

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: P479661

Luminaire Tested: **IFLD-M-SA4D-730-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479661
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

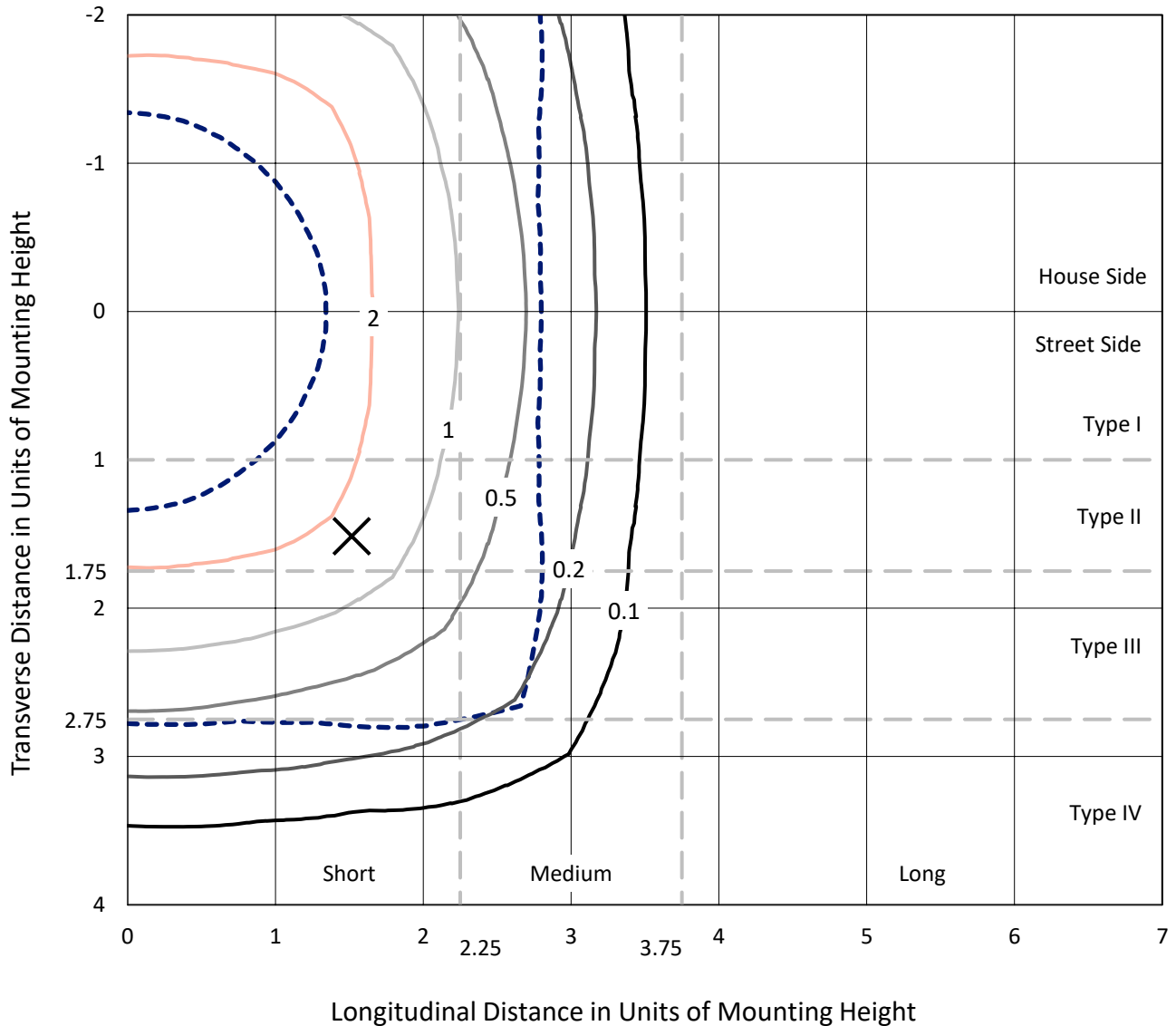
Lumens per Lamp: N/A
Luminaire Lumens: 29233.3 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 249.7
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

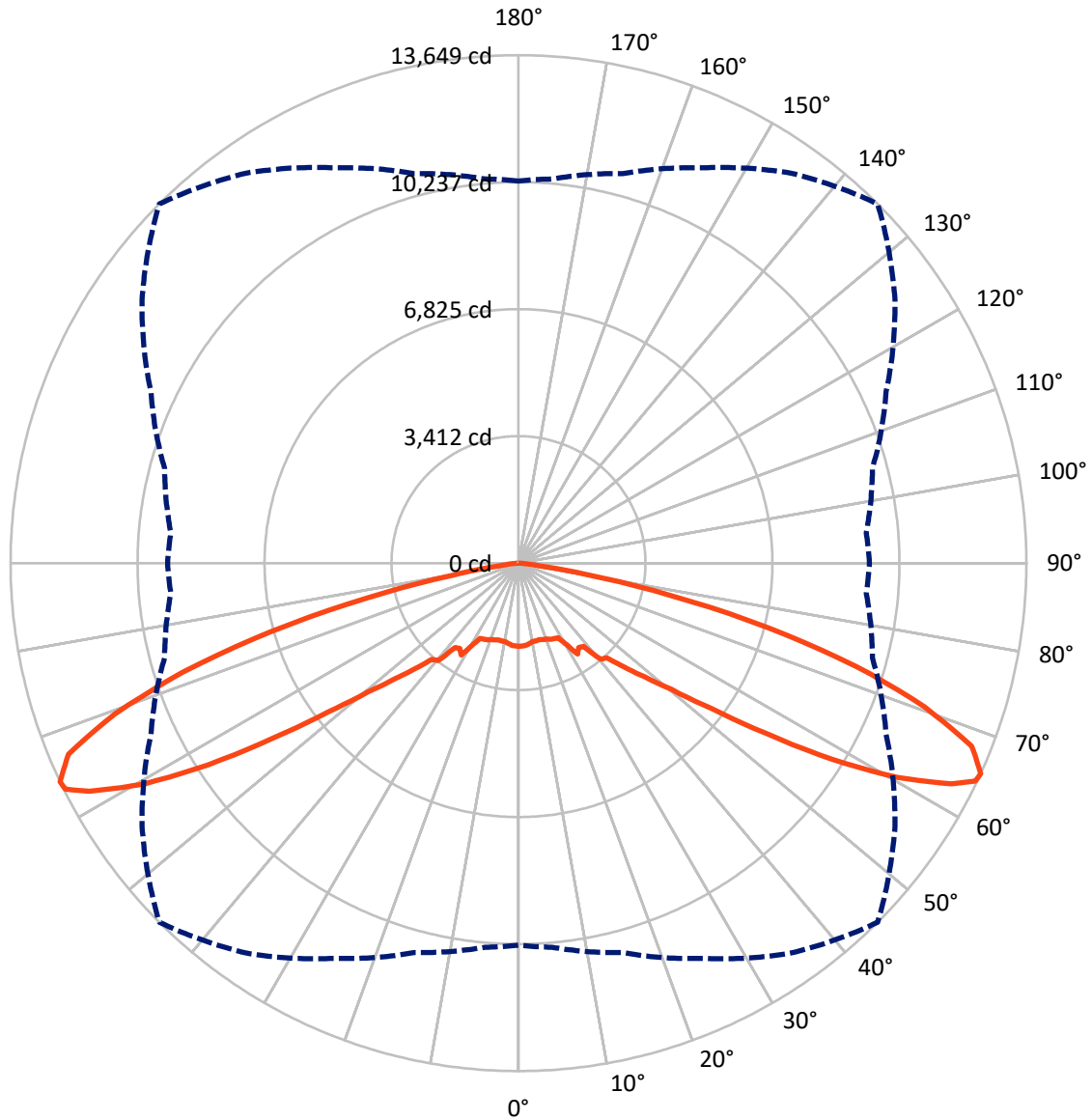
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	14616.6	0.0	14616.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14616.6	0.0	14616.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	29233.3	0.0	29233.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	0.7
10°-20°	616.1	2.1
20°-30°	1066.5	3.6
30°-40°	1773.3	6.1
40°-50°	3199.3	10.9
50°-60°	7127.0	24.4
60°-70°	10621.6	36.3
70°-80°	4401.7	15.1
80°-90°	218.0	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°	29233.3	100.0
0°-180°	29233.3	100.0

Coefficient of Utilization



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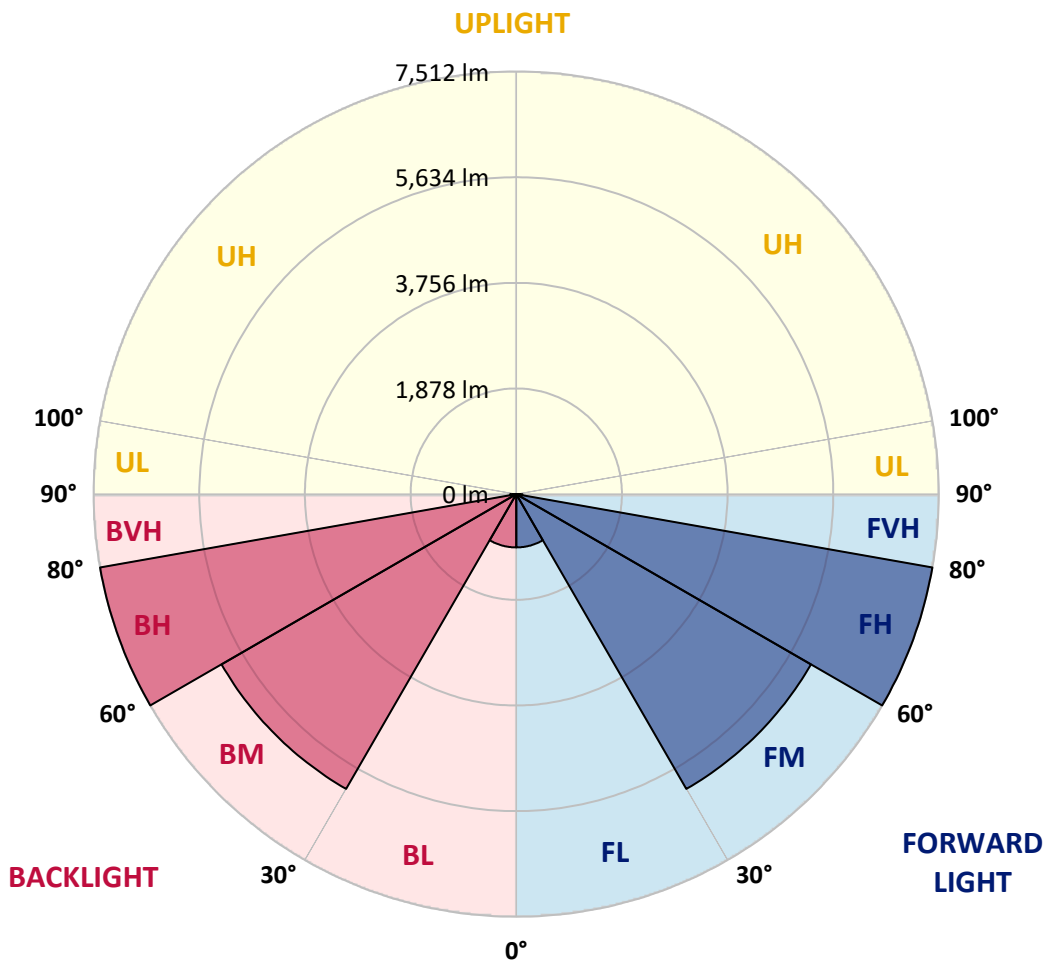
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.2	3.2			
FM (30°-60°)	6049.8	20.7			
FH (60°-80°)	7511.6	25.7			G4/12000
FVH (80°-90°)	109.0	0.4			G2/225
BL (0°-30°)	946.2	3.2	B2/1000		
BM (30°-60°)	6049.8	20.7	B4/8500		
BH (60°-80°)	7511.6	25.7	B5		G4/12000
BVH (80°-90°)	109.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2235.1	2235.1	2235.1	2235.1	2235.1	2235.1	2235.1	2235.1	2235.1	2235.1	2235.1
2.5°	2209.2	2215.7	2212.5	2212.5	2222.1	2228.6	2231.8	2264.1	2251.2	2260.9	2251.2
5°	2215.7	2215.7	2222.1	2215.7	2222.1	2215.7	2222.1	2212.5	2222.1	2228.6	2238.3
7.5°	2202.8	2196.3	2186.6	2186.6	2183.4	2176.9	2167.2	2193.1	2180.2	2189.8	2206.0
10°	2206.0	2196.3	2164.0	2170.5	2141.4	2141.4	2147.9	2147.9	2176.9	2209.2	2218.9
12.5°	2206.0	2186.6	2176.9	2134.9	2134.9	2138.2	2154.3	2160.8	2180.2	2193.1	2225.4
15°	2206.0	2196.3	2180.2	2125.2	2138.2	2131.7	2147.9	2147.9	2189.8	2212.5	2228.6
17.5°	2218.9	2225.4	2196.3	2144.6	2147.9	2160.8	2151.1	2160.8	2212.5	2228.6	2251.2
20°	2222.1	2196.3	2186.6	2154.3	2183.4	2176.9	2173.7	2193.1	2209.2	2238.3	2264.1
22.5°	2215.7	2225.4	2186.6	2183.4	2209.2	2222.1	2228.6	2206.0	2225.4	2244.8	2267.4
25°	2270.6	2235.1	2225.4	2218.9	2231.8	2244.8	2238.3	2257.7	2257.7	2280.3	2309.3
27.5°	2419.2	2422.4	2403.0	2325.5	2299.7	2270.6	2283.5	2335.2	2396.6	2445.0	2454.7
30°	2487.0	2499.9	2551.6	2538.7	2529.0	2538.7	2535.4	2548.4	2554.8	2558.0	2548.4
32.5°	2548.4	2541.9	2519.3	2577.4	2768.0	2913.3	2774.4	2583.9	2541.9	2529.0	2541.9
35°	2771.2	2771.2	2722.8	2648.5	2748.6	2784.1	2719.5	2629.1	2680.8	2787.4	2793.8
37.5°	3058.7	3016.7	3036.1	3026.4	2916.6	2839.0	2952.1	3010.2	3019.9	3016.7	3049.0
40°	3229.9	3200.8	3171.7	3223.4	3323.5	3394.6	3294.5	3155.6	3191.1	3262.2	3233.1
42.5°	3620.7	3546.4	3552.8	3501.2	3497.9	3475.3	3452.7	3462.4	3514.1	3594.8	3607.7
45°	4021.2	4056.7	4034.1	3937.2	3982.4	3982.4	3917.8	3966.3	3992.1	4085.8	4098.7
47.5°	4647.8	4631.6	4641.3	4554.1	4550.9	4573.5	4550.9	4554.1	4634.8	4628.4	4592.9
50°	5380.9	5426.2	5439.1	5397.1	5345.4	5335.7	5300.2	5345.4	5393.9	5397.1	5368.0
52.5°	6395.1	6443.6	6443.6	6456.5	6521.1	6488.8	6482.3	6485.6	6391.9	6327.3	6359.6
55°	7674.1	7690.3	7745.2	7858.2	8055.3	8081.1	7958.4	7903.5	7732.3	7628.9	7709.7
57.5°	8937.0	9001.6	9153.4	9447.3	9689.6	9954.4	9599.1	9237.4	8901.5	8736.8	8765.8
60°	9986.7	10080.4	10371.1	10781.3	11453.1	11695.3	11094.6	10474.4	9792.9	9289.1	9492.5
62.5°	10480.9	10626.2	10871.7	11701.8	12709.5	13058.3	12176.6	11049.3	10015.8	9531.3	9521.6
64°	10484.1	10506.7	10997.7	11892.3	12929.1	13604.2	12438.2	11049.3	10070.7	9473.2	9583.0
65°	10267.7	10361.4	10836.2	11717.9	12790.2	13649.4	12347.7	10897.5	9844.6	9379.5	9431.2
67.5°	9285.8	9282.6	9721.9	10597.2	12086.1	13135.8	11579.0	10048.1	9285.8	8782.0	8843.3
70°	7044.3	7157.4	7577.2	8652.8	10458.3	11582.3	10125.6	8539.7	7590.2	7186.4	7163.8
72.5°	4215.0	4363.5	4899.7	6211.0	8123.1	9489.3	8035.9	6317.6	5174.2	4534.7	4550.9
75°	1921.8	2031.6	2399.8	3468.9	5413.2	6937.7	5445.5	3653.0	2619.4	2212.5	2154.3
77.5°	539.4	607.2	810.7	1592.3	2971.5	4160.1	3055.4	1760.3	1143.4	949.6	930.2
80°	242.2	255.2	287.5	387.6	943.1	1834.6	1262.9	646.0	429.6	355.3	339.1
82.5°	132.4	142.1	187.3	200.3	268.1	487.7	416.7	303.6	258.4	206.7	200.3
85°	74.3	77.5	106.6	106.6	129.2	142.1	151.8	161.5	158.3	116.3	113.0
87.5°	22.6	25.8	32.3	32.3	32.3	32.3	51.7	71.1	77.5	54.9	54.9
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)