

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: P532901

Luminaire Tested: **GALN-SA8B-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532901
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-SA8B-740-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA 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: 27576 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

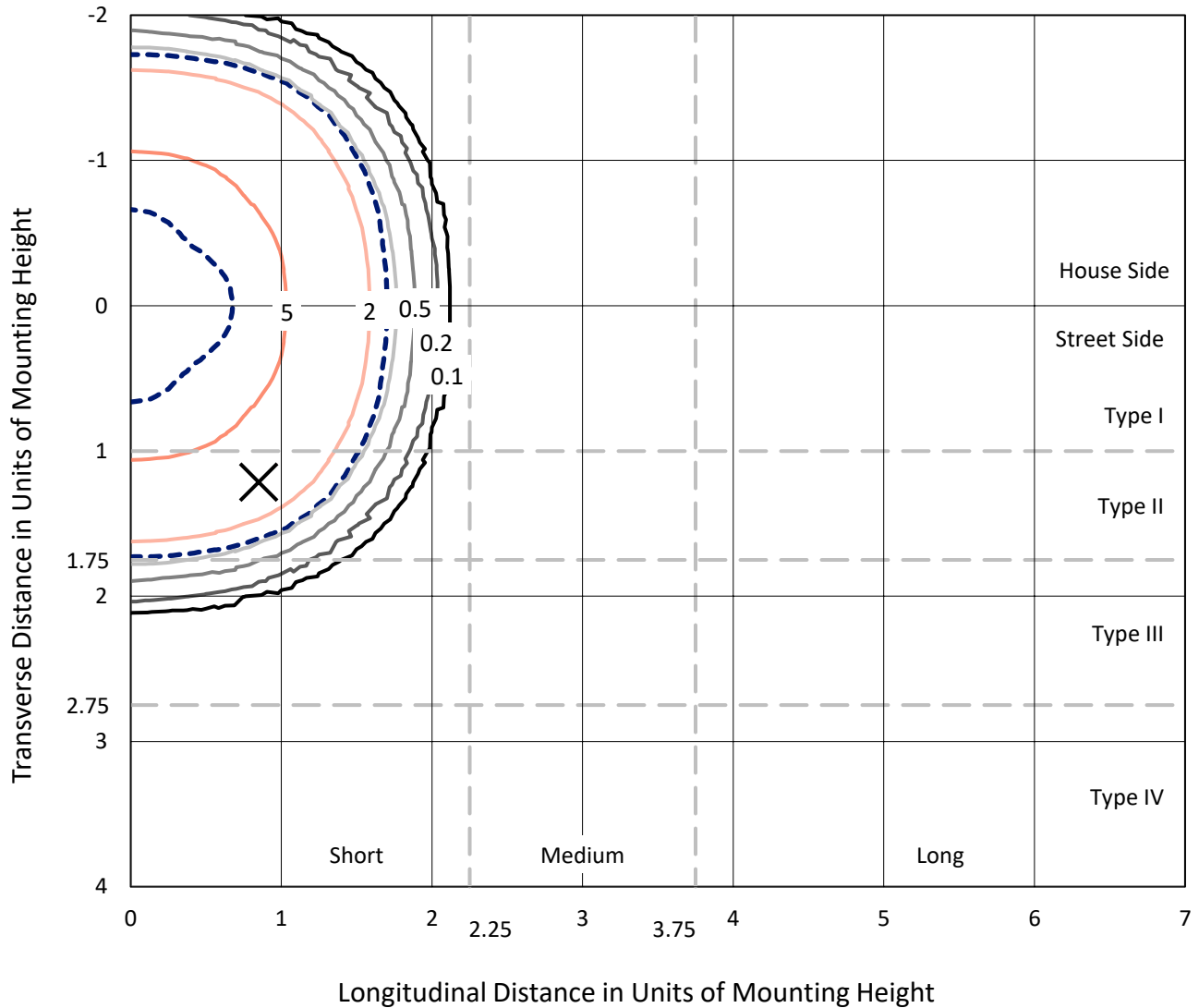
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

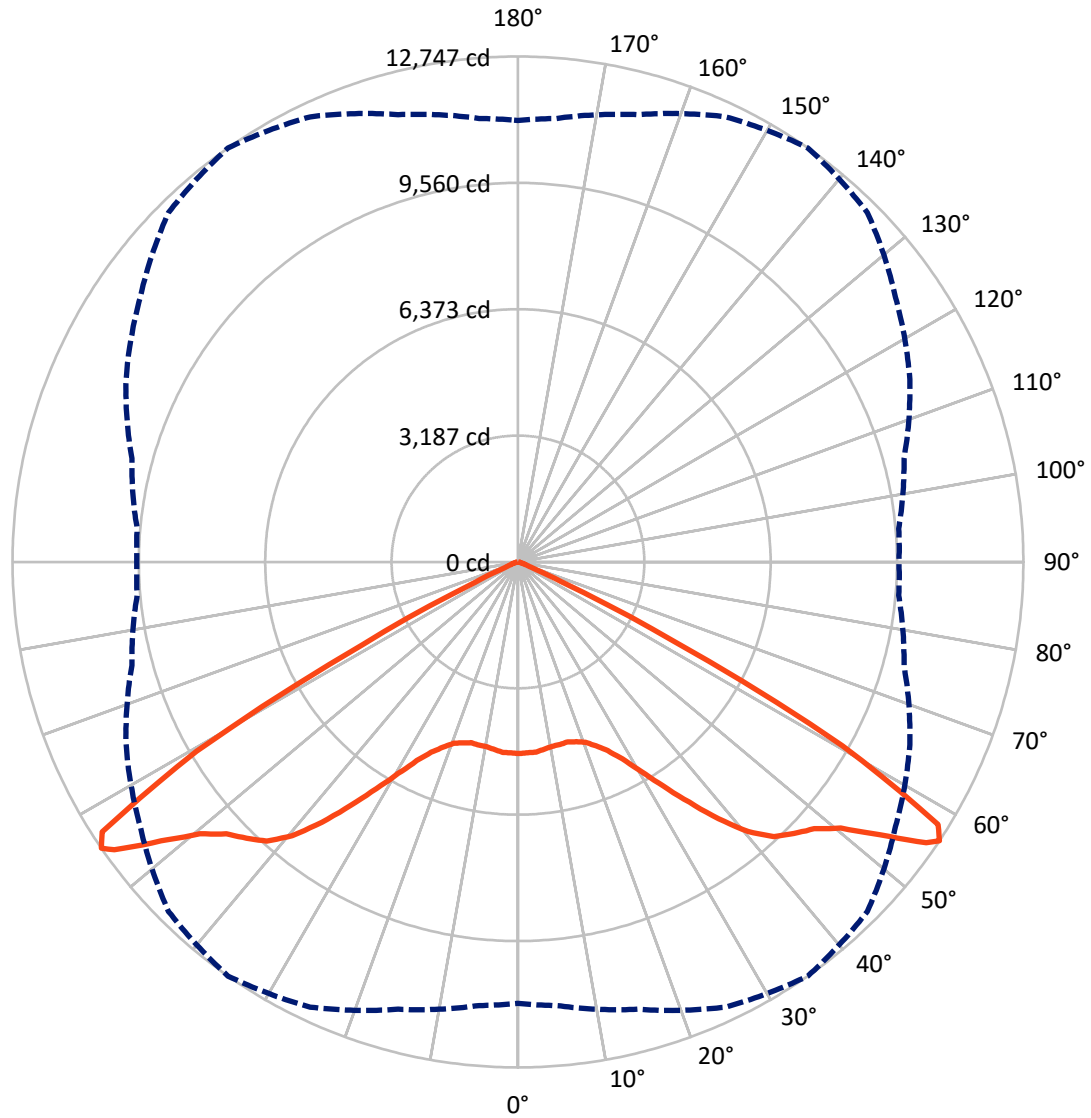
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	13788.0	0.0	13788.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13788.0	0.0	13788.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27576.0	0.0	27576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.1	1.6
10°-20°	1325.8	4.8
20°-30°	2400.9	8.7
30°-40°	4452.1	16.1
40°-50°	7307.8	26.5
50°-60°	9414.6	34.1
60°-70°	2074.9	7.5
70°-80°	120.4	0.4
80°-90°	25.4	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°	27576.0	100.0
0°-180°	27576.0	100.0

Coefficient of Utilization

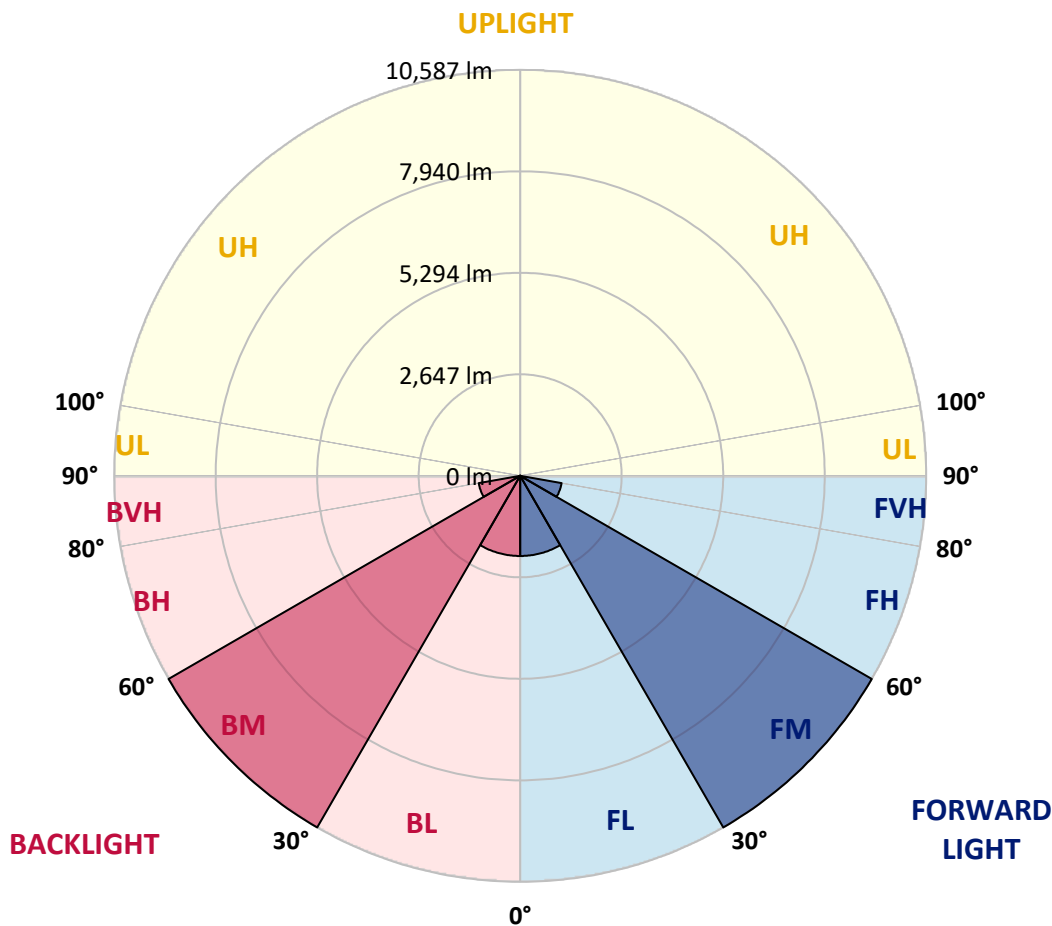


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2090.4	7.6			
FM (30°-60°)	10587.3	38.4			
FH (60°-80°)	1097.6	4.0			G1/1800
FVH (80°-90°)	12.7	0.0			G1/100
BL (0°-30°)	2090.4	7.6	B3/2500		
BM (30°-60°)	10587.3	38.4	B5		
BH (60°-80°)	1097.6	4.0	B3/2500		G1/1800
BVH (80°-90°)	12.7	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°	4831.9	4831.9	4831.9	4831.9	4831.9	4831.9	4831.9	4831.9	4831.9	4831.9	4831.9
2.5°	4841.9	4841.9	4846.9	4851.9	4816.9	4801.9	4806.9	4796.9	4791.9	4806.9	4806.9
5°	4826.9	4826.9	4811.9	4816.9	4816.9	4771.9	4771.9	4781.9	4781.9	4752.0	4742.0
7.5°	4786.9	4776.9	4757.0	4781.9	4766.9	4766.9	4732.0	4707.0	4697.0	4717.0	4697.0
10°	4702.0	4707.0	4727.0	4737.0	4727.0	4757.0	4697.0	4662.0	4627.0	4612.0	4612.0
12.5°	4662.0	4692.0	4662.0	4687.0	4722.0	4697.0	4662.0	4637.0	4587.1	4567.1	4567.1
15°	4657.0	4677.0	4687.0	4722.0	4707.0	4717.0	4647.0	4617.0	4542.1	4507.1	4492.1
17.5°	4652.0	4677.0	4692.0	4757.0	4766.9	4771.9	4717.0	4627.0	4562.1	4527.1	4492.1
20°	4707.0	4717.0	4747.0	4811.9	4851.9	4921.9	4821.9	4727.0	4587.1	4547.1	4532.1
22.5°	4776.9	4826.9	4856.9	4926.8	5031.8	5091.7	4961.8	4841.9	4697.0	4647.0	4587.1
25°	5001.8	4991.8	5041.8	5186.7	5271.6	5316.6	5211.7	5036.8	4846.9	4786.9	4796.9
27.5°	5281.6	5291.6	5336.6	5496.5	5621.4	5691.4	5566.4	5336.6	5151.7	5051.8	5041.8
30°	5646.4	5636.4	5686.4	5901.2	6126.1	6231.0	6011.2	5741.3	5561.4	5431.5	5461.5
32.5°	6031.1	6036.1	6176.0	6370.9	6735.7	6940.6	6585.8	6256.0	5986.2	5896.2	5851.3
35°	6600.8	6625.8	6735.7	7035.5	7440.2	7705.1	7315.3	6920.6	6610.8	6445.9	6465.9
37.5°	7305.3	7280.3	7465.2	7790.0	8214.7	8409.6	8079.8	7630.1	7315.3	7205.4	7275.3
40°	8054.8	8079.8	8174.8	8469.6	8944.3	9074.2	8584.5	8339.7	8064.8	8009.9	8094.8
42.5°	8804.4	8789.4	8859.3	9124.2	9468.9	9379.0	9089.2	8944.3	8749.4	8639.5	8754.4
45°	9354.0	9329.0	9458.9	9638.8	9763.8	9593.9	9463.9	9414.0	9314.0	9194.1	9299.0
47.5°	9888.7	9868.7	9993.6	10043.6	10053.6	9828.7	9853.7	9943.6	9693.8	9444.0	9563.9
50°	10343.4	10308.4	10463.3	10573.2	10548.3	10188.5	10278.4	10188.5	9798.7	9503.9	9458.9
52.5°	11102.9	11117.9	11282.8	11482.7	11422.7	11122.9	10993.0	10583.2	10083.5	9818.7	9663.8
55°	11582.6	11507.6	11792.5	12427.0	12497.0	12187.2	11612.6	11008.0	10258.4	9933.6	9893.7
56°	11132.9	11227.8	11677.5	12387.1	12746.8	12462.0	11627.6	10903.0	10078.6	9638.8	9608.9
57.5°	9988.6	9938.6	10548.3	11517.6	12497.0	12377.1	11217.8	10153.5	9194.1	8699.4	8639.5
60°	6216.0	6360.9	6895.6	8094.8	9404.0	9463.9	8314.7	7400.3	6281.0	5841.3	5946.2
62.5°	2433.4	2308.5	2643.3	3537.7	4437.2	4637.0	4202.3	3492.8	2868.2	2433.4	2403.5
65°	564.6	549.6	619.6	854.5	1194.2	1384.1	1314.2	944.4	694.6	659.6	609.6
67.5°	319.8	319.8	304.8	304.8	334.8	354.8	339.8	334.8	349.8	364.8	359.8
70°	224.9	219.9	209.9	214.9	204.9	204.9	219.9	244.8	264.8	264.8	269.8
72.5°	134.9	134.9	134.9	149.9	149.9	149.9	164.9	184.9	189.9	184.9	179.9
75°	60.0	60.0	70.0	84.9	94.9	99.9	114.9	124.9	134.9	124.9	114.9
77.5°	15.0	15.0	25.0	35.0	45.0	55.0	75.0	89.9	94.9	89.9	75.0
80°	5.0	5.0	10.0	25.0	45.0	55.0	75.0	79.9	84.9	75.0	60.0
82.5°	5.0	5.0	10.0	25.0	35.0	45.0	60.0	70.0	75.0	65.0	60.0
85°	0.0	5.0	10.0	20.0	30.0	40.0	40.0	30.0	25.0	15.0	20.0
87.5°	0.0	0.0	5.0	5.0	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)