

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: P534257

Luminaire Tested: **GALN-SA9D-730-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33315 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

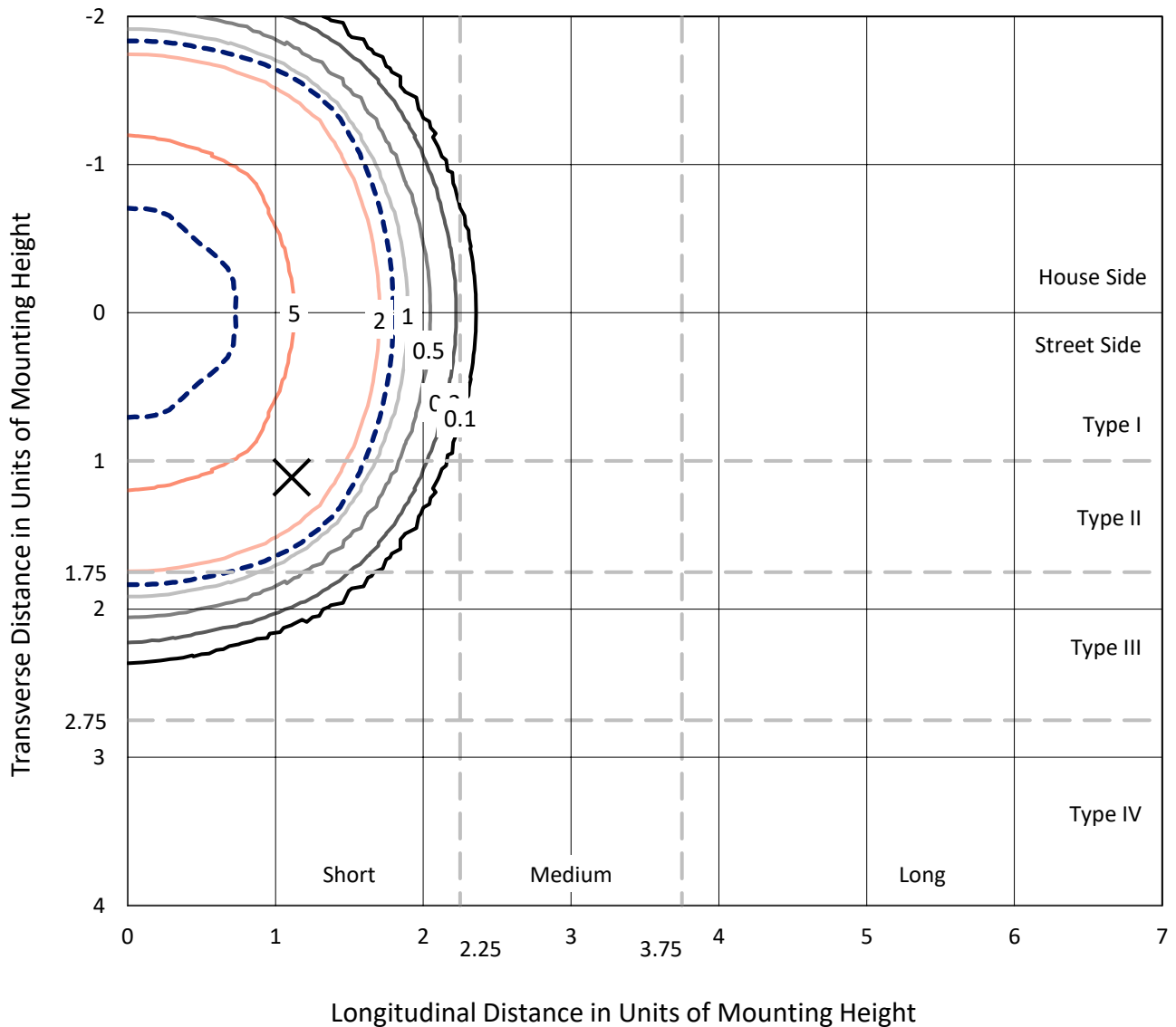
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

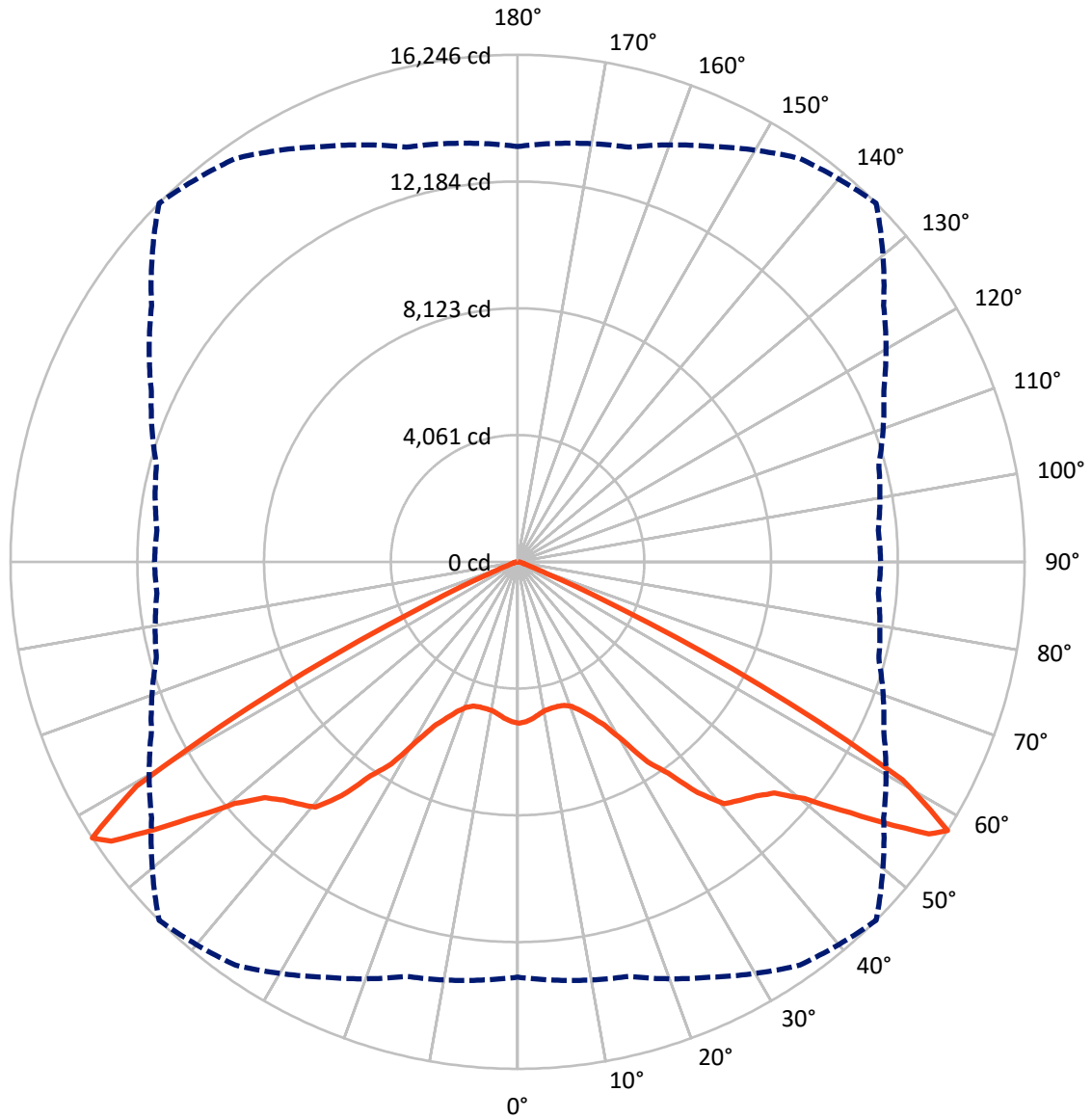
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16657.5	0.0	16657.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16657.5	0.0	16657.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33315.0	0.0	33315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.9	1.4
10°-20°	1372.6	4.1
20°-30°	2533.6	7.6
30°-40°	4982.7	15.0
40°-50°	8115.4	24.4
50°-60°	11573.5	34.7
60°-70°	4007.0	12.0
70°-80°	215.0	0.6
80°-90°	40.4	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°	33315.0	100.0
0°-180°	33315.0	100.0

Coefficient of Utilization



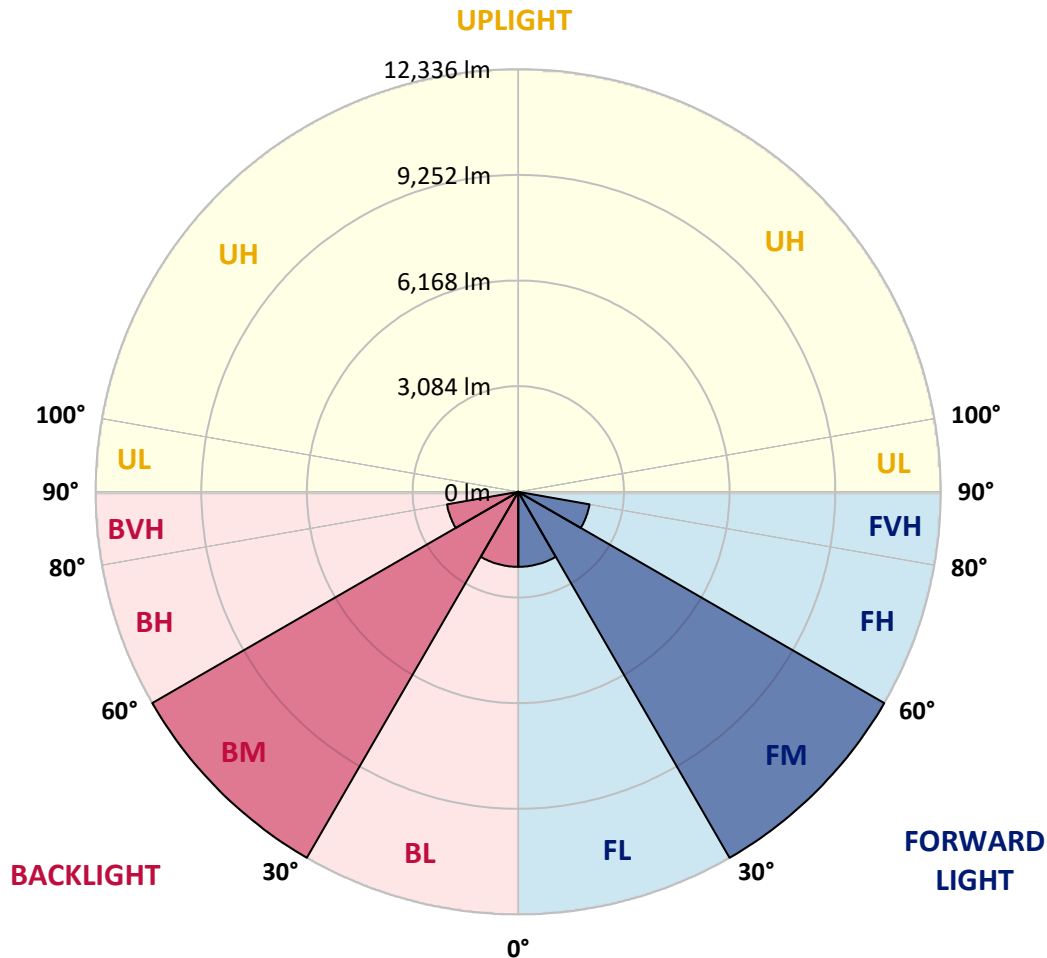
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2190.5	6.6			
FM	(30°-60°)	12335.8	37.0			
FH	(60°-80°)	2111.0	6.3			G2/5000
FVH	(80°-90°)	20.2	0.1			G1/100
BL	(0°-30°)	2190.5	6.6	B3/2500		
BM	(30°-60°)	12335.8	37.0	B5		
BH	(60°-80°)	2111.0	6.3	B3/2500		G2/5000
BVH	(80°-90°)	20.2	0.1			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°	5167.5	5167.5	5167.5	5167.5	5167.5	5167.5	5167.5	5167.5	5167.5	5167.5	5167.5
2.5°	5153.6	5181.4	5146.7	5132.8	5125.8	5125.8	5105.0	5105.0	5098.0	5105.0	5077.2
5°	5070.3	5098.0	5098.0	5091.1	5049.4	5042.5	5021.6	5007.8	5014.7	4986.9	5007.8
7.5°	4986.9	5007.8	4980.0	4973.0	4959.1	4931.4	4924.4	4861.9	4868.8	4868.8	4882.7
10°	4973.0	4966.1	4924.4	4889.7	4848.0	4841.1	4820.2	4806.3	4806.3	4799.4	4820.2
12.5°	4973.0	4938.3	4931.4	4855.0	4785.5	4813.3	4757.7	4723.0	4771.6	4785.5	4813.3
15°	4966.1	5000.8	4882.7	4848.0	4799.4	4806.3	4757.7	4723.0	4750.8	4764.7	4785.5
17.5°	5007.8	4986.9	4952.2	4882.7	4861.9	4834.1	4771.6	4743.8	4743.8	4778.6	4785.5
20°	5118.9	5063.3	4993.9	4959.1	4980.0	4945.2	4868.8	4764.7	4792.4	4820.2	4841.1
22.5°	5223.1	5181.4	5132.8	5111.9	5230.0	5174.5	5042.5	4924.4	4882.7	4931.4	4966.1
25°	5424.5	5424.5	5334.2	5362.0	5493.9	5500.9	5348.1	5139.7	5111.9	5132.8	5146.7
27.5°	5834.3	5855.1	5778.7	5806.5	5862.1	5910.7	5778.7	5605.1	5542.6	5535.6	5556.5
30°	6278.8	6320.5	6313.5	6431.6	6591.3	6619.1	6424.7	6139.9	5952.4	5917.6	5945.4
32.5°	6862.2	6883.1	6869.2	7008.1	7438.7	7640.1	7133.1	6730.3	6480.2	6542.7	6480.2
35°	7959.6	7938.8	7786.0	7813.8	8168.0	8313.8	7827.7	7570.7	7452.6	7577.6	7549.8
37.5°	8904.2	8827.8	8702.8	8883.4	9251.5	9383.5	8876.4	8425.0	8209.7	8418.0	8508.3
40°	9703.0	9508.5	9334.8	9515.4	10008.6	10189.2	9446.0	9077.9	8994.5	9147.3	9341.8
42.5°	10376.7	10251.7	10022.5	10036.4	10362.8	10446.1	9848.8	9633.5	9550.2	9793.3	9890.5
45°	10855.9	10737.9	10522.5	10508.7	10758.7	10703.1	10168.3	10022.5	10071.1	10230.8	10279.4
47.5°	11099.0	11161.5	11036.5	11071.2	11203.2	11071.2	10647.6	10647.6	10536.4	10633.7	10585.1
50°	11800.5	11606.1	11765.8	11765.8	11904.7	11918.6	11494.9	11342.1	11043.5	10876.8	10876.8
52.5°	12620.1	12634.0	12696.5	12925.7	13161.9	13363.3	12759.0	12106.1	11606.1	11390.7	11363.0
55°	13293.8	13432.7	13682.8	14113.4	14794.1	15071.9	14030.1	12863.2	12252.0	11918.6	11849.1
56°	13661.9	13530.0	13960.6	14551.0	15440.0	15801.2	14238.4	13016.0	12342.3	11967.2	11960.3
57.5°	13307.7	13453.6	13752.2	14682.9	15773.4	16245.7	14314.8	12946.5	11981.1	11599.1	11633.8
60°	10508.7	10647.6	11050.4	12092.2	13800.9	14169.0	12113.1	10675.3	9814.1	9265.4	9272.3
62.5°	5945.4	6049.6	6362.1	7327.6	8390.3	8744.5	7549.8	6591.3	5994.0	5688.4	5591.2
65°	2187.9	2146.2	2194.8	2687.9	3340.8	3639.5	3139.4	2653.2	2340.7	2229.5	2187.9
67.5°	819.6	757.1	708.4	757.1	951.5	1007.1	923.8	771.0	722.3	743.2	757.1
70°	507.0	479.2	382.0	361.2	354.2	347.3	368.1	389.0	444.5	520.9	534.8
72.5°	354.2	333.4	270.9	257.0	243.1	236.1	270.9	298.7	347.3	402.8	409.8
75°	138.9	145.9	138.9	152.8	159.7	166.7	194.5	215.3	236.1	236.1	229.2
77.5°	27.8	27.8	41.7	55.6	69.5	90.3	132.0	152.8	159.7	152.8	132.0
80°	0.0	0.0	13.9	27.8	55.6	76.4	118.1	132.0	145.9	132.0	104.2
82.5°	0.0	0.0	13.9	34.7	55.6	69.5	111.1	138.9	159.7	145.9	111.1
85°	0.0	0.0	13.9	27.8	41.7	48.6	48.6	34.7	34.7	20.8	13.9
87.5°	0.0	0.0	0.0	0.0	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)