

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: P530561

Luminaire Tested: **GALN-SA5D-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-740-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23250 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

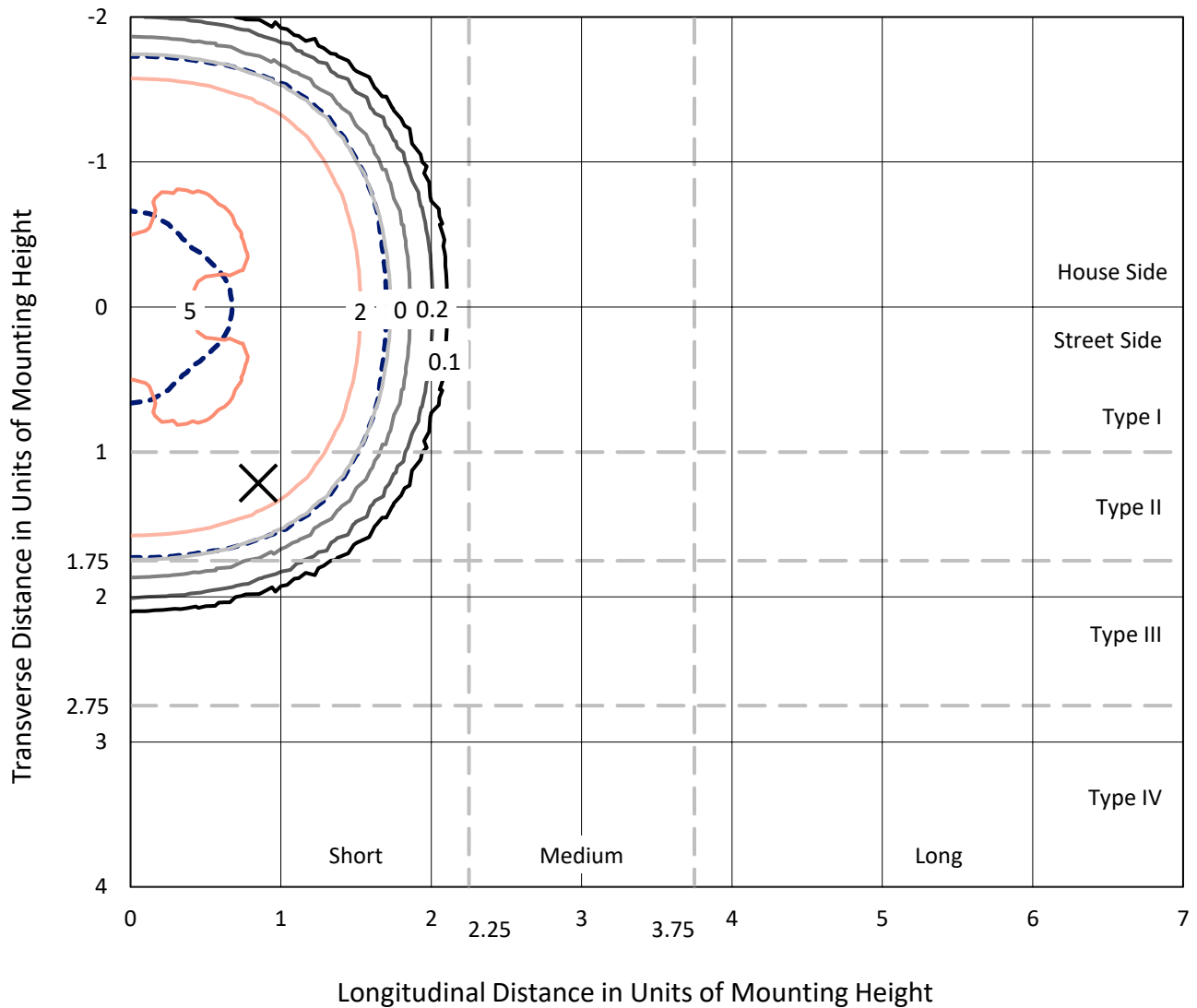
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

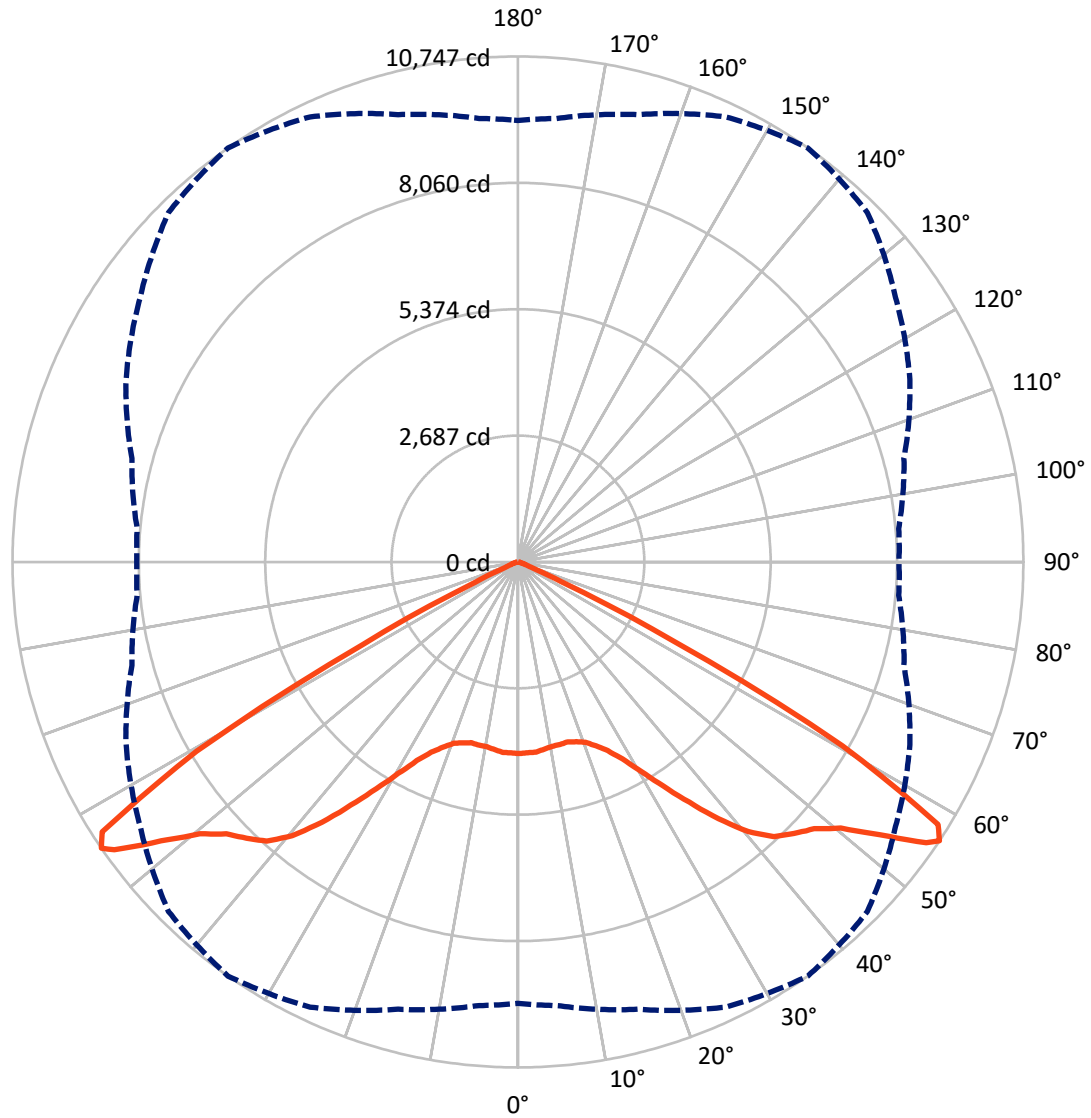
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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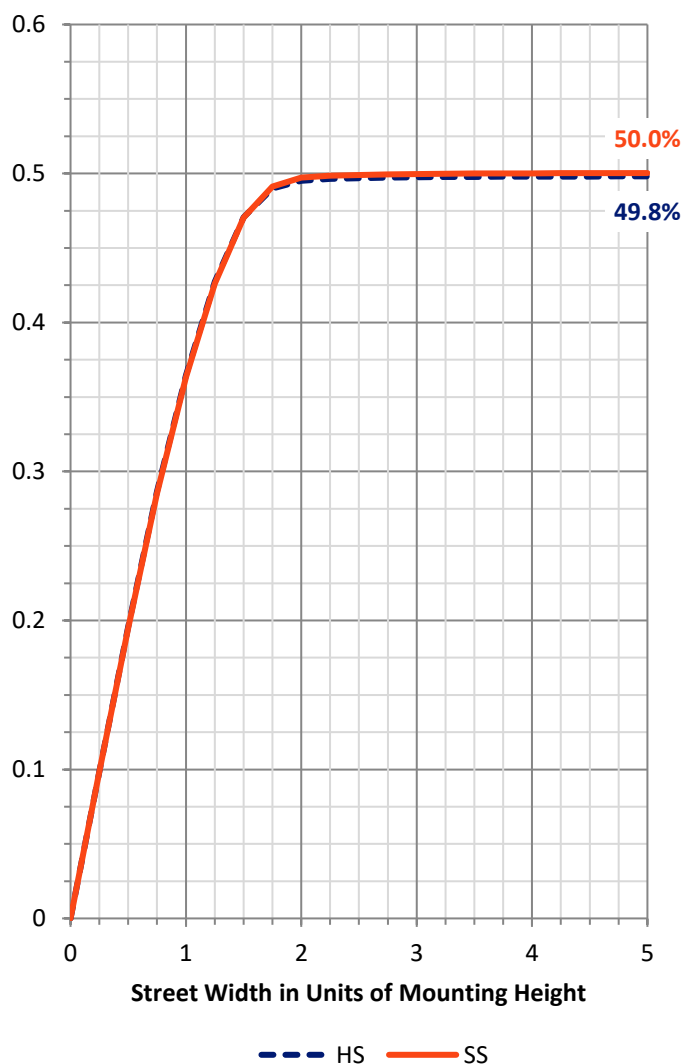
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11625.0	0.0	11625.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11625.0	0.0	11625.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23250.0	0.0	23250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.9	1.6
10°-20°	1117.8	4.8
20°-30°	2024.2	8.7
30°-40°	3753.7	16.1
40°-50°	6161.4	26.5
50°-60°	7937.7	34.1
60°-70°	1749.4	7.5
70°-80°	101.5	0.4
80°-90°	21.4	0.1
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°	23250.0	100.0
0°-180°	23250.0	100.0

Coefficient of Utilization



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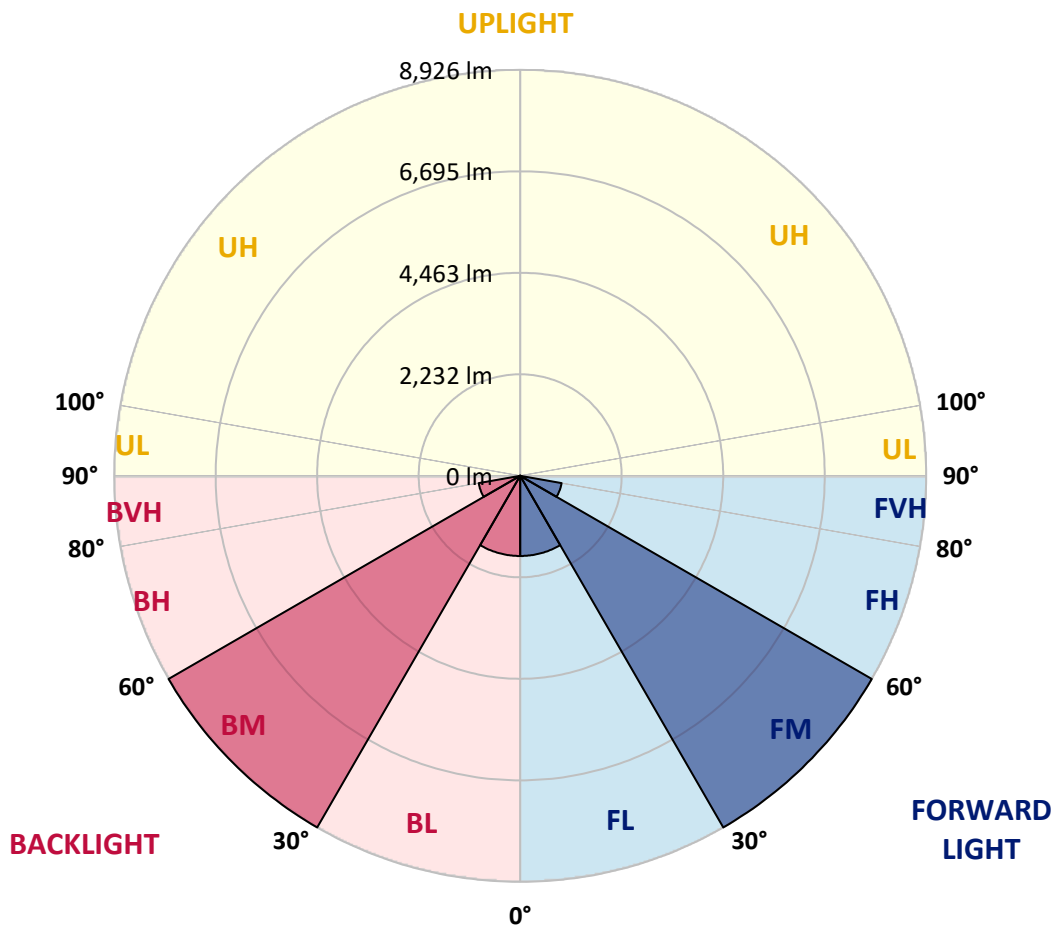
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1762.5	7.6			
FM (30°-60°)	8926.4	38.4			
FH (60°-80°)	925.4	4.0			G1/1800
FVH (80°-90°)	10.7	0.0			G1/100
BL (0°-30°)	1762.5	7.6	B3/2500		
BM (30°-60°)	8926.4	38.4	B5		
BH (60°-80°)	925.4	4.0	B2/1000		G1/1800
BVH (80°-90°)	10.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4073.9	4073.9	4073.9	4073.9	4073.9	4073.9	4073.9	4073.9	4073.9	4073.9	4073.9
2.5°	4082.3	4082.3	4086.5	4090.8	4061.3	4048.6	4052.8	4044.4	4040.2	4052.8	4052.8
5°	4069.7	4069.7	4057.0	4061.3	4061.3	4023.3	4023.3	4031.8	4031.8	4006.5	3998.1
7.5°	4036.0	4027.6	4010.7	4031.8	4019.1	4019.1	3989.6	3968.6	3960.2	3977.0	3960.2
10°	3964.4	3968.6	3985.4	3993.9	3985.4	4010.7	3960.2	3930.7	3901.2	3888.5	3888.5
12.5°	3930.7	3955.9	3930.7	3951.7	3981.2	3960.2	3930.7	3909.6	3867.5	3850.6	3850.6
15°	3926.4	3943.3	3951.7	3981.2	3968.6	3977.0	3918.0	3892.7	3829.6	3800.1	3787.4
17.5°	3922.2	3943.3	3955.9	4010.7	4019.1	4023.3	3977.0	3901.2	3846.4	3816.9	3787.4
20°	3968.6	3977.0	4002.3	4057.0	4090.8	4149.7	4065.5	3985.4	3867.5	3833.8	3821.1
22.5°	4027.6	4069.7	4095.0	4153.9	4242.4	4293.0	4183.4	4082.3	3960.2	3918.0	3867.5
25°	4217.1	4208.7	4250.8	4373.0	4444.6	4482.6	4394.1	4246.6	4086.5	4036.0	4044.4
27.5°	4453.1	4461.5	4499.4	4634.2	4739.5	4798.5	4693.2	4499.4	4343.5	4259.3	4250.8
30°	4760.6	4752.2	4794.3	4975.5	5165.0	5253.5	5068.2	4840.7	4689.0	4579.5	4604.7
32.5°	5085.0	5089.2	5207.2	5371.5	5679.0	5851.8	5552.6	5274.6	5047.1	4971.3	4933.3
35°	5565.3	5586.3	5679.0	5931.8	6273.0	6496.3	6167.7	5834.9	5573.7	5434.7	5451.5
37.5°	6159.3	6138.2	6294.1	6568.0	6926.1	7090.4	6812.3	6433.1	6167.7	6075.0	6134.0
40°	6791.2	6812.3	6892.3	7140.9	7541.1	7650.7	7237.8	7031.4	6799.7	6753.3	6824.9
42.5°	7423.2	7410.5	7469.5	7692.8	7983.5	7907.7	7663.3	7541.1	7376.8	7284.2	7381.0
45°	7886.6	7865.5	7975.1	8126.7	8232.1	8088.8	7979.3	7937.2	7852.9	7751.8	7840.3
47.5°	8337.4	8320.5	8425.9	8468.0	8476.4	8286.8	8307.9	8383.7	8173.1	7962.4	8063.5
50°	8720.8	8691.3	8821.9	8914.6	8893.5	8590.2	8666.0	8590.2	8261.5	8013.0	7975.1
52.5°	9361.1	9373.8	9512.8	9681.3	9630.8	9378.0	9268.4	8923.0	8501.7	8278.4	8147.8
55°	9765.6	9702.4	9942.5	10477.5	10536.5	10275.3	9790.8	9281.1	8649.1	8375.3	8341.6
56°	9386.4	9466.4	9845.6	10443.8	10747.2	10507.0	9803.5	9192.6	8497.5	8126.7	8101.5
57.5°	8421.6	8379.5	8893.5	9710.8	10536.5	10435.4	9458.0	8560.7	7751.8	7334.7	7284.2
60°	5240.9	5363.1	5813.8	6824.9	7928.7	7979.3	7010.3	6239.3	5295.6	4924.9	5013.4
62.5°	2051.7	1946.4	2228.6	2982.8	3741.1	3909.6	3543.1	2944.8	2418.2	2051.7	2026.4
65°	476.1	463.4	522.4	720.4	1006.9	1167.0	1108.0	796.2	585.6	556.1	514.0
67.5°	269.6	269.6	257.0	257.0	282.3	299.1	286.5	282.3	294.9	307.5	303.3
70°	189.6	185.4	176.9	181.2	172.7	172.7	185.4	206.4	223.3	223.3	227.5
72.5°	113.7	113.7	113.7	126.4	126.4	126.4	139.0	155.9	160.1	155.9	151.7
75°	50.6	50.6	59.0	71.6	80.0	84.3	96.9	105.3	113.7	105.3	96.9
77.5°	12.6	12.6	21.1	29.5	37.9	46.3	63.2	75.8	80.0	75.8	63.2
80°	4.2	4.2	8.4	21.1	37.9	46.3	63.2	67.4	71.6	63.2	50.6
82.5°	4.2	4.2	8.4	21.1	29.5	37.9	50.6	59.0	63.2	54.8	50.6
85°	0.0	4.2	8.4	16.9	25.3	33.7	33.7	25.3	21.1	12.6	16.9
87.5°	0.0	0.0	4.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)