

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: P450569

Luminaire Tested: **GALN-SA1B-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450569
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-SA1B-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4430 lumens
Efficiency: N/A
Efficacy: 100.7 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

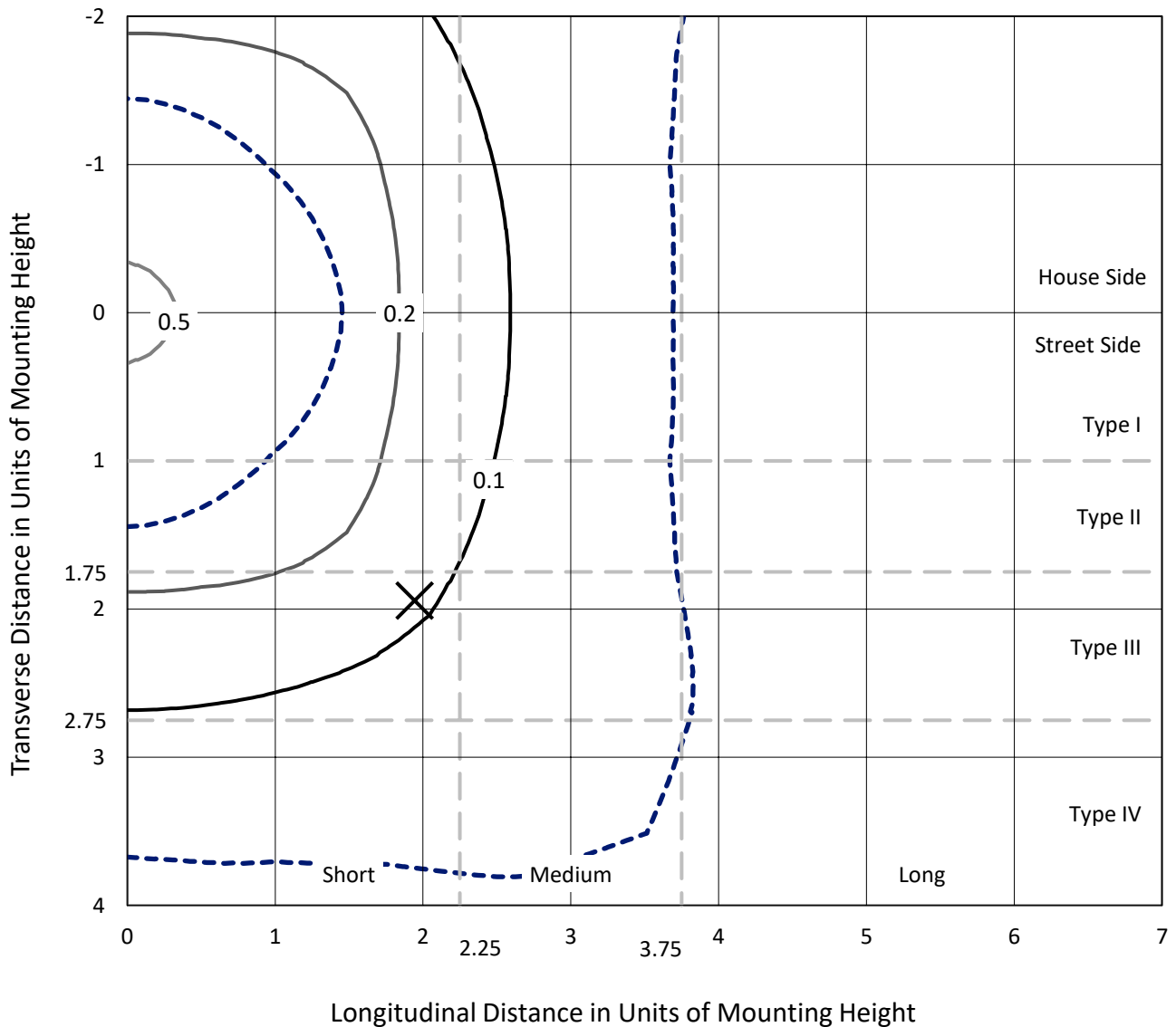
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

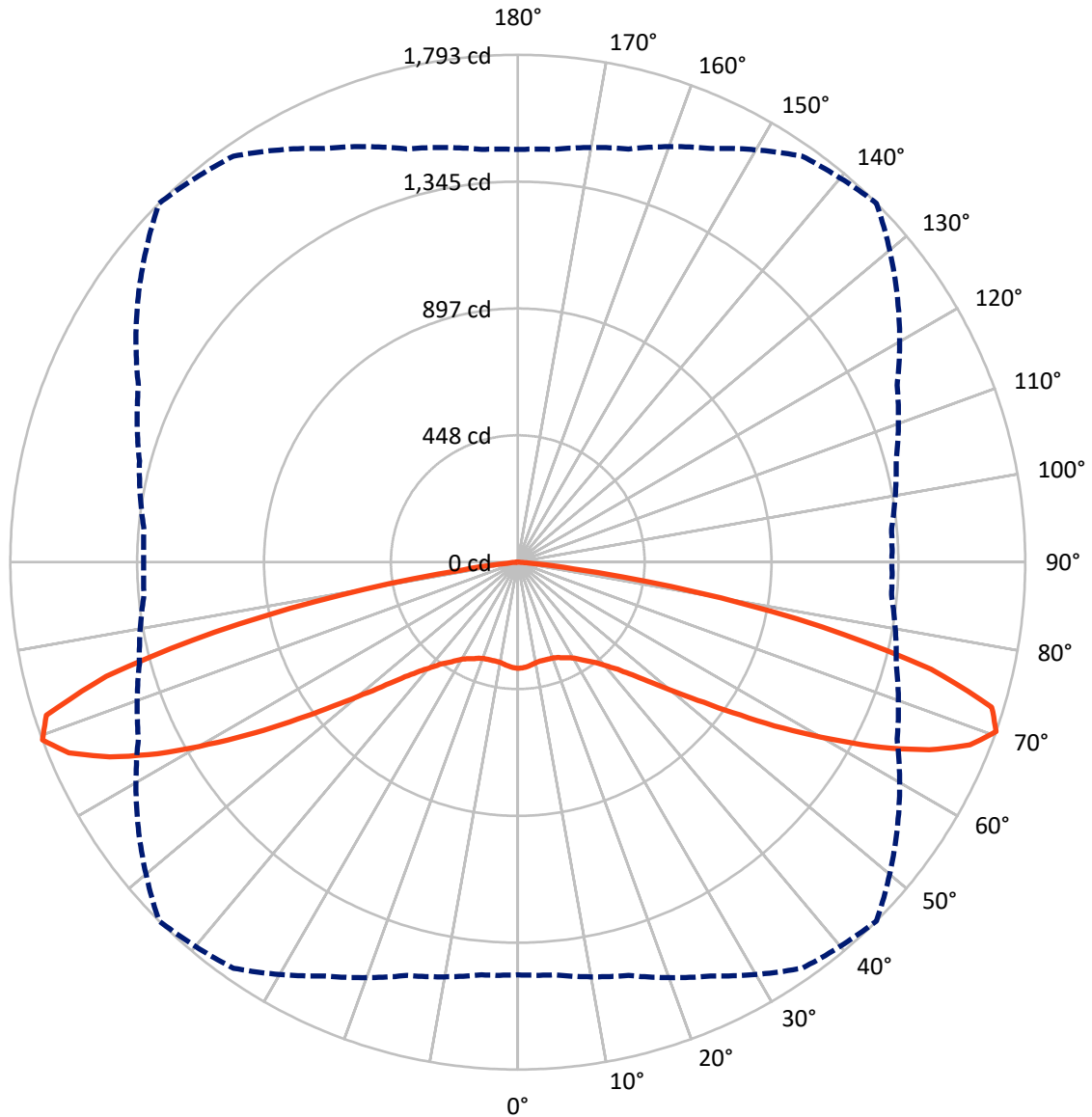
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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	2215.0	0.0	2215.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2215.0	0.0	2215.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4430.0	0.0	4430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	0.8
10°-20°	102.7	2.3
20°-30°	174.9	3.9
30°-40°	271.2	6.1
40°-50°	456.4	10.3
50°-60°	830.4	18.7
60°-70°	1405.9	31.7
70°-80°	1088.2	24.6
80°-90°	65.2	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°	4430.0	100.0
0°-180°	4430.0	100.0

Coefficient of Utilization



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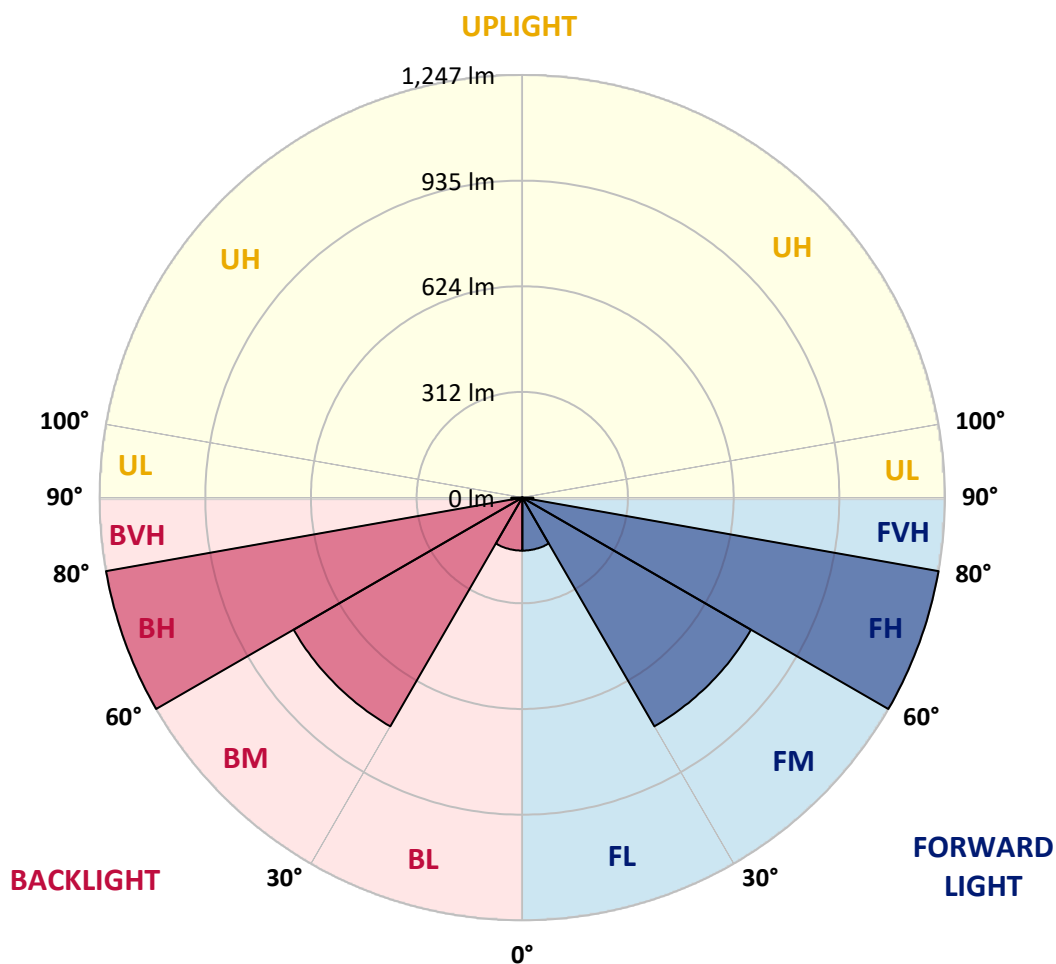
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.4	3.5			
FM (30°-60°)	779.0	17.6			
FH (60°-80°)	1247.0	28.2			G1/1800
FVH (80°-90°)	32.6	0.7			G1/100
BL (0°-30°)	156.4	3.5	B1/500		
BM (30°-60°)	779.0	17.6	B1/1000		
BH (60°-80°)	1247.0	28.2	B3/2500		G1/1800
BVH (80°-90°)	32.6	0.7			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°	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1	375.1
2.5°	374.1	374.4	374.4	373.9	373.6	373.6	373.4	373.4	374.1	374.4	374.6
5°	370.8	370.8	370.8	370.6	370.1	370.1	369.7	369.7	369.9	370.6	370.1
7.5°	366.4	366.9	366.9	365.9	365.2	365.2	365.0	365.2	365.5	366.2	365.9
10°	365.0	365.2	364.1	362.4	361.2	360.5	360.8	361.2	362.4	362.9	363.1
12.5°	365.9	365.9	363.8	361.5	359.4	358.4	358.2	359.8	362.0	363.4	363.8
15°	367.1	366.6	364.1	361.0	358.9	358.7	358.4	359.6	362.7	365.5	365.7
17.5°	367.8	367.6	364.3	360.5	359.4	359.4	359.1	360.1	363.4	366.9	367.1
20°	370.1	369.4	365.7	361.7	360.8	361.2	360.5	361.7	365.2	369.4	370.4
22.5°	374.8	374.1	370.4	366.4	365.9	365.9	365.7	366.9	370.6	375.1	375.8
25°	380.4	379.7	376.2	373.4	373.9	374.8	374.4	374.6	377.6	381.4	382.5
27.5°	387.9	386.8	383.7	381.4	382.8	382.8	382.8	382.5	384.4	387.9	389.1
30°	397.0	396.6	393.3	393.1	394.2	393.1	393.1	393.3	393.5	396.8	398.0
32.5°	409.0	408.0	406.4	405.9	409.2	410.1	406.9	403.8	405.5	408.7	409.4
35°	428.6	427.2	424.9	422.3	424.9	429.3	422.3	420.0	424.2	428.6	429.1
37.5°	455.3	454.6	450.9	446.2	445.9	450.6	443.4	443.1	451.1	456.5	457.2
40°	488.8	489.5	484.8	480.3	478.0	481.7	476.1	478.2	486.0	492.0	491.6
42.5°	535.8	533.2	526.0	521.8	519.2	517.8	516.4	519.6	528.3	534.9	540.0
45°	590.8	589.8	580.7	575.6	570.0	567.8	567.4	573.2	583.8	591.7	592.4
47.5°	653.0	650.9	645.1	639.7	637.6	635.0	632.7	637.1	647.6	653.2	654.9
50°	717.1	717.6	717.6	716.6	718.8	719.2	712.9	714.5	720.4	719.9	719.5
52.5°	790.4	792.9	805.1	806.3	816.3	823.1	811.6	804.9	802.8	790.1	791.1
55°	876.5	878.8	897.0	915.3	942.4	953.9	929.8	908.7	893.8	874.6	875.5
57.5°	983.8	985.0	1002.3	1037.4	1080.5	1107.4	1065.0	1023.4	993.0	974.7	967.5
60°	1099.4	1100.6	1125.9	1168.7	1235.6	1268.4	1215.9	1147.9	1109.5	1081.6	1083.5
62.5°	1238.2	1242.8	1265.5	1324.5	1405.7	1442.4	1372.9	1281.9	1230.0	1195.4	1196.8
65°	1386.7	1394.7	1419.5	1484.3	1559.2	1598.7	1513.6	1408.5	1343.9	1301.6	1306.0
67.5°	1483.1	1490.2	1526.0	1597.5	1690.9	1723.7	1613.7	1491.3	1410.6	1360.1	1350.7
70°	1458.6	1464.4	1512.1	1613.7	1752.0	1793.4	1637.6	1479.2	1384.2	1325.9	1322.2
72.5°	1287.5	1275.4	1345.1	1490.9	1682.2	1751.7	1562.5	1350.9	1231.4	1171.5	1164.5
75°	853.3	879.7	982.7	1154.4	1423.2	1509.3	1333.6	1084.7	934.2	884.4	876.7
77.5°	285.2	305.6	397.0	654.4	970.3	1099.7	971.7	709.4	501.9	404.3	406.2
80°	75.6	74.6	96.6	179.9	419.3	636.9	488.1	240.3	131.5	95.2	90.3
82.5°	27.1	30.4	39.1	49.8	111.1	197.9	139.7	67.4	49.4	36.5	35.3
85°	11.9	11.7	16.8	19.9	27.8	37.0	32.8	28.5	25.0	16.6	15.4
87.5°	2.6	2.6	4.0	3.0	4.9	4.9	6.1	7.3	7.5	4.9	4.0
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)