

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: P479848

Luminaire Tested: **IFLD-S-SA6A-827-U-5WQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479848
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

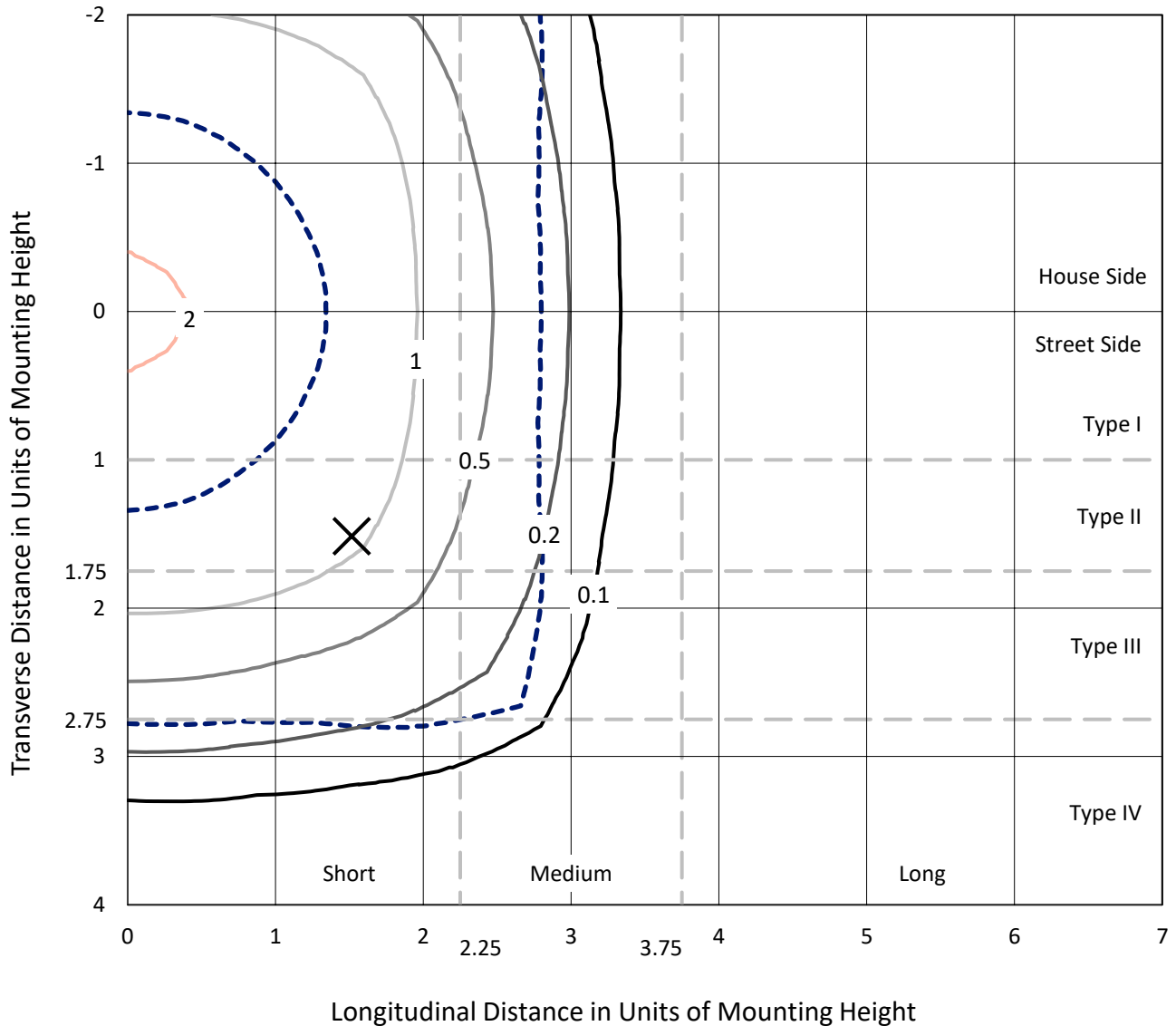
Lumens per Lamp: N/A
Luminaire Lumens: 20359.9 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 189.6
Input Voltage (V): 120
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

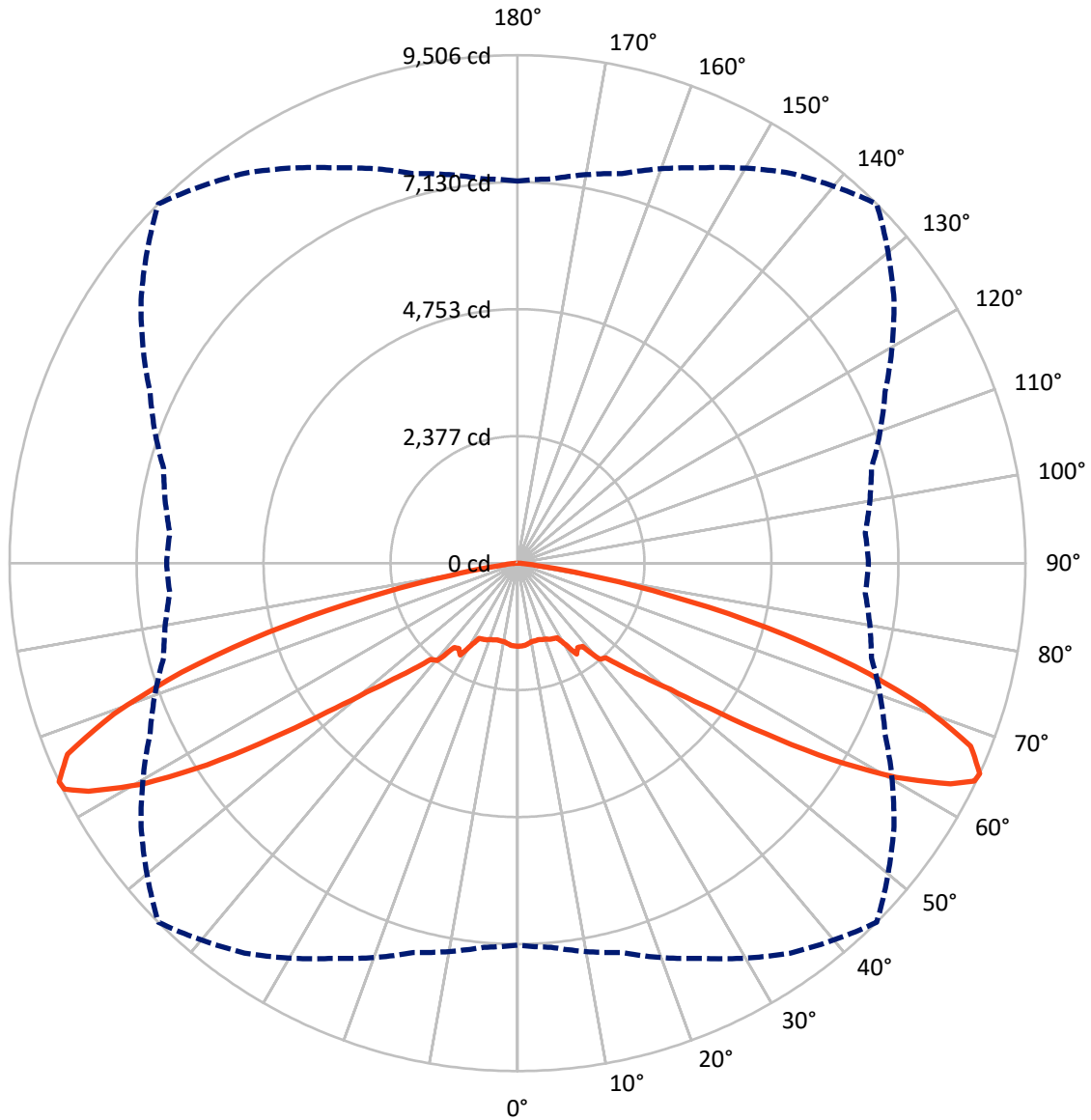
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10180.0	0.0	10180.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10180.0	0.0	10180.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20359.9	0.0	20359.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	0.7
10°-20°	429.1	2.1
20°-30°	742.8	3.6
30°-40°	1235.0	6.1
40°-50°	2228.2	10.9
50°-60°	4963.7	24.4
60°-70°	7397.5	36.3
70°-80°	3065.6	15.1
80°-90°	151.8	0.7
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°	20359.9	100.0
0°-180°	20359.9	100.0

Coefficient of Utilization



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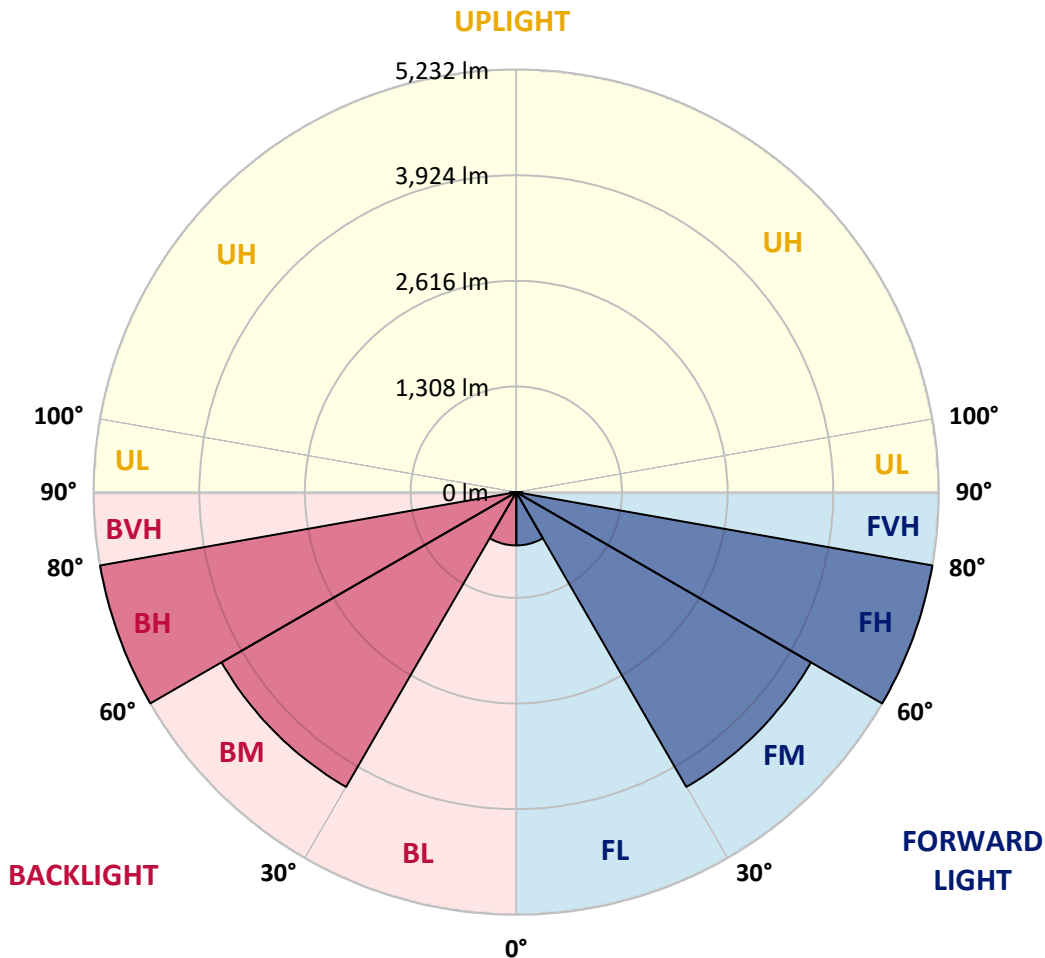
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	659.0	3.2			
FM (30°-60°)	4213.5	20.7			
FH (60°-80°)	5231.6	25.7			G3/7500
FVH (80°-90°)	75.9	0.4			G1/100
BL (0°-30°)	659.0	3.2	B2/1000		
BM (30°-60°)	4213.5	20.7	B3/5000		
BH (60°-80°)	5231.6	25.7	B5		G3/7500
BVH (80°-90°)	75.9	0.4			G1/100
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°	1556.6	1556.6	1556.6	1556.6	1556.6	1556.6	1556.6	1556.6	1556.6	1556.6	1556.6
2.5°	1538.6	1543.1	1540.9	1540.9	1547.6	1552.1	1554.4	1576.9	1567.9	1574.6	1567.9
5°	1543.1	1543.1	1547.6	1543.1	1547.6	1543.1	1547.6	1540.9	1547.6	1552.1	1558.9
7.5°	1534.1	1529.6	1522.9	1522.9	1520.7	1516.2	1509.4	1527.4	1518.4	1525.1	1536.4
10°	1536.4	1529.6	1507.2	1511.7	1491.4	1491.4	1495.9	1495.9	1516.2	1538.6	1545.4
12.5°	1536.4	1522.9	1516.2	1486.9	1486.9	1489.2	1500.4	1504.9	1518.4	1527.4	1549.9
15°	1536.4	1529.6	1518.4	1480.2	1489.2	1484.7	1495.9	1495.9	1525.1	1540.9	1552.1
17.5°	1545.4	1549.9	1529.6	1493.7	1495.9	1504.9	1498.2	1504.9	1540.9	1552.1	1567.9
20°	1547.6	1529.6	1522.9	1500.4	1520.7	1516.2	1513.9	1527.4	1538.6	1558.9	1576.9
22.5°	1543.1	1549.9	1522.9	1520.7	1538.6	1547.6	1552.1	1536.4	1549.9	1563.4	1579.1
25°	1581.4	1556.6	1549.9	1545.4	1554.4	1563.4	1558.9	1572.4	1572.4	1588.1	1608.4
27.5°	1684.9	1687.1	1673.6	1619.6	1601.6	1581.4	1590.4	1626.4	1669.1	1702.9	1709.6
30°	1732.1	1741.1	1777.1	1768.1	1761.3	1768.1	1765.8	1774.8	1779.3	1781.6	1774.8
32.5°	1774.8	1770.3	1754.6	1795.1	1927.8	2029.0	1932.3	1799.6	1770.3	1761.3	1770.3
35°	1930.1	1930.1	1896.3	1844.6	1914.3	1939.1	1894.1	1831.1	1867.1	1941.3	1945.8
37.5°	2130.3	2101.0	2114.5	2107.8	2031.3	1977.3	2056.0	2096.5	2103.3	2101.0	2123.5
40°	2249.5	2229.2	2209.0	2245.0	2314.7	2364.2	2294.5	2197.7	2222.5	2272.0	2251.7
42.5°	2521.7	2469.9	2474.4	2438.4	2436.2	2420.4	2404.7	2411.4	2447.4	2503.7	2512.7
45°	2800.6	2825.4	2809.6	2742.1	2773.6	2773.6	2728.6	2762.4	2780.4	2845.6	2854.6
47.5°	3237.0	3225.8	3232.5	3171.8	3169.5	3185.3	3169.5	3171.8	3228.0	3223.5	3198.8
50°	3747.6	3779.1	3788.1	3758.9	3722.9	3716.1	3691.4	3722.9	3756.6	3758.9	3738.6
52.5°	4454.0	4487.7	4487.7	4496.7	4541.7	4519.2	4514.7	4517.0	4451.7	4406.7	4429.2
55°	5344.8	5356.0	5394.3	5473.0	5610.2	5628.2	5542.7	5504.5	5385.3	5313.3	5369.5
57.5°	6224.3	6269.3	6375.0	6579.7	6748.4	6932.9	6685.5	6433.5	6199.6	6084.9	6105.1
60°	6955.4	7020.6	7223.1	7508.8	7976.7	8145.4	7727.0	7295.1	6820.4	6469.5	6611.2
62.5°	7299.6	7400.8	7571.8	8149.9	8851.7	9094.7	8480.5	7695.5	6975.6	6638.2	6631.5
64°	7301.8	7317.6	7659.5	8282.6	9004.7	9474.8	8662.8	7695.5	7013.9	6597.7	6674.2
65°	7151.1	7216.3	7547.0	8161.1	8908.0	9506.3	8599.8	7589.8	6856.4	6532.5	6568.5
67.5°	6467.3	6465.0	6770.9	7380.6	8417.6	9148.6	8064.4	6998.1	6467.3	6116.3	6159.1
70°	4906.1	4984.9	5277.3	6026.4	7283.8	8066.6	7052.1	5947.6	5286.3	5005.1	4989.4
72.5°	2935.6	3039.1	3412.5	4325.8	5657.4	6609.0	5596.7	4400.0	3603.7	3158.3	3169.5
75°	1338.4	1414.9	1671.4	2415.9	3770.1	4831.9	3792.6	2544.2	1824.3	1540.9	1500.4
77.5°	375.7	422.9	564.6	1109.0	2069.5	2897.3	2128.0	1226.0	796.3	661.3	647.9
80°	168.7	177.7	200.2	269.9	656.8	1277.7	879.5	449.9	299.2	247.4	236.2
82.5°	92.2	99.0	130.5	139.5	186.7	339.7	290.2	211.5	180.0	144.0	139.5
85°	51.7	54.0	74.2	74.2	90.0	99.0	105.7	112.5	110.2	81.0	78.7
87.5°	15.7	18.0	22.5	22.5	22.5	22.5	36.0	49.5	54.0	38.2	38.2
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)