

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: P450248

Luminaire Tested: **GALN-SA1A-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4853 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

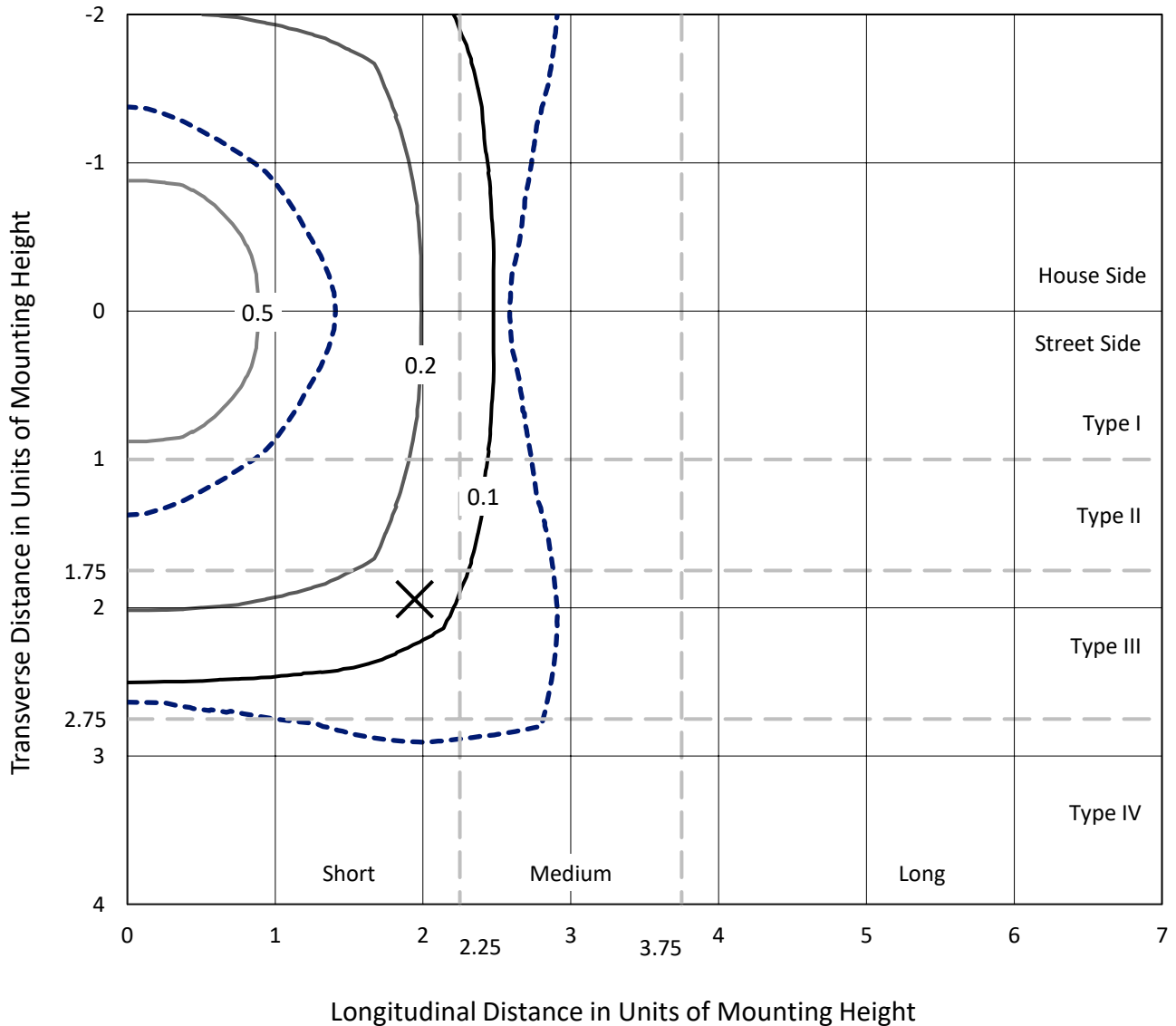
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

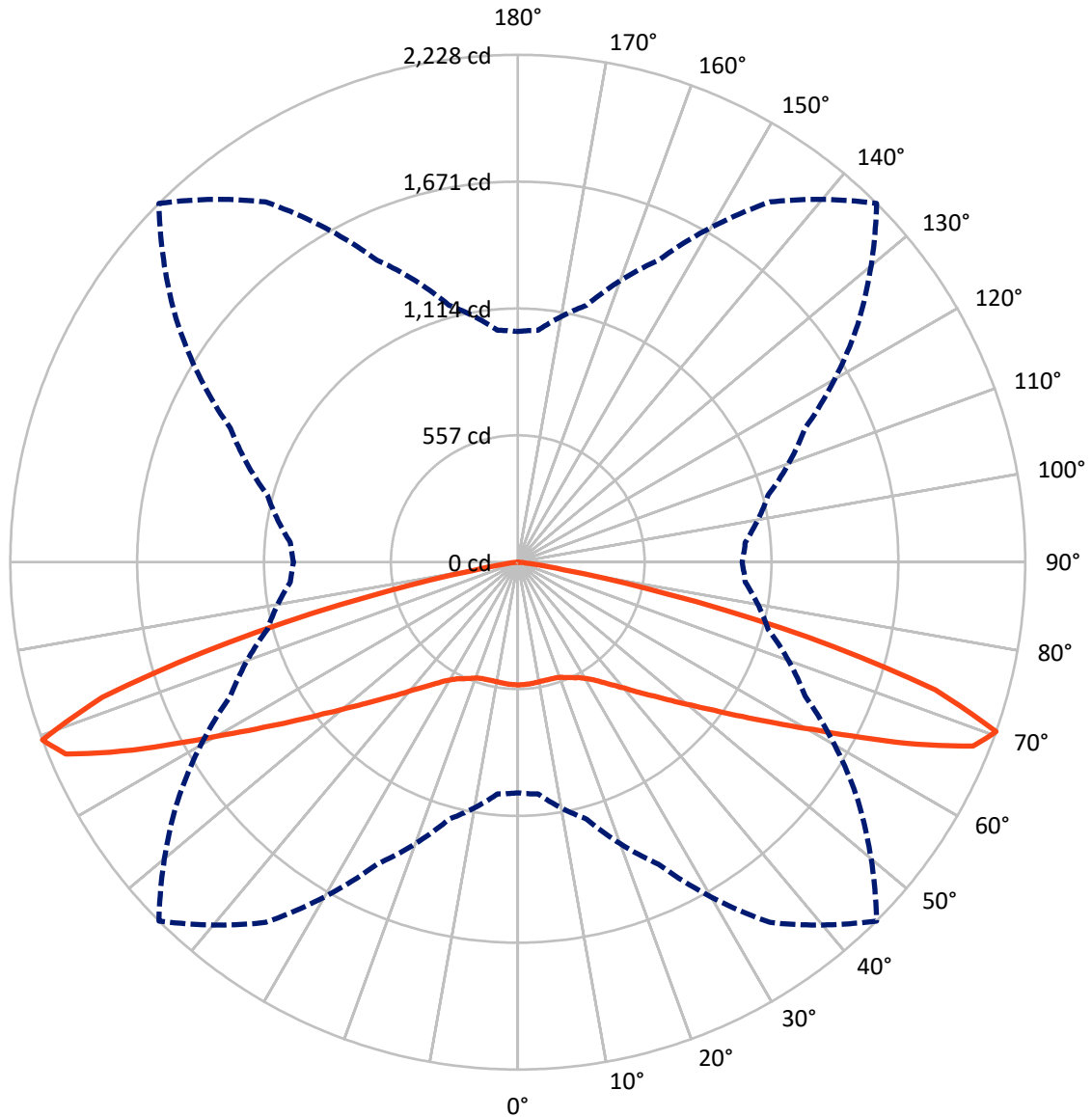
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2426.5	0.0	2426.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2426.5	0.0	2426.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4853.0	0.0	4853.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	1.1
10°-20°	150.0	3.1
20°-30°	256.5	5.3
30°-40°	407.1	8.4
40°-50°	656.7	13.5
50°-60°	1068.5	22.0
60°-70°	1549.0	31.9
70°-80°	687.1	14.2
80°-90°	27.1	0.6
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°	4853.0	100.0
0°-180°	4853.0	100.0



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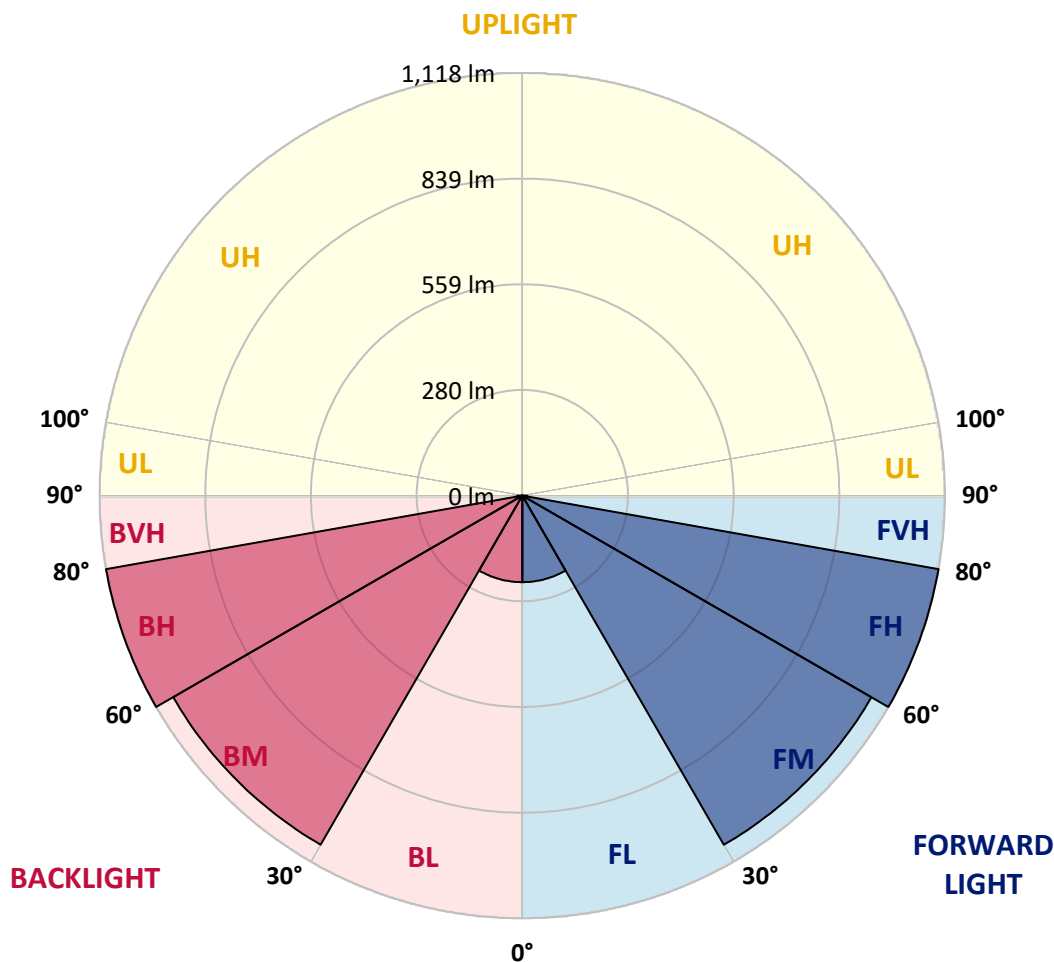
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	228.8	4.7			
FM (30°-60°)	1066.2	22.0			
FH (60°-80°)	1118.0	23.0			G1/1800
FVH (80°-90°)	13.5	0.3			G1/100
BL (0°-30°)	228.8	4.7	B1/500		
BM (30°-60°)	1066.2	22.0	B2/2500		
BH (60°-80°)	1118.0	23.0	B3/2500		G1/1800
BVH (80°-90°)	13.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	538.9	538.9	538.9	538.9	538.9	538.9	538.9	538.9	538.9	538.9	538.9
2.5°	538.9	539.4	538.6	538.1	537.9	537.9	537.6	537.9	539.4	539.7	538.9
5°	537.4	537.9	537.6	537.1	536.9	536.9	536.6	536.3	537.6	538.1	537.9
7.5°	535.3	535.6	535.3	535.1	535.3	535.1	534.3	533.8	534.8	534.8	534.6
10°	531.7	532.3	532.0	532.3	532.8	532.8	531.7	530.7	531.0	530.5	530.5
12.5°	527.4	528.2	528.4	529.4	530.7	532.3	530.0	527.6	527.1	526.9	526.6
15°	524.6	525.3	526.4	527.4	529.7	533.0	529.7	526.1	525.1	524.1	523.6
17.5°	523.8	524.8	526.4	527.9	531.0	534.3	531.5	527.9	525.3	523.8	523.3
20°	525.9	526.6	528.9	531.7	536.1	539.4	536.6	532.8	528.9	526.6	525.9
22.5°	530.0	531.2	534.0	539.2	545.3	550.2	546.3	539.9	533.8	530.7	529.7
25°	538.9	539.9	543.3	550.2	557.3	561.9	557.8	550.4	542.0	537.9	536.6
27.5°	552.5	554.0	557.6	565.8	571.6	574.2	571.4	566.3	560.1	555.8	554.8
30°	571.6	573.4	578.8	587.5	591.3	592.9	591.6	588.3	583.9	579.3	578.3
32.5°	597.5	598.5	604.6	612.8	616.4	616.9	615.4	613.8	606.7	599.0	598.5
35°	626.4	628.2	635.6	645.3	648.6	648.9	645.8	643.5	635.1	628.9	628.9
37.5°	664.7	665.5	672.7	683.7	687.2	686.2	684.7	682.6	673.7	665.8	666.0
40°	709.8	711.3	717.4	730.2	730.2	728.9	730.0	728.4	719.5	711.8	712.1
42.5°	763.2	764.0	771.4	785.0	783.9	781.4	782.4	780.3	774.7	766.0	763.0
45°	820.2	823.3	836.1	849.1	847.1	838.9	843.0	842.5	837.4	824.3	825.1
47.5°	889.0	894.2	906.4	922.0	919.7	907.0	911.6	914.6	907.5	893.1	890.6
50°	966.5	969.9	988.0	1002.6	1000.6	987.0	997.5	998.0	980.1	959.9	959.9
52.5°	1049.2	1052.5	1077.0	1099.8	1101.1	1081.4	1089.8	1089.3	1060.2	1033.6	1028.4
55°	1141.7	1143.3	1175.0	1208.5	1215.7	1196.5	1197.5	1187.3	1149.4	1118.5	1115.7
57.5°	1237.4	1243.0	1278.1	1321.6	1342.8	1331.0	1325.6	1298.3	1261.7	1226.2	1224.4
60°	1343.3	1343.5	1389.1	1440.5	1483.5	1491.4	1469.4	1432.8	1385.5	1338.4	1336.4
62.5°	1416.7	1427.7	1485.2	1572.2	1649.2	1693.7	1635.6	1558.9	1465.8	1389.8	1382.2
65°	1431.8	1439.2	1526.9	1674.3	1831.6	1927.5	1793.2	1630.0	1471.2	1369.9	1364.8
67.5°	1309.8	1317.7	1435.9	1662.0	1959.4	2156.1	1895.5	1595.7	1380.1	1254.8	1244.8
70°	1013.1	1022.0	1168.1	1463.0	1931.0	2228.0	1822.6	1391.9	1138.2	1002.9	984.7
72.5°	538.6	571.6	696.5	1004.1	1567.3	1918.3	1494.5	1015.7	734.1	600.0	576.0
75°	196.7	200.8	270.3	445.3	911.8	1315.4	946.9	484.4	278.5	215.1	204.1
77.5°	81.3	81.1	89.0	134.5	331.2	673.7	369.6	142.2	88.8	82.1	81.1
80°	48.1	48.1	52.9	56.0	87.2	203.3	97.4	63.4	53.2	48.6	49.4
82.5°	21.5	22.8	33.5	35.3	42.2	55.8	47.1	40.4	34.8	24.0	21.7
85°	11.8	10.2	17.6	18.4	20.2	20.7	22.3	22.0	20.2	11.8	12.0
87.5°	2.3	2.8	5.1	3.8	4.3	3.8	5.1	7.2	7.4	4.1	3.3
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)