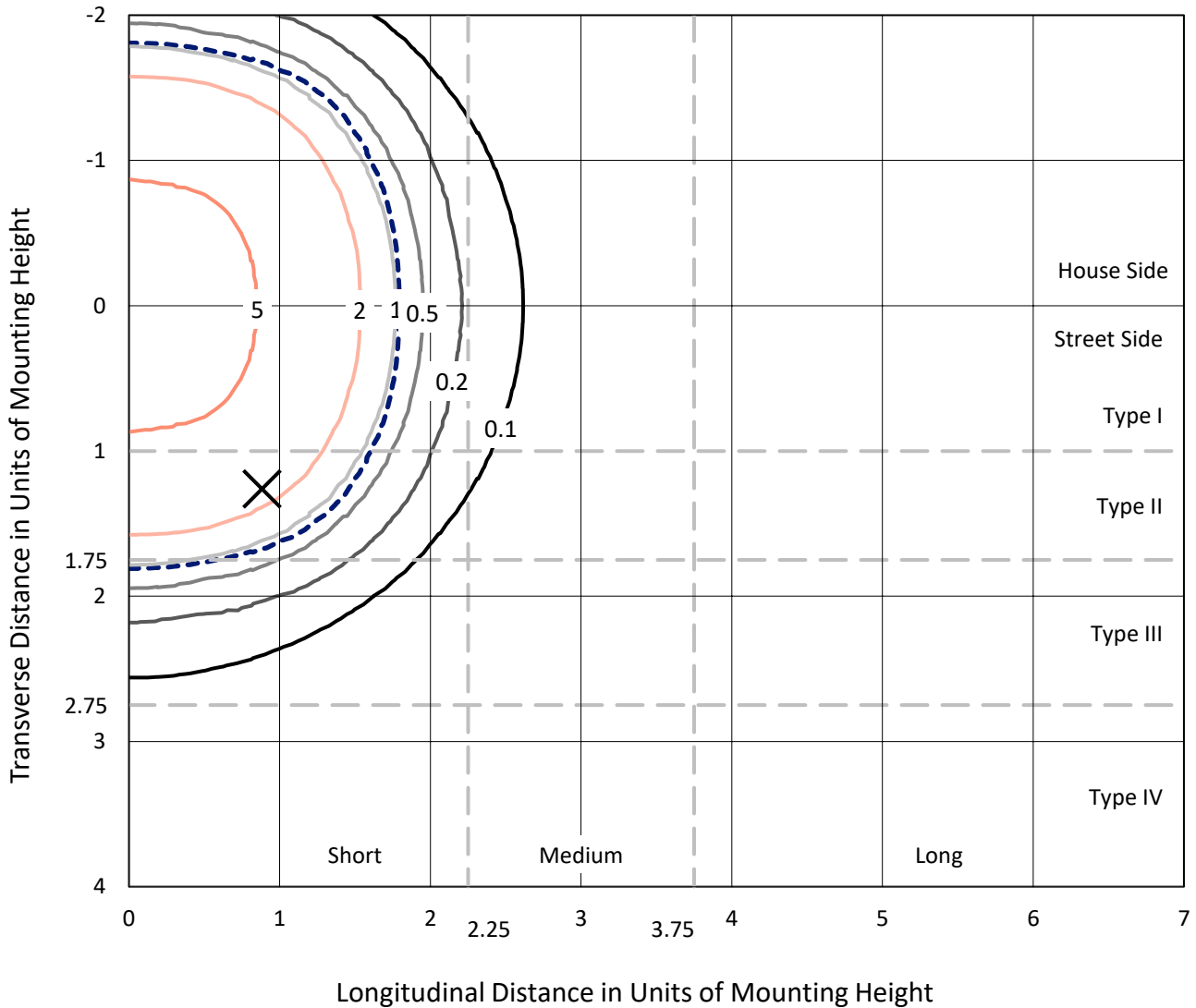
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

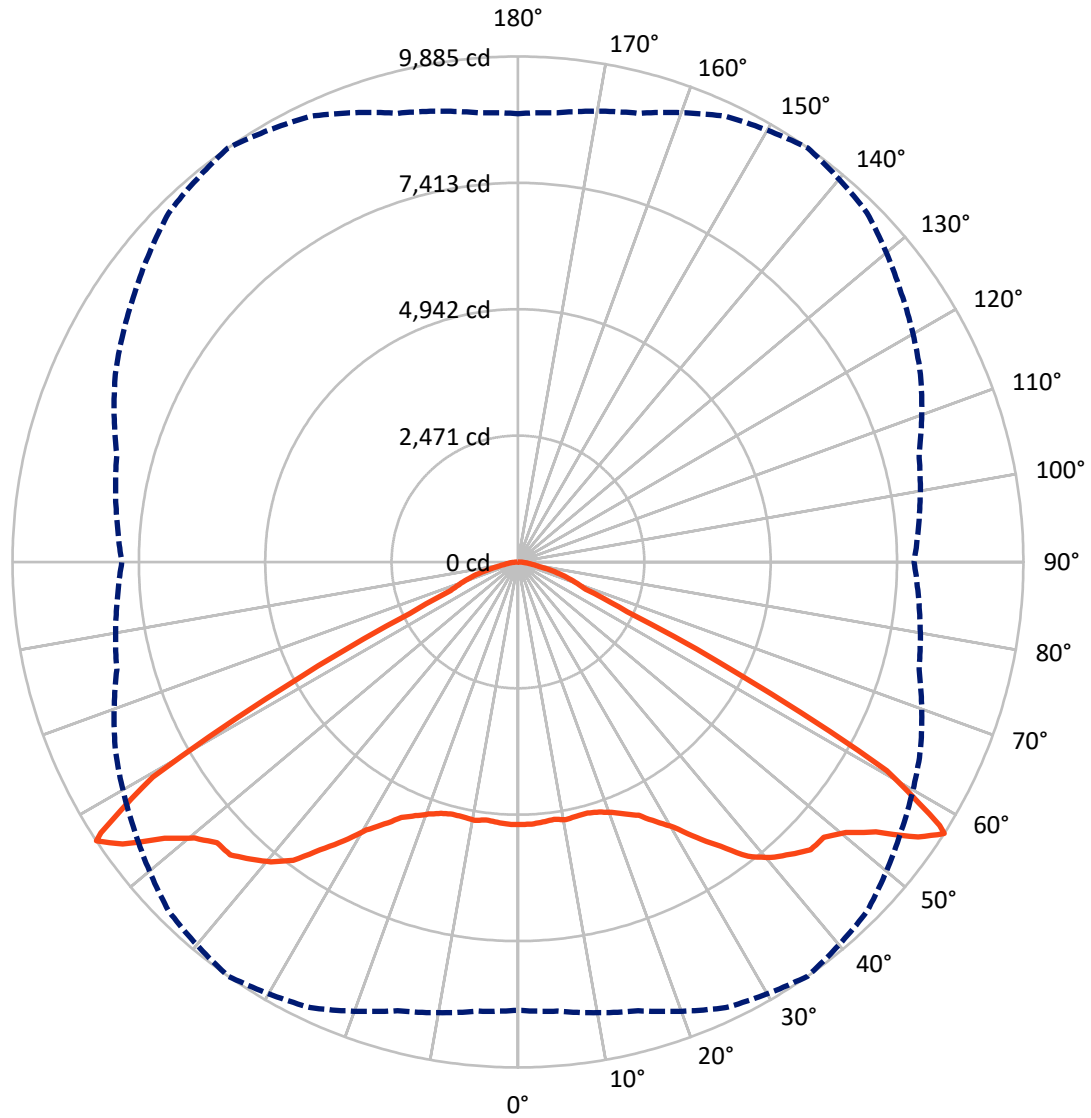
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12995.0	0.0	12995.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12995.0	0.0	12995.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25990.0	0.0	25990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.6	1.9
10°-20°	1441.2	5.5
20°-30°	2517.0	9.7
30°-40°	4124.2	15.9
40°-50°	6047.1	23.3
50°-60°	7616.8	29.3
60°-70°	2864.6	11.0
70°-80°	761.7	2.9
80°-90°	130.6	0.5
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°	25990.0	100.0
0°-180°	25990.0	100.0

Coefficient of Utilization

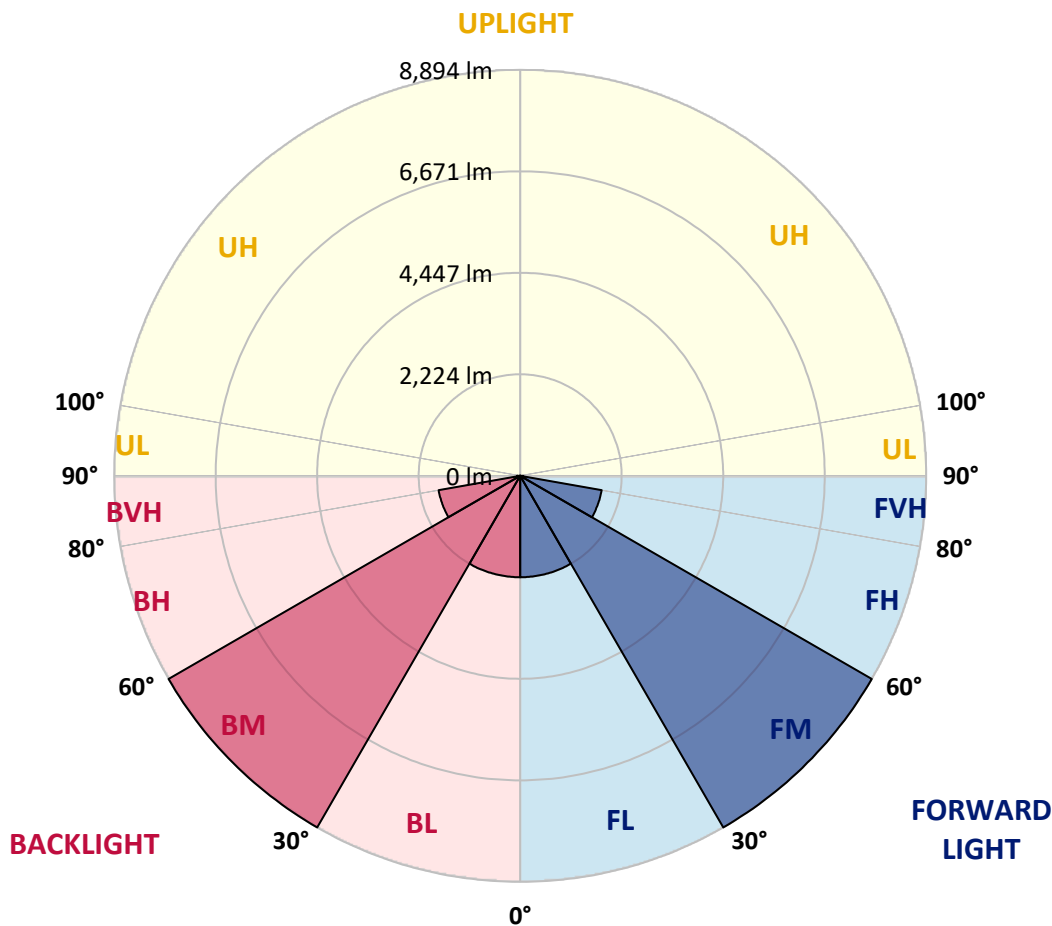


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2222.4	8.6			
FM (30°-60°)	8894.1	34.2			
FH (60°-80°)	1813.2	7.0			G2/5000
FVH (80°-90°)	65.3	0.3			G1/100
BL (0°-30°)	2222.4	8.6	B3/2500		
BM (30°-60°)	8894.1	34.2	B5		
BH (60°-80°)	1813.2	7.0	B3/2500		G2/5000
BVH (80°-90°)	65.3	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-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5132.8	5132.8	5132.8	5132.8	5132.8	5132.8	5132.8	5132.8	5132.8	5132.8	5132.8
2.5°	5107.2	5158.4	5136.0	5123.2	5132.8	5116.8	5091.2	5120.0	5113.6	5088.0	5078.4
5°	5094.4	5132.8	5107.2	5132.8	5107.2	5152.0	5139.2	5091.2	5148.8	5094.4	5113.6
7.5°	5084.8	5097.6	5104.0	5091.2	5081.6	5136.0	5107.2	5084.8	5052.8	5043.2	5059.2
10°	5062.4	5094.4	5046.4	5110.4	5123.2	5084.8	5084.8	5043.2	5017.6	5001.6	5056.0
12.5°	5120.0	5065.6	5059.2	5091.2	5100.8	5116.8	5072.0	5049.6	5001.6	5008.0	4998.3
15°	5052.8	5075.2	5078.4	5084.8	5094.4	5132.8	5091.2	5043.2	5024.0	4956.7	4963.1
17.5°	5078.4	5056.0	5078.4	5152.0	5139.2	5168.1	5123.2	5049.6	5004.8	4966.3	5017.6
20°	5123.2	5113.6	5123.2	5212.9	5228.9	5254.5	5216.1	5148.8	5062.4	5017.6	5043.2
22.5°	5171.3	5164.9	5171.3	5257.7	5350.6	5382.6	5344.2	5187.3	5142.4	5059.2	5030.4
25°	5257.7	5264.1	5331.4	5427.4	5488.3	5549.1	5478.7	5366.6	5222.5	5171.3	5110.4
27.5°	5449.8	5465.8	5504.3	5645.2	5750.8	5805.3	5706.0	5552.3	5462.6	5357.0	5341.0
30°	5686.8	5686.8	5754.0	5875.7	6019.8	6103.0	5981.4	5798.9	5690.0	5632.3	5597.1
32.5°	6000.6	5965.4	5991.0	6205.5	6429.7	6500.1	6336.8	6112.7	5939.7	5862.9	5837.3
35°	6269.5	6292.0	6349.6	6580.1	6829.9	6993.2	6737.0	6445.7	6269.5	6199.1	6186.3
37.5°	6618.6	6657.0	6685.8	7002.8	7303.8	7364.6	7118.1	6884.3	6669.8	6612.2	6580.1
40°	7111.7	7086.1	7095.7	7329.4	7601.6	7640.0	7396.7	7230.2	7054.0	7018.8	7018.8
42.5°	7518.3	7489.5	7521.5	7608.0	7816.1	7787.3	7652.8	7531.1	7457.5	7419.1	7457.5
45°	7764.9	7758.5	7816.1	7880.2	8027.5	7931.4	7825.7	7844.9	7774.5	7710.5	7707.3
47.5°	8033.9	7992.2	8062.7	8158.7	8046.7	8001.8	7995.4	8037.1	8014.6	7902.6	7867.4
50°	8165.1	8149.1	8261.2	8373.3	8312.4	8210.0	8232.4	8299.6	8011.4	7861.0	7774.5
52.5°	8517.4	8520.6	8735.1	8795.9	8770.3	8619.8	8667.9	8485.3	8145.9	7934.6	7944.2
55°	9071.3	9048.9	9289.1	9468.4	9497.2	9305.1	9074.5	8818.4	8392.5	8178.0	8113.9
57°	8767.1	8818.4	9084.1	9615.7	9884.6	9657.3	9154.6	8687.1	8120.3	7861.0	7745.7
57.5°	8360.5	8443.7	8904.8	9439.5	9721.3	9702.1	9055.3	8443.7	7937.8	7534.3	7544.0
60°	6125.5	6141.5	6557.7	7406.3	8286.8	8306.0	7518.3	6708.2	6144.7	5706.0	5766.8
62.5°	3230.8	3304.5	3471.0	4153.0	4915.1	5100.8	4623.7	4207.5	3720.7	3387.7	3419.8
65°	1709.9	1700.3	1780.3	1972.4	2347.1	2443.1	2379.1	2049.3	1879.6	1825.1	1828.4
67.5°	1389.7	1405.7	1396.1	1405.7	1431.3	1472.9	1463.3	1476.1	1485.7	1501.7	1498.5
70°	1178.3	1178.3	1184.7	1187.9	1187.9	1207.2	1229.6	1271.2	1274.4	1290.4	1296.8
72.5°	928.6	922.2	931.8	954.2	957.4	973.4	1005.4	1031.0	1040.7	1040.7	1021.4
75°	630.8	637.2	650.0	669.2	688.4	717.3	742.9	758.9	765.3	755.7	746.1
77.5°	355.4	361.8	371.4	400.3	422.7	448.3	477.1	493.1	509.1	512.3	493.1
80°	211.3	211.3	227.3	249.8	275.4	301.0	326.6	345.8	352.2	352.2	342.6
82.5°	128.1	131.3	144.1	166.5	188.9	204.9	227.3	243.4	256.2	253.0	246.6
85°	67.2	67.2	80.1	99.3	115.3	131.3	131.3	121.7	115.3	99.3	92.9
87.5°	22.4	19.2	25.6	25.6	22.4	25.6	25.6	28.8	28.8	28.8	28.8
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)