

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: P531966

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
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-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34983 lumens
Efficiency: N/A
Efficacy: 122.3 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

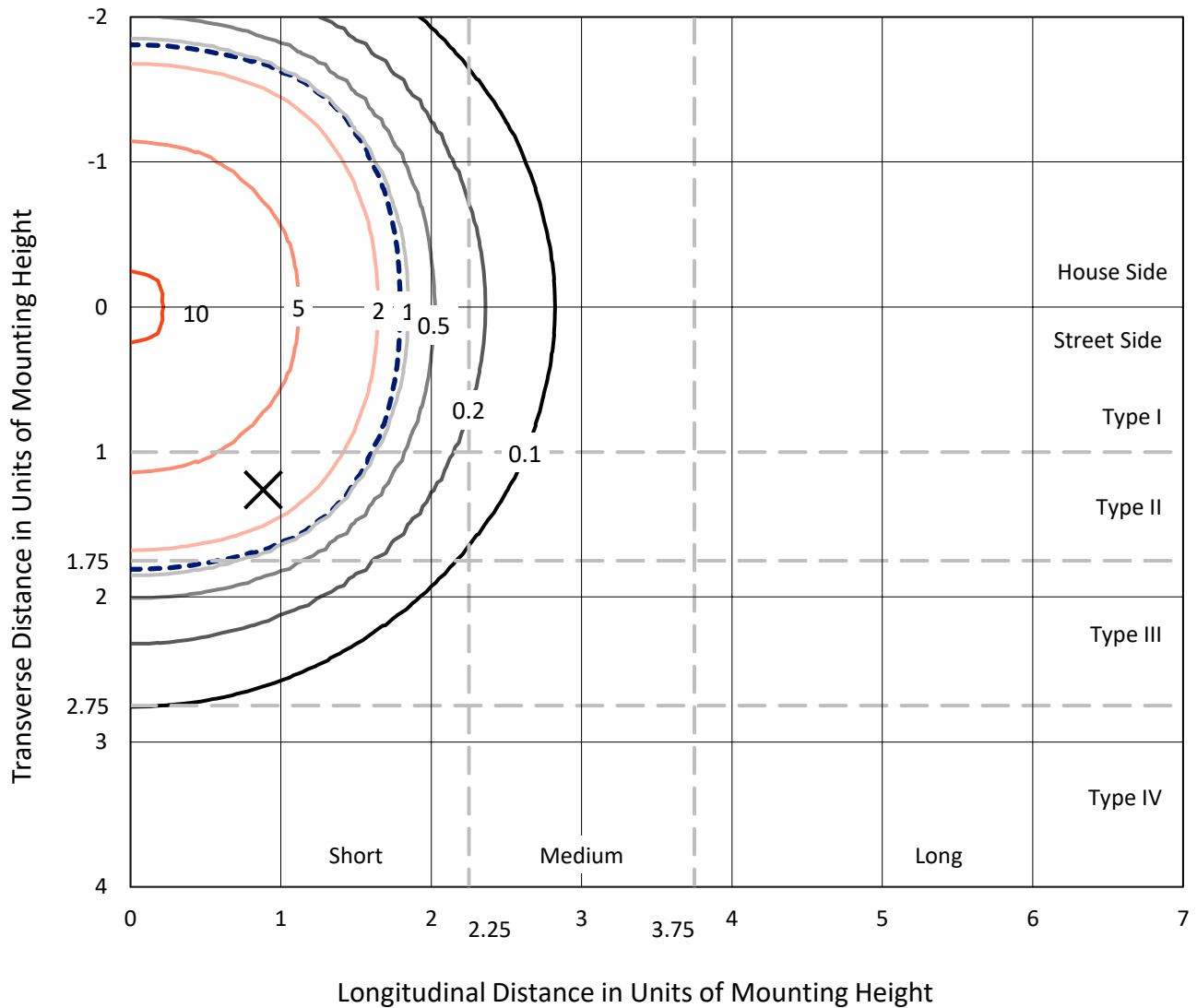
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

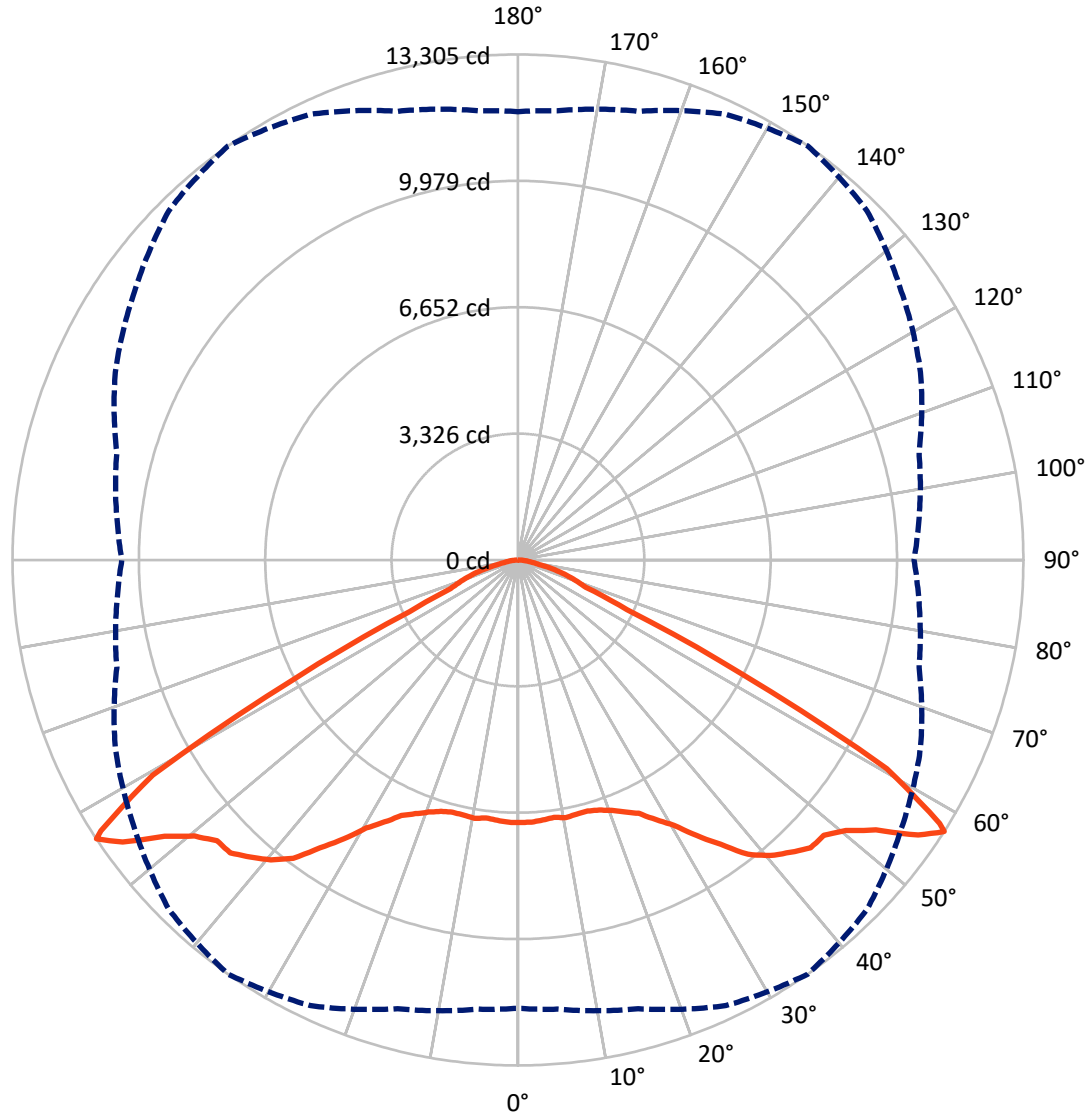
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17491.5	0.0	17491.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17491.5	0.0	17491.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34983.0	0.0	34983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.0	1.9
10°-20°	1939.9	5.5
20°-30°	3388.0	9.7
30°-40°	5551.3	15.9
40°-50°	8139.6	23.3
50°-60°	10252.4	29.3
60°-70°	3855.8	11.0
70°-80°	1025.2	2.9
80°-90°	175.8	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°	34983.0	100.0
0°-180°	34983.0	100.0

Coefficient of Utilization

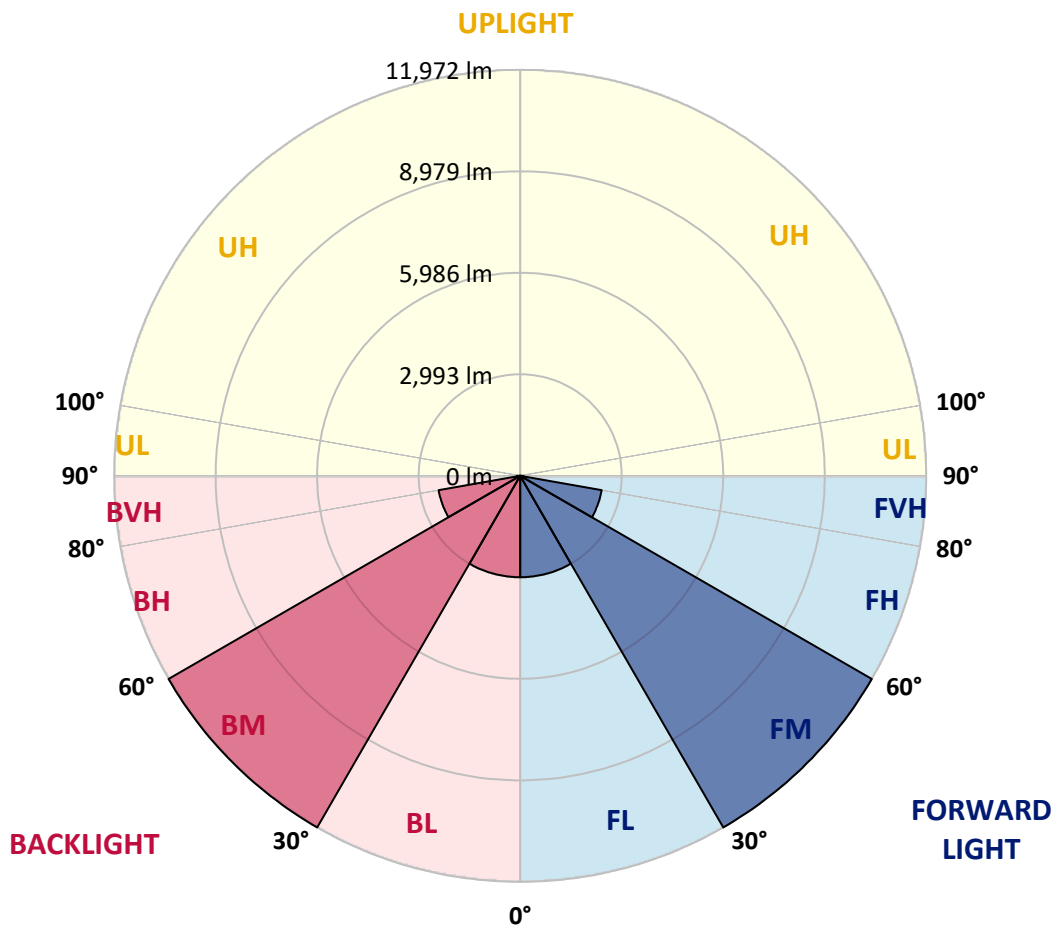


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2991.4	8.6			
FM (30°-60°)	11971.6	34.2			
FH (60°-80°)	2440.5	7.0			G2/5000
FVH (80°-90°)	87.9	0.3			G1/100
BL (0°-30°)	2991.4	8.6	B4/5000		
BM (30°-60°)	11971.6	34.2	B5		
BH (60°-80°)	2440.5	7.0	B3/2500		G2/5000
BVH (80°-90°)	87.9	0.3			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°	6908.9	6908.9	6908.9	6908.9	6908.9	6908.9	6908.9	6908.9	6908.9	6908.9	6908.9
2.5°	6874.4	6943.4	6913.2	6896.0	6908.9	6887.3	6852.9	6891.6	6883.0	6848.5	6835.6
5°	6857.2	6908.9	6874.4	6908.9	6874.4	6934.7	6917.5	6852.9	6930.4	6857.2	6883.0
7.5°	6844.2	6861.5	6870.1	6852.9	6839.9	6913.2	6874.4	6844.2	6801.1	6788.2	6809.8
10°	6814.1	6857.2	6792.5	6878.7	6896.0	6844.2	6844.2	6788.2	6753.7	6732.2	6805.4
12.5°	6891.6	6818.4	6809.8	6852.9	6865.8	6887.3	6827.0	6796.8	6732.2	6740.8	6727.9
15°	6801.1	6831.3	6835.6	6844.2	6857.2	6908.9	6852.9	6788.2	6762.3	6671.8	6680.5
17.5°	6835.6	6805.4	6835.6	6934.7	6917.5	6956.3	6896.0	6796.8	6736.5	6684.8	6753.7
20°	6896.0	6883.0	6896.0	7016.6	7038.2	7072.7	7020.9	6930.4	6814.1	6753.7	6788.2
22.5°	6960.6	6952.0	6960.6	7077.0	7202.0	7245.1	7193.3	6982.2	6921.8	6809.8	6771.0
25°	7077.0	7085.6	7176.1	7305.4	7387.3	7469.2	7374.4	7223.5	7029.6	6960.6	6878.7
27.5°	7335.6	7357.1	7408.8	7598.5	7740.7	7814.0	7680.4	7473.5	7352.8	7210.6	7189.0
30°	7654.5	7654.5	7745.0	7908.8	8102.7	8214.8	8051.0	7805.4	7658.8	7581.2	7533.8
32.5°	8076.9	8029.5	8064.0	8352.7	8654.4	8749.2	8529.4	8227.7	7995.0	7891.6	7857.1
35°	8438.9	8469.1	8546.7	8857.0	9193.2	9413.0	9068.2	8676.0	8438.9	8344.1	8326.9
37.5°	8908.7	8960.4	8999.2	9425.9	9831.0	9912.9	9581.1	9266.4	8977.7	8900.1	8857.0
40°	9572.4	9538.0	9550.9	9865.5	10231.9	10283.6	9956.0	9731.9	9494.9	9447.5	9447.5
42.5°	10119.8	10081.0	10124.1	10240.5	10520.6	10481.9	10300.8	10137.1	10037.9	9986.2	10037.9
45°	10451.7	10443.1	10520.6	10606.8	10805.1	10675.8	10533.6	10559.4	10464.6	10378.4	10374.1
47.5°	10813.7	10757.7	10852.5	10981.8	10831.0	10770.6	10762.0	10818.0	10787.9	10637.0	10589.6
50°	10990.4	10968.9	11119.7	11270.6	11188.7	11050.8	11080.9	11171.4	10783.5	10581.0	10464.6
52.5°	11464.5	11468.8	11757.6	11839.5	11805.0	11602.4	11667.1	11421.4	10964.6	10680.1	10693.0
55°	12210.2	12180.0	12503.2	12744.6	12783.4	12524.8	12214.5	11869.7	11296.4	11007.7	10921.5
57°	11800.7	11869.7	12227.4	12942.8	13304.9	12998.9	12322.2	11693.0	10930.1	10581.0	10425.8
57.5°	11253.3	11365.4	11986.0	12705.8	13085.1	13059.2	12188.6	11365.4	10684.4	10141.4	10154.3
60°	8245.0	8266.5	8826.8	9969.0	11154.2	11180.1	10119.8	9029.4	8270.8	7680.4	7762.3
62.5°	4348.8	4447.9	4672.0	5590.0	6615.8	6865.8	6223.6	5663.3	5008.2	4560.0	4603.0
65°	2301.5	2288.6	2396.3	2654.9	3159.2	3288.5	3202.3	2758.4	2530.0	2456.7	2461.0
67.5°	1870.5	1892.1	1879.1	1892.1	1926.6	1982.6	1969.7	1986.9	1999.8	2021.4	2017.1
70°	1586.1	1586.1	1594.7	1599.0	1599.0	1624.9	1655.0	1711.1	1715.4	1736.9	1745.5
72.5°	1249.9	1241.3	1254.2	1284.4	1288.7	1310.2	1353.3	1387.8	1400.7	1400.7	1374.9
75°	849.1	857.7	874.9	900.8	926.6	965.4	999.9	1021.5	1030.1	1017.2	1004.2
77.5°	478.4	487.0	500.0	538.7	568.9	603.4	642.2	663.7	685.3	689.6	663.7
80°	284.5	284.5	306.0	336.2	370.7	405.1	439.6	465.5	474.1	474.1	461.2
82.5°	172.4	176.7	193.9	224.1	254.3	275.8	306.0	327.6	344.8	340.5	331.9
85°	90.5	90.5	107.7	133.6	155.2	176.7	176.7	163.8	155.2	133.6	125.0
87.5°	30.2	25.9	34.5	34.5	30.2	34.5	34.5	38.8	38.8	38.8	38.8
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)