

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: P531968

Luminaire Tested: **GALN-SA7B-740-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531968  
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-SA7B-740-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 800mA 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: 35698 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

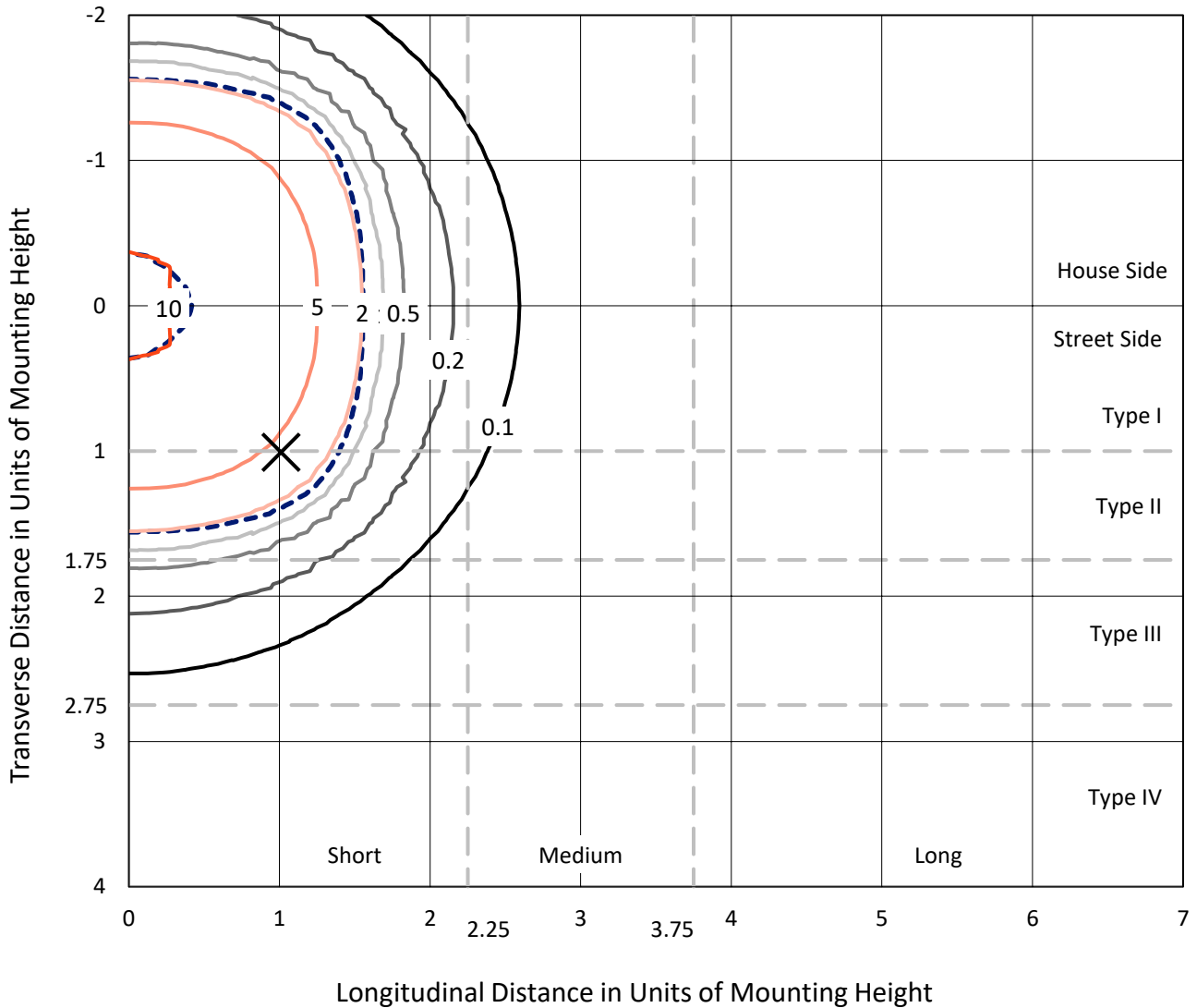
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

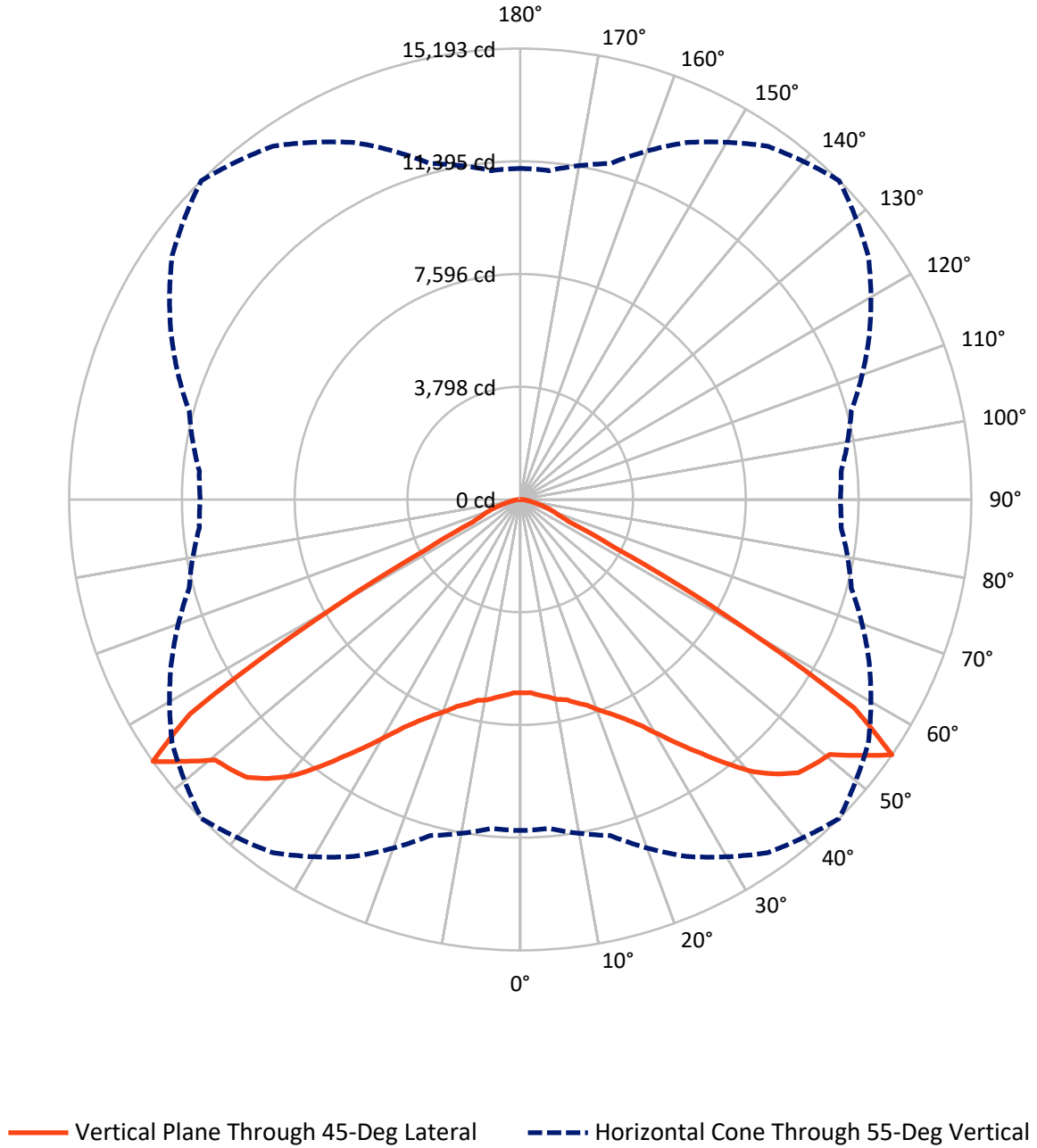
✕ Max cd  
 - - - 1/2 Max cd



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



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17849.0	0.0	17849.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17849.0	0.0	17849.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35698.0	0.0	35698.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	636.7	1.8
10°-20°	2017.5	5.7
20°-30°	3762.0	10.5
30°-40°	6298.8	17.6
40°-50°	9801.5	27.5
50°-60°	10177.0	28.5
60°-70°	2158.2	6.0
70°-80°	710.8	2.0
80°-90°	135.4	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°	35698.0	100.0
0°-180°	35698.0	100.0

**Coefficient of Utilization**



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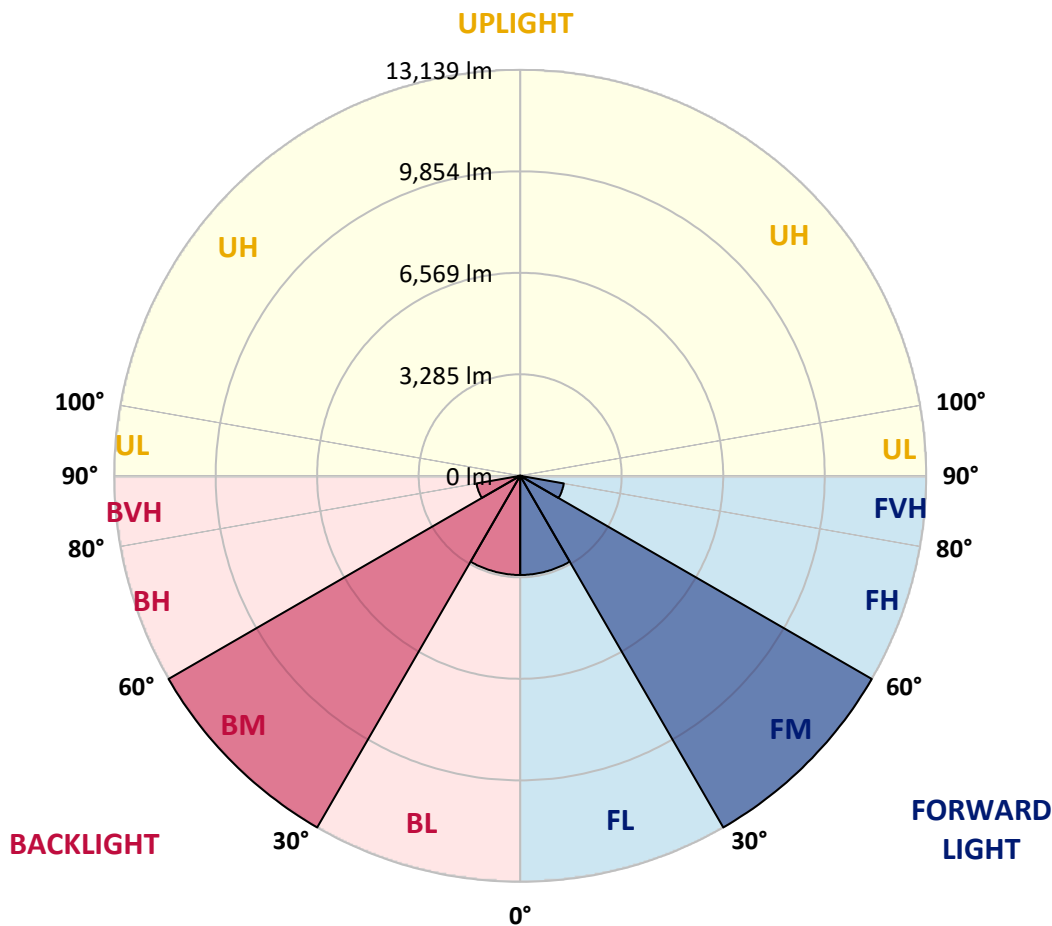
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3208.1	9.0			
FM (30°-60°)	13138.7	36.8			
FH (60°-80°)	1434.5	4.0			G1/1800
FVH (80°-90°)	67.7	0.2			G1/100
BL (0°-30°)	3208.1	9.0	B4/5000		
BM (30°-60°)	13138.7	36.8	B5		
BH (60°-80°)	1434.5	4.0	B3/2500		G1/1800
BVH (80°-90°)	67.7	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6517.9	6517.9	6517.9	6517.9	6517.9	6517.9	6517.9	6517.9	6517.9	6517.9	6517.9
2.5°	6595.6	6565.4	6513.6	6552.4	6582.6	6517.9	6543.8	6556.7	6548.1	6513.6	6526.5
5°	6690.5	6673.2	6630.1	6660.3	6621.4	6621.4	6595.6	6561.1	6612.8	6604.2	6625.8
7.5°	6690.5	6668.9	6755.2	6699.1	6716.4	6716.4	6673.2	6638.7	6664.6	6625.8	6604.2
10°	6824.2	6854.4	6815.6	6828.5	6819.9	6850.1	6785.4	6763.8	6742.2	6729.3	6703.4
12.5°	6983.8	6962.2	6975.2	6966.5	6996.7	6919.1	6880.3	6832.8	6871.6	6815.6	6854.4
15°	7113.2	7100.3	7113.2	7147.7	7117.5	7113.2	7044.2	6996.7	6936.3	6949.3	6888.9
17.5°	7290.1	7277.1	7281.4	7311.6	7307.3	7285.8	7234.0	7143.4	7121.8	7087.3	7048.5
20°	7553.2	7531.6	7523.0	7535.9	7557.5	7574.8	7471.2	7436.7	7363.4	7307.3	7242.6
22.5°	7777.5	7768.9	7803.4	7747.3	7794.8	7846.5	7747.3	7730.1	7548.9	7518.7	7449.7
25°	8088.1	8075.1	8053.6	8135.5	8191.6	8187.3	8092.4	7997.5	7859.5	7825.0	7825.0
27.5°	8415.9	8342.6	8454.8	8476.3	8575.5	8605.7	8523.8	8385.7	8256.3	8183.0	8200.2
30°	8825.7	8756.7	8782.6	8937.9	9067.3	9179.4	8972.4	8769.6	8588.5	8459.1	8437.5
32.5°	9235.5	9166.5	9244.1	9395.1	9653.9	9822.2	9619.4	9265.7	9054.3	8864.5	8903.4
35°	9567.7	9619.4	9744.5	9973.2	10240.6	10512.4	10188.8	9917.1	9615.1	9403.8	9433.9
37.5°	10102.6	10262.2	10361.4	10624.5	11004.1	11284.5	10948.0	10594.3	10270.8	9994.7	9899.8
40°	10801.4	10909.2	11021.4	11332.0	11780.6	12061.0	11741.8	11280.2	10961.0	10676.3	10663.3
42.5°	11569.2	11672.7	11789.2	12168.8	12436.2	12647.6	12354.3	12108.4	11754.7	11530.4	11517.4
45°	12462.1	12388.8	12518.2	12768.4	12992.7	13130.7	12940.9	12820.2	12565.7	12358.6	12337.0
47.5°	13057.4	12992.7	13225.6	13450.0	13484.5	13333.5	13372.3	13484.5	13217.0	12876.2	12984.1
50°	13402.5	13402.5	13557.8	13764.9	13700.1	13506.0	13812.3	13820.9	13553.5	13251.5	13251.5
52.5°	12802.9	12936.6	13376.6	14053.9	14269.5	14325.6	14256.6	13963.3	13264.5	12647.6	12617.4
55°	11155.1	11124.9	11720.2	13273.1	14528.4	15192.7	14312.7	12962.5	11543.3	10848.8	10779.8
57.5°	7255.6	7290.1	8178.7	9761.8	12026.5	13264.5	11780.6	9882.6	8178.7	7221.0	7311.6
60°	3265.4	3381.9	3921.1	5103.0	7048.5	8057.9	7065.8	5361.9	4115.2	3571.7	3619.2
62.5°	1876.4	1898.0	1919.6	2277.6	3002.3	3550.1	3118.8	2407.0	2122.3	2027.4	2027.4
65°	1583.1	1570.2	1574.5	1604.7	1682.3	1794.5	1747.0	1682.3	1691.0	1682.3	1669.4
67.5°	1345.9	1363.1	1350.2	1371.7	1376.1	1393.3	1423.5	1449.4	1453.7	1462.3	1453.7
70°	1104.3	1108.6	1117.2	1134.5	1138.8	1151.7	1194.9	1216.4	1229.4	1229.4	1246.6
72.5°	845.5	841.2	849.8	867.0	888.6	892.9	931.7	961.9	979.2	957.6	961.9
75°	556.5	560.8	573.7	586.7	616.9	647.0	660.0	690.2	694.5	703.1	681.6
77.5°	332.2	340.8	353.7	379.6	405.5	431.4	461.6	483.1	491.8	483.1	457.2
80°	215.7	215.7	232.9	254.5	284.7	306.3	323.5	340.8	353.7	340.8	332.2
82.5°	133.7	133.7	155.3	181.2	202.7	215.7	241.6	263.1	276.1	267.4	254.5
85°	69.0	73.3	90.6	112.2	129.4	138.0	133.7	120.8	107.8	103.5	94.9
87.5°	21.6	21.6	25.9	25.9	21.6	21.6	25.9	21.6	25.9	25.9	25.9
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)