

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: P479617

Luminaire Tested: **IFLD-S-SA6D-727-U-5WQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479617
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

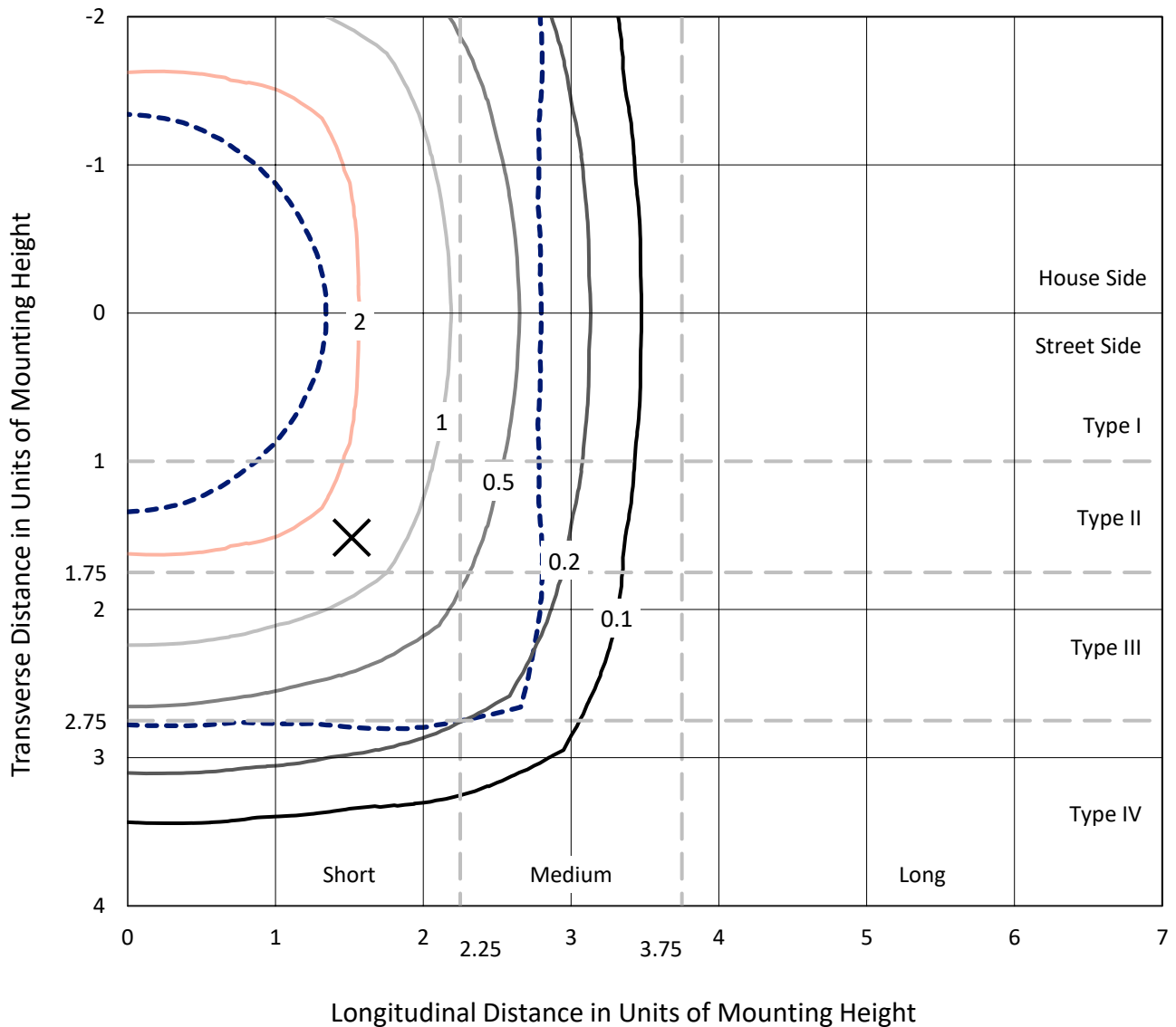
Lumens per Lamp: N/A
Luminaire Lumens: 39238.6 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (A_{in}): 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

REPORT NUMBER: P479617
 CATALOG NUMBER: IFLD-S-SA6D-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

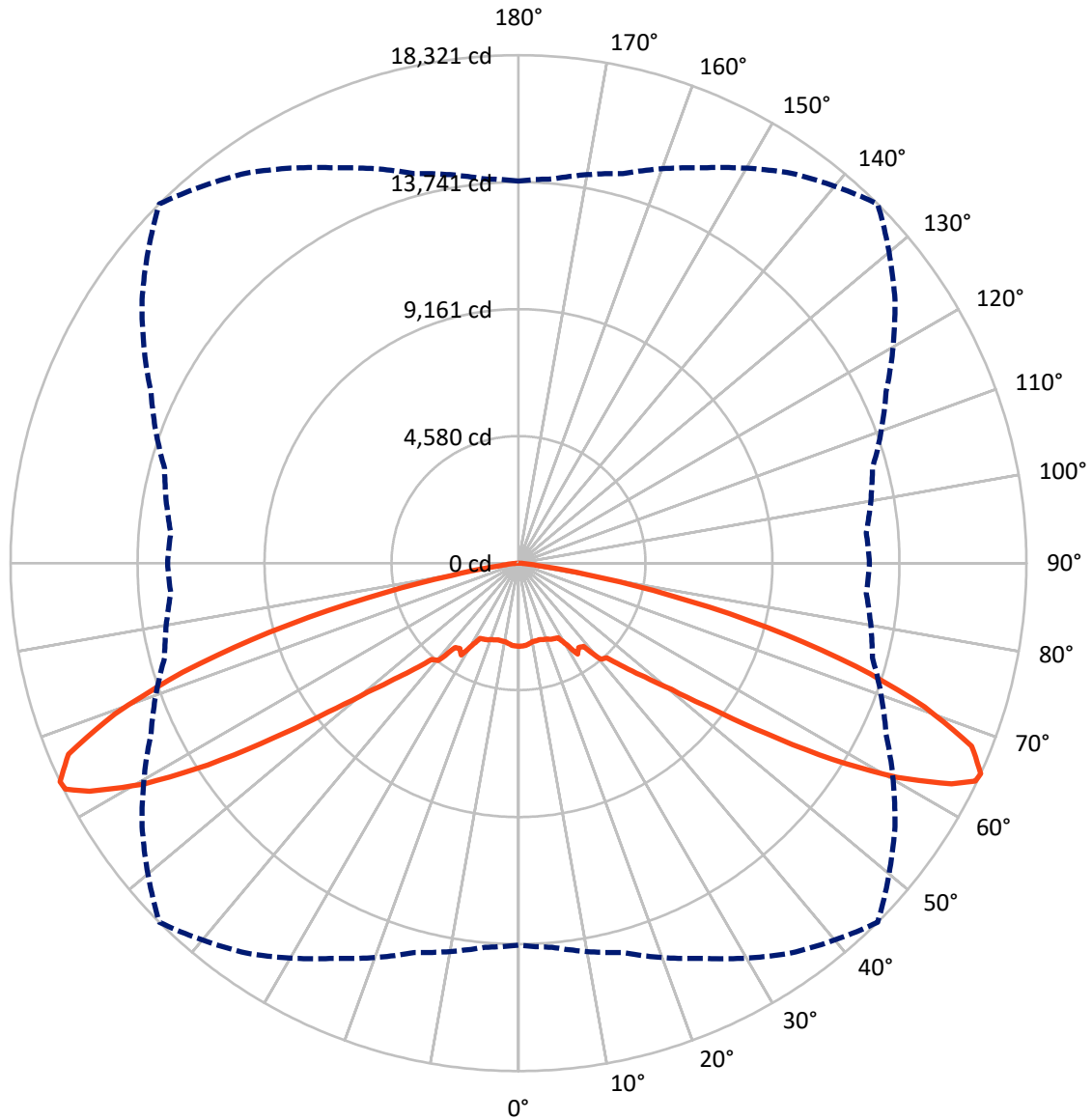
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

REPORT NUMBER: P479617
CATALOG NUMBER: IFLD-S-SA6D-727-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479617

CATALOG NUMBER: IFLD-S-SA6D-727-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19619.3	0.0	19619.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19619.3	0.0	19619.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	39238.6	0.0	39238.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.5	0.7
10°-20°	827.0	2.1
20°-30°	1431.5	3.6
30°-40°	2380.2	6.1
40°-50°	4294.3	10.9
50°-60°	9566.3	24.4
60°-70°	14256.9	36.3
70°-80°	5908.2	15.1
80°-90°	292.6	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°	39238.6	100.0
0°-180°	39238.6	100.0

Coefficient of Utilization



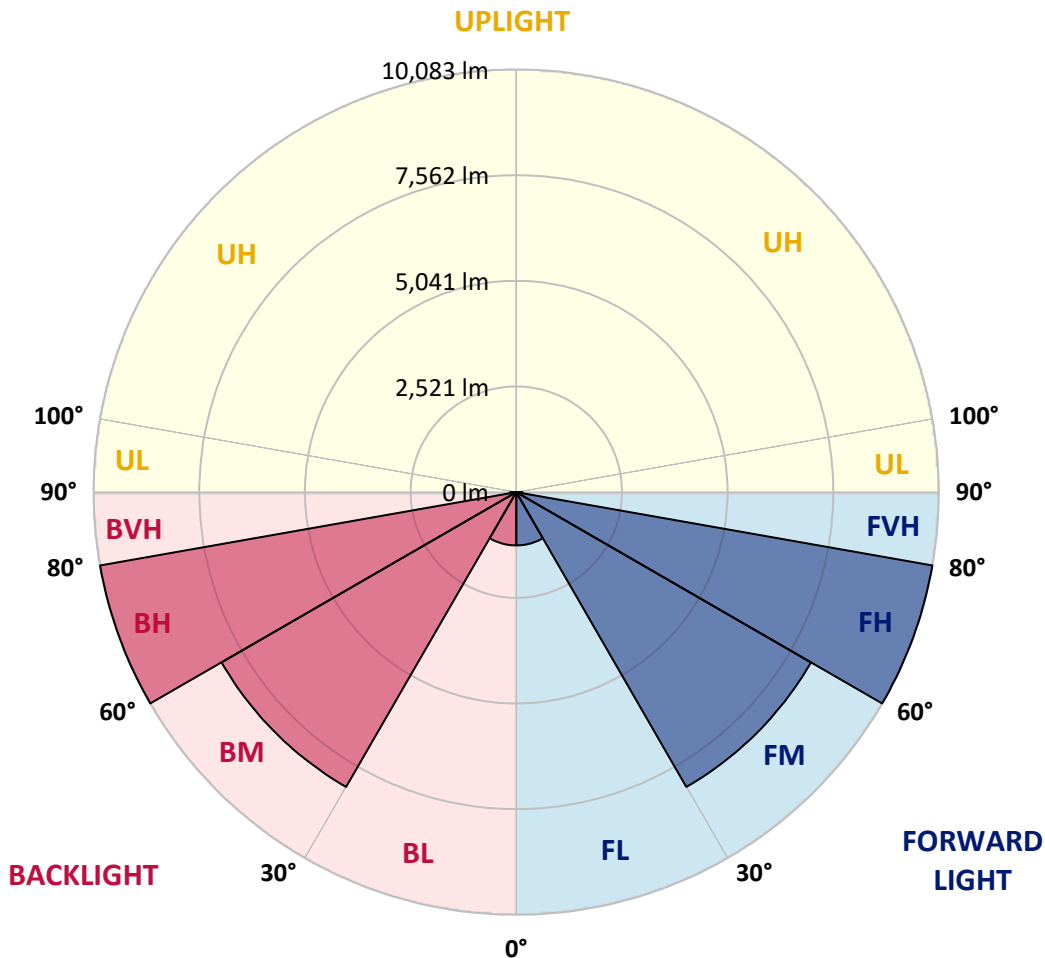
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1270.0	3.2			
FM (30°-60°)	8120.4	20.7			
FH (60°-80°)	10082.6	25.7			G4/12000
FVH (80°-90°)	146.3	0.4			G2/225
BL (0°-30°)	1270.0	3.2	B3/2500		
BM (30°-60°)	8120.4	20.7	B4/8500		
BH (60°-80°)	10082.6	25.7	B5		G4/12000
BVH (80°-90°)	146.3	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°	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0
2.5°	2965.4	2974.0	2969.7	2969.7	2982.7	2991.4	2995.7	3039.1	3021.7	3034.7	3021.7
5°	2974.0	2974.0	2982.7	2974.0	2982.7	2974.0	2982.7	2969.7	2982.7	2991.4	3004.4
7.5°	2956.7	2948.0	2935.0	2935.0	2930.7	2922.0	2909.0	2943.7	2926.3	2939.3	2961.0
10°	2961.0	2948.0	2904.7	2913.3	2874.3	2874.3	2883.0	2883.0	2922.0	2965.4	2978.4
12.5°	2961.0	2935.0	2922.0	2865.6	2865.6	2870.0	2891.7	2900.3	2926.3	2943.7	2987.0
15°	2961.0	2948.0	2926.3	2852.6	2870.0	2861.3	2883.0	2883.0	2939.3	2969.7	2991.4
17.5°	2978.4	2987.0	2948.0	2878.6	2883.0	2900.3	2887.3	2900.3	2969.7	2991.4	3021.7
20°	2982.7	2948.0	2935.0	2891.7	2930.7	2922.0	2917.7	2943.7	2965.4	3004.4	3039.1
22.5°	2974.0	2987.0	2935.0	2930.7	2965.4	2982.7	2991.4	2961.0	2987.0	3013.0	3043.4
25°	3047.7	3000.0	2987.0	2978.4	2995.7	3013.0	3004.4	3030.4	3030.4	3060.7	3099.7
27.5°	3247.1	3251.5	3225.5	3121.4	3086.7	3047.7	3065.1	3134.4	3216.8	3281.8	3294.8
30°	3338.2	3355.5	3424.9	3407.6	3394.5	3407.6	3403.2	3420.6	3429.2	3433.6	3420.6
32.5°	3420.6	3411.9	3381.5	3459.6	3715.4	3910.4	3724.0	3468.2	3411.9	3394.5	3411.9
35°	3719.7	3719.7	3654.7	3555.0	3689.3	3737.0	3650.3	3528.9	3598.3	3741.4	3750.0
37.5°	4105.5	4049.2	4075.2	4062.2	3914.8	3810.7	3962.5	4040.5	4053.5	4049.2	4092.5
40°	4335.3	4296.3	4257.3	4326.6	4461.0	4556.4	4422.0	4235.6	4283.3	4378.7	4339.6
42.5°	4859.9	4760.2	4768.8	4699.5	4695.1	4664.8	4634.4	4647.5	4716.8	4825.2	4842.5
45°	5397.5	5445.1	5414.8	5284.7	5345.4	5345.4	5258.7	5323.8	5358.4	5484.2	5501.5
47.5°	6238.5	6216.8	6229.8	6112.8	6108.5	6138.8	6108.5	6112.8	6221.2	6212.5	6164.8
50°	7222.6	7283.3	7300.7	7244.3	7174.9	7161.9	7114.2	7174.9	7240.0	7244.3	7205.3
52.5°	8583.9	8648.9	8648.9	8666.3	8753.0	8709.6	8701.0	8705.3	8579.6	8492.9	8536.2
55°	10300.7	10322.4	10396.1	10547.8	10812.3	10846.9	10682.2	10608.5	10378.7	10240.0	10348.4
57.5°	11995.8	12082.5	12286.3	12680.8	13005.9	13361.4	12884.5	12399.0	11948.1	11727.0	11766.0
60°	13404.8	13530.5	13920.7	14471.3	15373.0	15698.2	14891.8	14059.4	13144.7	12468.3	12741.5
62.5°	14068.1	14263.2	14592.7	15706.8	17059.4	17527.7	16344.1	14831.1	13443.8	12793.5	12780.5
64°	14072.4	14102.8	14761.7	15962.6	17354.2	18260.3	16695.3	14831.1	13517.5	12715.5	12862.9
65°	13781.9	13907.7	14545.0	15728.5	17167.8	18321.0	16573.9	14627.3	13214.0	12589.7	12659.1
67.5°	12464.0	12459.7	13049.3	14224.1	16222.7	17631.7	15542.1	13487.1	12464.0	11787.7	11870.1
70°	9455.3	9607.0	10170.6	11614.3	14037.7	15546.4	13591.2	11462.6	10188.0	9646.1	9615.7
72.5°	5657.6	5857.0	6576.7	8336.8	10903.3	12737.1	10786.2	8479.9	6945.2	6086.8	6108.5
75°	2579.5	2726.9	3221.1	4656.1	7266.0	9312.2	7309.3	4903.2	3515.9	2969.7	2891.7
77.5°	724.0	815.0	1088.2	2137.3	3988.5	5583.9	4101.2	2362.7	1534.7	1274.6	1248.6
80°	325.1	342.5	385.8	520.2	1265.9	2462.5	1695.1	867.1	576.6	476.9	455.2
82.5°	177.7	190.8	251.4	268.8	359.8	654.6	559.3	407.5	346.8	277.5	268.8
85°	99.7	104.0	143.1	143.1	173.4	190.8	203.8	216.8	212.4	156.1	151.7
87.5°	30.3	34.7	43.4	43.4	43.4	43.4	69.4	95.4	104.0	73.7	73.7
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)