

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: STREETWORKS

Report Number: P316269

Luminaire Tested: **GAN-SA5A-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 18035 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

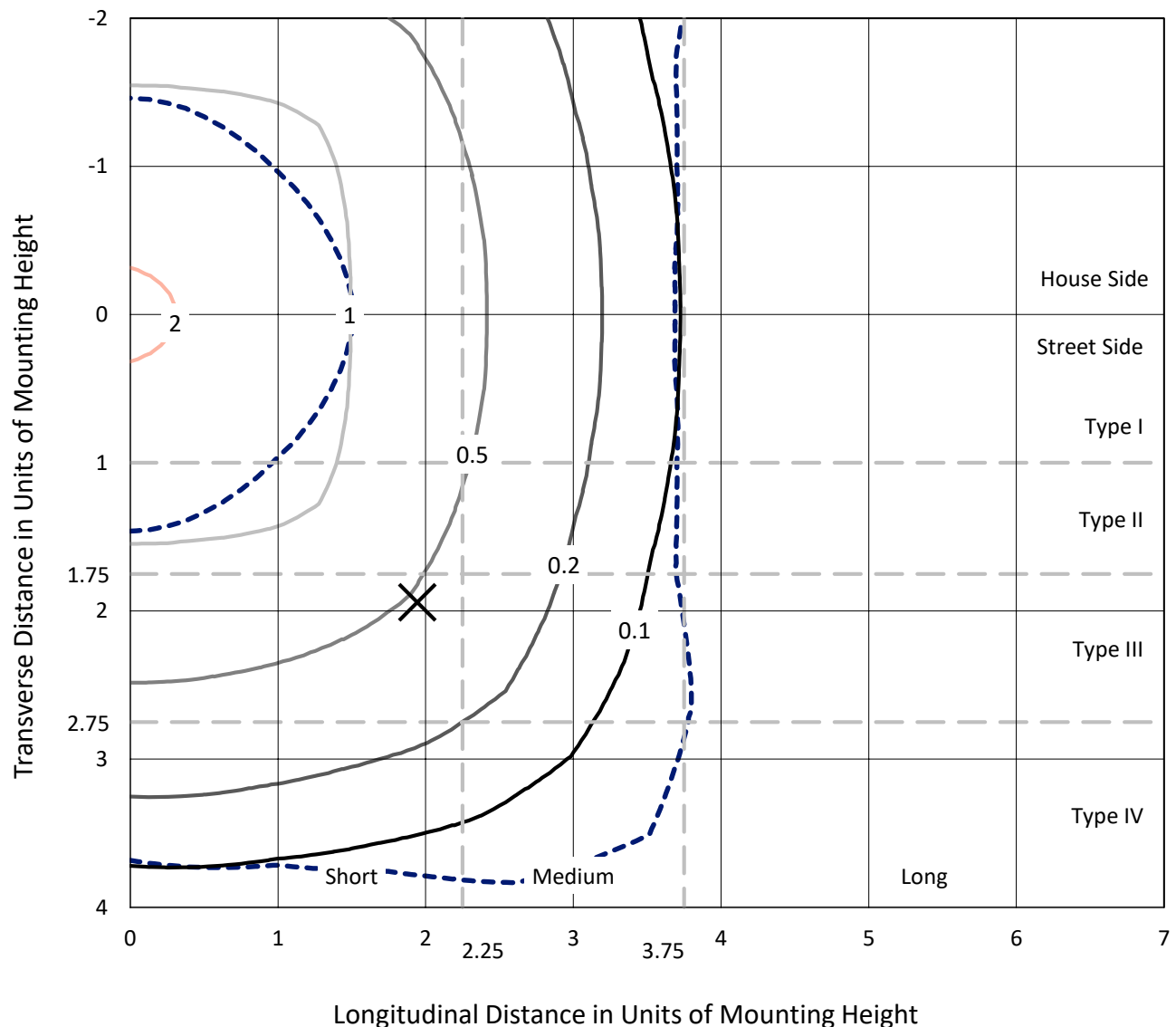
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

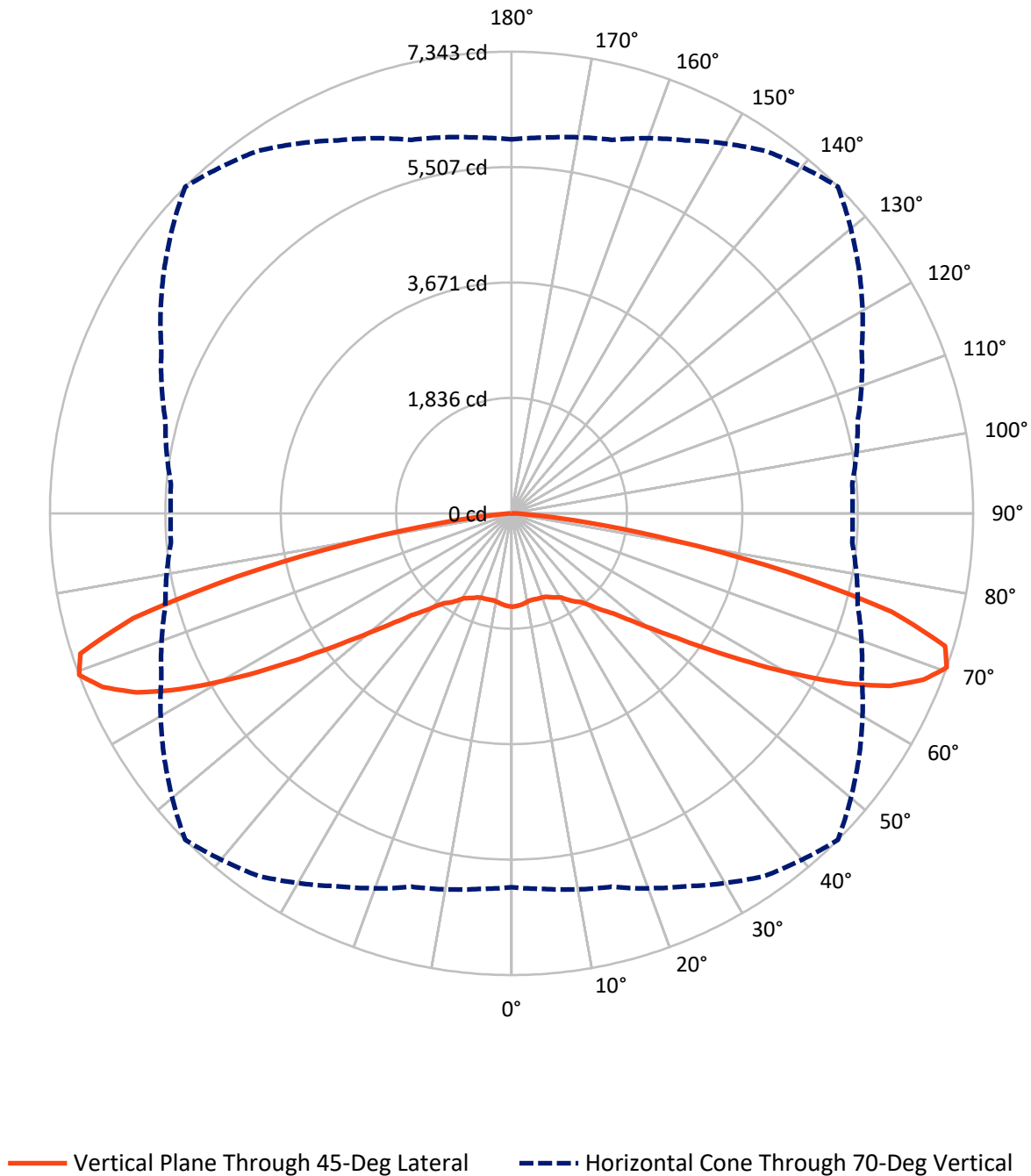
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9017.5	0.0	9017.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9017.5	0.0	9017.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18035.0	0.0	18035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	0.8
10°-20°	404.7	2.2
20°-30°	689.9	3.8
30°-40°	1078.0	6.0
40°-50°	1827.0	10.1
50°-60°	3331.7	18.5
60°-70°	5735.8	31.8
70°-80°	4495.9	24.9
80°-90°	333.4	1.8
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°	18035.0	100.0
0°-180°	18035.0	100.0

Coefficient of Utilization



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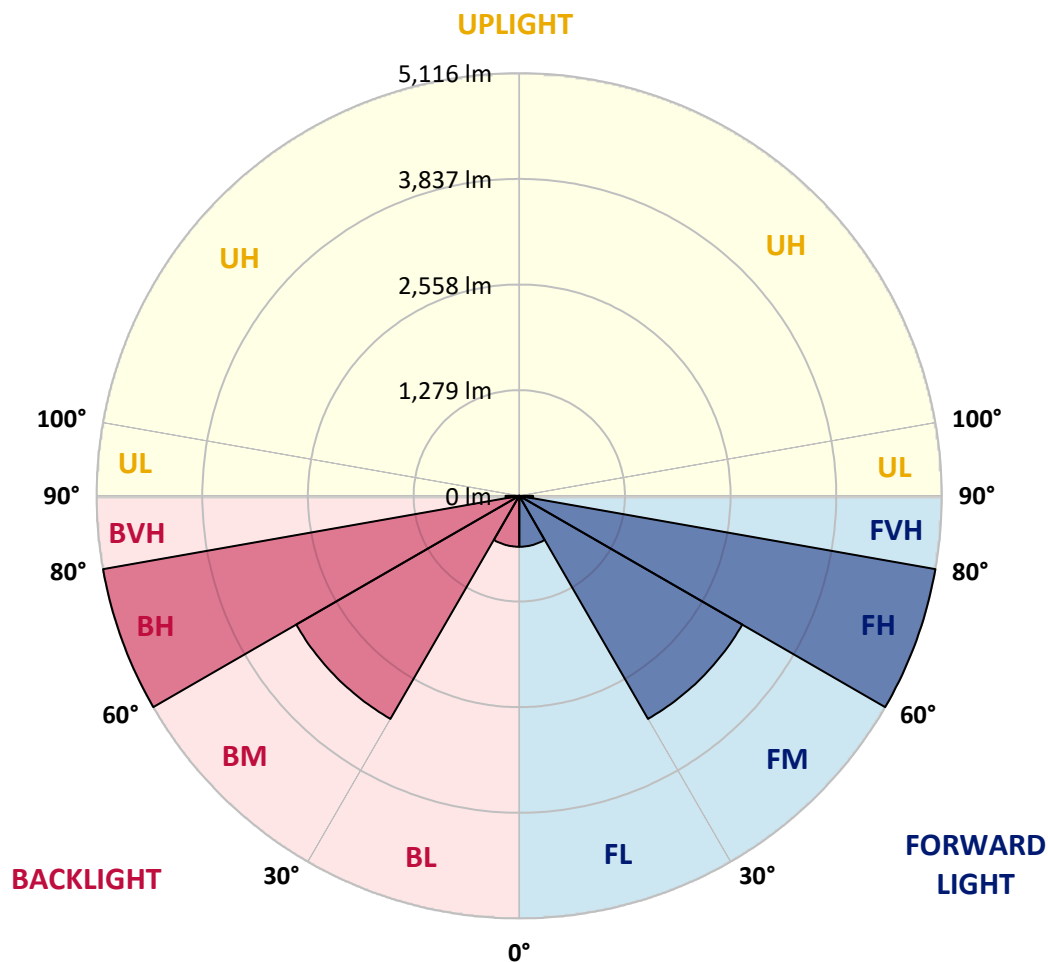
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	616.6	3.4			
FM	(30°-60°)	3118.4	17.3			
FH	(60°-80°)	5115.9	28.4			G3/7500
FVH	(80°-90°)	166.7	0.9			G2/225
BL	(0°-30°)	616.6	3.4	B2/1000		
BM	(30°-60°)	3118.4	17.3	B3/5000		
BH	(60°-80°)	5115.9	28.4	B5		G3/7500
BVH	(80°-90°)	166.7	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3
2.5°	1477.7	1479.5	1477.7	1478.9	1475.9	1477.1	1477.1	1477.1	1476.5	1477.1	1475.9
5°	1464.6	1465.8	1463.4	1464.6	1462.8	1464.6	1465.2	1464.6	1463.4	1464.0	1461.6
7.5°	1444.9	1446.1	1444.3	1446.1	1443.7	1446.7	1446.1	1444.3	1442.5	1442.5	1440.1
10°	1434.2	1434.8	1430.0	1428.2	1422.8	1424.0	1425.8	1427.6	1429.4	1433.0	1432.4
12.5°	1434.8	1434.8	1427.6	1419.9	1412.1	1413.9	1416.9	1423.4	1430.6	1437.2	1437.7
15°	1440.7	1440.1	1429.4	1416.9	1411.5	1416.9	1418.7	1422.8	1434.2	1445.5	1446.1
17.5°	1444.9	1444.9	1428.2	1413.9	1413.3	1421.6	1421.0	1422.8	1435.4	1452.1	1452.7
20°	1452.7	1452.7	1431.2	1415.7	1415.7	1424.6	1425.2	1428.2	1440.7	1459.2	1462.2
22.5°	1470.0	1470.6	1447.9	1435.4	1436.6	1441.9	1443.7	1448.5	1459.8	1480.1	1483.7
25°	1494.4	1495.6	1472.4	1465.2	1469.4	1479.5	1478.3	1481.9	1494.4	1514.1	1517.7
27.5°	1528.4	1525.4	1504.0	1501.0	1505.2	1512.3	1511.7	1512.3	1522.5	1540.4	1544.5
30°	1572.6	1571.4	1555.9	1557.7	1555.9	1553.5	1554.1	1558.9	1564.2	1578.5	1582.7
32.5°	1615.5	1616.7	1607.2	1616.1	1629.3	1638.2	1624.5	1611.4	1605.4	1613.1	1616.7
35°	1693.1	1696.1	1681.2	1675.2	1693.1	1719.3	1680.6	1659.1	1671.0	1681.2	1684.1
37.5°	1824.9	1826.7	1801.7	1777.8	1764.7	1789.7	1751.0	1752.7	1794.5	1813.6	1813.0
40°	1975.3	1975.9	1959.2	1938.3	1915.6	1921.6	1906.1	1910.8	1938.3	1955.6	1960.4
42.5°	2154.2	2152.4	2126.2	2096.4	2089.8	2095.8	2069.5	2065.9	2097.6	2128.6	2129.2
45°	2386.3	2382.1	2348.1	2315.3	2283.7	2270.6	2264.0	2281.3	2324.9	2353.5	2354.1
47.5°	2636.3	2624.9	2607.0	2580.8	2553.3	2540.2	2529.5	2537.8	2569.5	2580.8	2582.0
50°	2893.4	2895.8	2899.4	2889.2	2879.1	2874.9	2846.9	2830.8	2840.3	2819.4	2816.4
52.5°	3198.2	3203.0	3237.6	3266.9	3284.2	3293.1	3240.0	3184.5	3153.5	3112.9	3101.0
55°	3558.0	3565.7	3616.4	3697.6	3781.1	3825.3	3729.2	3625.4	3529.3	3453.6	3429.1
57.5°	3958.9	3972.6	4042.4	4198.1	4369.3	4473.7	4311.5	4122.9	3937.4	3828.2	3809.1
60°	4429.0	4442.1	4538.8	4761.9	5039.3	5196.2	4950.4	4642.0	4411.1	4306.7	4271.5
62.5°	4988.6	4989.8	5108.5	5369.2	5735.5	5953.8	5620.9	5208.7	4970.7	4844.8	4810.8
65°	5590.5	5593.5	5716.4	5998.0	6376.8	6614.2	6238.4	5808.9	5517.7	5332.2	5306.0
67.5°	6015.9	6028.4	6157.9	6496.7	6851.1	7065.3	6676.3	6190.7	5854.2	5632.9	5610.8
70°	5947.9	5996.8	6148.9	6544.4	7037.2	7342.7	6747.3	6145.3	5701.5	5440.2	5421.7
72.5°	5187.2	5280.9	5483.7	6002.8	6790.8	7211.4	6360.1	5504.0	5001.7	4779.2	4745.8
75°	3532.3	3684.5	3990.5	4739.2	5801.7	6243.8	5354.3	4388.4	3915.9	3608.1	3585.4
77.5°	1575.0	1609.6	1997.3	2859.4	4003.6	4483.9	3890.3	2870.7	2154.8	1718.7	1626.9
80°	439.1	444.4	593.0	1064.9	2003.9	2634.5	2151.3	1118.6	628.8	443.3	417.6
82.5°	139.6	151.5	184.9	276.2	673.5	1202.1	691.4	298.3	212.4	169.4	152.7
85°	68.0	67.4	93.7	112.2	171.8	266.1	183.1	138.4	121.1	80.5	72.8
87.5°	28.6	29.2	43.6	39.4	50.1	43.0	59.1	62.0	65.0	35.8	31.0
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)