

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: P266327

Luminaire Tested: **UTLD-AF24-40-D-U-5WQ-FP-7027**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-24)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-40-D-U-5WQ-FP-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3386.1 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B2 - U3 - G2

Input Watts (W): 40  
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

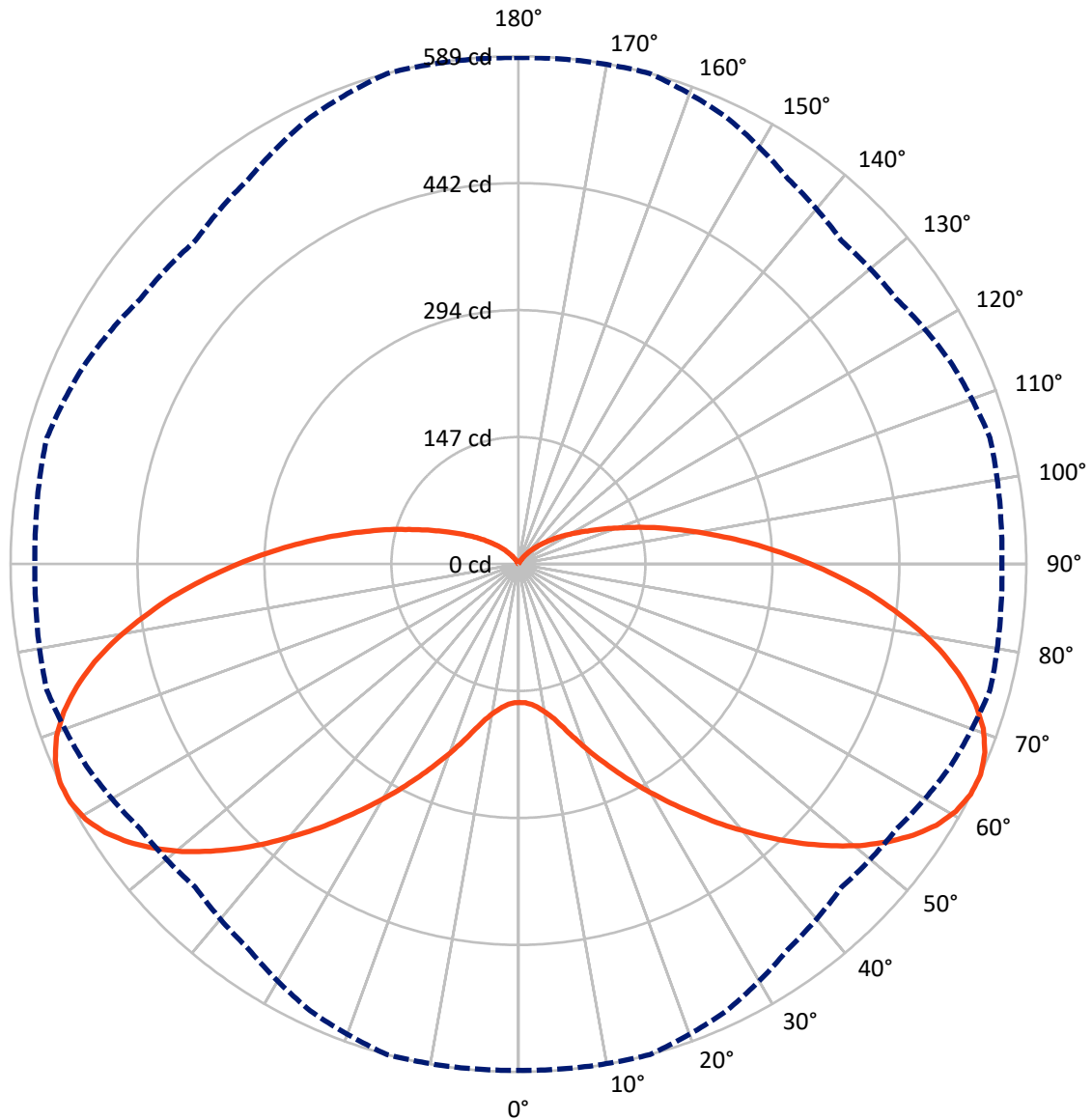




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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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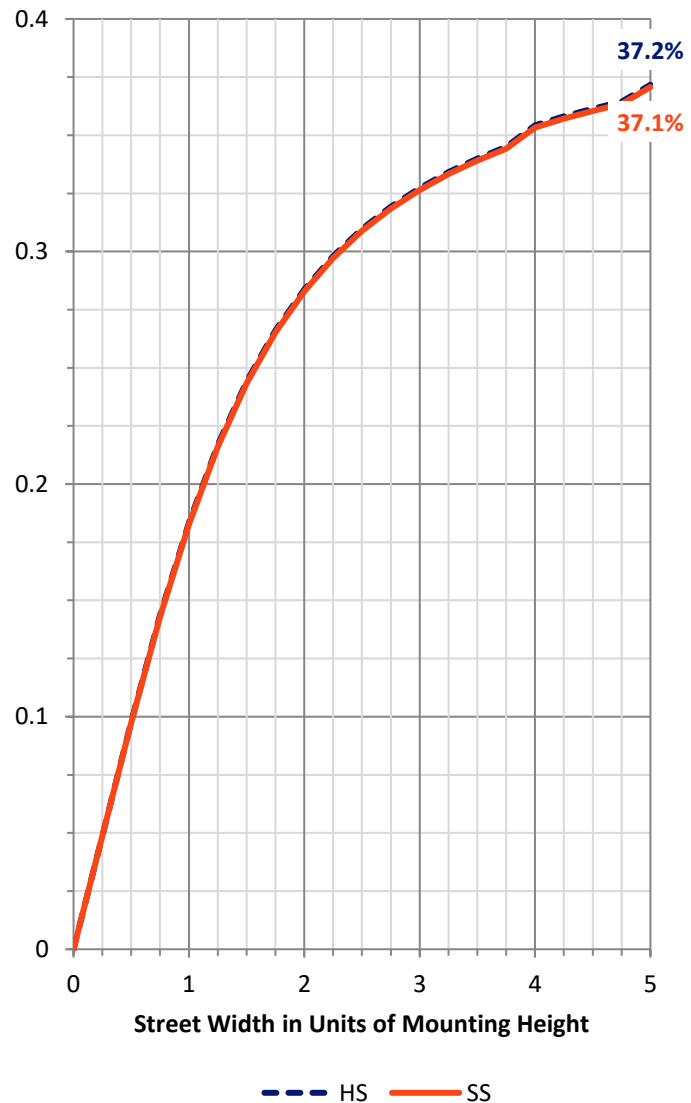
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1377.7	315.3	1693.1
	% Fixture	40.7	9.3	50.0
<b>Street Side</b>	Lumens	1377.7	315.3	1693.1
	% Fixture	40.7	9.3	50.0
<b>Total</b>	Lumens	2755.5	630.7	3386.1
	% Fixture	81.4	18.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.0	0.5
10°-20°	56.6	1.7
20°-30°	123.9	3.7
30°-40°	223.1	6.6
40°-50°	349.0	10.3
50°-60°	475.4	14.0
60°-70°	551.7	16.3
70°-80°	533.0	15.7
80°-90°	426.6	12.6
90°-100°	290.6	8.6
100°-110°	175.3	5.2
110°-120°	95.7	2.8
120°-130°	46.4	1.4
130°-140°	18.0	0.5
140°-150°	4.3	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2755.5	81.4
0°-180°	3386.1	100.0



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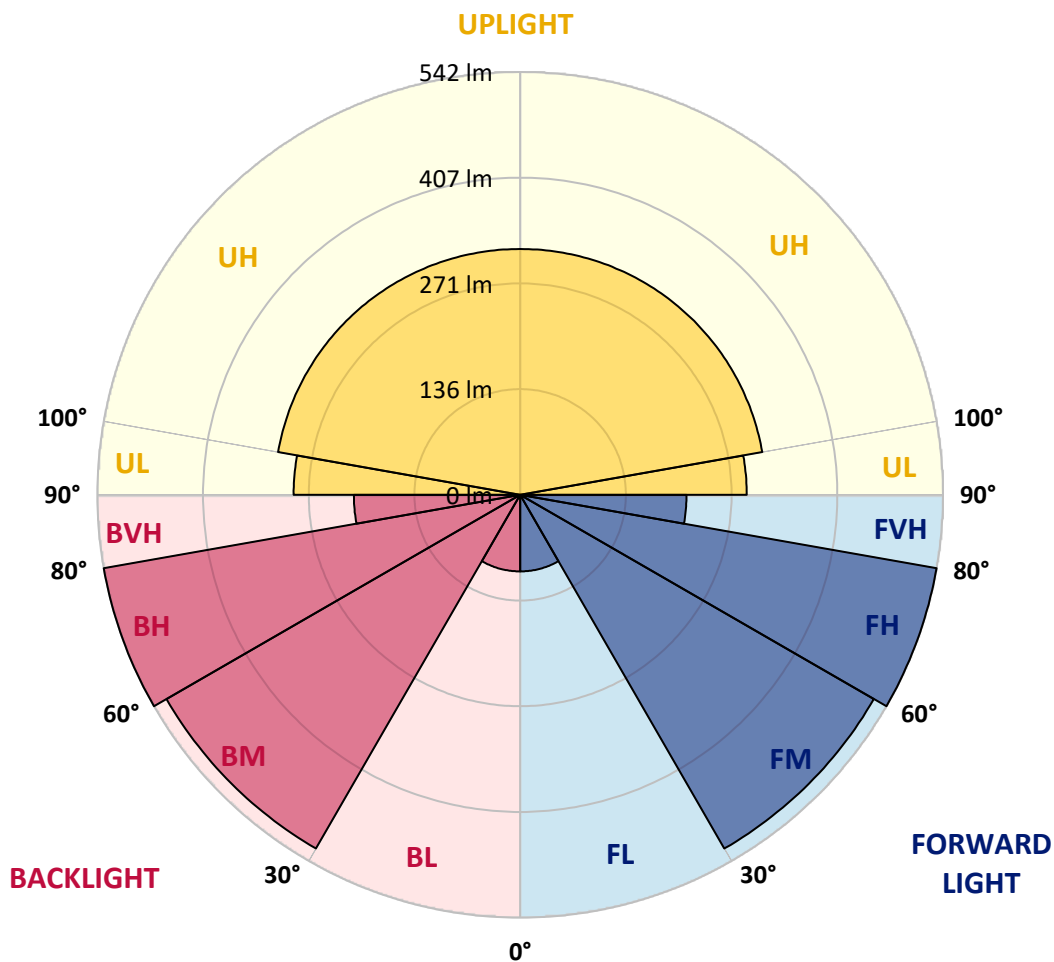
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	98.2	2.9			
FM (30°-60°)	523.8	15.5			
FH (60°-80°)	542.4	16.0			G0/660
FVH (80°-90°)	213.3	6.3			G2/225
BL (0°-30°)	98.2	2.9	B0/110		
BM (30°-60°)	523.8	15.5	B1/1000		
BH (60°-80°)	542.4	16.0	B2/1000		G0/660
BVH (80°-90°)	213.3	6.3			G2/225
UL (90°-100°)	290.6	8.6		U3/500	
UH (100°-180°)	315.3	9.3		U3/500	

**BUG Rating: B2-U3-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	160.5	160.5	160.5	160.5	160.5	160.5	160.5	160.5	160.5	160.5	160.5
2.5°	161.4	161.4	161.1	161.1	161.1	161.1	161.1	161.4	161.1	161.4	161.4
5°	163.6	164.0	163.6	163.6	164.0	163.6	163.6	164.0	163.6	163.6	163.6
7.5°	168.6	168.6	168.3	168.3	168.3	167.9	167.9	168.3	167.9	167.9	167.9
10°	175.4	175.4	175.0	175.0	174.6	174.2	174.2	174.2	174.6	174.6	174.6
12.5°	184.4	184.8	183.6	183.2	182.6	182.6	182.6	182.6	182.6	183.2	182.6
15°	197.9	197.9	195.4	194.2	193.8	192.9	193.8	194.7	195.0	195.0	195.9
17.5°	214.5	213.6	211.1	208.5	206.0	207.2	208.5	209.8	210.4	210.4	210.4
20°	231.6	231.6	227.7	225.7	223.5	223.9	224.8	225.7	226.5	226.1	226.1
22.5°	249.0	249.8	246.4	244.7	244.2	242.2	242.2	242.6	243.4	243.4	243.4
25°	269.9	269.0	266.0	265.4	265.4	262.6	260.9	261.2	261.6	261.6	261.6
27.5°	291.1	290.2	286.7	287.2	286.4	284.3	281.3	280.0	281.3	280.5	280.5
30°	312.3	311.8	308.8	309.7	308.8	306.3	301.7	300.8	301.2	301.7	301.7
32.5°	334.8	335.2	332.6	333.1	330.9	328.8	325.5	322.4	323.7	323.7	323.7
35°	359.9	359.9	357.3	356.0	353.9	351.3	348.8	345.8	347.1	346.2	346.2
37.5°	385.4	385.0	382.4	379.9	375.6	374.4	373.1	369.7	370.6	370.9	370.9
40°	412.5	411.2	407.9	402.8	398.0	397.2	392.2	393.4	395.6	396.0	396.0
42.5°	438.9	438.1	433.3	425.6	420.1	418.9	421.8	419.2	420.5	420.5	420.5
45°	465.2	463.0	458.5	448.3	441.0	441.3	445.2	445.6	445.6	444.8	444.8
47.5°	490.3	489.8	481.0	469.5	461.4	462.3	468.1	470.4	469.9	470.4	470.4
50°	514.9	513.7	503.9	488.6	479.2	481.3	488.9	493.7	492.5	492.8	492.8
52.5°	538.3	536.2	524.3	506.5	495.9	497.9	509.0	514.5	514.1	514.1	514.1
55°	556.6	555.7	541.7	521.2	509.8	512.8	525.1	533.7	531.8	531.4	531.4
57.5°	571.9	571.1	555.7	533.1	519.9	523.8	539.2	549.0	546.3	546.3	546.3
60°	582.9	582.0	565.9	541.7	527.2	531.8	548.1	559.6	556.6	556.1	556.1
62.5°	588.0	587.6	571.1	545.5	530.5	535.7	553.1	565.5	561.6	560.8	560.8
65°	587.1	587.6	571.4	545.1	529.8	535.3	553.1	565.9	561.6	560.5	560.5
67.5°	580.3	581.7	566.3	540.1	525.1	530.2	548.1	560.8	556.1	554.1	554.1
70°	567.5	568.8	555.7	530.5	515.7	520.5	537.8	549.4	543.8	541.3	541.3
72.5°	547.6	550.7	540.1	516.2	502.2	506.9	523.1	533.7	526.3	523.4	523.4
75°	522.5	526.9	519.6	497.5	484.7	489.4	503.9	511.0	504.3	498.7	498.7
77.5°	494.5	498.7	494.5	474.9	464.0	466.8	478.7	485.2	476.7	472.4	472.4
80°	460.6	465.2	466.5	450.8	439.7	443.1	451.6	454.6	445.6	440.1	440.1
82.5°	427.0	431.2	435.9	422.7	413.8	415.5	421.8	423.1	412.5	407.9	407.9
85°	390.9	394.6	403.6	393.8	386.6	387.9	391.8	388.7	377.3	372.2	372.2
87.5°	354.7	356.8	369.3	364.2	359.1	358.6	358.6	354.3	342.9	339.0	339.0
90°	319.4	321.7	337.4	334.3	330.0	329.3	327.5	319.1	308.5	306.0	306.0
92.5°	285.5	286.4	305.5	304.6	301.7	300.4	297.0	287.2	274.9	273.2	273.2
95°	253.6	254.5	274.1	276.1	275.3	272.7	268.1	255.4	243.0	242.6	242.6
97.5°	224.3	223.9	245.1	249.4	249.4	245.5	239.2	226.9	214.5	214.2	214.2
100°	197.5	196.6	219.2	223.9	224.8	221.3	212.9	198.9	189.1	189.5	189.5
102.5°	173.4	172.5	193.3	200.1	201.8	197.9	187.7	174.6	165.6	166.1	166.1
105°	152.2	151.3	170.4	178.0	179.8	175.4	165.6	151.3	144.8	145.7	145.7
107.5°	132.1	131.7	148.7	157.3	159.8	155.4	144.8	131.3	126.7	127.0	127.0
110°	116.4	116.1	129.5	138.9	141.5	136.4	125.4	113.8	110.9	111.3	111.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	102.3	101.1	102.9	112.6	121.1	124.1	118.9	107.4	98.5	97.2	97.7
115°	89.2	89.2	88.8	96.5	105.5	107.8	102.9	92.6	85.3	85.0	85.0
117.5°	78.6	77.8	77.3	81.9	90.1	93.1	88.4	79.1	74.4	74.7	75.2
120°	68.5	68.5	67.2	69.3	76.4	78.6	74.7	67.6	64.6	65.4	65.8
122.5°	59.8	59.5	58.2	58.6	63.7	66.3	62.4	57.0	56.1	57.9	57.9
125°	51.8	51.5	50.1	49.2	51.8	54.0	51.5	48.0	48.4	50.1	50.6
127.5°	44.6	44.1	42.5	40.9	42.1	43.4	41.6	40.0	42.1	43.4	43.7
130°	38.3	37.8	36.1	33.5	33.1	34.0	32.7	33.1	35.8	37.8	37.8
132.5°	32.2	32.2	30.2	27.2	25.5	25.5	25.5	27.2	30.2	31.9	32.2
135°	26.8	26.8	25.1	21.6	18.7	18.2	18.7	21.6	25.1	26.3	26.8
137.5°	22.1	21.6	19.9	17.0	13.1	12.3	13.1	16.6	19.9	21.6	21.6
140°	17.3	17.0	15.4	12.8	9.3	7.6	9.3	12.3	15.4	17.0	17.0
142.5°	12.8	12.8	11.0	9.0	6.0	4.8	6.0	9.0	11.5	12.3	12.8
145°	9.0	9.0	7.6	5.5	3.5	2.5	3.5	6.0	7.6	9.0	9.0
147.5°	6.0	6.0	5.1	3.5	2.2	1.3	2.2	3.9	5.1	6.0	6.0
150°	3.5	3.5	3.0	2.2	0.9	0.4	0.9	2.2	3.0	3.5	3.5
152.5°	1.6	1.6	1.3	0.9	0.4	0.4	0.4	0.9	1.6	1.6	2.2
155°	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.4	0.9	0.9	0.9
157.5°	0.4	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)