

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: P534309

Luminaire Tested: **GALN-SA9D-740-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534309
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-740-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 36581 lumens
Efficiency: N/A
Efficacy: 66.3 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

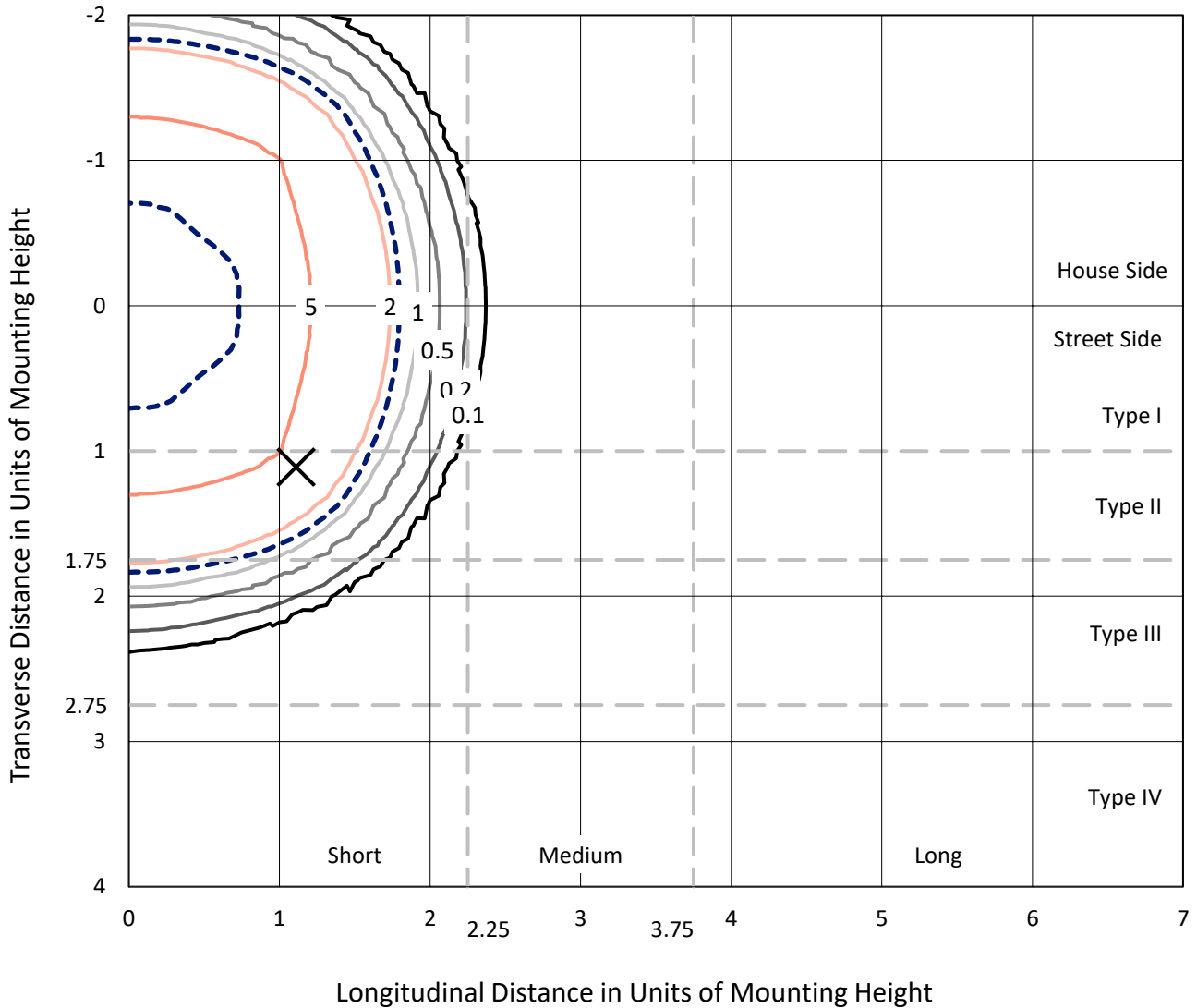
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

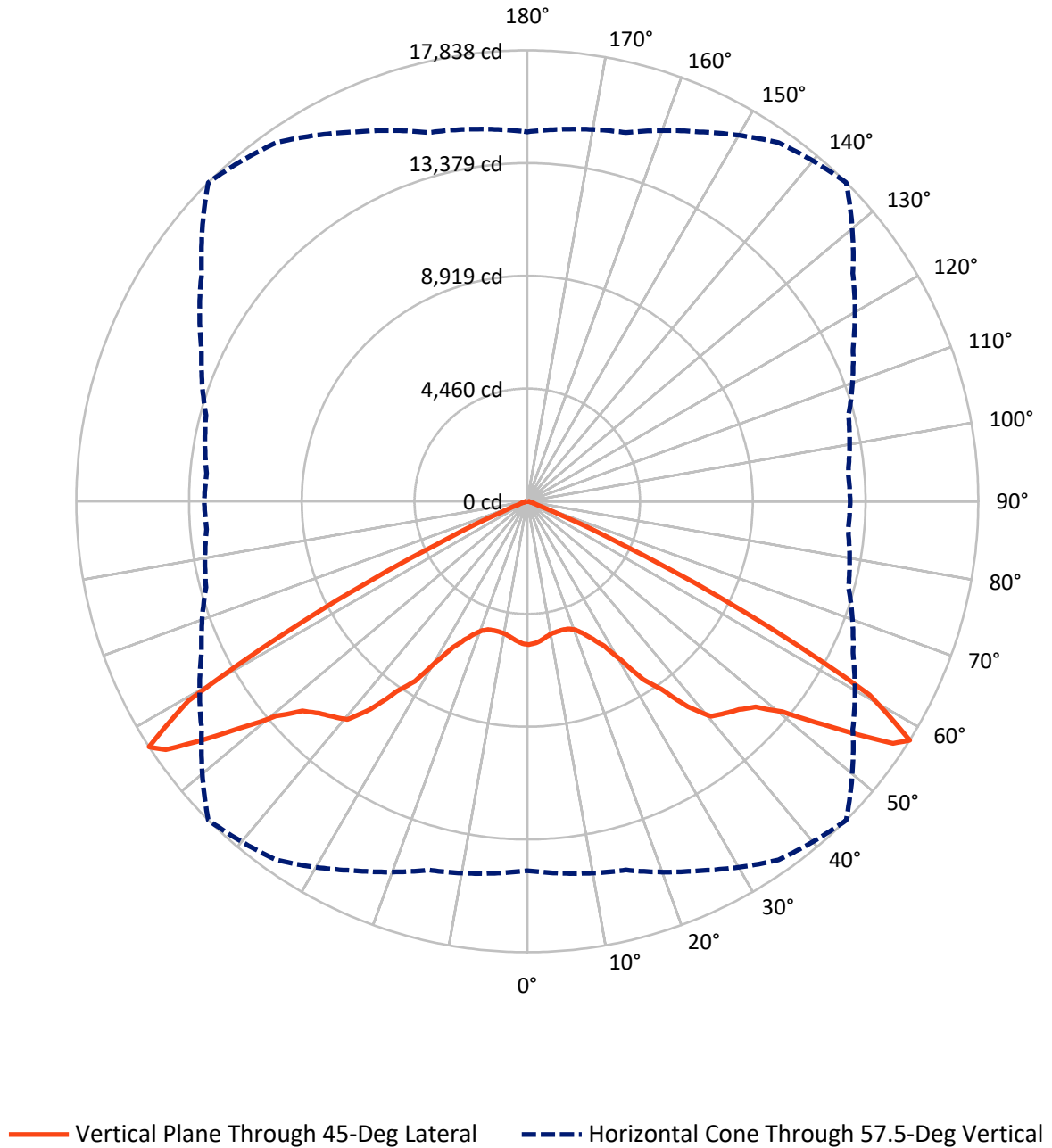
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18290.5	0.0	18290.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18290.5	0.0	18290.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36581.0	0.0	36581.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.4	1.4
10°-20°	1507.2	4.1
20°-30°	2782.0	7.6
30°-40°	5471.1	15.0
40°-50°	8911.0	24.4
50°-60°	12708.1	34.7
60°-70°	4399.9	12.0
70°-80°	236.0	0.6
80°-90°	44.3	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°	36581.0	100.0
0°-180°	36581.0	100.0

Coefficient of Utilization



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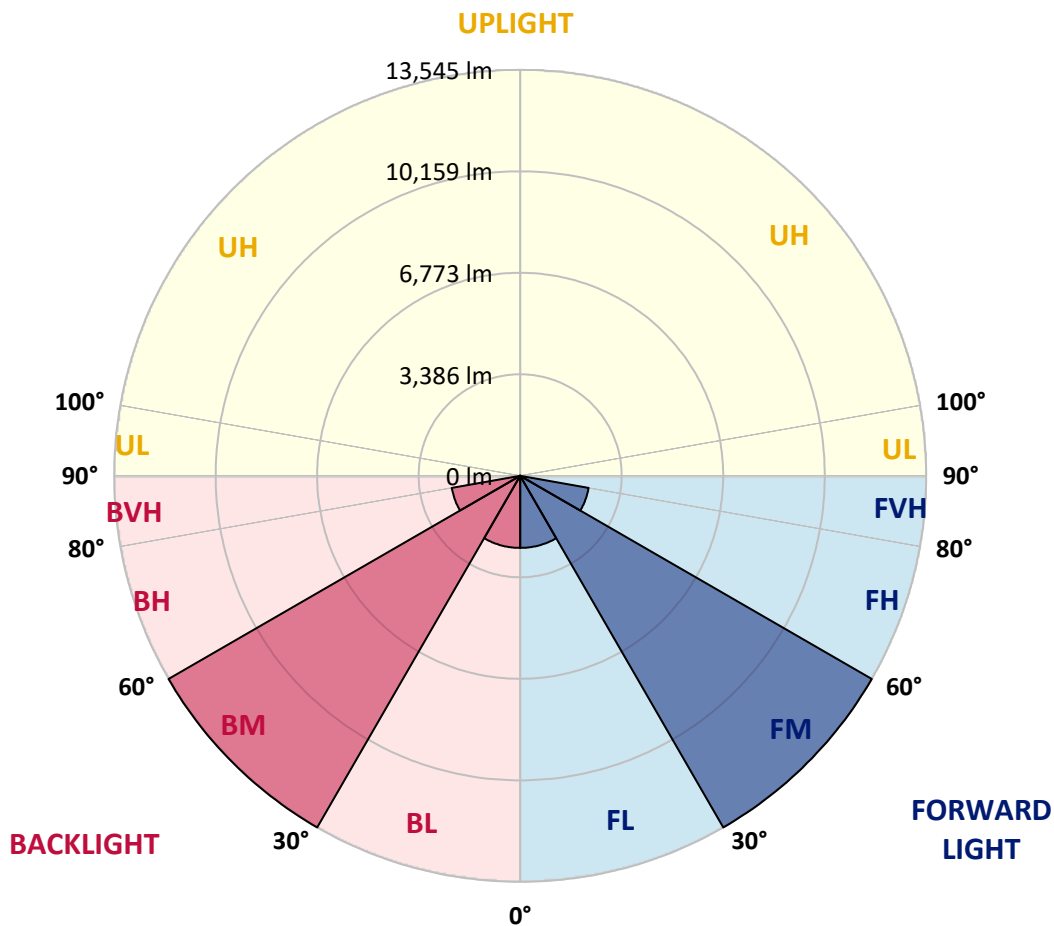
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2405.3	6.6			
FM (30°-60°)	13545.1	37.0			
FH (60°-80°)	2317.9	6.3			G2/5000
FVH (80°-90°)	22.2	0.1			G1/100
BL (0°-30°)	2405.3	6.6	B3/2500		
BM (30°-60°)	13545.1	37.0	B5		
BH (60°-80°)	2317.9	6.3	B3/2500		G2/5000
BVH (80°-90°)	22.2	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°	5674.1	5674.1	5674.1	5674.1	5674.1	5674.1	5674.1	5674.1	5674.1	5674.1	5674.1
2.5°	5658.8	5689.3	5651.2	5636.0	5628.3	5628.3	5605.5	5605.5	5597.8	5605.5	5575.0
5°	5567.3	5597.8	5597.8	5590.2	5544.4	5536.8	5513.9	5498.7	5506.3	5475.8	5498.7
7.5°	5475.8	5498.7	5468.2	5460.6	5445.3	5414.8	5407.2	5338.5	5346.2	5346.2	5361.4
10°	5460.6	5452.9	5407.2	5369.0	5323.3	5315.7	5292.8	5277.5	5277.5	5269.9	5292.8
12.5°	5460.6	5422.4	5414.8	5330.9	5254.6	5285.1	5224.1	5186.0	5239.4	5254.6	5285.1
15°	5452.9	5491.1	5361.4	5323.3	5269.9	5277.5	5224.1	5186.0	5216.5	5231.8	5254.6
17.5°	5498.7	5475.8	5437.7	5361.4	5338.5	5308.0	5239.4	5208.9	5208.9	5247.0	5254.6
20°	5620.7	5559.7	5483.4	5445.3	5468.2	5430.0	5346.2	5231.8	5262.3	5292.8	5315.7
22.5°	5735.1	5689.3	5636.0	5613.1	5742.7	5681.7	5536.8	5407.2	5361.4	5414.8	5452.9
25°	5956.3	5956.3	5857.1	5887.6	6032.5	6040.2	5872.4	5643.6	5613.1	5636.0	5651.2
27.5°	6406.2	6429.1	6345.2	6375.7	6436.7	6490.1	6345.2	6154.6	6085.9	6078.3	6101.2
30°	6894.3	6940.1	6932.5	7062.1	7237.5	7268.0	7054.5	6741.8	6535.9	6497.8	6528.3
32.5°	7535.0	7557.8	7542.6	7695.1	8168.0	8389.1	7832.4	7390.1	7115.5	7184.1	7115.5
35°	8739.9	8717.1	8549.3	8579.8	8968.7	9128.9	8595.0	8312.9	8183.2	8320.5	8290.0
37.5°	9777.1	9693.2	9556.0	9754.3	10158.5	10303.4	9746.6	9250.9	9014.5	9243.3	9342.4
40°	10654.2	10440.6	10250.0	10448.3	10989.7	11188.0	10372.0	9967.8	9876.3	10044.1	10257.6
42.5°	11394.0	11256.7	11005.0	11020.3	11378.7	11470.2	10814.3	10577.9	10486.4	10753.3	10860.1
45°	11920.2	11790.5	11554.1	11538.9	11813.4	11752.4	11165.2	11005.0	11058.4	11233.8	11287.2
47.5°	12187.1	12255.7	12118.5	12156.6	12301.5	12156.6	11691.4	11691.4	11569.4	11676.1	11622.7
50°	12957.4	12743.8	12919.2	12919.2	13071.8	13087.0	12621.8	12454.0	12126.1	11943.1	11943.1
52.5°	13857.3	13872.6	13941.2	14192.9	14452.2	14673.3	14009.8	13292.9	12743.8	12507.4	12476.9
55°	14597.1	14749.6	15024.2	15497.0	16244.4	16549.4	15405.5	14124.2	13453.1	13087.0	13010.8
56°	15001.3	14856.4	15329.2	15977.5	16953.7	17350.2	15634.3	14292.0	13552.2	13140.4	13132.8
57.5°	14612.3	14772.5	15100.4	16122.4	17319.7	17838.3	15718.2	14215.7	13155.7	12736.2	12774.3
60°	11538.9	11691.4	12133.7	13277.7	15153.8	15558.0	13300.6	11721.9	10776.2	10173.7	10181.3
62.5°	6528.3	6642.7	6985.8	8045.9	9212.8	9601.7	8290.0	7237.5	6581.6	6246.1	6139.3
65°	2402.3	2356.6	2410.0	2951.4	3668.3	3996.3	3447.2	2913.3	2570.1	2448.1	2402.3
67.5°	899.9	831.3	777.9	831.3	1044.8	1105.8	1014.3	846.5	793.2	816.0	831.3
70°	556.7	526.2	419.5	396.6	389.0	381.3	404.2	427.1	488.1	572.0	587.2
72.5°	389.0	366.1	297.4	282.2	266.9	259.3	297.4	327.9	381.3	442.3	450.0
75°	152.5	160.2	152.5	167.8	175.4	183.0	213.5	236.4	259.3	259.3	251.7
77.5°	30.5	30.5	45.8	61.0	76.3	99.1	144.9	167.8	175.4	167.8	144.9
80°	0.0	0.0	15.3	30.5	61.0	83.9	129.7	144.9	160.2	144.9	114.4
82.5°	0.0	0.0	15.3	38.1	61.0	76.3	122.0	152.5	175.4	160.2	122.0
85°	0.0	0.0	15.3	30.5	45.8	53.4	53.4	38.1	38.1	22.9	15.3
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)