

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: P453526

Luminaire Tested: **GALN-SA4C-750-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453526
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-SA4C-750-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 29025 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

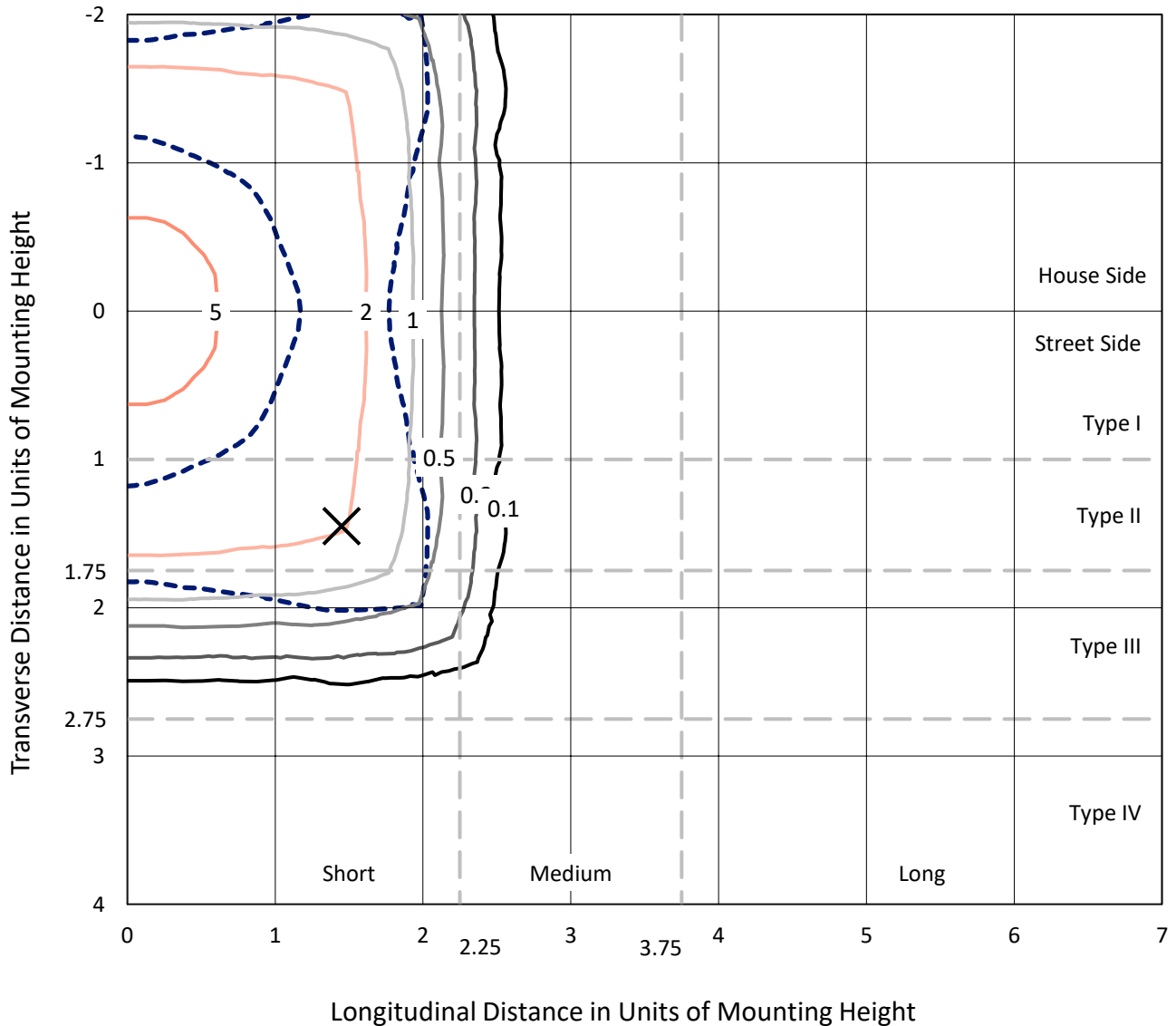
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

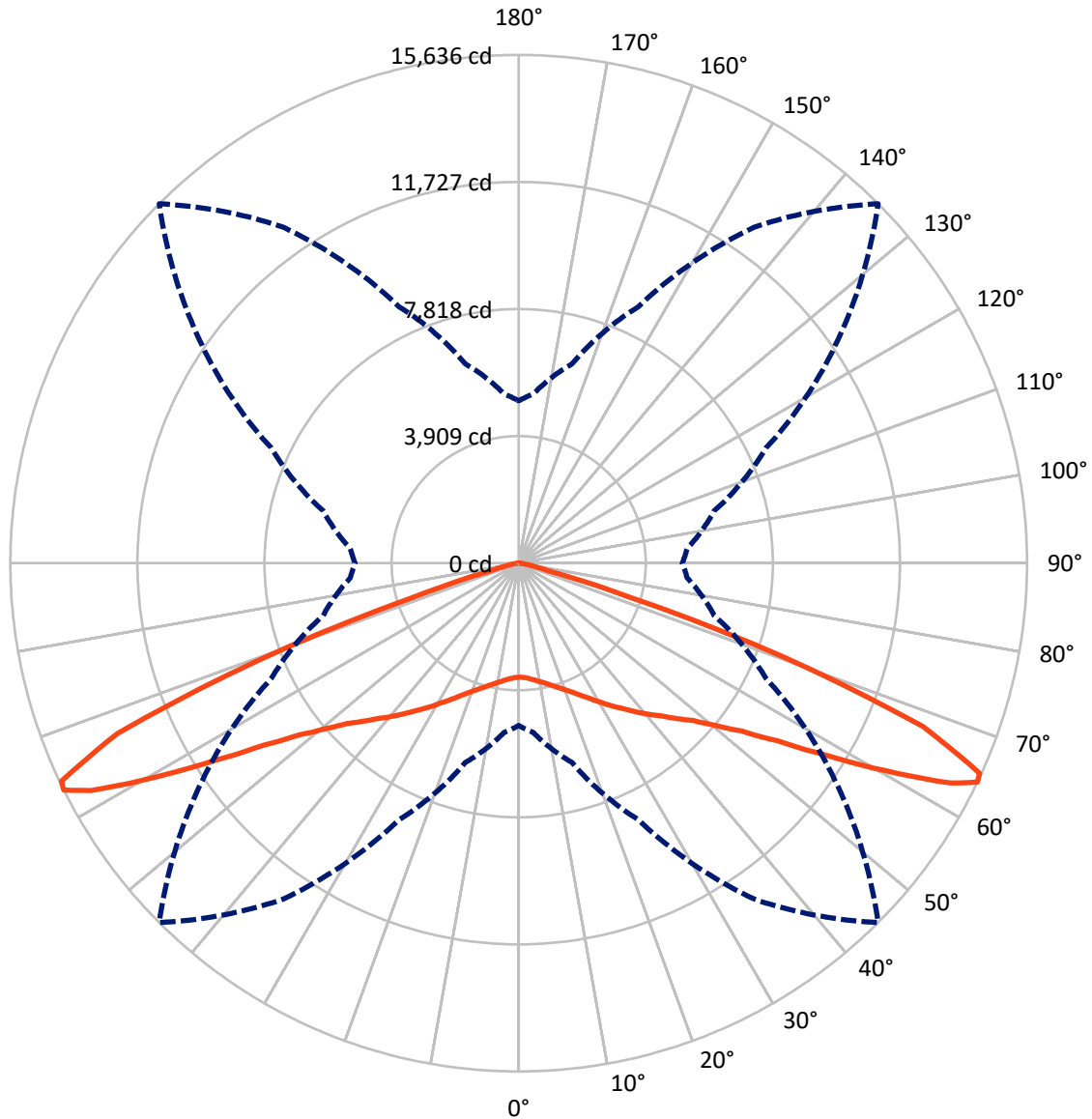
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14512.5	0.0	14512.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14512.5	0.0	14512.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29025.0	0.0	29025.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.7	1.2
10°-20°	1111.7	3.8
20°-30°	2100.8	7.2
30°-40°	3479.2	12.0
40°-50°	5431.6	18.7
50°-60°	8397.2	28.9
60°-70°	7240.8	24.9
70°-80°	820.6	2.8
80°-90°	98.3	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°	29025.0	100.0
0°-180°	29025.0	100.0

Coefficient of Utilization



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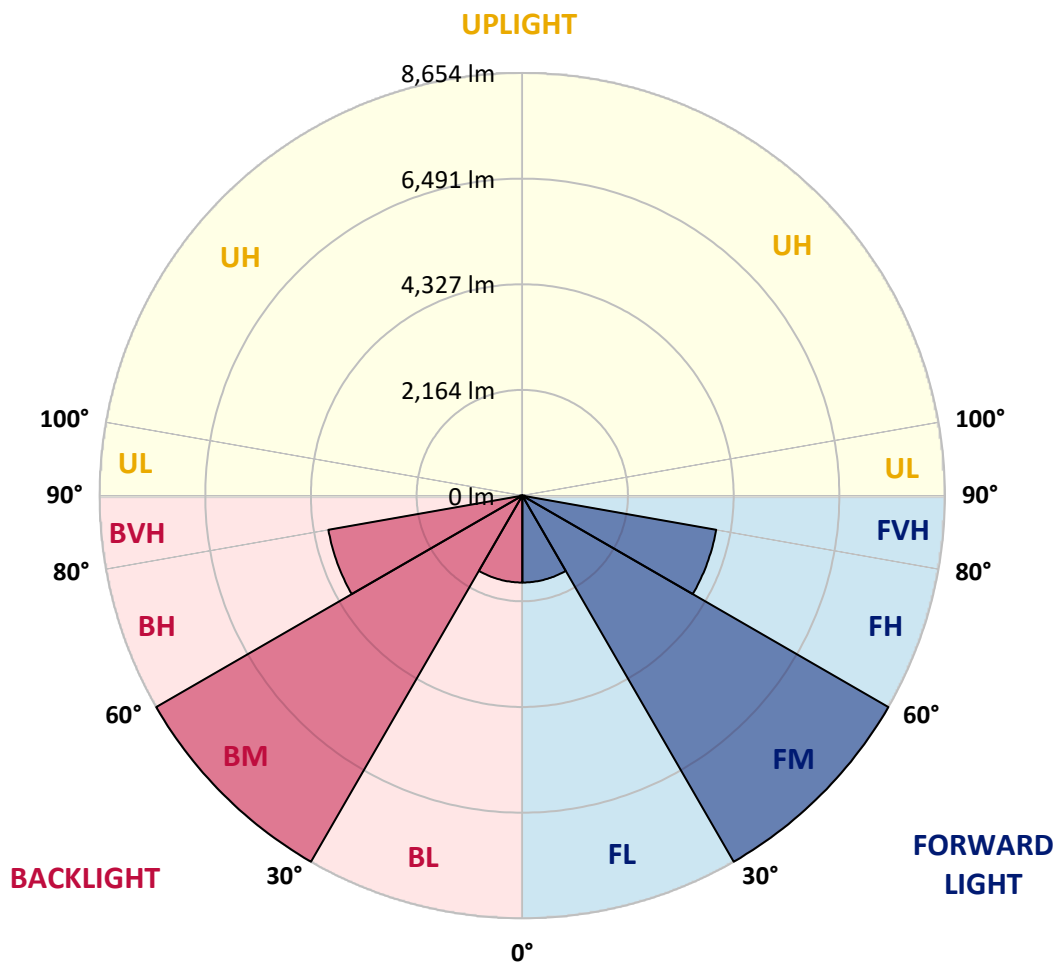
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1778.6	6.1			
FM	(30°-60°)	8654.0	29.8			
FH	(60°-80°)	4030.7	13.9			G2/5000
FVH	(80°-90°)	49.2	0.2			G1/100
BL	(0°-30°)	1778.6	6.1	B3/2500		
BM	(30°-60°)	8654.0	29.8	B5		
BH	(60°-80°)	4030.7	13.9	B4/5000		G2/5000
BVH	(80°-90°)	49.2	0.2			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°	3508.2	3508.2	3508.2	3508.2	3508.2	3508.2	3508.2	3508.2	3508.2	3508.2	3508.2
2.5°	3522.0	3529.7	3523.5	3522.0	3520.5	3520.5	3520.5	3522.0	3528.1	3532.8	3529.7
5°	3566.6	3572.7	3569.7	3568.1	3566.6	3568.1	3565.0	3563.5	3568.1	3568.1	3566.6
7.5°	3621.9	3629.6	3626.5	3629.6	3631.1	3632.7	3625.0	3618.8	3617.3	3621.9	3618.8
10°	3697.2	3703.4	3704.9	3706.5	3709.5	3708.0	3698.8	3688.0	3686.5	3685.0	3683.4
12.5°	3781.8	3786.4	3788.0	3794.1	3798.7	3800.2	3789.5	3780.3	3764.9	3768.0	3761.8
15°	3877.1	3886.3	3884.8	3894.0	3906.3	3909.4	3898.6	3883.3	3869.4	3861.7	3857.1
17.5°	3994.0	4000.1	3997.0	4006.3	4021.6	4029.3	4020.1	4000.1	3986.3	3969.4	3960.1
20°	4132.3	4143.1	4146.1	4146.1	4160.0	4167.7	4153.8	4147.7	4126.2	4113.9	4106.2
22.5°	4289.1	4293.7	4303.0	4312.2	4326.0	4322.9	4318.3	4309.1	4289.1	4278.4	4266.1
25°	4465.9	4470.5	4493.6	4513.6	4518.2	4515.1	4509.0	4504.3	4485.9	4461.3	4452.1
27.5°	4671.9	4681.1	4711.9	4730.3	4730.3	4731.9	4719.6	4734.9	4695.0	4665.8	4662.7
30°	4930.2	4936.3	4962.5	4980.9	4971.7	4964.0	4960.9	4976.3	4933.3	4881.0	4868.7
32.5°	5185.4	5206.9	5230.0	5269.9	5237.6	5223.8	5220.7	5231.5	5182.3	5123.9	5107.0
35°	5459.0	5474.4	5517.4	5551.3	5522.0	5489.8	5503.6	5537.4	5479.0	5400.6	5397.5
37.5°	5761.9	5775.7	5831.0	5866.4	5844.9	5789.5	5812.6	5852.6	5794.2	5697.3	5677.3
40°	6077.0	6106.2	6175.4	6212.3	6176.9	6103.2	6146.2	6189.2	6137.0	6024.7	5980.2
42.5°	6430.6	6476.7	6576.6	6595.1	6527.5	6427.5	6502.9	6572.0	6535.1	6406.0	6389.1
45°	6844.1	6871.8	6994.8	7034.8	6941.0	6816.5	6910.2	7036.3	7008.6	6859.5	6827.2
47.5°	7306.9	7333.0	7460.6	7520.6	7402.2	7234.6	7403.7	7568.2	7551.3	7391.4	7376.1
50°	7854.2	7860.3	8037.1	8104.7	7986.4	7841.9	7992.5	8197.0	8129.3	7924.9	7921.8
52.5°	8453.7	8461.4	8684.3	8815.0	8748.9	8585.9	8764.2	8888.8	8716.6	8449.1	8429.1
55°	8973.3	9011.8	9316.1	9663.6	9754.3	9635.9	9689.7	9631.3	9207.0	8831.9	8773.5
57.5°	9185.5	9260.8	9723.5	10372.3	10962.6	11137.9	10722.8	10166.3	9402.2	8871.9	8815.0
60°	8667.4	8748.9	9466.8	10698.2	12204.8	12965.7	11798.9	10257.0	8958.0	8212.4	8123.2
62.5°	6941.0	6964.0	8020.2	9931.1	12928.8	14899.7	12252.4	9483.7	7665.1	6652.0	6616.6
64°	4994.7	5231.5	6350.7	8707.4	12612.2	15636.1	11991.1	8399.9	6226.1	5200.7	5034.7
65°	3735.7	3800.2	5119.3	7436.0	12054.1	15580.7	11483.8	7363.8	5156.2	3980.1	3795.6
67.5°	1411.3	1418.9	1889.4	3706.5	8581.3	13405.4	8764.2	4006.3	2172.2	1571.1	1514.3
70°	585.7	596.5	693.3	1246.8	3688.0	8607.4	4226.1	1445.1	794.8	644.1	634.9
72.5°	428.9	435.1	464.3	553.4	1134.5	3534.3	1389.7	613.4	465.8	416.6	412.0
75°	336.7	339.7	361.3	407.4	528.8	979.3	578.0	421.2	355.1	319.8	316.7
77.5°	256.7	264.4	279.8	310.5	355.1	464.3	382.8	315.2	273.6	244.4	239.8
80°	176.8	186.0	215.2	227.5	238.3	301.3	261.3	238.3	213.7	178.3	167.6
82.5°	109.1	115.3	144.5	155.3	150.7	169.1	167.6	170.6	152.2	110.7	103.0
85°	56.9	60.0	78.4	81.5	75.3	69.2	86.1	99.9	93.8	63.0	61.5
87.5°	12.3	13.8	16.9	15.4	16.9	16.9	21.5	32.3	33.8	21.5	20.0
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)