

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: P533086

Luminaire Tested: **GALN-SA8C-730-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46569 lumens
Efficiency: N/A
Efficacy: 108.6 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

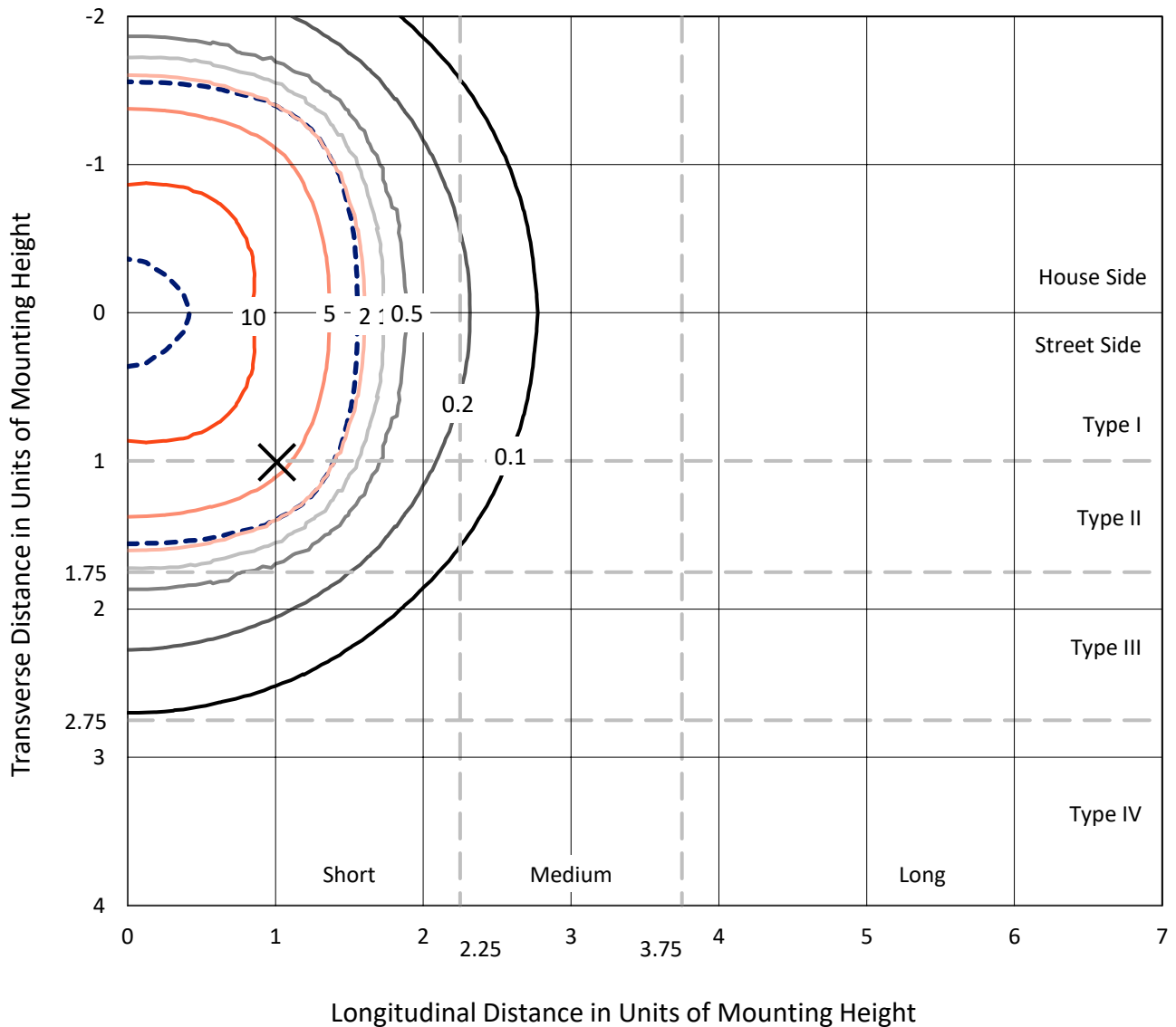
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

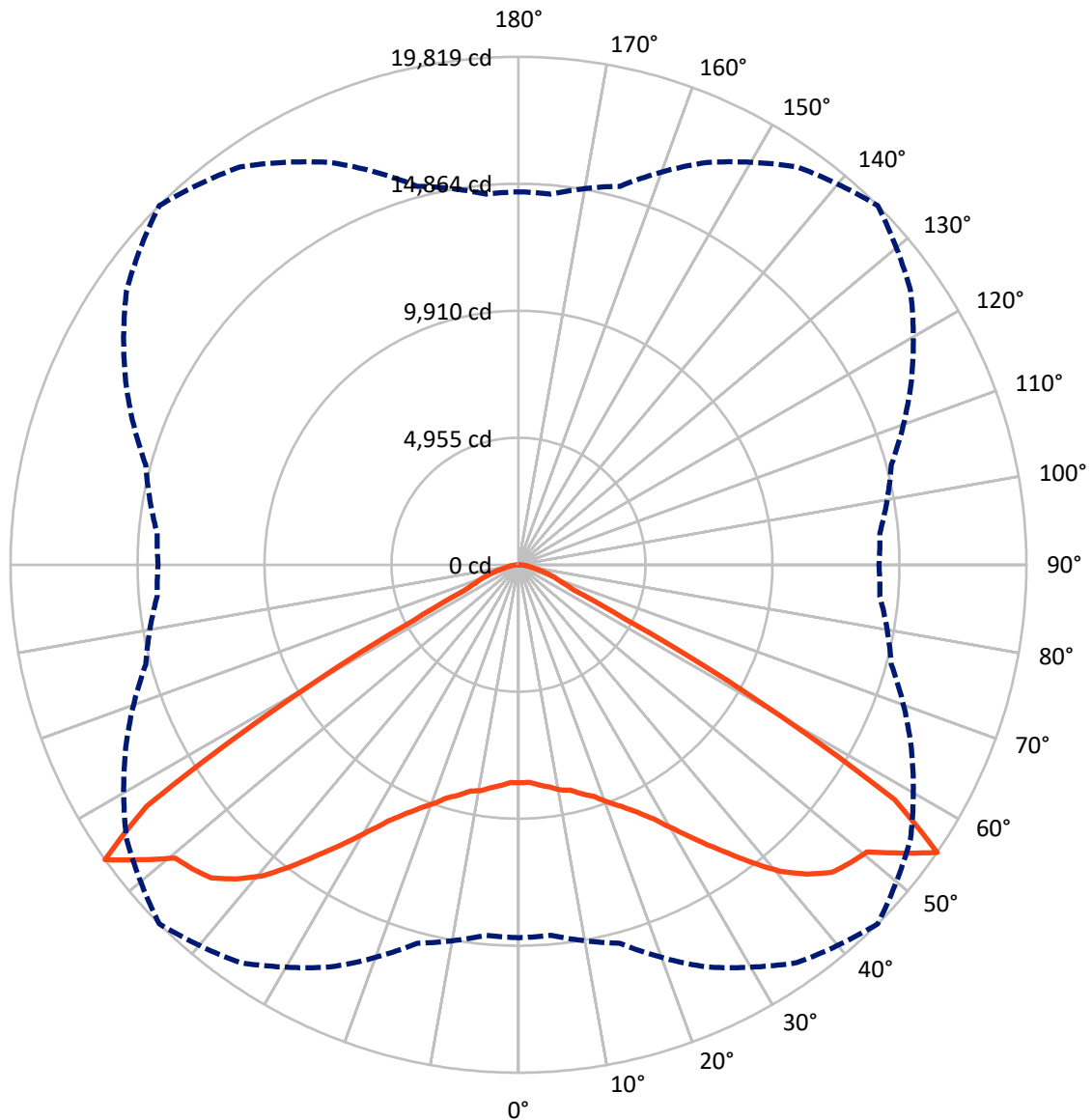
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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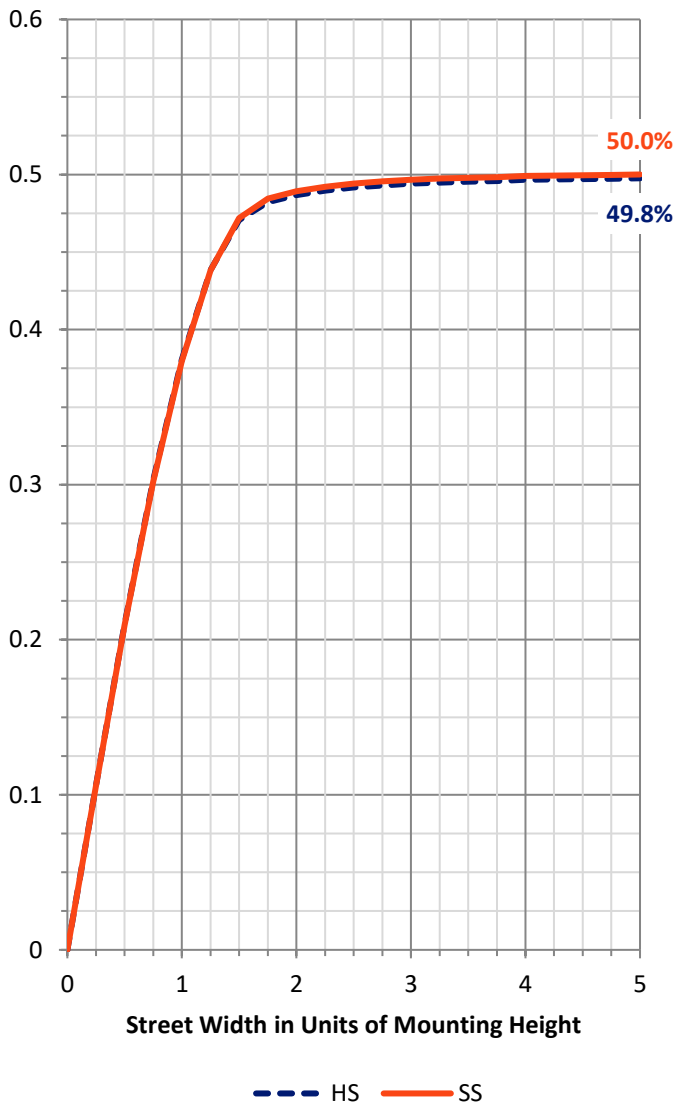
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23284.5	0.0	23284.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23284.5	0.0	23284.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	46569.0	0.0	46569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	830.6	1.8
10°-20°	2631.9	5.7
20°-30°	4907.7	10.5
30°-40°	8217.0	17.6
40°-50°	12786.3	27.5
50°-60°	13276.2	28.5
60°-70°	2815.4	6.0
70°-80°	927.2	2.0
80°-90°	176.6	0.4
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°	46569.0	100.0
0°-180°	46569.0	100.0

Coefficient of Utilization



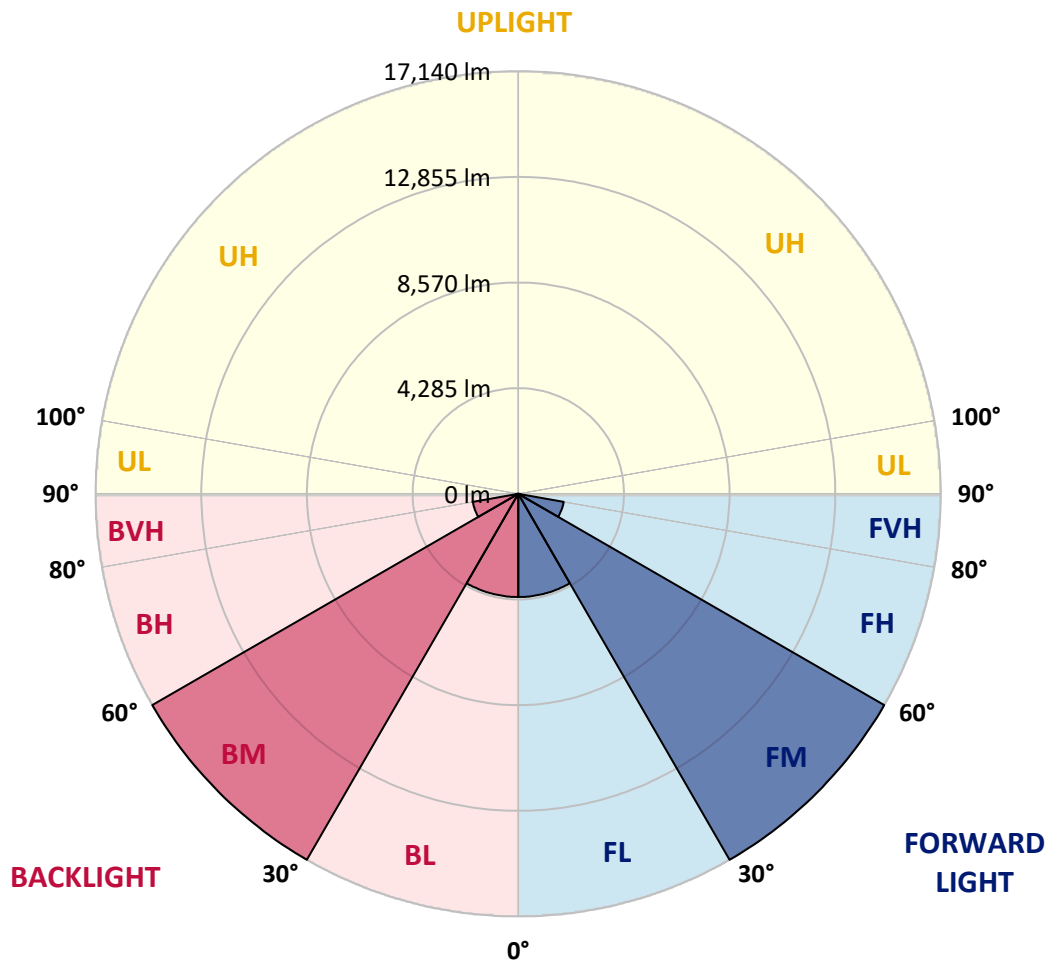
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4185.1	9.0			
FM (30°-60°)	17139.8	36.8			
FH (60°-80°)	1871.3	4.0			G2/5000
FVH (80°-90°)	88.3	0.2			G1/100
BL (0°-30°)	4185.1	9.0	B4/5000		
BM (30°-60°)	17139.8	36.8	B5		
BH (60°-80°)	1871.3	4.0	B3/2500		G2/5000
BVH (80°-90°)	88.3	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8502.8	8502.8	8502.8	8502.8	8502.8	8502.8	8502.8	8502.8	8502.8	8502.8	8502.8
2.5°	8604.1	8564.7	8497.2	8547.8	8587.2	8502.8	8536.6	8553.5	8542.2	8497.2	8514.1
5°	8727.9	8705.4	8649.1	8688.5	8637.9	8637.9	8604.1	8559.1	8626.6	8615.4	8643.5
7.5°	8727.9	8699.8	8812.3	8739.2	8761.7	8761.7	8705.4	8660.4	8694.1	8643.5	8615.4
10°	8902.3	8941.7	8891.1	8908.0	8896.7	8936.1	8851.7	8823.6	8795.4	8778.5	8744.8
12.5°	9110.5	9082.4	9099.3	9088.0	9127.4	9026.1	8975.5	8913.6	8964.2	8891.1	8941.7
15°	9279.4	9262.5	9279.4	9324.4	9285.0	9279.4	9189.3	9127.4	9048.6	9065.5	8986.8
17.5°	9510.1	9493.2	9498.8	9538.2	9532.6	9504.5	9436.9	9318.8	9290.6	9245.6	9195.0
20°	9853.3	9825.2	9814.0	9830.8	9859.0	9881.5	9746.4	9701.4	9605.7	9532.6	9448.2
22.5°	10146.0	10134.7	10179.7	10106.6	10168.5	10236.0	10106.6	10084.1	9847.7	9808.3	9718.3
25°	10551.1	10534.2	10506.1	10613.0	10686.2	10680.6	10556.8	10433.0	10252.9	10207.9	10207.9
27.5°	10978.8	10883.1	11029.4	11057.6	11187.0	11226.4	11119.5	10939.4	10770.6	10674.9	10697.4
30°	11513.4	11423.4	11457.1	11659.7	11828.5	11974.8	11704.7	11440.2	11203.9	11035.1	11006.9
32.5°	12048.0	11957.9	12059.2	12256.2	12593.8	12813.3	12548.8	12087.4	11811.6	11564.0	11614.7
35°	12481.3	12548.8	12712.0	13010.2	13359.1	13713.7	13291.6	12937.1	12543.2	12267.4	12306.8
37.5°	13179.1	13387.3	13516.7	13860.0	14355.2	14720.9	14282.0	13820.6	13398.5	13038.4	12914.6
40°	14090.7	14231.4	14377.7	14782.8	15368.1	15733.8	15317.4	14715.3	14298.9	13927.5	13910.6
42.5°	15092.3	15227.4	15379.3	15874.5	16223.4	16499.2	16116.5	15795.7	15334.3	15041.7	15024.8
45°	16257.2	16161.5	16330.3	16656.7	16949.3	17129.4	16881.8	16724.2	16392.2	16122.1	16094.0
47.5°	17033.7	16949.3	17253.2	17545.8	17590.8	17393.9	17444.5	17590.8	17242.0	16797.4	16938.1
50°	17483.9	17483.9	17686.5	17956.6	17872.2	17619.0	18018.5	18029.8	17680.9	17287.0	17287.0
52.5°	16701.7	16876.2	17450.2	18333.6	18615.0	18688.2	18598.1	18215.5	17303.9	16499.2	16459.8
55°	14552.1	14512.7	15289.3	17315.1	18952.6	19819.2	18671.3	16909.9	15058.6	14152.6	14062.5
57.5°	9465.1	9510.1	10669.3	12734.5	15688.8	17303.9	15368.1	12892.1	10669.3	9420.0	9538.2
60°	4259.8	4411.8	5115.2	6657.1	9195.0	10511.7	9217.5	6994.7	5368.4	4659.4	4721.3
62.5°	2447.9	2476.0	2504.1	2971.2	3916.6	4631.2	4068.5	3140.0	2768.6	2644.8	2644.8
65°	2065.2	2048.3	2054.0	2093.3	2194.6	2340.9	2279.0	2194.6	2205.9	2194.6	2177.8
67.5°	1755.7	1778.2	1761.3	1789.5	1795.1	1817.6	1857.0	1890.8	1896.4	1907.6	1896.4
70°	1440.6	1446.2	1457.5	1480.0	1485.6	1502.5	1558.8	1586.9	1603.8	1603.8	1626.3
72.5°	1102.9	1097.3	1108.6	1131.1	1159.2	1164.8	1215.5	1254.9	1277.4	1249.3	1254.9
75°	725.9	731.5	748.4	765.3	804.7	844.1	861.0	900.4	906.0	917.2	889.1
77.5°	433.3	444.6	461.4	495.2	529.0	562.7	602.1	630.3	641.5	630.3	596.5
80°	281.4	281.4	303.9	332.0	371.4	399.5	422.0	444.6	461.4	444.6	433.3
82.5°	174.4	174.4	202.6	236.3	264.5	281.4	315.1	343.3	360.1	348.9	332.0
85°	90.0	95.7	118.2	146.3	168.8	180.1	174.4	157.6	140.7	135.1	123.8
87.5°	28.1	28.1	33.8	33.8	28.1	28.1	33.8	28.1	33.8	33.8	33.8
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)