

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: P457905

Luminaire Tested: **GALN-SA9B-740-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457905
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-SA9B-740-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53835 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

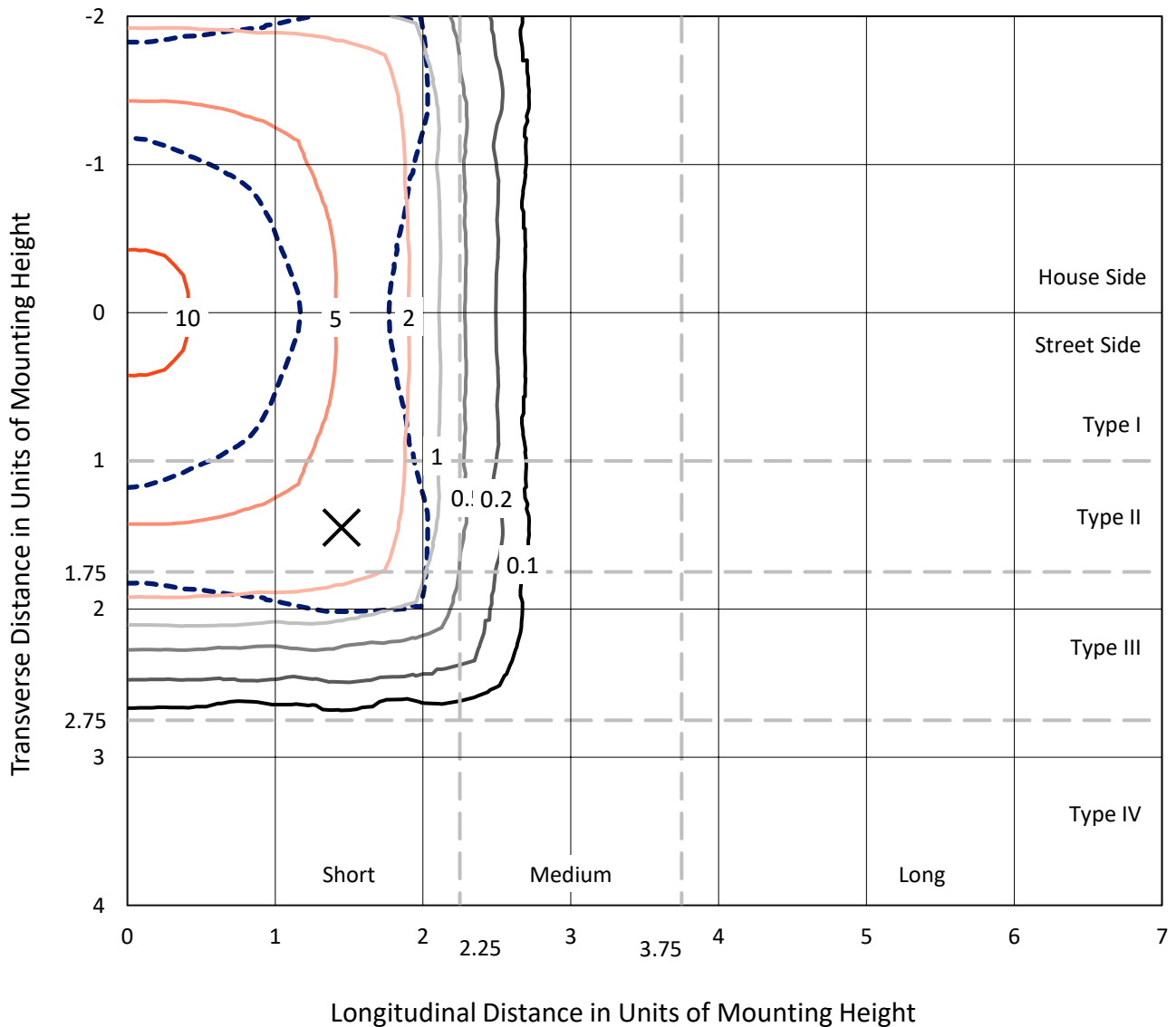
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

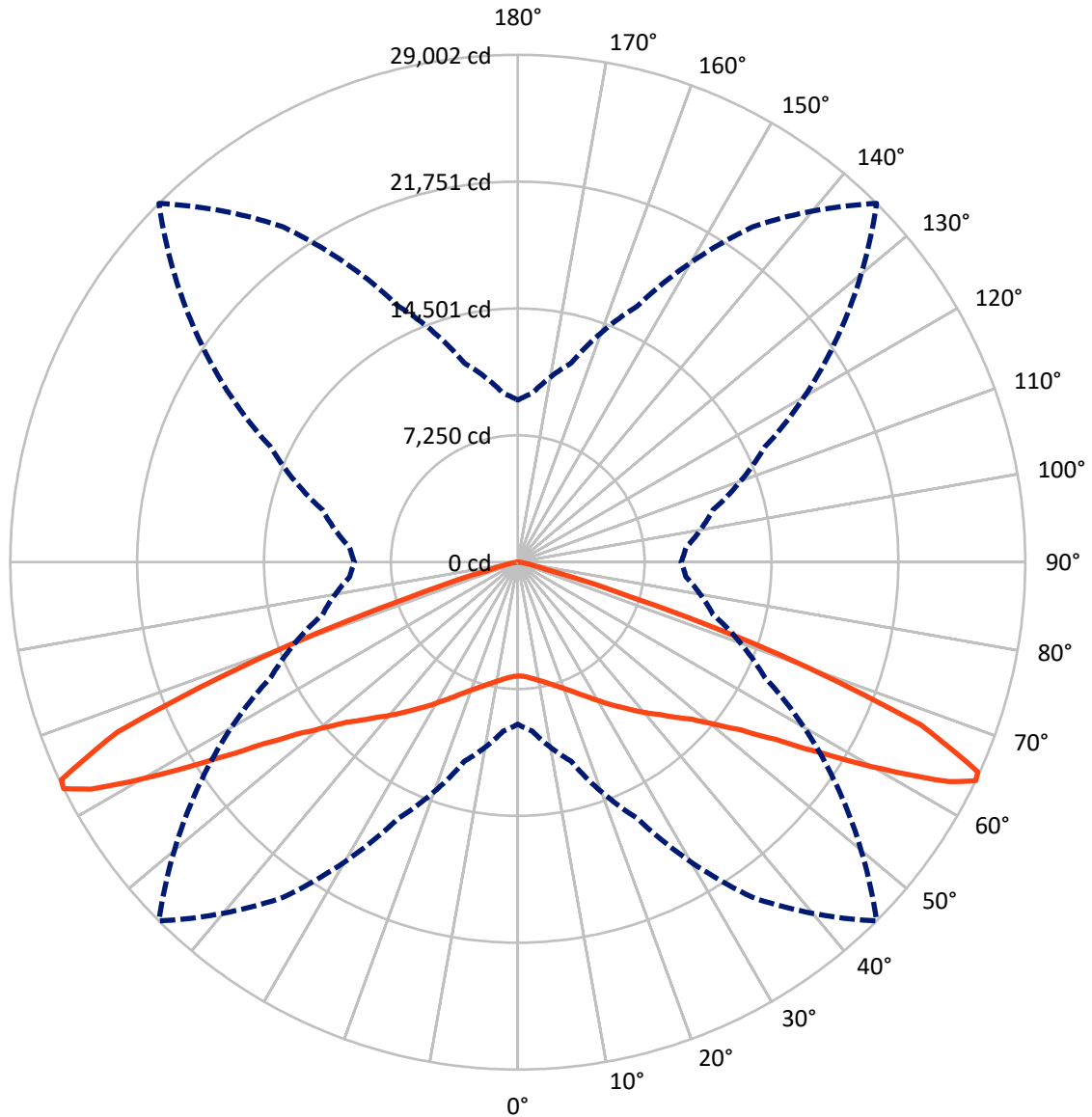
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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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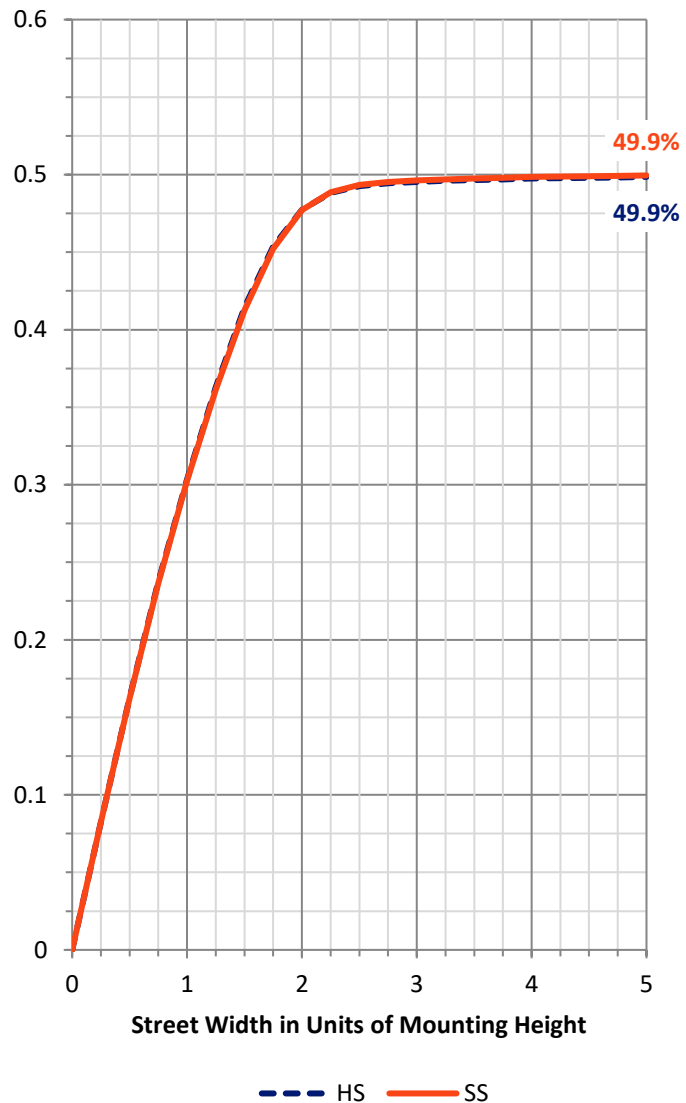
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26917.5	0.0	26917.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26917.5	0.0	26917.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	53835.0	0.0	53835.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.3	1.2
10°-20°	2062.0	3.8
20°-30°	3896.6	7.2
30°-40°	6453.2	12.0
40°-50°	10074.5	18.7
50°-60°	15575.0	28.9
60°-70°	13430.1	24.9
70°-80°	1522.0	2.8
80°-90°	182.3	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°	53835.0	100.0
0°-180°	53835.0	100.0



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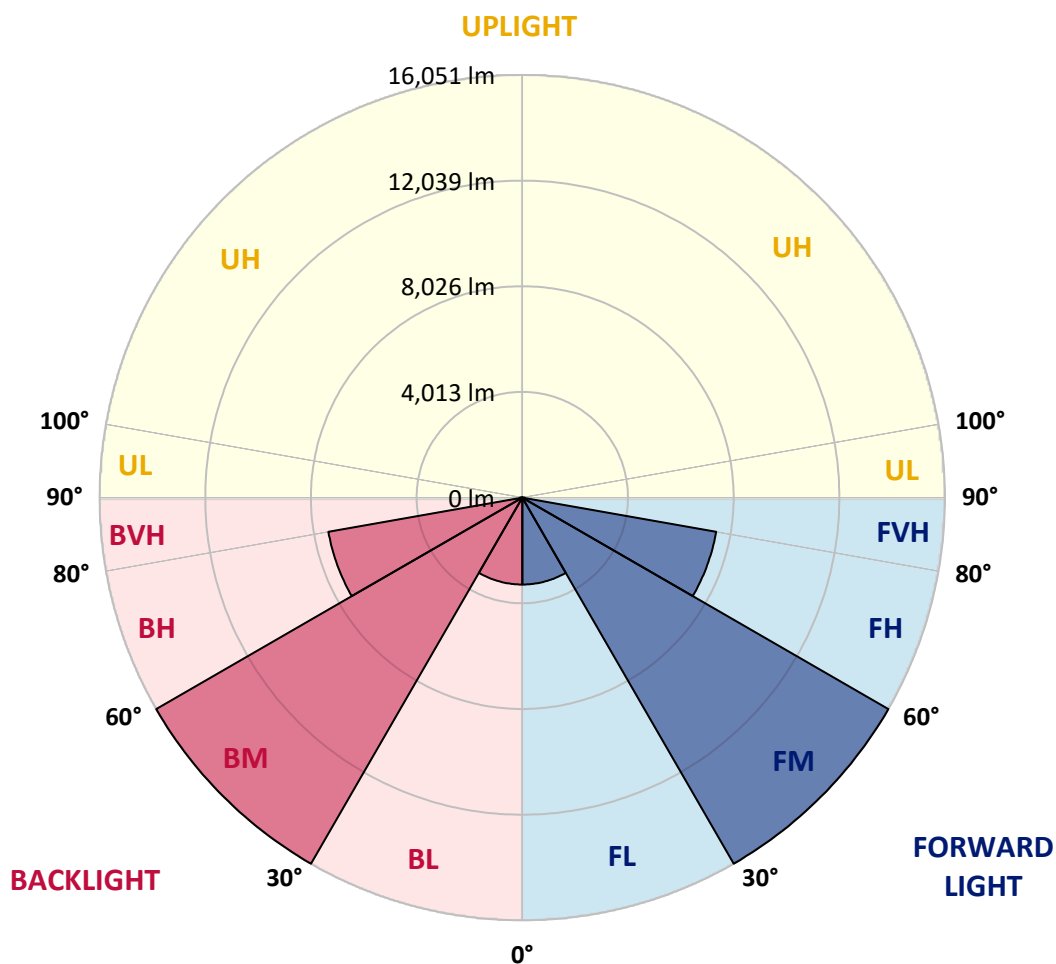
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3298.9	6.1			
FM	(30°-60°)	16051.4	29.8			
FH	(60°-80°)	7476.0	13.9			G3/7500
FVH	(80°-90°)	91.2	0.2			G1/100
BL	(0°-30°)	3298.9	6.1	B4/5000		
BM	(30°-60°)	16051.4	29.8	B5		
BH	(60°-80°)	7476.0	13.9	B5		G3/7500
BVH	(80°-90°)	91.2	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6506.9	6506.9	6506.9	6506.9	6506.9	6506.9	6506.9	6506.9	6506.9	6506.9	6506.9
2.5°	6532.5	6546.8	6535.4	6532.5	6529.7	6529.7	6529.7	6532.5	6543.9	6552.5	6546.8
5°	6615.2	6626.6	6620.9	6618.1	6615.2	6618.1	6612.4	6609.5	6618.1	6618.1	6615.2
7.5°	6717.9	6732.1	6726.4	6732.1	6735.0	6737.8	6723.6	6712.2	6709.3	6717.9	6712.2
10°	6857.6	6869.0	6871.8	6874.7	6880.4	6877.5	6860.4	6840.5	6837.6	6834.8	6831.9
12.5°	7014.4	7023.0	7025.8	7037.2	7045.8	7048.6	7028.7	7011.6	6983.0	6988.7	6977.3
15°	7191.2	7208.3	7205.5	7222.6	7245.4	7251.1	7231.1	7202.6	7176.9	7162.7	7154.1
17.5°	7407.9	7419.3	7413.6	7430.7	7459.2	7473.5	7456.4	7419.3	7393.6	7362.3	7345.2
20°	7664.5	7684.5	7690.2	7690.2	7715.9	7730.1	7704.4	7693.0	7653.1	7630.3	7616.1
22.5°	7955.4	7963.9	7981.0	7998.1	8023.8	8018.1	8009.5	7992.4	7955.4	7935.4	7912.6
25°	8283.3	8291.8	8334.6	8371.7	8380.2	8374.5	8363.1	8354.6	8320.3	8274.7	8257.6
27.5°	8665.4	8682.5	8739.5	8773.7	8773.7	8776.6	8753.8	8782.3	8708.1	8654.0	8648.3
30°	9144.4	9155.8	9204.3	9238.5	9221.4	9207.1	9201.4	9229.9	9150.1	9053.2	9030.3
32.5°	9617.7	9657.6	9700.4	9774.6	9714.7	9689.0	9683.3	9703.3	9612.0	9503.7	9472.3
35°	10125.3	10153.8	10233.6	10296.4	10242.2	10182.3	10208.0	10270.7	10162.3	10016.9	10011.2
37.5°	10687.0	10712.7	10815.3	10880.9	10841.0	10738.3	10781.1	10855.2	10746.9	10567.2	10530.2
40°	11271.5	11325.7	11454.0	11522.5	11456.9	11320.0	11399.8	11479.7	11382.7	11174.6	11091.9
42.5°	11927.4	12012.9	12198.2	12232.4	12107.0	11921.6	12061.4	12189.7	12121.2	11881.7	11850.4
45°	12694.4	12745.7	12973.8	13047.9	12874.0	12643.0	12817.0	13050.8	12999.5	12722.9	12663.0
47.5°	13552.6	13601.1	13837.8	13949.0	13729.4	13418.6	13732.3	14037.4	14006.0	13709.5	13681.0
50°	14567.7	14579.1	14907.1	15032.5	14813.0	14544.9	14824.4	15203.6	15078.1	14698.9	14693.2
52.5°	15679.8	15694.0	16107.5	16349.9	16227.2	15925.0	16255.8	16486.7	16167.4	15671.2	15634.2
55°	16643.5	16714.8	17279.4	17923.8	18092.1	17872.5	17972.3	17863.9	17077.0	16381.2	16272.9
57.5°	17037.0	17176.8	18035.0	19238.3	20333.2	20658.3	19888.4	18856.2	17439.1	16455.4	16349.9
60°	16076.1	16227.2	17558.8	19842.8	22637.2	24048.6	21884.4	19024.5	16615.0	15232.1	15066.7
62.5°	12874.0	12916.8	14875.7	18420.0	23980.2	27635.6	22725.6	17590.2	14217.0	12338.0	12272.4
64°	9264.2	9703.3	11779.1	16150.3	23392.8	29001.5	22240.8	15580.0	11548.1	9646.2	9338.3
65°	6928.9	7048.6	9495.1	13792.2	22357.7	28898.8	21299.9	13658.1	9563.6	7382.2	7040.1
67.5°	2617.6	2631.8	3504.4	6874.7	15916.4	24864.1	16255.8	7430.7	4029.0	2914.1	2808.6
70°	1086.4	1106.3	1286.0	2312.5	6840.5	15964.9	7838.5	2680.3	1474.2	1194.7	1177.6
72.5°	795.5	806.9	861.1	1026.5	2104.3	6555.3	2577.7	1137.7	864.0	772.7	764.2
75°	624.5	630.2	670.1	755.6	980.9	1816.3	1072.1	781.3	658.7	593.1	587.4
77.5°	476.2	490.4	519.0	576.0	658.7	861.1	710.0	584.5	507.5	453.4	444.8
80°	327.9	345.0	399.2	422.0	442.0	558.9	484.7	442.0	396.3	330.8	310.8
82.5°	202.4	213.9	268.0	288.0	279.4	313.7	310.8	316.5	282.3	205.3	191.0
85°	105.5	111.2	145.4	151.1	139.7	128.3	159.7	185.3	173.9	116.9	114.1
87.5°	22.8	25.7	31.4	28.5	31.4	31.4	39.9	59.9	62.7	39.9	37.1
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)