

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: P458384

Luminaire Tested: **GALN-SA9D-740-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458384  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-740-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 70007 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

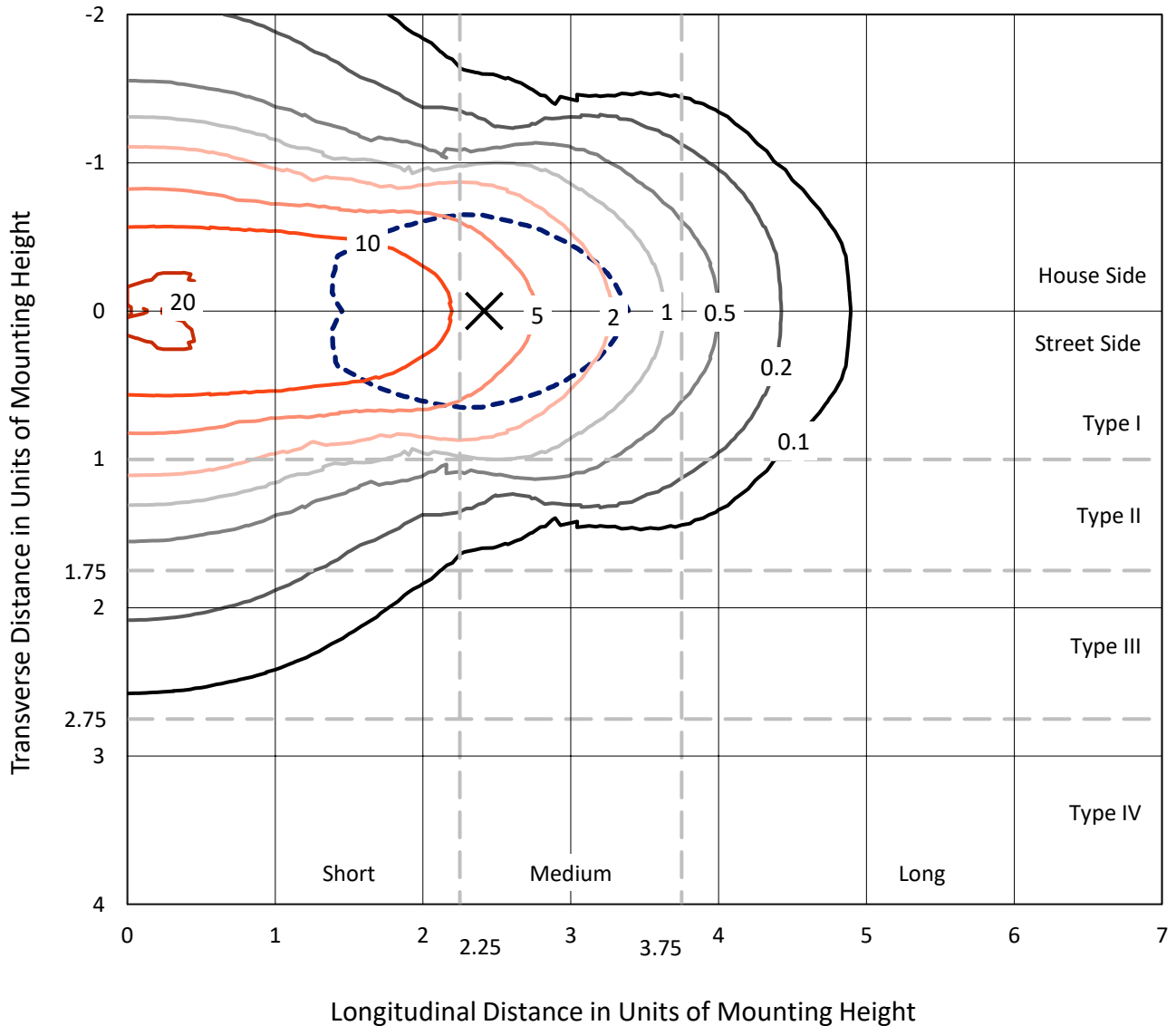
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

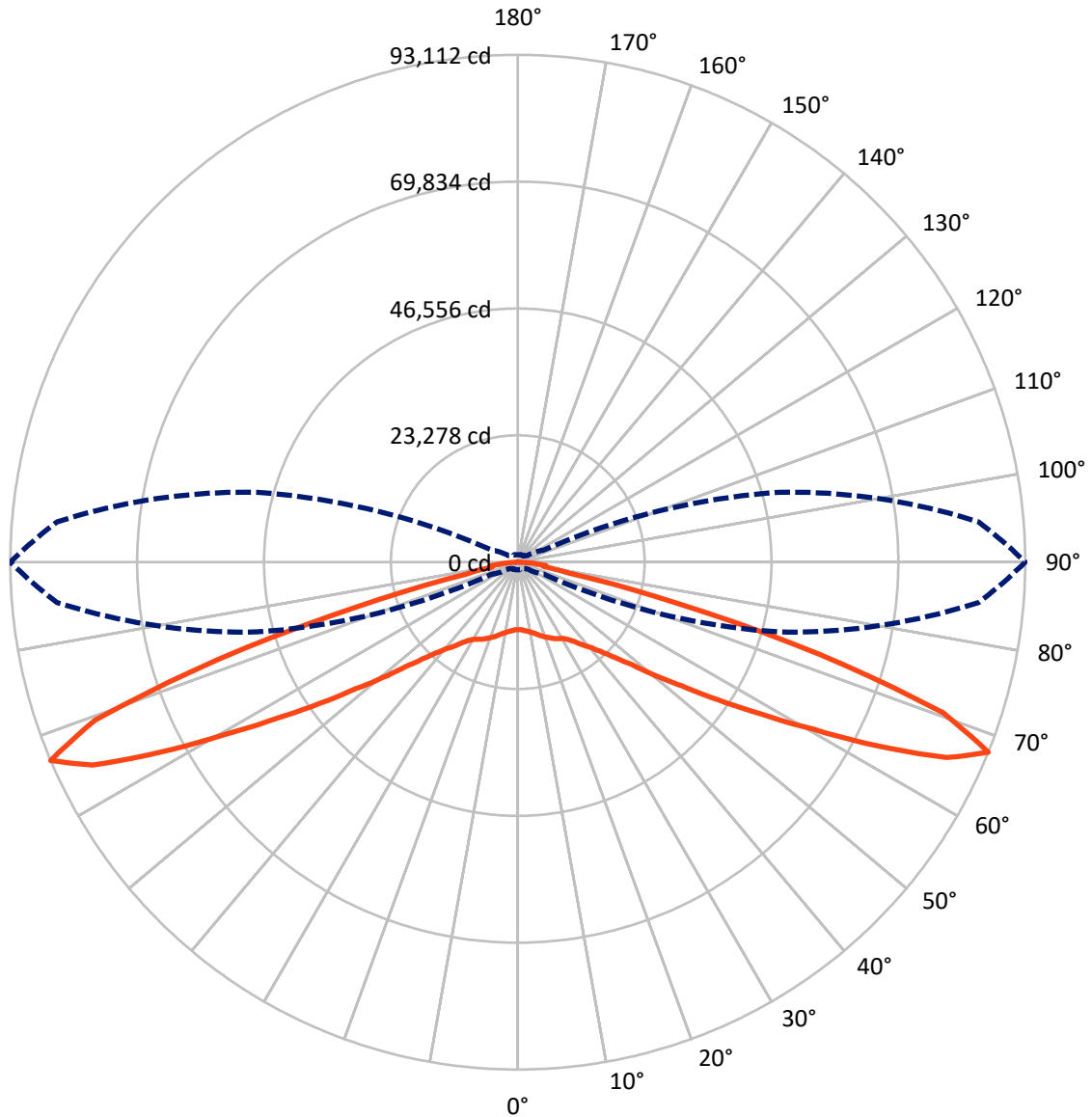
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	35003.5	0.0	35003.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	35003.5	0.0	35003.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	70007.0	0.0	70007.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1235.6	1.8
10°-20°	3953.3	5.6
20°-30°	6616.9	9.5
30°-40°	8964.1	12.8
40°-50°	11354.5	16.2
50°-60°	14184.6	20.3
60°-70°	16673.4	23.8
70°-80°	6378.3	9.1
80°-90°	646.2	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°	70007.0	100.0
0°-180°	70007.0	100.0

**Coefficient of Utilization**



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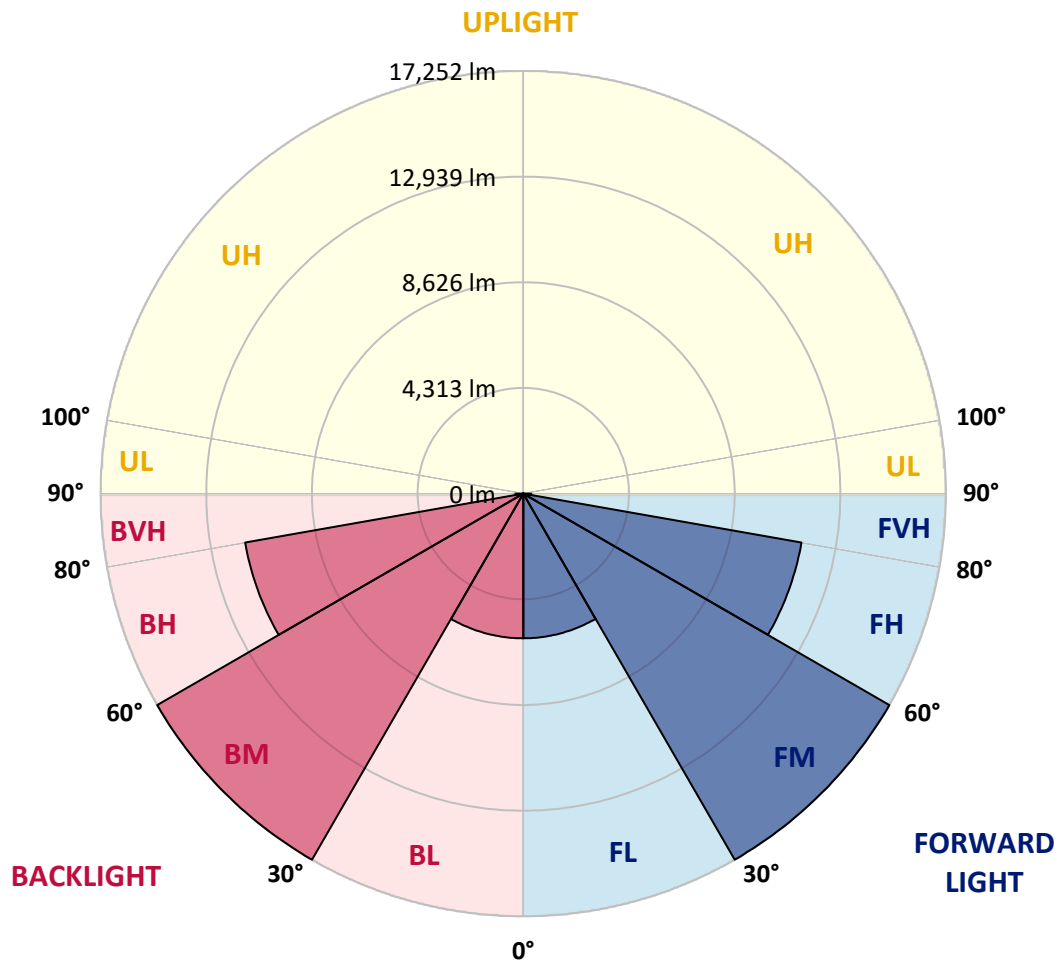
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5902.9	8.4			
FM (30°-60°)	17251.6	24.6			
FH (60°-80°)	11525.9	16.5			G4/12000
FVH (80°-90°)	323.1	0.5			G3/500
BL (0°-30°)	5902.9	8.4	B5		
BM (30°-60°)	17251.6	24.6	B5		
BH (60°-80°)	11525.9	16.5	B5		G5
BVH (80°-90°)	323.1	0.5			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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12393.4	12393.4	12393.4	12393.4	12393.4	12393.4	12393.4	12393.4	12393.4	12393.4	12393.4
2.5°	12552.4	12544.6	12548.5	12544.6	12556.2	12548.5	12502.0	12463.2	12432.2	12436.1	12424.4
5°	12819.8	12823.7	12827.6	12808.2	12835.3	12819.8	12746.2	12684.2	12622.1	12598.9	12591.1
7.5°	13040.8	13060.2	13071.8	13091.2	13137.7	13137.7	13099.0	13009.8	12874.1	12796.6	12792.7
10°	13261.8	13277.3	13312.2	13374.2	13451.7	13525.4	13509.9	13389.7	13215.3	13083.4	13052.4
12.5°	13339.3	13358.7	13475.0	13653.3	13827.8	13971.2	13971.2	13874.3	13649.4	13447.8	13389.7
15°	13067.9	13102.8	13312.2	13692.1	14149.5	14463.5	14533.3	14397.6	14157.3	13847.1	13777.4
17.5°	12529.1	12614.4	12920.6	13482.7	14242.5	14893.8	15095.4	15029.5	14719.4	14324.0	14242.5
20°	11951.5	12044.5	12370.2	13114.5	14165.0	15145.8	15731.2	15746.7	15362.9	14789.1	14669.0
22.5°	11315.7	11385.5	11804.2	12676.4	13932.4	15203.9	16277.7	16545.2	16025.8	15254.3	15083.8
25°	10602.4	10680.0	11118.0	12060.0	13494.4	15138.0	16777.8	17367.1	16719.7	15750.5	15533.4
27.5°	9920.2	9951.2	10420.2	11377.8	12916.8	14967.5	17146.1	18123.0	17487.2	16161.5	15886.2
30°	9265.0	9338.7	9753.5	10699.4	12253.9	14634.1	17464.0	18983.6	18313.0	16591.8	16239.0
32.5°	8571.1	8660.3	9110.0	10067.5	11591.0	14134.0	17657.8	19925.6	19464.3	17289.5	16913.5
35°	7904.3	7962.5	8416.1	9346.4	10943.6	13552.5	17692.7	20987.8	20949.0	18347.8	17847.8
37.5°	7222.1	7307.3	7764.8	8656.4	10257.4	12936.1	17518.3	22115.9	22740.0	19817.1	19278.2
40°	6566.9	6640.6	7090.3	7989.6	9478.2	12184.1	17103.5	23147.0	24829.5	21328.9	20565.2
42.5°	5853.6	5873.0	6365.3	7280.2	8714.5	11311.9	16506.5	24065.8	27159.3	23356.4	22406.6
45°	5043.4	5093.8	5551.3	6450.6	7838.4	10335.0	15696.3	24825.6	30113.3	26166.9	24872.1
47.5°	4233.2	4275.9	4694.5	5582.3	6880.9	9214.6	14448.0	25492.4	33144.7	29737.2	28039.3
50°	3442.4	3465.7	3806.8	4593.7	5803.2	8036.1	12901.3	25705.6	36571.6	34792.3	32625.3
52.5°	2721.4	2756.2	3016.0	3632.4	4651.9	6644.5	11230.4	25178.4	40572.3	40785.5	37730.7
55°	2205.8	2217.4	2411.2	2864.8	3636.2	5186.9	9214.6	23709.1	44875.3	48465.0	44569.0
57.5°	1899.5	1907.3	2015.8	2267.8	2798.9	3911.5	7148.4	20929.6	48740.2	57462.5	52454.0
60°	1725.1	1729.0	1791.0	1938.3	2217.4	3000.5	5121.0	17006.5	52554.8	67475.7	62254.0
62.5°	1616.5	1616.5	1659.2	1740.6	1876.3	2302.7	3709.9	12269.4	55167.6	77636.2	74333.4
65°	1511.9	1511.9	1542.9	1601.0	1674.7	1884.0	2740.7	8001.3	55101.7	85036.6	86482.6
67.5°	1391.7	1391.7	1415.0	1473.1	1515.7	1620.4	2116.6	5241.1	49496.1	84873.8	93111.5
70°	1248.3	1248.3	1279.3	1329.7	1364.6	1430.5	1670.8	3585.8	36362.3	72468.7	82807.6
72.5°	1104.8	1108.7	1128.1	1178.5	1205.6	1244.4	1387.8	2512.0	22305.8	49345.0	57900.6
75°	945.9	953.6	973.0	1023.4	1046.7	1062.2	1170.7	1791.0	11284.7	26605.0	30291.6
77.5°	763.7	779.2	790.8	845.1	860.6	883.9	965.3	1294.8	4954.3	9559.6	9644.9
80°	558.2	577.6	612.5	662.9	674.5	690.0	736.5	918.7	2244.5	4365.0	4741.1
82.5°	410.9	438.1	395.4	461.3	461.3	441.9	519.5	616.4	1031.2	4322.4	5171.4
85°	224.8	228.7	205.5	236.5	252.0	248.1	275.2	302.4	500.1	2884.2	2973.3
87.5°	54.3	58.1	62.0	73.7	89.2	89.2	96.9	85.3	162.8	934.3	535.0
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)