

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: P240913

Luminaire Tested: **UTLD-AF24-50-D-U-5WQ-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-43)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-5WQ-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

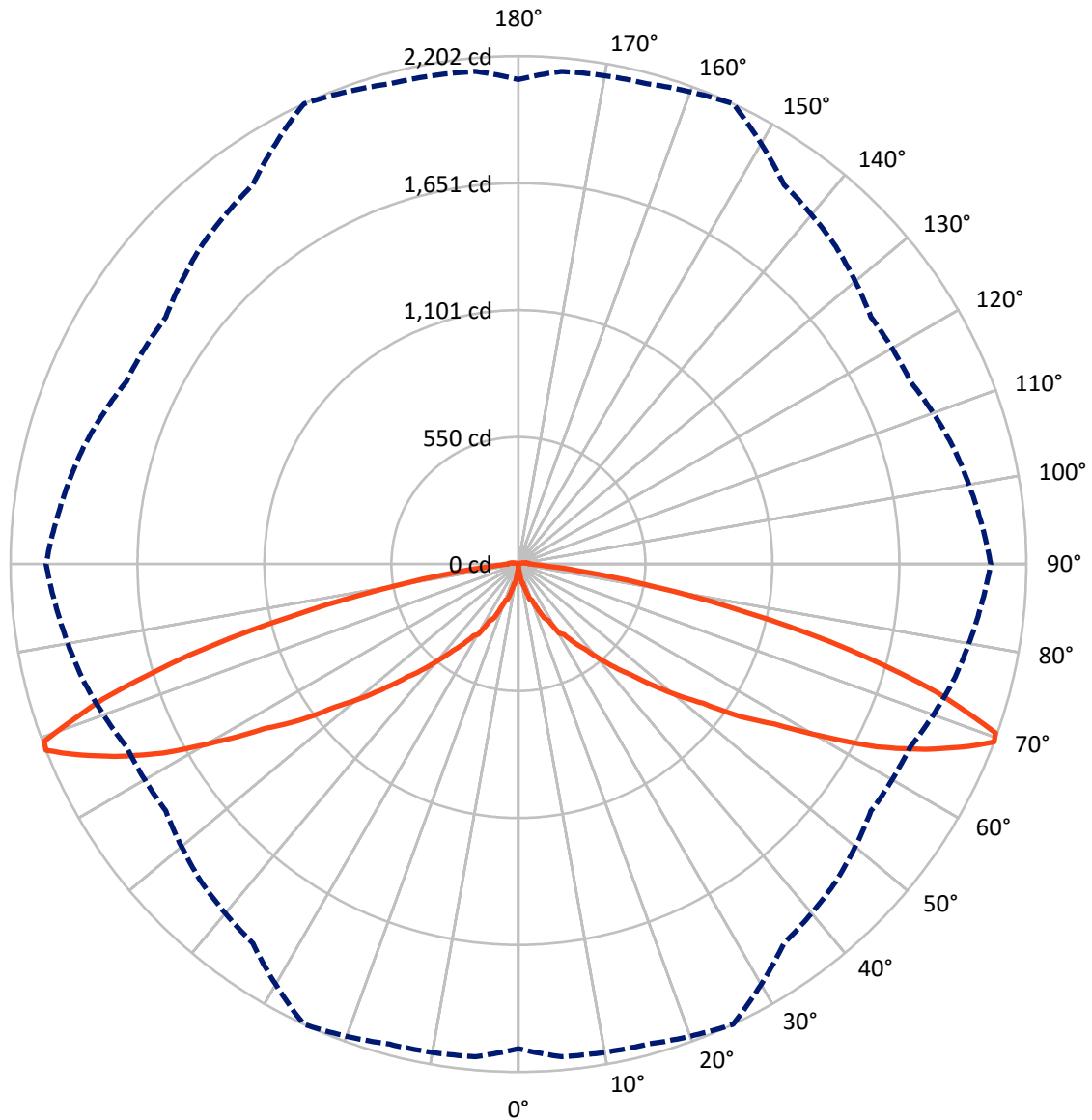
Lumens per Lamp: N/A
Luminaire Lumens: 5731.5 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U2 - G2

Input Watts (W): 54
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: 28.75 FT



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Luminous Intensity Polar Plot



— Vertical Plane Through 25-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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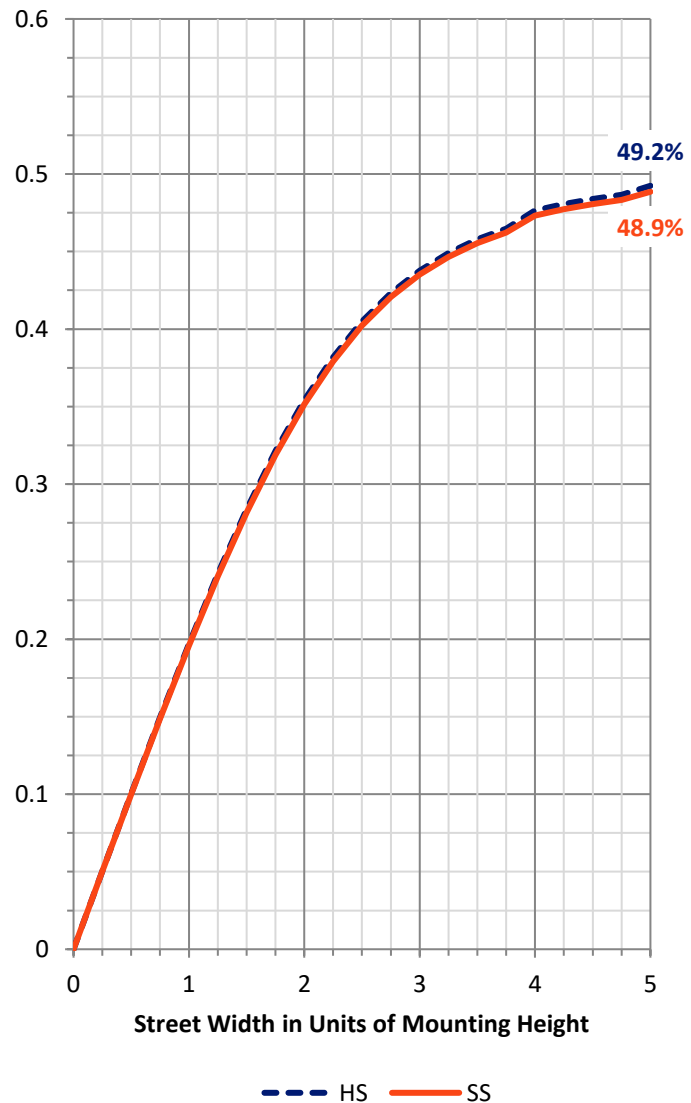
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2830.1	35.6	2865.8
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	2830.1	35.6	2865.8
	% Fixture	49.4	0.6	50.0
Total	Lumens	5660.2	71.3	5731.5
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.1
10°-20°	33.8	0.6
20°-30°	126.0	2.2
30°-40°	286.0	5.0
40°-50°	548.3	9.6
50°-60°	1057.5	18.5
60°-70°	1819.3	31.7
70°-80°	1553.0	27.1
80°-90°	233.2	4.1
90°-100°	38.1	0.7
100°-110°	17.3	0.3
110°-120°	6.9	0.1
120°-130°	4.5	0.1
130°-140°	2.8	0.0
140°-150°	1.4	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5660.2	98.8
0°-180°	5731.5	100.0

Coefficient of Utilization



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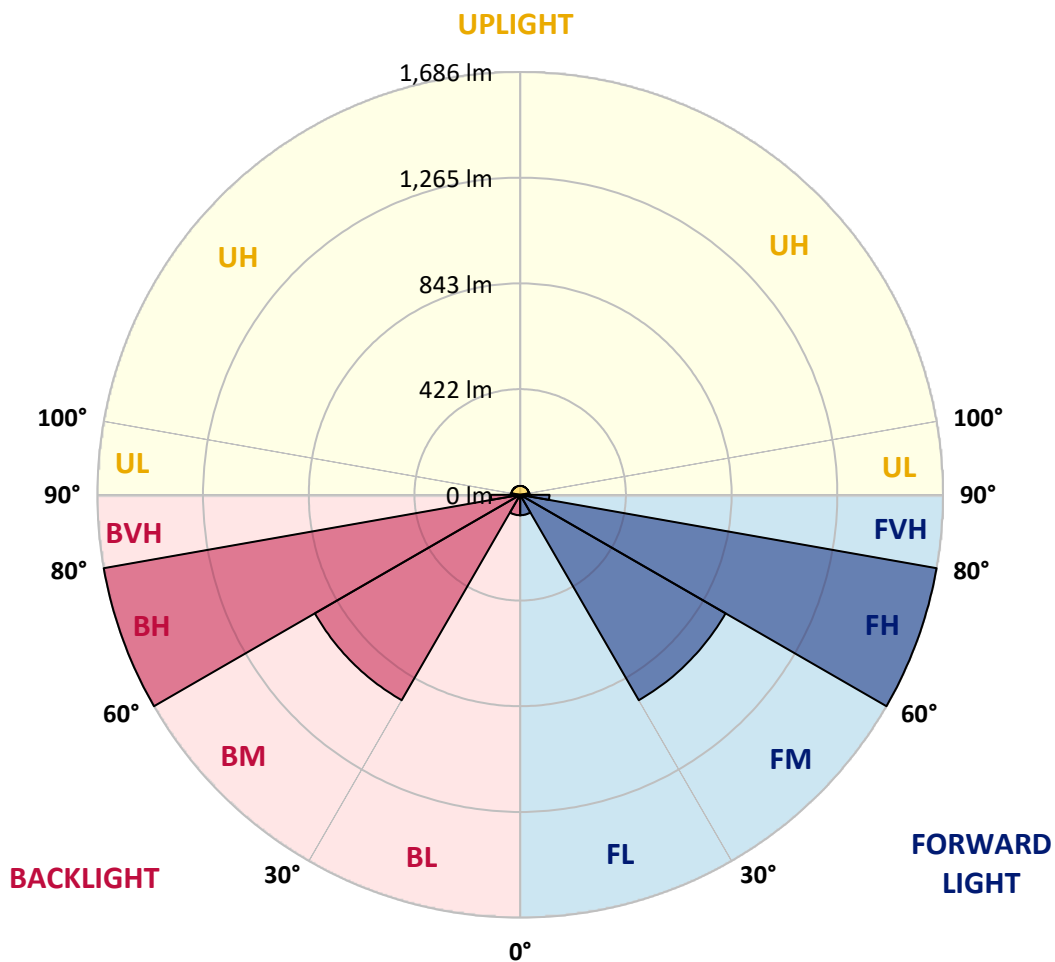
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	81.5	1.4			
FM (30°-60°)	945.9	16.5			
FH (60°-80°)	1686.1	29.4			G1/1800
FVH (80°-90°)	116.6	2.0			G2/225
BL (0°-30°)	81.5	1.4	B0/110		
BM (30°-60°)	945.9	16.5	B1/1000		
BH (60°-80°)	1686.1	29.4	B3/2500		G1/1800
BVH (80°-90°)	116.6	2.0			G2/225
UL (90°-100°)	38.1	0.7		U2/50	
UH (100°-180°)	35.6	0.6		U2/50	

BUG Rating: B3-U2-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	25.9	25.9	25.9	24.6	24.6	27.2	18.6	14.6	13.9	12.0	12.0
5°	29.2	29.9	27.8	26.5	25.9	27.2	27.8	25.9	16.0	12.6	11.3
7.5°	49.1	53.1	48.4	43.1	41.1	28.5	25.2	27.8	21.2	13.3	12.6
10°	86.2	85.5	87.6	81.5	59.0	45.7	37.8	25.9	31.2	23.8	22.5
12.5°	87.6	86.2	86.8	86.8	84.2	75.6	55.0	60.4	65.0	69.7	67.0
15°	152.5	149.9	136.7	118.0	84.2	102.8	104.1	107.4	96.9	92.9	90.8
17.5°	172.5	170.4	167.8	161.1	146.6	128.7	126.6	126.6	142.6	161.1	150.6
20°	191.0	187.0	169.1	166.4	179.7	161.8	155.9	189.0	204.3	220.1	214.2
22.5°	267.9	275.9	270.0	208.3	194.4	194.4	216.9	225.5	226.8	234.2	228.8
25°	274.6	278.5	271.9	258.6	245.4	226.8	242.0	252.1	292.5	307.1	303.7
27.5°	349.5	352.2	317.0	277.8	280.5	271.3	272.6	310.4	347.5	350.2	364.8
30°	376.7	380.0	362.7	348.2	309.0	308.4	323.7	349.5	393.3	425.1	451.0
32.5°	461.6	447.0	399.9	366.1	348.8	343.5	355.5	404.6	452.3	478.8	510.7
35°	509.3	516.0	506.1	419.8	380.6	400.6	403.2	423.1	466.9	513.3	531.8
37.5°	585.6	587.6	521.9	469.5	418.5	452.3	466.9	467.6	524.0	579.0	594.2
40°	634.6	653.3	610.8	536.5	466.3	487.4	490.1	546.5	598.8	634.6	658.6
42.5°	707.7	707.0	661.8	612.1	521.3	541.1	553.1	574.3	659.9	703.0	726.9
45°	787.9	786.5	746.1	685.8	606.2	587.6	605.5	665.8	757.4	793.2	781.2
47.5°	888.6	894.7	854.2	785.9	681.1	714.2	691.0	772.6	805.8	851.5	881.4
50°	992.8	998.8	949.0	894.0	781.9	784.6	795.9	859.5	911.9	984.2	1016.0
52.5°	1131.4	1136.7	1087.6	1004.0	915.8	924.5	919.8	953.0	1049.9	1124.7	1113.5
55°	1283.3	1281.2	1221.6	1167.2	1090.3	1061.1	1043.2	1130.1	1187.7	1245.4	1257.4
57.5°	1507.4	1484.2	1412.6	1308.5	1223.6	1240.8	1226.2	1251.5	1344.3	1429.2	1451.8
60°	1671.9	1686.5	1634.8	1517.3	1389.4	1383.4	1395.4	1443.1	1509.5	1562.5	1593.7
62.5°	1923.2	1909.3	1846.3	1744.8	1629.5	1636.1	1585.1	1622.2	1661.3	1736.3	1733.6
65°	2036.0	2032.7	1991.6	1937.9	1834.4	1795.3	1745.6	1764.1	1802.5	1843.1	1903.4
67.5°	2107.6	2148.7	2124.9	2108.9	1961.7	1931.2	1823.1	1852.3	1900.7	1953.1	1995.6
69°	2101.0	2144.1	2155.4	2201.8	2007.4	1946.5	1866.3	1874.9	1952.4	2014.8	2047.9
70°	2062.6	2117.6	2118.2	2194.5	2005.5	1996.2	1884.8	1871.5	1965.7	2025.4	2065.8
72.5°	1821.8	1857.6	1883.5	1893.4	1894.1	1997.5	1870.2	1766.1	1848.4	1968.4	1967.0
75°	1408.6	1448.4	1501.5	1483.6	1630.8	1813.2	1691.1	1511.4	1521.3	1587.7	1603.6
77.5°	886.7	890.7	959.6	1014.7	1256.8	1445.1	1321.8	1076.3	963.6	965.6	1003.4
80°	506.7	508.0	546.5	603.5	773.2	991.4	814.4	606.2	474.1	467.6	463.6
82.5°	242.0	236.7	251.3	297.8	401.2	500.7	407.2	231.5	185.1	203.6	206.2
85°	86.8	102.8	116.7	133.3	184.3	193.0	143.2	118.7	122.0	114.8	118.0
87.5°	54.4	55.8	66.3	71.6	76.9	80.2	89.5	80.2	81.5	67.6	63.6
90°	38.5	39.2	47.8	49.1	53.1	53.7	51.8	51.8	49.7	39.2	40.4
92.5°	29.9	29.2	37.1	41.7	45.7	43.1	45.1	39.2	37.8	28.5	27.8
95°	37.1	37.1	40.4	42.5	37.8	31.8	36.5	35.2	33.9	25.2	24.6
97.5°	21.2	22.5	30.5	32.5	31.8	25.9	31.2	31.8	30.5	21.9	18.6
100°	18.6	20.6	27.2	29.2	27.8	21.9	27.8	29.2	27.2	19.2	17.3
102.5°	16.6	17.9	22.5	25.2	22.5	16.6	22.5	24.6	22.5	16.0	14.6
105°	13.9	14.6	16.0	18.6	16.0	12.6	16.6	17.9	14.6	12.6	12.0
107.5°	12.0	12.0	11.3	12.6	11.3	9.9	12.0	12.6	10.6	10.6	10.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	11.3	10.6	8.6	8.6	8.6	8.0	8.6	9.3	8.6	9.9	9.9
112.5°	9.9	9.3	7.3	6.6	6.6	6.6	7.3	7.3	7.3	9.3	9.3
115°	9.3	8.6	6.6	5.3	5.9	5.9	5.9	5.9	6.6	8.6	9.3
117.5°	9.3	8.6	5.9	5.3	4.6	4.6	5.3	5.3	6.6	8.6	8.6
120°	8.6	8.0	5.9	4.6	4.0	4.0	4.6	5.3	6.6	8.6	8.6
122.5°	8.0	8.0	5.3	4.0	4.0	4.0	4.0	4.6	5.9	8.0	8.0
125°	7.3	7.3	5.3	4.0	3.3	3.3	4.0	4.6	5.9	8.0	8.0
127.5°	7.3	6.6	5.3	3.3	3.3	3.3	3.3	4.0	5.3	7.3	8.0
130°	6.6	6.6	4.6	3.3	2.7	2.7	3.3	4.0	5.3	6.6	7.3
132.5°	6.6	5.9	4.6	2.7	2.7	2.7	2.7	3.3	4.6	5.9	6.6
135°	5.3	5.3	4.0	2.7	1.9	1.9	2.7	3.3	4.0	5.3	5.9
137.5°	5.3	4.6	4.0	2.7	1.9	1.9	1.9	2.7	4.0	4.6	5.3
140°	4.6	4.6	3.3	2.7	1.9	1.9	1.9	2.7	3.3	4.0	4.6
142.5°	4.0	4.0	3.3	2.7	1.9	1.3	1.9	1.9	2.7	3.3	3.3
145°	4.0	4.0	3.3	1.9	1.3	1.3	1.3	1.9	2.7	2.7	3.3
147.5°	3.3	3.3	2.7	1.9	1.3	0.6	1.3	1.9	1.9	2.7	2.7
150°	2.7	2.7	1.9	1.3	0.6	0.0	0.6	1.3	1.9	1.9	1.9
152.5°	1.9	1.9	1.3	0.6	0.0	0.0	0.0	0.6	1.3	1.3	1.9
155°	1.3	1.3	0.6	0.6	0.0	0.0	0.0	0.0	0.6	0.6	0.6
157.5°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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)