

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: P533144

Luminaire Tested: **GALN-SA8C-740-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49745 lumens
Efficiency: N/A
Efficacy: 116.0 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

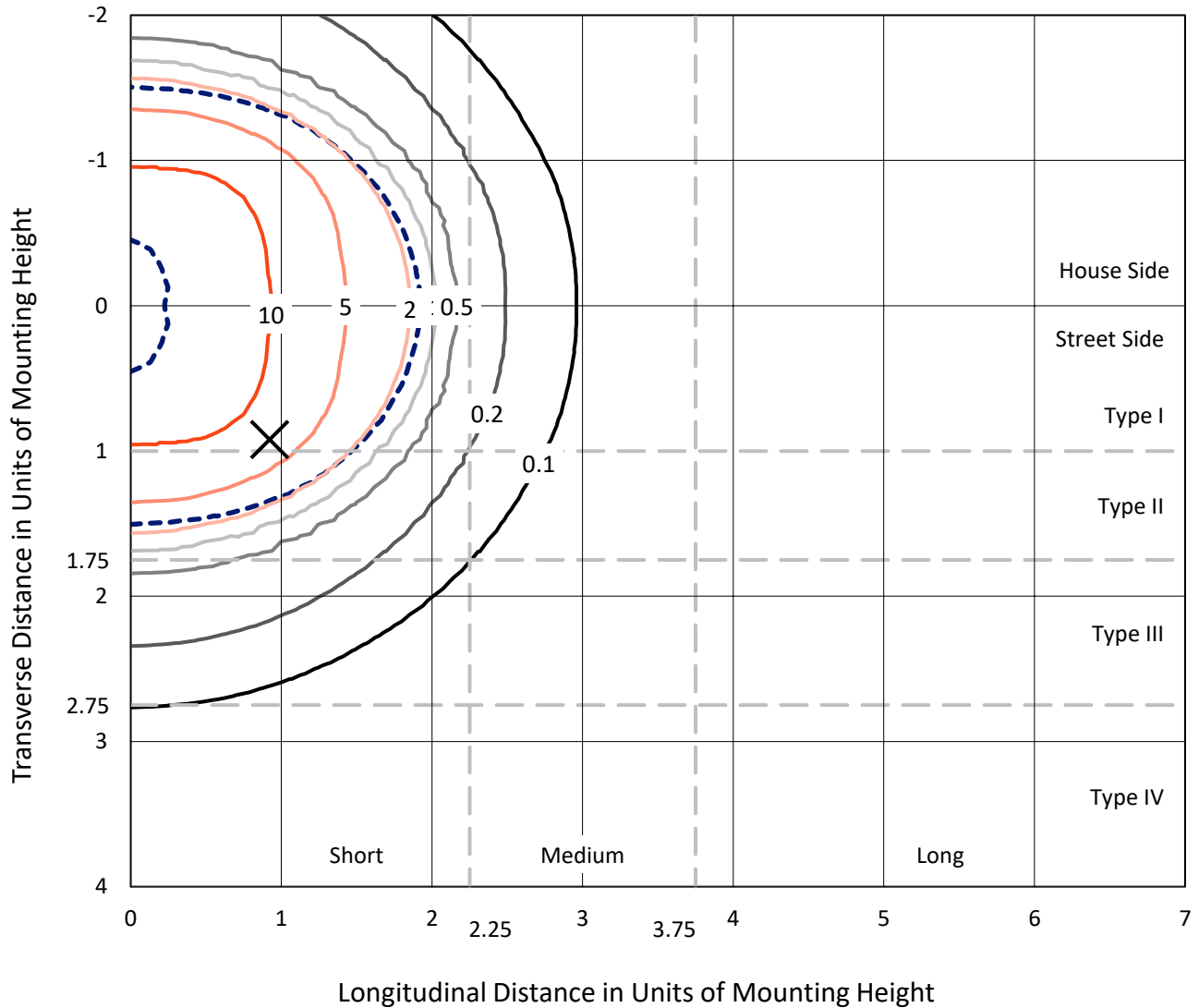
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

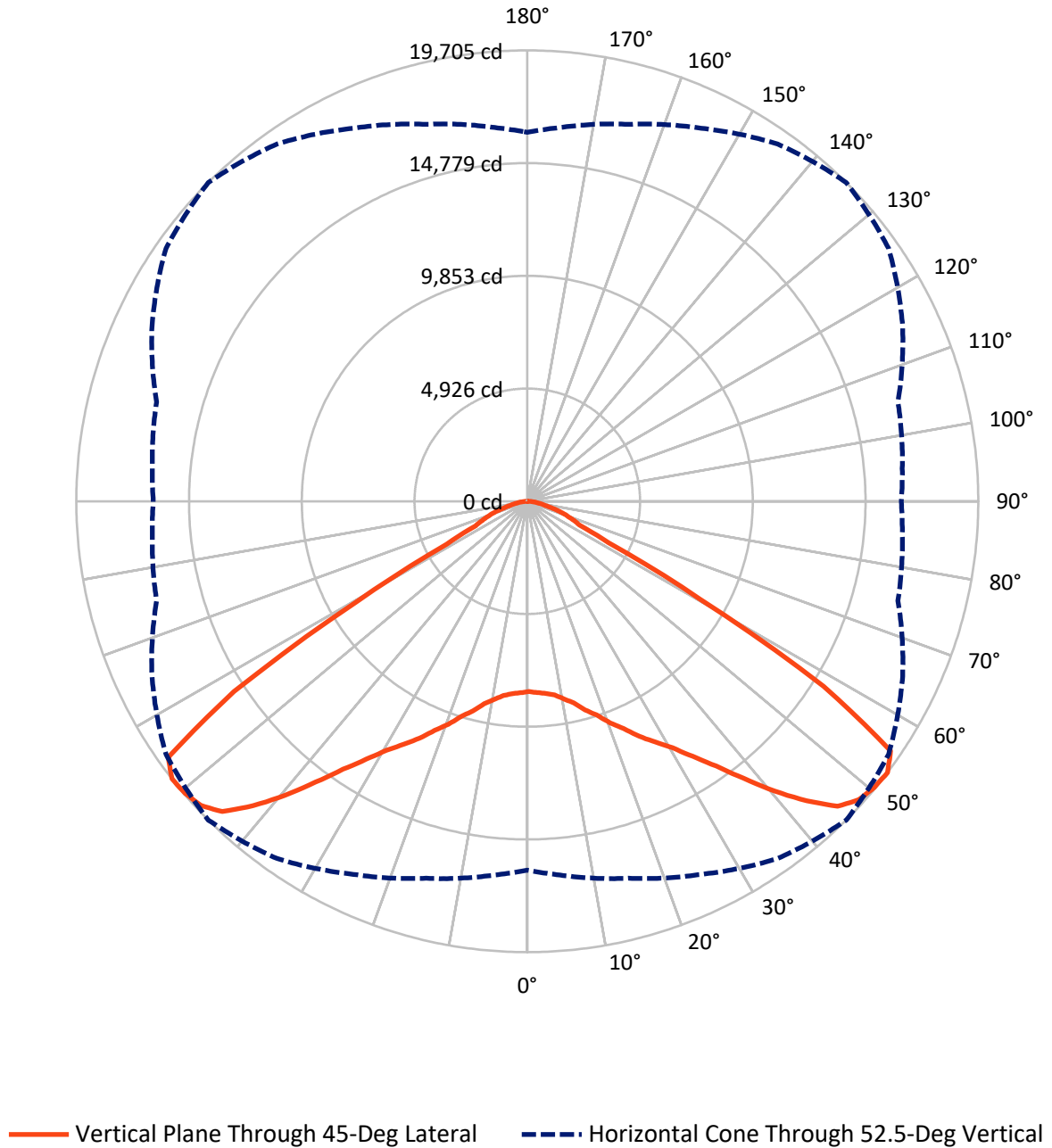
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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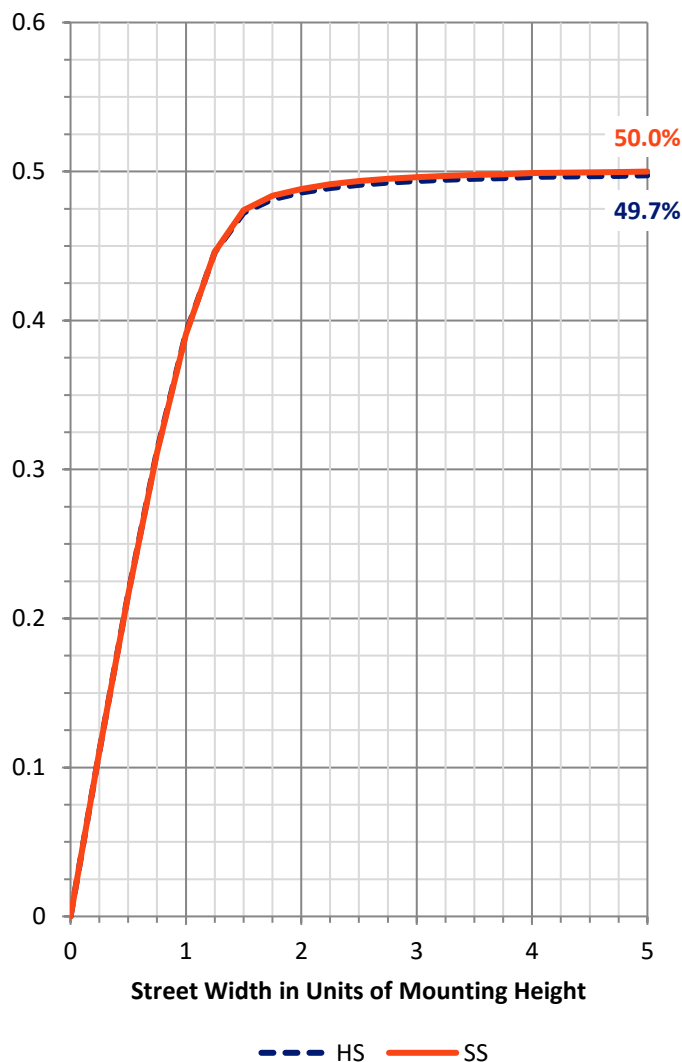
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24872.5	0.0	24872.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24872.5	0.0	24872.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	49745.0	0.0	49745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.0	1.6
10°-20°	2684.5	5.4
20°-30°	5111.0	10.3
30°-40°	8775.9	17.6
40°-50°	13488.8	27.1
50°-60°	13697.6	27.5
60°-70°	3817.3	7.7
70°-80°	1126.1	2.3
80°-90°	226.8	0.5
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°	49745.0	100.0
0°-180°	49745.0	100.0

Coefficient of Utilization



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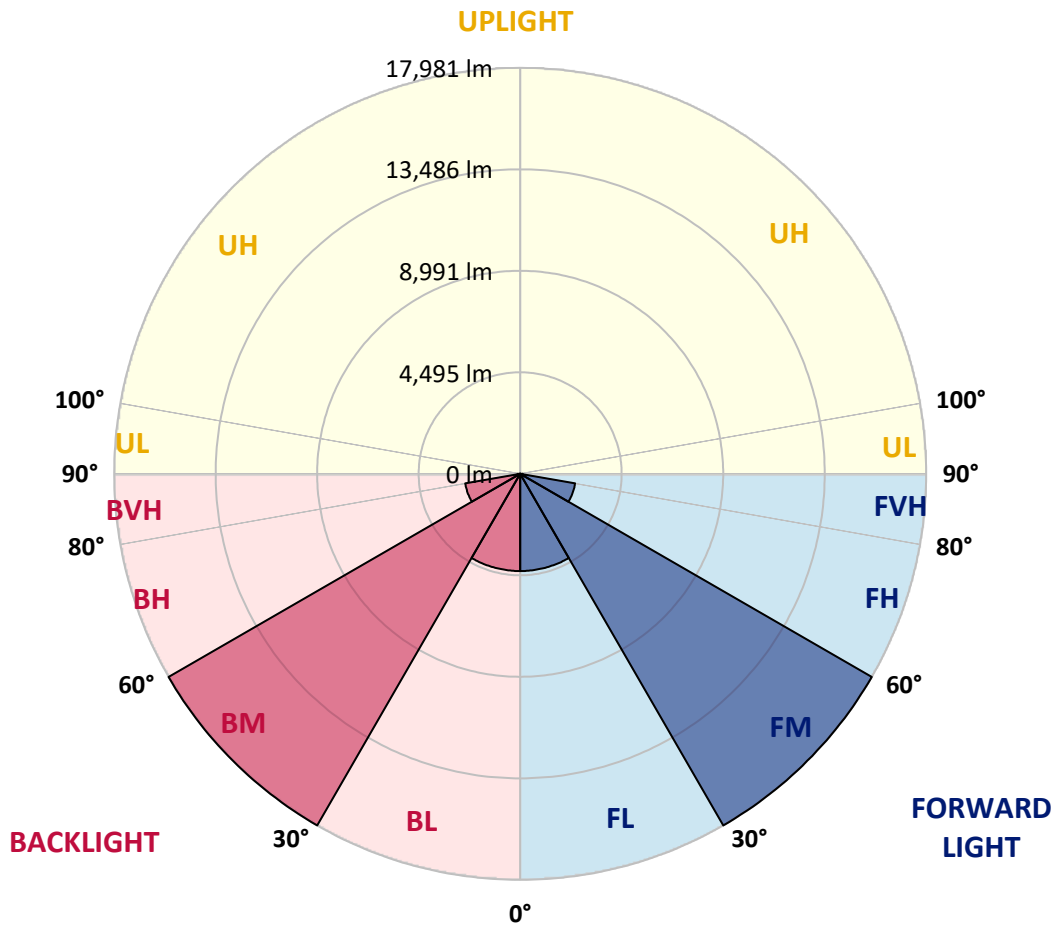
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4306.2	8.7			
FM	(30°-60°)	17981.1	36.1			
FH	(60°-80°)	2471.7	5.0			G2/5000
FVH	(80°-90°)	113.4	0.2			G2/225
BL	(0°-30°)	4306.2	8.7	B4/5000		
BM	(30°-60°)	17981.1	36.1	B5		
BH	(60°-80°)	2471.7	5.0	B3/2500		G2/5000
BVH	(80°-90°)	113.4	0.2			G2/225
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°	8315.5	8315.5	8315.5	8315.5	8315.5	8315.5	8315.5	8315.5	8315.5	8315.5	8315.5
2.5°	8334.1	8247.6	8278.5	8297.0	8377.3	8371.1	8352.6	8377.3	8402.0	8408.1	8395.8
5°	8327.9	8266.1	8290.8	8309.4	8389.6	8432.8	8420.5	8525.4	8599.5	8581.0	8673.6
7.5°	8278.5	8315.5	8284.7	8377.3	8445.2	8550.1	8661.2	8760.0	8852.6	8957.6	8976.1
10°	8389.6	8389.6	8445.2	8519.3	8698.3	8778.5	8939.0	9081.0	9260.1	9383.5	9334.1
12.5°	8506.9	8525.4	8525.4	8716.8	8865.0	9044.0	9192.2	9383.5	9636.6	9784.8	9858.9
15°	8624.2	8636.5	8698.3	8957.6	9179.8	9463.8	9599.6	9772.4	9914.4	10192.2	10198.4
17.5°	8729.1	8797.1	8982.3	9272.4	9550.2	9821.8	10037.9	10216.9	10340.4	10451.5	10426.8
20°	9124.2	9173.6	9365.0	9655.2	10068.8	10334.2	10408.3	10439.2	10519.4	10741.7	10673.8
22.5°	9507.0	9525.5	9704.5	10149.0	10439.2	10791.1	10871.3	10852.8	10883.7	10939.2	11038.0
25°	9902.1	9933.0	10179.9	10556.5	10963.9	11383.7	11451.6	11309.6	11266.4	11328.1	11334.3
27.5°	10408.3	10414.5	10729.3	11056.5	11519.5	11914.6	12019.6	11908.4	11704.7	11754.1	11834.4
30°	11050.3	11007.1	11322.0	11791.1	12278.8	12501.1	12680.1	12624.5	12402.3	12359.1	12291.2
32.5°	11791.1	11803.5	12087.5	12599.9	12920.9	13291.3	13482.6	13390.0	13248.1	13174.0	13217.2
35°	12834.4	12890.0	13081.4	13507.3	14025.9	14211.1	14513.6	14316.1	13945.6	14038.2	14118.5
37.5°	13692.5	13853.0	14211.1	14717.3	15026.0	15365.5	15476.6	15211.2	14939.6	14828.4	15093.9
40°	15007.5	14958.1	15353.2	15859.4	16316.2	16655.8	16513.8	16248.3	15575.4	15581.6	15655.7
42.5°	16137.2	16161.9	16464.4	17069.4	17692.9	17902.8	17452.1	16803.9	16056.9	15976.7	16137.2
45°	17087.9	17186.7	17359.5	18168.2	18779.4	19007.8	18174.4	17408.9	16408.8	16075.5	16340.9
47.5°	17427.4	17587.9	17964.5	18705.3	19310.3	19495.5	18828.8	17729.9	16736.0	16192.8	16334.7
50°	17476.8	17421.3	18038.6	18717.7	19248.6	19649.8	19063.4	17964.5	16655.8	16371.8	16328.6
52.5°	16124.8	16396.5	17057.0	17989.2	19063.4	19705.4	19273.3	18094.2	16766.9	16445.9	16340.9
55°	13050.5	12729.5	13933.3	15501.3	17476.8	19260.9	19199.2	18162.1	16834.8	16569.3	16427.3
57.5°	7284.6	7377.2	8056.3	9760.1	12309.7	15272.9	17069.4	17445.9	16803.9	16649.6	16723.7
60°	3370.7	3401.5	3691.7	4488.0	6068.4	8661.2	11025.6	13427.1	14532.1	14754.4	14754.4
62.5°	2512.6	2500.2	2574.3	2716.3	3049.6	3981.8	5315.3	7222.8	8741.5	9803.3	10081.1
65°	2271.8	2265.6	2302.7	2352.1	2376.7	2506.4	2802.7	3389.2	3883.1	4167.0	4117.6
67.5°	1987.8	1981.7	1994.0	2024.9	2068.1	2136.0	2210.1	2333.5	2506.4	2494.0	2463.2
70°	1605.1	1605.1	1623.6	1648.3	1697.7	1777.9	1864.4	1950.8	2098.9	2129.8	2123.6
72.5°	1185.3	1166.8	1203.8	1253.2	1302.6	1401.4	1494.0	1574.2	1679.2	1710.0	1697.7
75°	753.2	765.5	790.2	845.8	932.2	1000.1	1098.9	1166.8	1234.7	1259.4	1265.5
77.5°	419.8	432.1	475.3	543.3	629.7	703.8	790.2	845.8	889.0	895.1	901.3
80°	253.1	259.3	302.5	364.2	438.3	518.6	586.5	642.0	679.1	660.6	654.4
82.5°	154.3	160.5	197.5	253.1	314.8	376.6	450.7	500.0	537.1	512.4	487.7
85°	80.3	86.4	117.3	154.3	203.7	234.6	234.6	209.9	203.7	191.4	185.2
87.5°	24.7	24.7	30.9	37.0	30.9	37.0	43.2	49.4	49.4	55.6	49.4
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)