

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: P652211

Luminaire Tested: **GALN-SA2B-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652211
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-SA2B-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10071.8 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

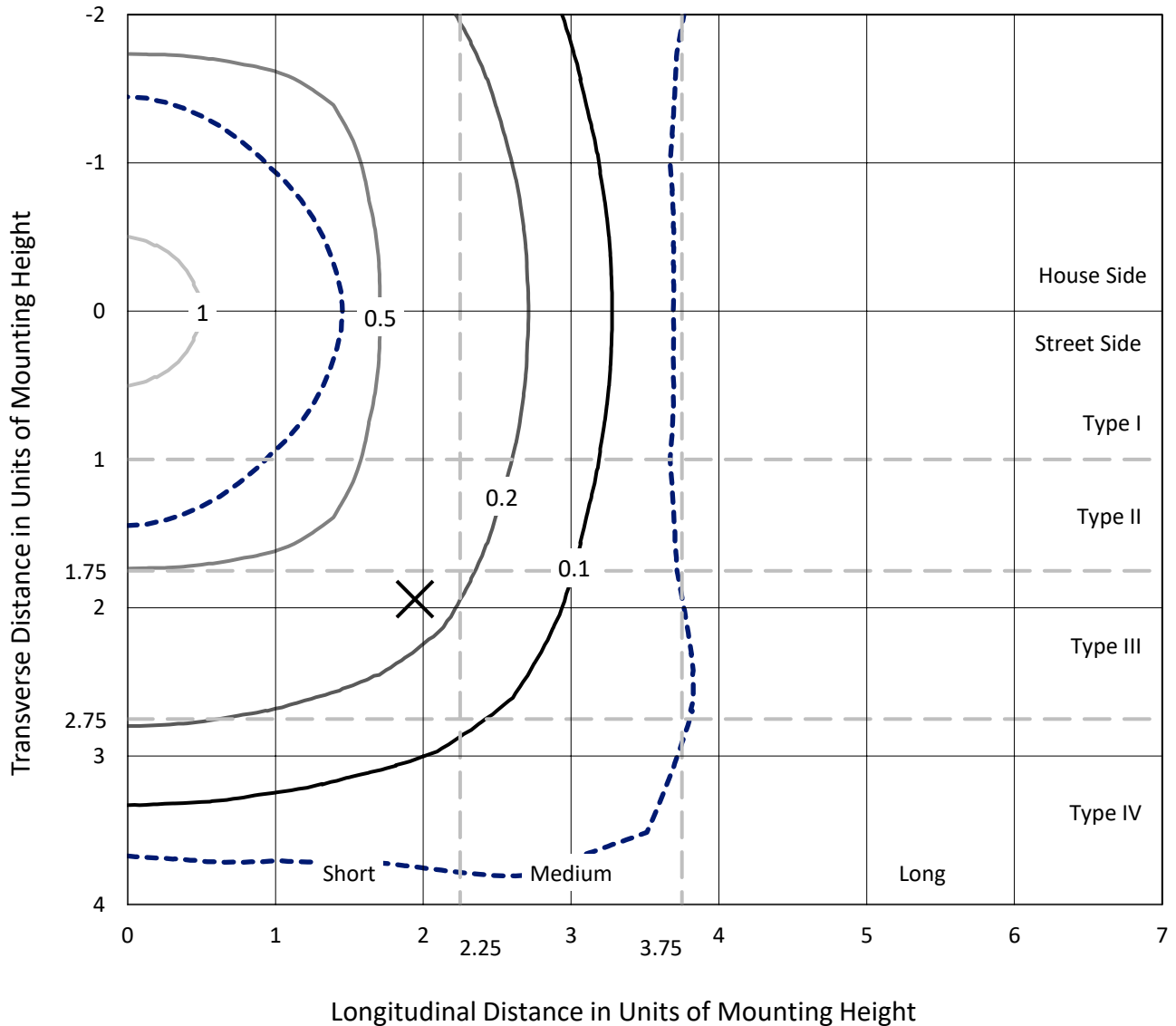
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

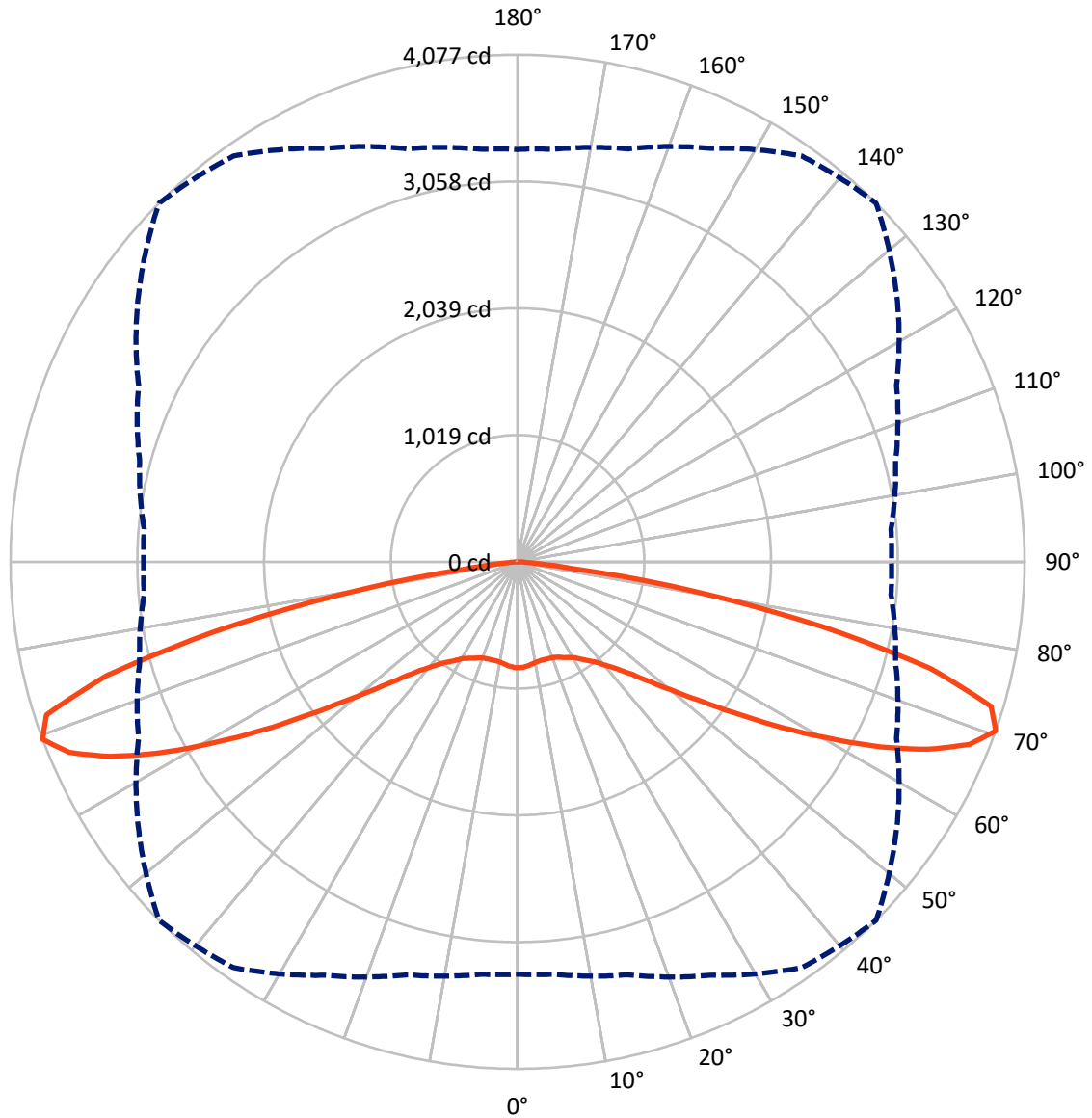
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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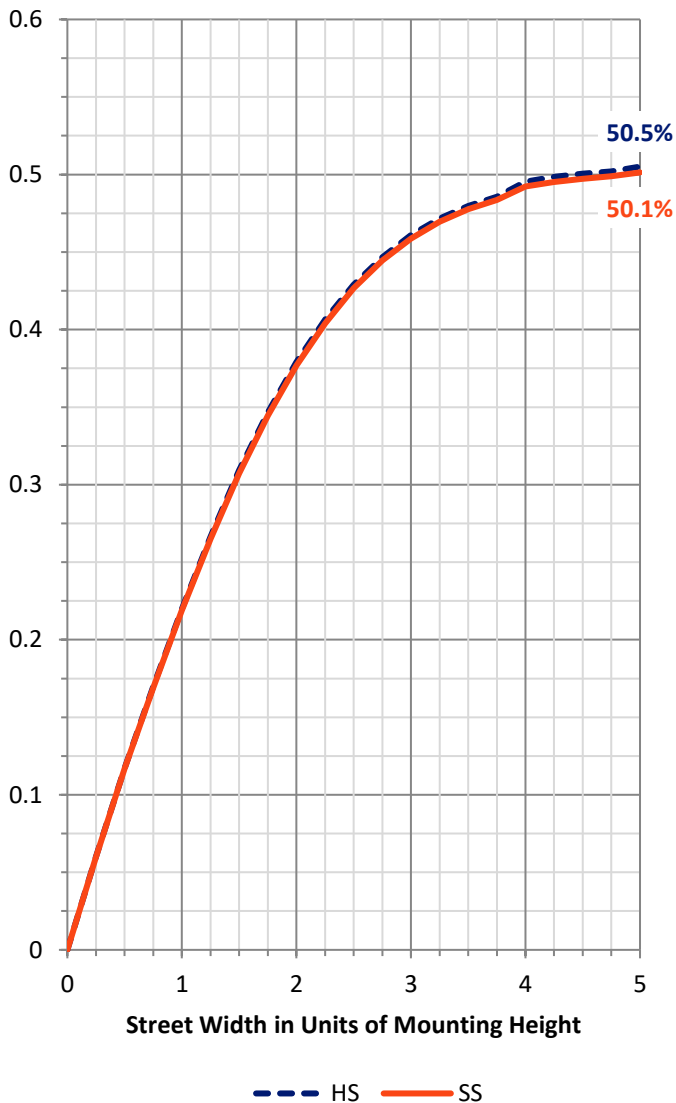
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5035.9	0.0	5035.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5035.9	0.0	5035.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	10071.8	0.0	10071.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	0.8
10°-20°	233.4	2.3
20°-30°	397.8	3.9
30°-40°	616.5	6.1
40°-50°	1037.7	10.3
50°-60°	1888.0	18.7
60°-70°	3196.3	31.7
70°-80°	2474.1	24.6
80°-90°	148.3	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°	10071.8	100.0
0°-180°	10071.8	100.0

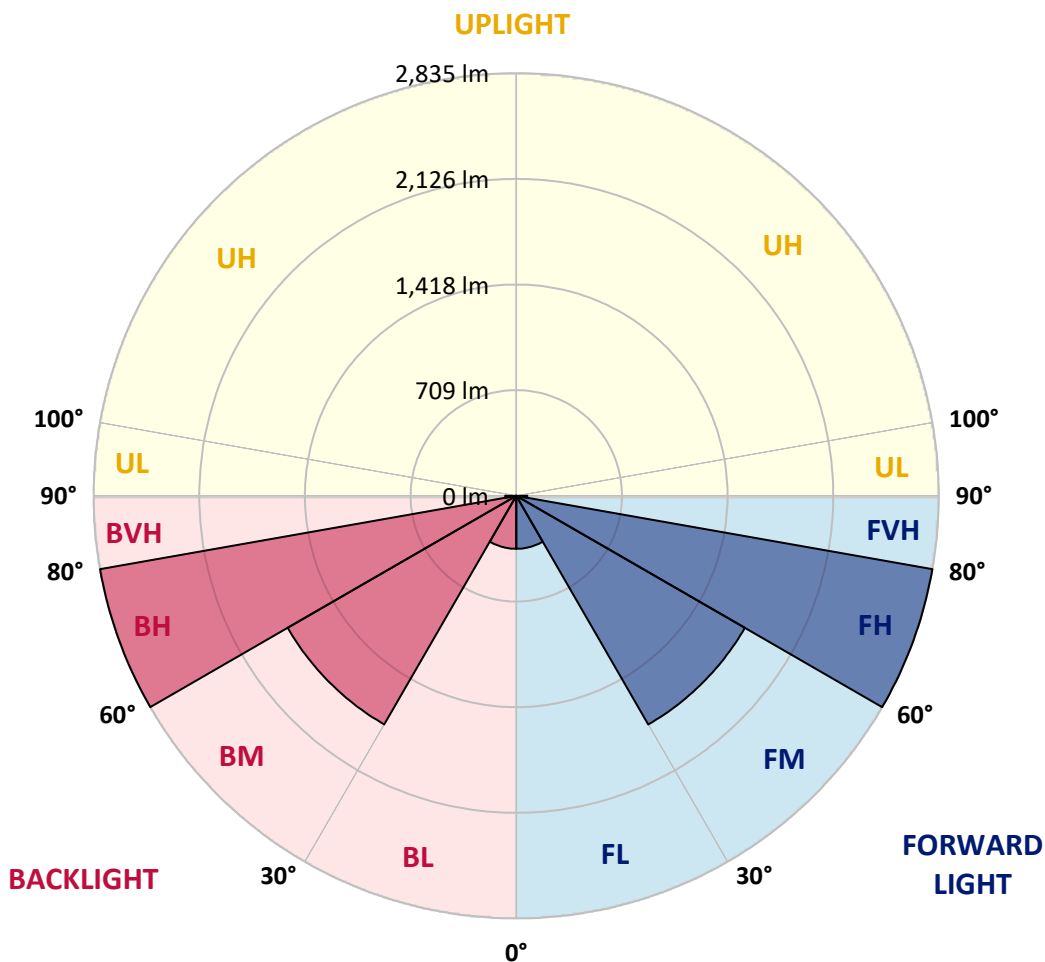


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	355.5	3.5			
FM (30°-60°)	1771.1	17.6			
FH (60°-80°)	2835.2	28.1			G2/5000
FVH (80°-90°)	74.1	0.7			G1/100
BL (0°-30°)	355.5	3.5	B1/500		
BM (30°-60°)	1771.1	17.6	B2/2500		
BH (60°-80°)	2835.2	28.1	B4/5000		G2/5000
BVH (80°-90°)	74.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	852.7	852.7	852.7	852.7	852.7	852.7	852.7	852.7	852.7	852.7	852.7
2.5°	850.6	851.1	851.1	850.1	849.5	849.5	849.0	849.0	850.6	851.1	851.7
5°	843.1	843.1	843.1	842.6	841.5	841.5	840.5	840.5	841.0	842.6	841.5
7.5°	833.0	834.1	834.1	831.9	830.3	830.3	829.8	830.3	830.9	832.5	831.9
10°	829.8	830.3	827.7	824.0	821.3	819.7	820.2	821.3	824.0	825.0	825.6
12.5°	831.9	831.9	827.2	821.8	817.0	814.9	814.4	818.1	822.9	826.1	827.2
15°	834.6	833.5	827.7	820.8	816.0	815.4	814.9	817.6	824.5	830.9	831.4
17.5°	836.2	835.7	828.2	819.7	817.0	817.0	816.5	818.6	826.1	834.1	834.6
20°	841.5	839.9	831.4	822.4	820.2	821.3	819.7	822.4	830.3	839.9	842.1
22.5°	852.2	850.6	842.1	833.0	831.9	831.9	831.4	834.1	842.6	852.7	854.3
25°	865.0	863.4	855.4	849.0	850.1	852.2	851.1	851.7	858.6	867.1	869.8
27.5°	882.0	879.3	872.4	867.1	870.3	870.3	870.3	869.8	874.0	882.0	884.6
30°	902.7	901.6	894.2	893.6	896.3	893.6	893.6	894.2	894.7	902.1	904.8
32.5°	929.8	927.7	924.0	922.9	930.4	932.5	925.0	918.1	921.8	929.3	930.9
35°	974.6	971.4	966.0	960.2	966.0	976.1	960.2	954.9	964.4	974.6	975.6
37.5°	1035.2	1033.6	1025.0	1014.4	1013.9	1024.5	1008.0	1007.5	1025.6	1037.8	1039.4
40°	1111.2	1112.8	1102.2	1092.0	1086.7	1095.2	1082.5	1087.3	1104.8	1118.7	1117.6
42.5°	1218.2	1212.3	1195.8	1186.2	1180.3	1177.1	1174.0	1181.4	1201.1	1216.0	1227.7
45°	1343.2	1341.1	1320.3	1308.6	1295.8	1291.0	1289.9	1303.3	1327.2	1345.3	1346.9
47.5°	1484.6	1479.8	1466.5	1454.3	1449.5	1443.7	1438.4	1448.5	1472.4	1485.2	1488.9
50°	1630.4	1631.5	1631.5	1629.4	1634.1	1635.2	1620.9	1624.6	1637.8	1636.8	1635.7
52.5°	1796.9	1802.8	1830.4	1833.0	1855.9	1871.4	1845.3	1829.8	1825.1	1796.4	1798.5
55°	1992.7	1998.0	2039.4	2081.0	2142.7	2168.7	2113.9	2066.1	2032.0	1988.4	1990.6
57.5°	2236.8	2239.5	2278.9	2358.7	2456.5	2517.7	2421.4	2326.7	2257.6	2216.0	2199.6
60°	2499.6	2502.2	2559.7	2657.1	2809.2	2883.6	2764.5	2609.7	2522.5	2459.2	2463.5
62.5°	2815.0	2825.7	2877.3	3011.3	3195.9	3279.4	3121.5	2914.5	2796.4	2717.7	2720.9
65°	3152.8	3170.9	3227.3	3374.6	3544.9	3634.7	3441.1	3202.3	3055.4	2959.2	2969.3
67.5°	3372.0	3388.0	3469.3	3632.1	3844.4	3918.8	3668.8	3390.6	3207.1	3092.2	3070.9
70°	3316.1	3329.4	3437.9	3668.8	3983.1	4077.3	3723.0	3362.9	3146.9	3014.5	3006.0
72.5°	2927.3	2899.6	3058.1	3389.6	3824.7	3982.6	3552.3	3071.4	2799.6	2663.4	2647.5
75°	1940.0	2000.1	2234.1	2624.6	3235.8	3431.5	3032.1	2466.1	2124.0	2010.7	1993.2
77.5°	648.4	694.8	902.7	1487.8	2205.9	2500.1	2209.1	1612.9	1141.0	919.2	923.4
80°	171.8	169.7	219.7	409.1	953.3	1447.9	1109.6	546.3	299.0	216.5	205.3
82.5°	61.7	69.1	88.8	113.3	252.6	450.0	317.6	153.2	112.3	83.0	80.3
85°	27.2	26.6	38.3	45.2	63.3	84.0	74.5	64.9	56.9	37.8	35.1
87.5°	5.9	5.9	9.1	6.9	11.2	11.2	13.8	16.5	17.0	11.2	9.1
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)