

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: P456517

Luminaire Tested: **GALN-SA7D-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55592 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

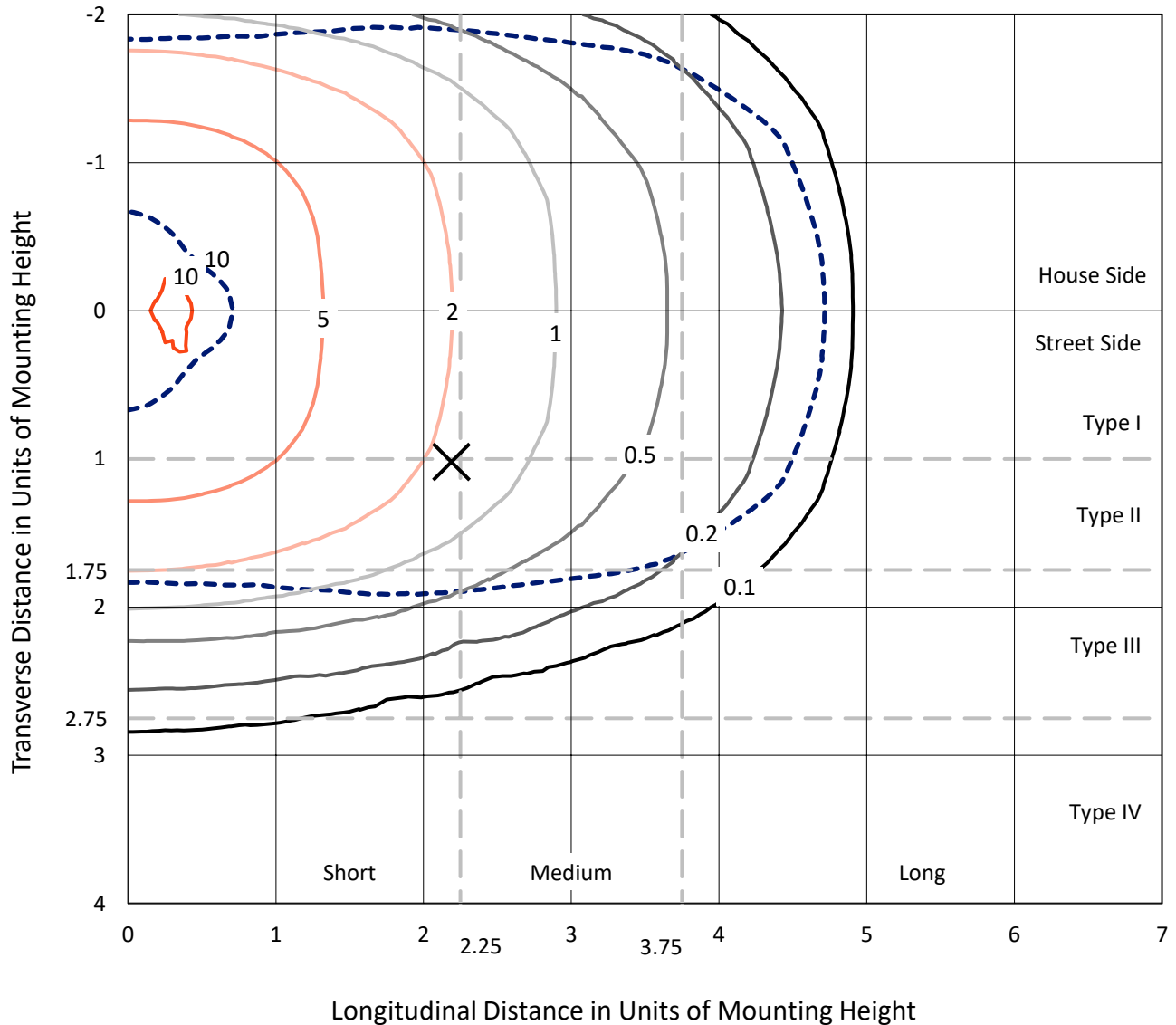
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

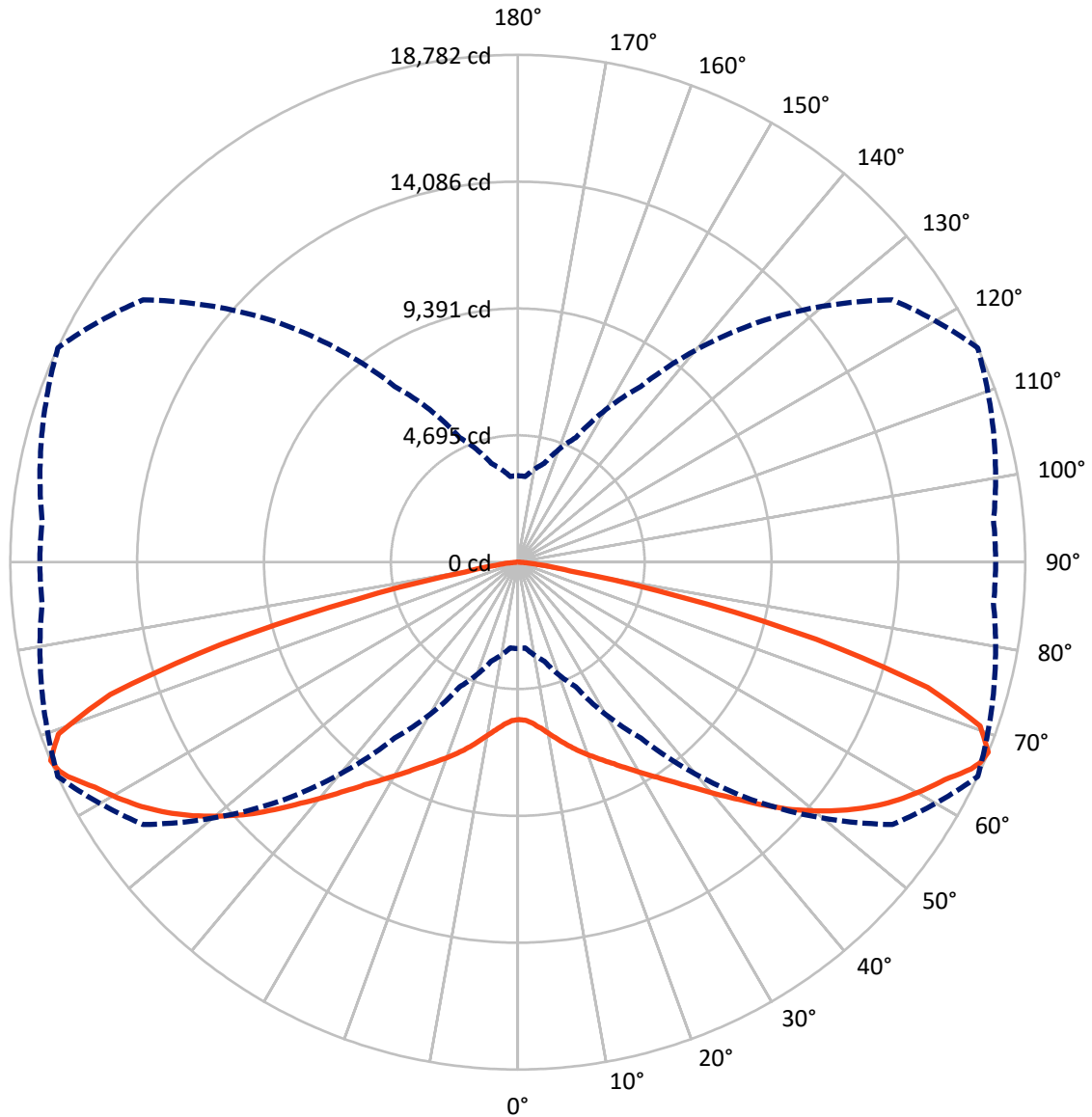
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27796.0	0.0	27796.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27796.0	0.0	27796.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	55592.0	0.0	55592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.3	1.0
10°-20°	1922.1	3.5
20°-30°	3759.7	6.8
30°-40°	6394.8	11.5
40°-50°	10121.0	18.2
50°-60°	13420.2	24.1
60°-70°	12659.4	22.8
70°-80°	6258.2	11.3
80°-90°	482.3	0.9
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°	55592.0	100.0
0°-180°	55592.0	100.0

Coefficient of Utilization



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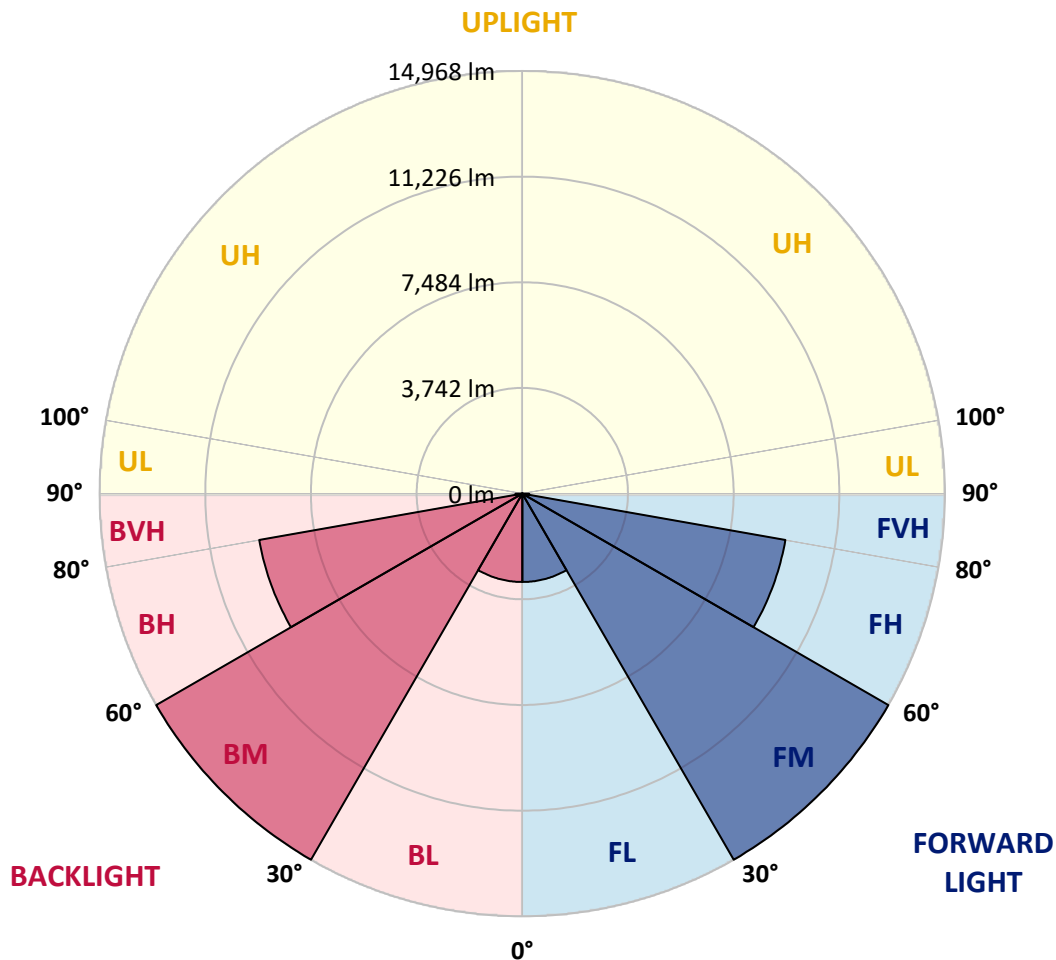
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3128.0	5.6			
FM	(30°-60°)	14968.0	26.9			
FH	(60°-80°)	9458.8	17.0			G4/12000
FVH	(80°-90°)	241.2	0.4			G3/500
BL	(0°-30°)	3128.0	5.6	B4/5000		
BM	(30°-60°)	14968.0	26.9	B5		
BH	(60°-80°)	9458.8	17.0	B5		G5
BVH	(80°-90°)	241.2	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5822.8	5822.8	5822.8	5822.8	5822.8	5822.8	5822.8	5822.8	5822.8	5822.8	5822.8
2.5°	5793.0	5798.9	5804.9	5813.8	5825.7	5843.6	5855.5	5864.5	5888.3	5891.3	5888.3
5°	5772.1	5778.1	5793.0	5819.8	5858.5	5912.1	5953.8	6004.5	6043.2	6070.0	6064.0
7.5°	5769.2	5781.1	5804.9	5861.5	5936.0	6028.3	6123.6	6210.0	6284.4	6344.0	6335.1
10°	5816.8	5831.7	5870.4	5953.8	6070.0	6204.0	6338.0	6466.1	6573.3	6650.8	6677.6
12.5°	5897.2	5909.1	5980.6	6105.7	6272.5	6439.3	6591.2	6749.1	6898.0	7029.0	7029.0
15°	6037.2	6058.1	6147.4	6329.1	6534.6	6728.2	6883.1	7049.9	7210.7	7359.6	7404.3
17.5°	6230.8	6260.6	6394.6	6626.9	6889.0	7067.7	7213.7	7350.7	7490.7	7633.6	7654.5
20°	6495.9	6525.7	6704.4	6984.3	7294.1	7508.5	7606.8	7639.6	7708.1	7845.1	7863.0
22.5°	6856.3	6886.1	7085.6	7401.3	7746.8	7979.1	8020.8	7943.4	7925.5	8032.7	8044.7
25°	7264.3	7291.1	7520.5	7860.0	8217.4	8470.6	8458.7	8268.0	8160.8	8226.3	8244.2
27.5°	7723.0	7761.7	7994.0	8345.5	8732.7	8956.0	8920.3	8643.3	8414.0	8402.1	8408.0
30°	8309.7	8351.4	8571.8	8908.4	9289.6	9495.1	9420.7	9048.4	8693.9	8574.8	8574.8
32.5°	8929.2	9033.5	9256.9	9608.3	9906.2	10055.1	9941.9	9495.1	9024.6	8857.8	8848.8
35°	9736.4	9793.0	10013.4	10355.9	10579.3	10695.4	10478.0	9998.5	9456.4	9259.8	9233.0
37.5°	10525.7	10573.3	10829.5	11157.1	11428.1	11422.2	11127.3	10597.1	9992.5	9772.1	9754.3
40°	11332.8	11383.4	11675.3	11976.1	12247.2	12223.4	11865.9	11273.2	10629.9	10382.7	10430.4
42.5°	12032.7	12089.3	12419.9	12848.8	13093.0	13087.1	12673.1	12005.9	11335.8	11115.4	11157.1
45°	12670.1	12720.7	13105.0	13596.4	13953.8	13998.5	13545.8	12839.9	12151.9	11868.9	11880.8
47.5°	13119.9	13215.2	13617.2	14180.2	14665.6	14823.5	14379.7	13688.7	12896.5	12601.6	12619.5
50°	13462.4	13521.9	13959.8	14600.1	15213.7	15541.3	15183.9	14475.0	13641.1	13328.3	13370.0
52.5°	13504.1	13575.5	14052.1	14790.7	15577.0	16074.4	15898.7	15243.5	14400.6	14078.9	14168.2
55°	13164.5	13206.2	13775.1	14671.6	15720.0	16470.6	16515.2	15958.3	15124.3	14880.1	14939.7
57.5°	12196.5	12303.8	13024.5	14114.6	15523.4	16682.0	16976.9	16607.6	15857.0	15615.8	15711.1
60°	10609.1	10716.3	11440.0	12822.0	14781.8	16583.7	17358.1	17182.4	16521.2	16327.6	16378.2
62.5°	8312.7	8303.8	9200.3	10895.0	13307.5	16101.2	17641.1	17736.4	17176.4	16932.2	17009.6
65°	5387.9	5414.7	6281.4	8107.2	11082.6	14874.1	17703.6	18442.3	17819.8	17450.4	17507.0
66°	4333.6	4414.0	5149.7	6832.4	9947.9	14070.0	17516.0	18650.7	18016.3	17569.6	17596.4
67.5°	3198.8	3183.9	3788.5	5087.1	7943.4	12542.0	16929.2	18781.8	18239.7	17676.8	17688.7
70°	1825.8	1822.8	2037.2	2793.7	4670.1	8831.0	14269.5	18153.3	18692.4	18064.0	18031.2
72.5°	1334.3	1325.4	1355.2	1542.8	2278.5	4458.7	9843.6	15865.9	18460.1	18001.4	17909.1
75°	1119.9	1113.9	1108.0	1131.8	1277.7	2019.4	5224.1	11413.2	16017.8	16896.5	16801.2
77.5°	914.4	914.4	917.3	911.4	917.3	1063.3	2165.3	6117.6	9754.3	10889.0	11154.1
80°	714.8	711.8	762.5	741.6	694.0	682.1	959.0	1968.7	3237.5	3219.7	2656.7
82.5°	527.2	491.4	580.8	565.9	512.3	434.8	559.9	839.9	1081.2	702.9	521.2
85°	333.6	330.6	411.0	375.3	312.7	205.5	268.1	360.4	446.8	271.0	220.4
87.5°	59.6	56.6	131.0	95.3	95.3	59.6	74.5	98.3	145.9	101.3	74.5
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)