

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: P651771

Luminaire Tested: **GALN-SA3A-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12016.2 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

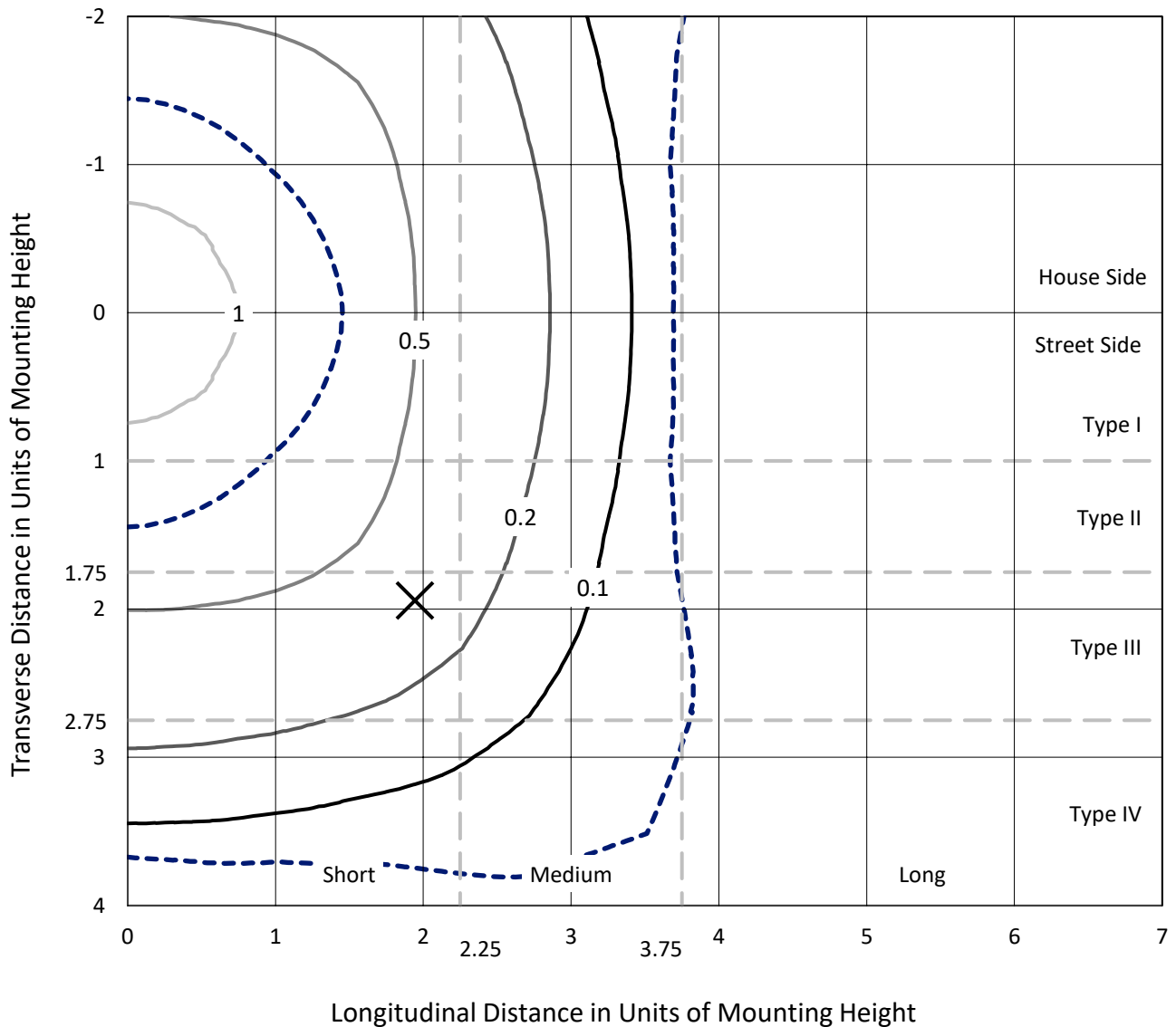
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651771
 CATALOG NUMBER: GALN-SA3A-840-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

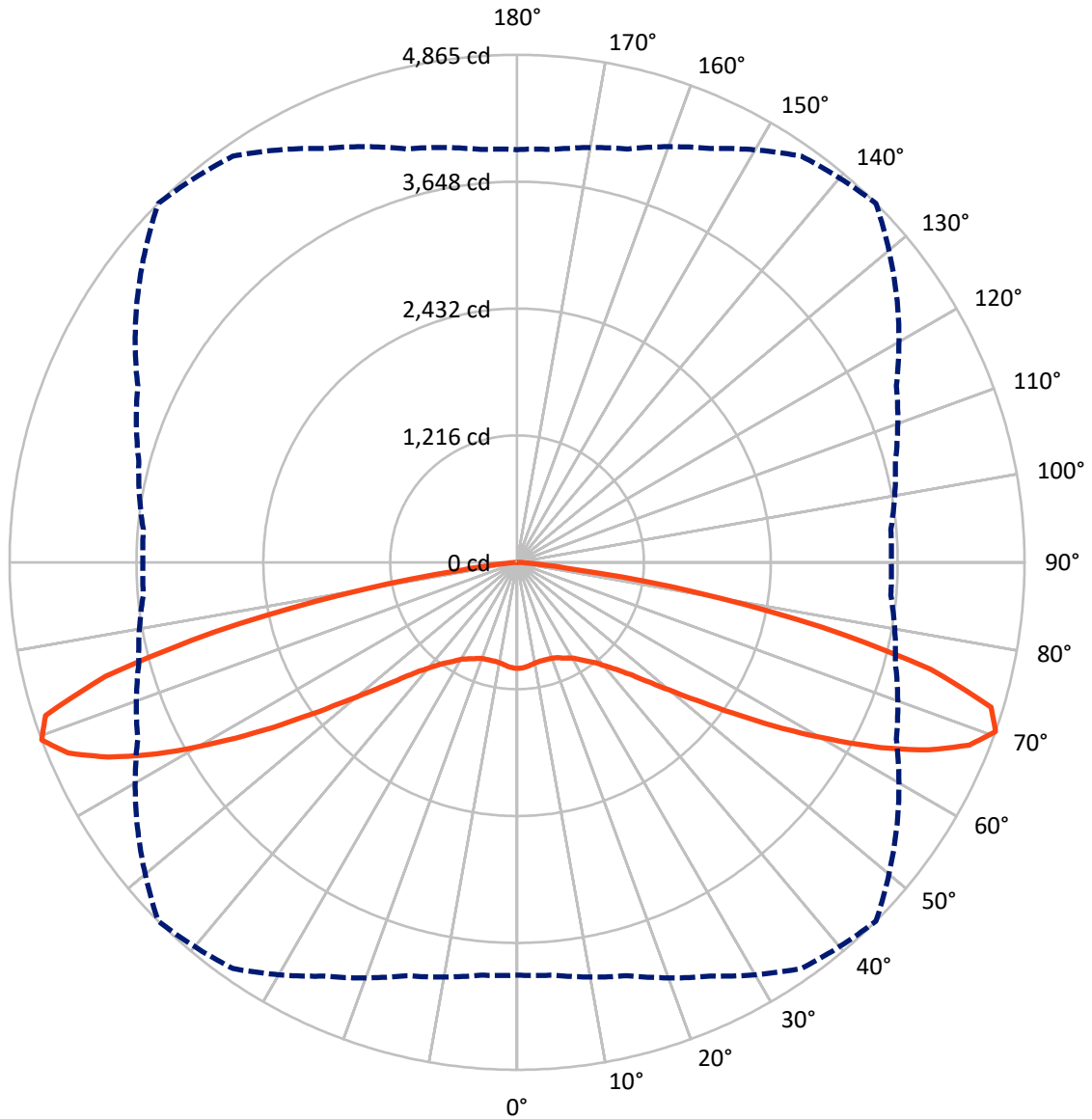
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - N/A

REPORT NUMBER: P651771
CATALOG NUMBER: GALN-SA3A-840-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651771
 CATALOG NUMBER: GALN-SA3A-840-U-5WQ

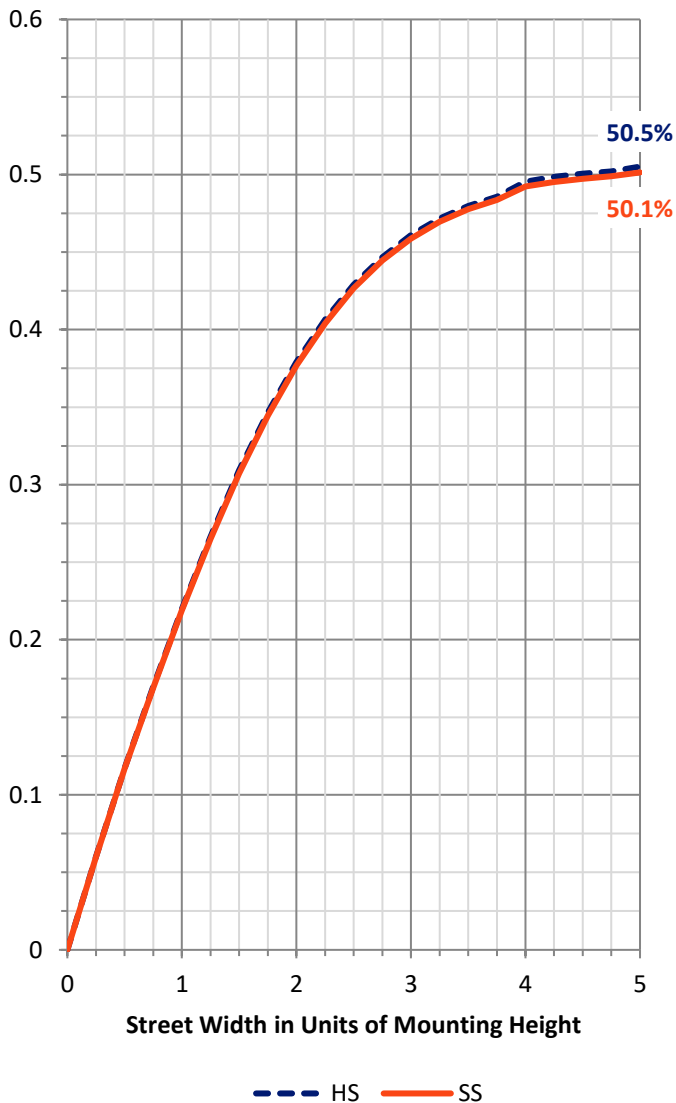
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6008.1	0.0	6008.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6008.1	0.0	6008.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	12016.2	0.0	12016.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	0.8
10°-20°	278.5	2.3
20°-30°	474.5	3.9
30°-40°	735.5	6.1
40°-50°	1238.0	10.3
50°-60°	2252.5	18.7
60°-70°	3813.4	31.7
70°-80°	2951.7	24.6
80°-90°	176.9	1.5
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°	12016.2	100.0
0°-180°	12016.2	100.0



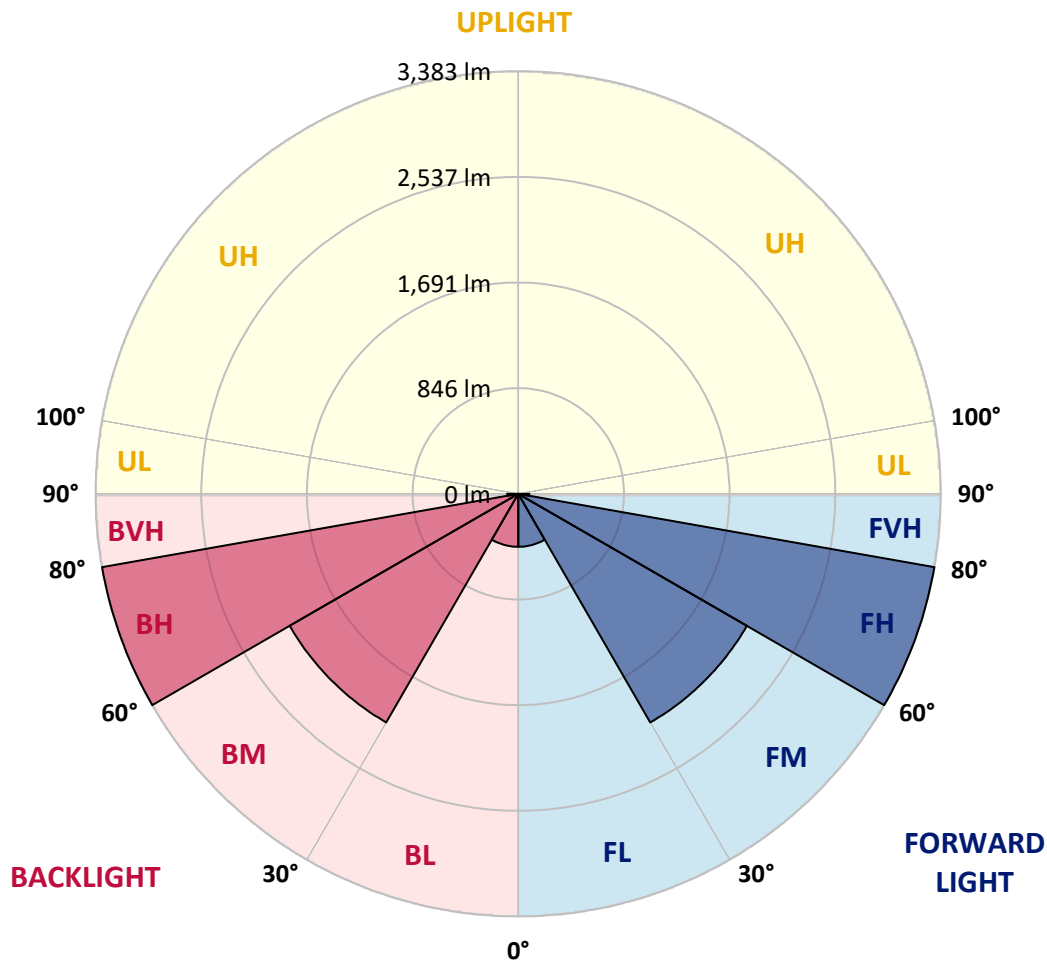
REPORT NUMBER: P651771
 CATALOG NUMBER: GALN-SA3A-840-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	424.1	3.5			
FM (30°-60°)	2113.0	17.6			
FH (60°-80°)	3382.6	28.1			G2/5000
FVH (80°-90°)	88.4	0.7			G1/100
BL (0°-30°)	424.1	3.5	B1/500		
BM (30°-60°)	2113.0	17.6	B2/2500		
BH (60°-80°)	3382.6	28.1	B4/5000		G2/5000
BVH (80°-90°)	88.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P651771
 CATALOG NUMBER: GALN-SA3A-840-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4	1017.4
2.5°	1014.8	1015.4	1015.4	1014.2	1013.5	1013.5	1012.9	1012.9	1014.8	1015.4	1016.0
5°	1005.9	1005.9	1005.9	1005.2	1004.0	1004.0	1002.7	1002.7	1003.4	1005.2	1004.0
7.5°	993.8	995.1	995.1	992.5	990.7	990.7	990.0	990.7	991.3	993.2	992.5
10°	990.0	990.7	987.5	983.0	979.8	978.0	978.6	979.8	983.0	984.3	985.0
12.5°	992.5	992.5	986.8	980.5	974.8	972.3	971.6	976.1	981.8	985.6	986.8
15°	995.7	994.5	987.5	979.3	973.5	972.9	972.3	975.4	983.7	991.3	992.0
17.5°	997.7	997.0	988.1	978.0	974.8	974.8	974.1	976.7	985.6	995.1	995.7
20°	1004.0	1002.1	992.0	981.1	978.6	979.8	978.0	981.1	990.7	1002.1	1004.7
22.5°	1016.7	1014.8	1004.7	993.8	992.5	992.5	992.0	995.1	1005.2	1017.4	1019.2
25°	1031.9	1030.0	1020.5	1012.9	1014.2	1016.7	1015.4	1016.0	1024.3	1034.4	1037.6
27.5°	1052.3	1049.1	1040.8	1034.4	1038.3	1038.3	1038.3	1037.6	1042.7	1052.3	1055.4
30°	1077.0	1075.7	1066.8	1066.2	1069.3	1066.2	1066.2	1066.8	1067.5	1076.3	1079.5
32.5°	1109.4	1106.8	1102.4	1101.1	1110.0	1112.5	1103.6	1095.4	1099.9	1108.7	1110.6
35°	1162.7	1158.8	1152.5	1145.5	1152.5	1164.5	1145.5	1139.1	1150.6	1162.7	1163.9
37.5°	1235.0	1233.1	1223.0	1210.3	1209.6	1222.3	1202.6	1202.0	1223.6	1238.2	1240.1
40°	1325.8	1327.7	1315.0	1302.9	1296.6	1306.7	1291.4	1297.2	1318.1	1334.7	1333.4
42.5°	1453.3	1446.4	1426.7	1415.2	1408.3	1404.5	1400.6	1409.5	1433.0	1450.8	1464.8
45°	1602.4	1599.9	1575.2	1561.2	1546.0	1540.3	1539.0	1554.8	1583.4	1605.0	1606.9
47.5°	1771.2	1765.5	1749.7	1735.1	1729.3	1722.4	1716.1	1728.1	1756.7	1771.9	1776.4
50°	1945.1	1946.4	1946.4	1943.9	1949.6	1950.9	1933.7	1938.2	1954.1	1952.8	1951.5
52.5°	2143.8	2150.8	2183.7	2186.9	2214.3	2232.6	2201.6	2183.2	2177.4	2143.1	2145.7
55°	2377.3	2383.6	2433.2	2482.7	2556.3	2587.4	2522.1	2464.9	2424.3	2372.3	2374.8
57.5°	2668.7	2671.8	2718.8	2814.0	2930.7	3003.7	2888.8	2775.9	2693.4	2643.9	2624.2
60°	2982.2	2985.3	3053.8	3170.0	3351.5	3440.4	3298.2	3113.6	3009.4	2933.9	2939.0
62.5°	3358.4	3371.1	3432.7	3592.7	3812.9	3912.5	3724.0	3477.2	3336.2	3242.3	3246.2
65°	3761.5	3783.1	3850.4	4026.1	4229.2	4336.4	4105.4	3820.5	3645.3	3530.4	3542.5
67.5°	4022.9	4042.0	4139.1	4333.3	4586.5	4675.4	4377.1	4045.1	3826.2	3689.1	3663.7
70°	3956.3	3972.2	4101.6	4377.1	4752.2	4864.5	4441.8	4012.2	3754.5	3596.5	3586.4
72.5°	3492.4	3459.4	3648.5	4043.9	4563.0	4751.5	4238.1	3664.4	3340.1	3177.6	3158.5
75°	2314.5	2386.3	2665.5	3131.3	3860.4	4094.0	3617.4	2942.2	2534.1	2399.0	2378.0
77.5°	773.6	828.8	1077.0	1775.1	2631.8	2982.8	2635.6	1924.2	1361.3	1096.7	1101.7
80°	205.0	202.4	262.1	488.0	1137.3	1727.5	1323.8	651.8	356.7	258.3	245.0
82.5°	73.6	82.5	106.0	135.1	301.4	536.9	378.9	182.7	133.9	99.0	95.8
85°	32.4	31.7	45.7	53.9	75.5	100.2	88.8	77.5	67.9	45.1	41.9
87.5°	7.0	7.0	10.8	8.2	13.3	13.3	16.5	19.7	20.3	13.3	10.8
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)