



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  
Eaton Lighting Division  
(formerly Cooper Lighting)

Brand: FAIL-SAFE

Report Number: P212914

Luminaire Tested: **FPS-4-LD4-3HI-40-CLR**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Eaton or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P212914  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35459-R3)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: EATON (FORMERLY COOPER LIGHTING)  
Product Line: FAIL-SAFE  
Catalog Number: FPS-4-LD4-3HI-40-CLR  
Description: FPS 4' LED FIXTURE WITH CLEAR LENS  
Light Source: (252) EATON 4000K CCT, 85 CRI LEDS  
Ballast/Driver: -

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	a	good	reflector
	b	good	lens
	c	good	housing
	d	good	cord

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13654.9 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 4.1' x H: 0.33')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U5 - G3

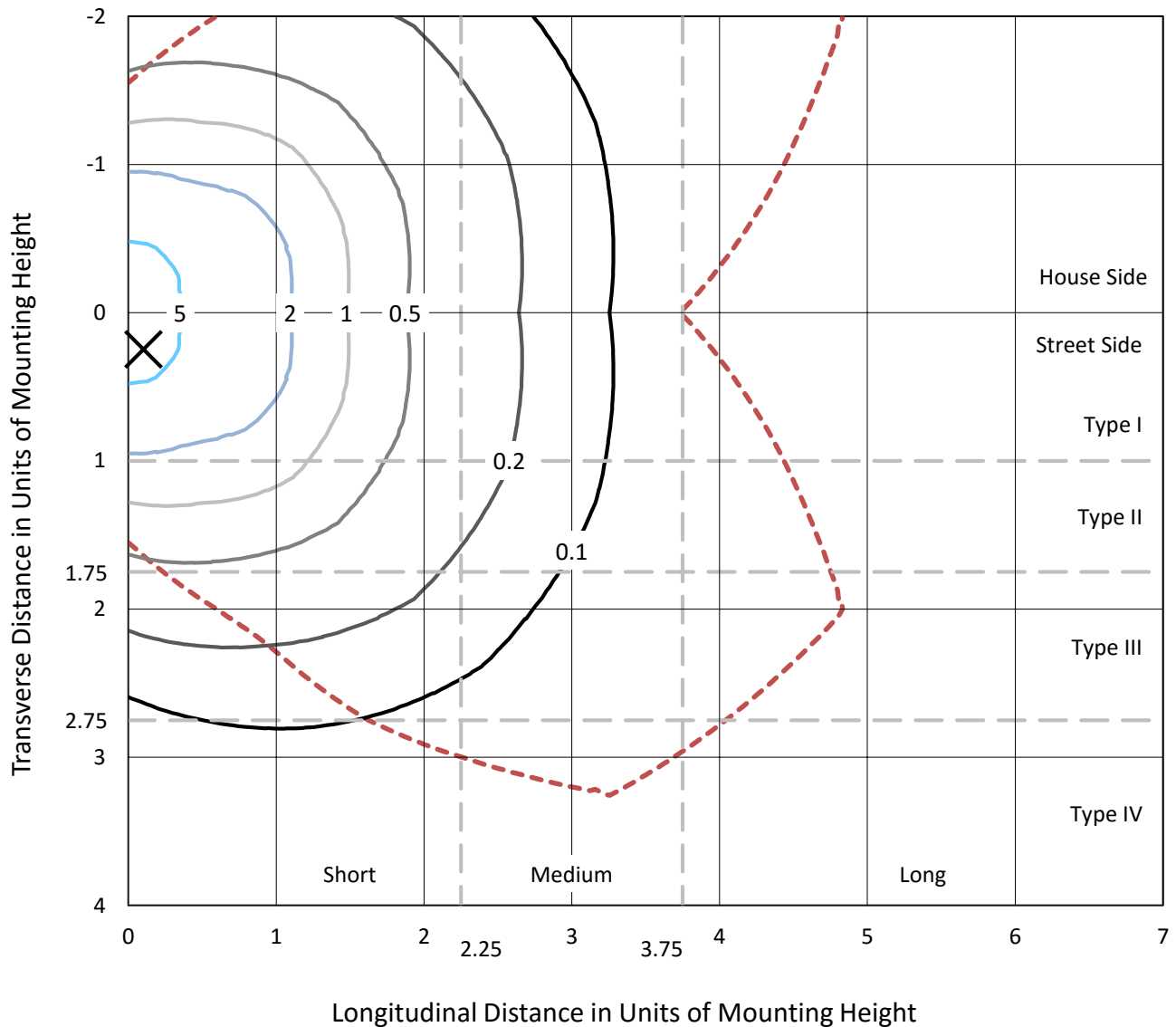
Input Watts (W): 133.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

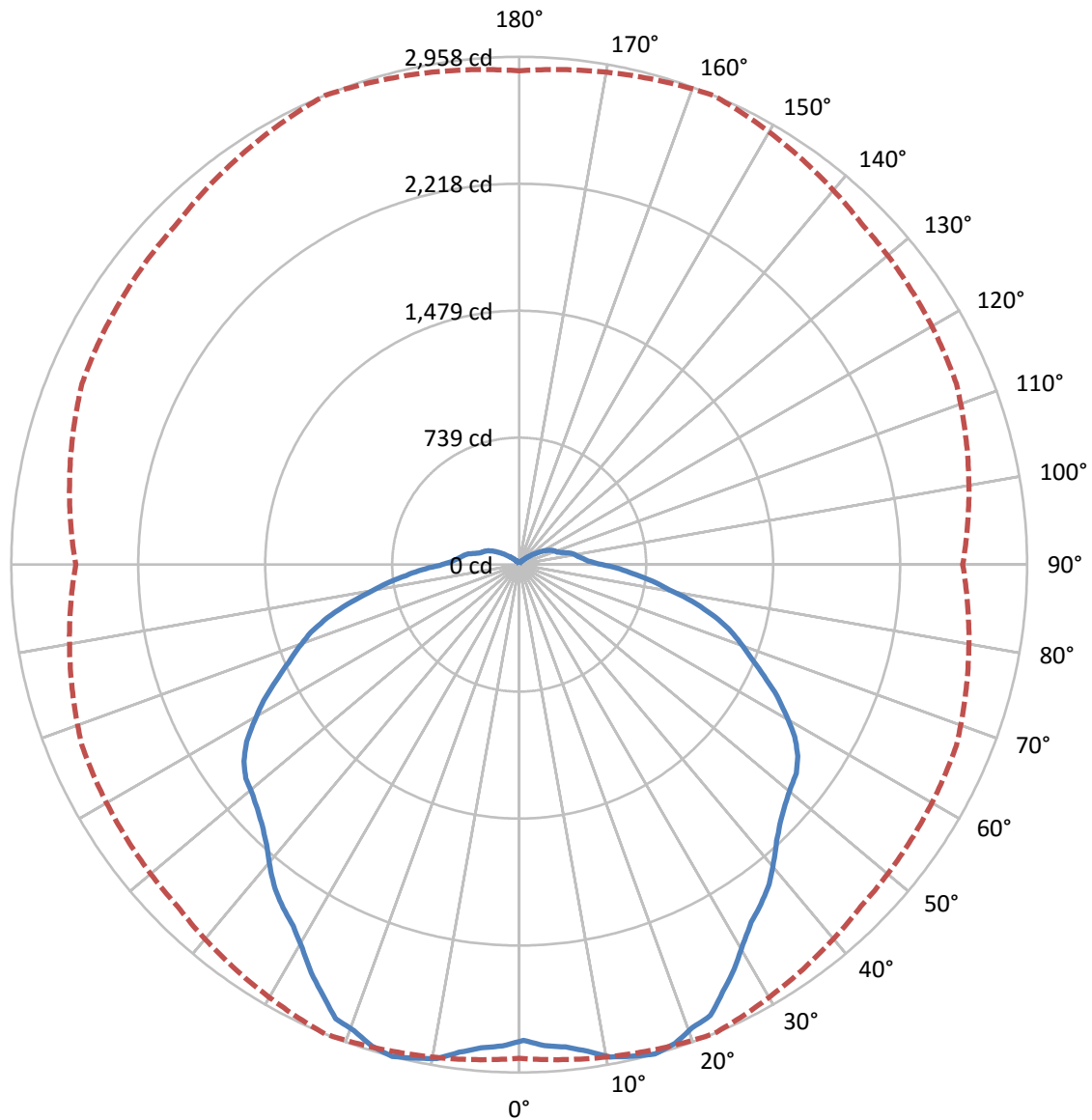


Based on 20 foot mounting height. Maximum calculated value = 6.9 fc  
 Type V - Short - Non-Cutoff



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### Luminous Intensity Polar Plot



— Vertical Plane Through 22.5-Deg Lateral    - - - Horizontal Cone Through 15-Deg Vertical



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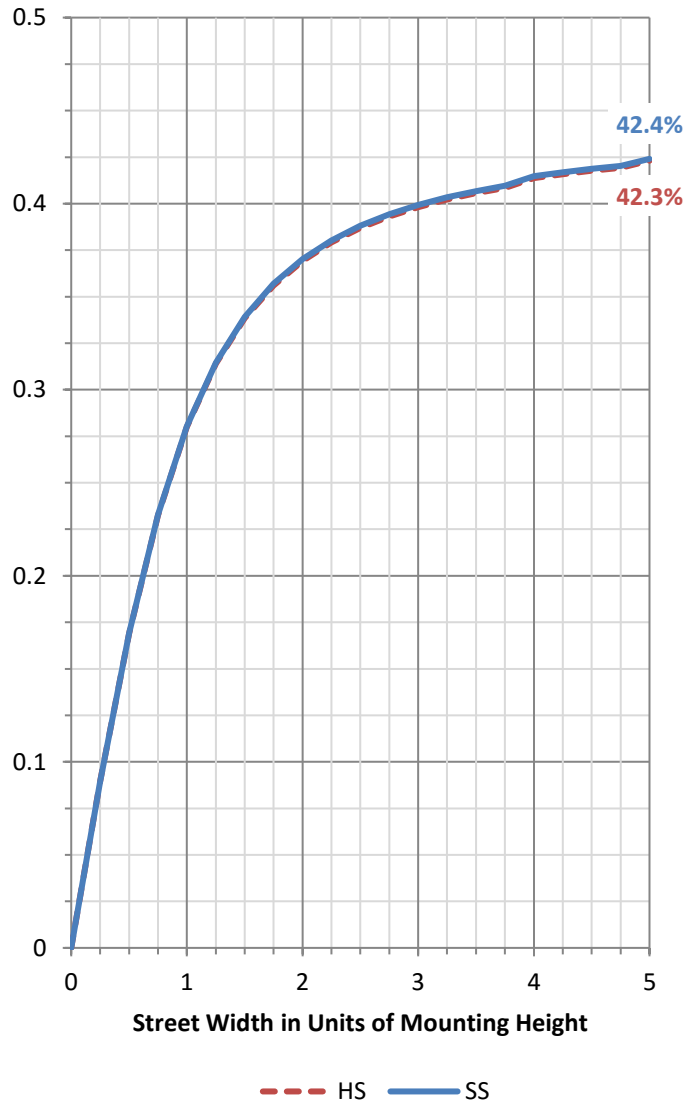
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6008.5	819.0	6827.4
	% Fixture	44.0	6.0	50.0
<b>Street Side</b>	Lumens	6008.5	819.0	6827.4
	% Fixture	44.0	6.0	50.0
<b>Total</b>	Lumens	12017.0	1637.9	13654.9
	% Fixture	88.0	12.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.9	2.0
10°-20°	786.0	5.8
20°-30°	1184.2	8.7
30°-40°	1549.4	11.3
40°-50°	1912.4	14.0
50°-60°	2063.9	15.1
60°-70°	1839.1	13.5
70°-80°	1460.7	10.7
80°-90°	950.4	7.0
90°-100°	600.0	4.4
100°-110°	444.1	3.3
110°-120°	282.8	2.1
120°-130°	162.5	1.2
130°-140°	84.7	0.6
140°-150°	45.0	0.3
150°-160°	17.9	0.1
160°-170°	0.8	0.0
170°-180°	0.0	0.0
0°-90°	12017.0	88.0
0°-180°	13654.9	100.0





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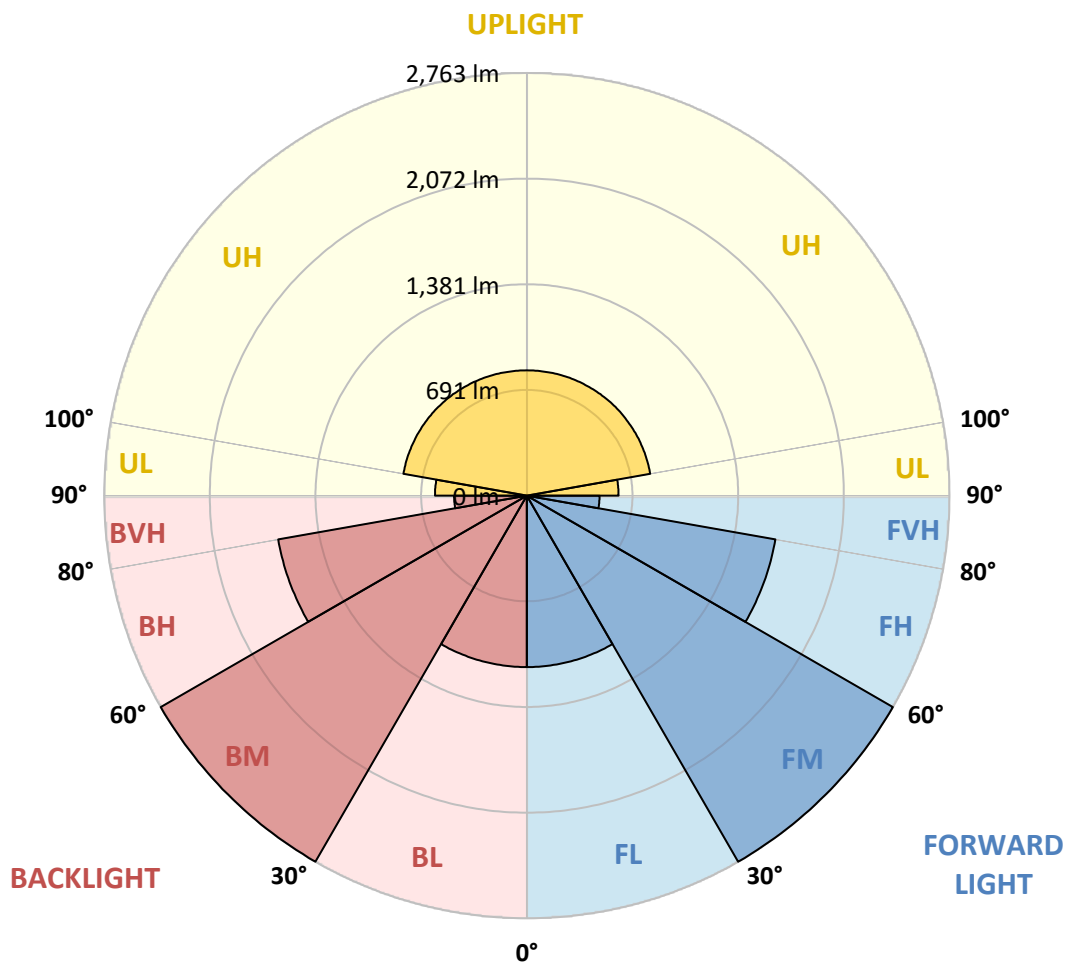
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1120.5	8.2			
FM	(30°-60°)	2762.8	20.2			
FH	(60°-80°)	1649.9	12.1			G1/1800
FVH	(80°-90°)	475.2	3.5			G3/500
BL	(0°-30°)	1120.5	8.2	B3/2500		
BM	(30°-60°)	2762.8	20.2	B3/5000		
BH	(60°-80°)	1649.9	12.1	B3/2500		G1/1800
BVH	(80°-90°)	475.2	3.5			G3/500
UL	(90°-100°)	600.0	4.4		U4/1000	
UH	(100°-180°)	819.0	6.0		U4/1000	

**BUG Rating: B3-U5-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2770.0	2770.0	2770.0	2770.0	2770.0
2.5°	2800.7	2804.4	2788.4	2790.9	2786.0
5°	2810.5	2821.5	2843.6	2857.0	2844.8
7.5°	2825.2	2860.7	2884.0	2844.8	2819.1
10°	2859.5	2915.8	2863.2	2790.9	2767.6
12.5°	2866.8	2937.9	2849.7	2771.3	2809.3
15°	2875.4	2957.5	2814.2	2755.3	2582.6
17.5°	2870.5	2931.8	2837.4	2515.2	2378.0
20°	2859.5	2879.1	2751.7	2365.8	2297.1
22.5°	2810.5	2852.1	2603.4	2359.6	2349.8
25°	2739.4	2755.3	2455.2	2429.5	2420.9
27.5°	2679.4	2667.1	2335.1	2495.6	2511.5
30°	2602.2	2565.4	2336.3	2561.8	2495.6
32.5°	2522.6	2482.1	2322.9	2561.8	2520.1
35°	2434.4	2425.8	2360.9	2590.0	2594.9
37.5°	2325.3	2363.3	2367.0	2651.2	2580.2
40°	2235.9	2281.2	2392.7	2619.4	2616.9
42.5°	2130.5	2197.9	2473.6	2743.1	2701.4
45°	2027.6	2133.0	2555.6	2875.4	2706.3
47.5°	1927.2	2085.2	2673.3	2915.8	2610.8
50°	1794.8	2046.0	2789.7	2887.7	2496.8
52.5°	1683.3	2020.3	2774.9	2788.4	2428.2
55°	1568.2	1968.8	2712.5	2680.6	2335.1
57.5°	1446.9	1892.8	2593.6	2572.8	2139.1
60°	1331.7	1787.5	2427.0	2391.5	1973.7
62.5°	1199.4	1685.8	2295.9	2259.2	1895.3
65°	1059.7	1567.0	2145.2	2195.5	1859.8
67.5°	933.6	1459.1	2053.3	2155.0	1857.3
70°	797.6	1367.3	1962.7	2054.6	1776.5
72.5°	676.3	1275.4	1818.1	1872.0	1601.3
75°	552.5	1159.0	1641.7	1710.3	1464.0
77.5°	437.4	1029.1	1478.7	1562.1	1348.9
80°	329.6	887.0	1330.5	1417.5	1211.7
82.5°	234.0	779.2	1204.3	1279.0	1096.5
85°	160.5	661.6	1065.9	1171.2	974.0
87.5°	98.0	567.2	940.9	1046.3	872.3
90°	63.7	461.9	809.8	923.8	785.3
92.5°	60.0	401.8	706.9	833.1	700.8
95°	61.3	372.4	657.9	762.0	638.3
97.5°	62.5	345.5	622.4	732.6	610.1
100°	61.3	327.1	606.4	710.6	591.7
102.5°	60.0	301.4	585.6	667.7	553.8
105°	57.6	262.2	542.7	610.1	501.1
107.5°	55.1	235.2	476.6	535.4	446.0
110°	52.7	224.2	423.9	464.3	394.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	51.5	211.9	392.0	425.1	362.6
115°	49.0	194.8	362.6	393.3	335.7
117.5°	45.3	174.0	328.3	357.7	306.3
120°	40.4	150.7	295.3	324.7	279.3
122.5°	36.8	128.6	259.7	287.9	252.4
125°	33.1	107.8	225.4	249.9	223.0
127.5°	30.6	87.0	197.2	216.9	198.5
130°	28.2	72.3	172.7	191.1	177.6
132.5°	27.0	61.3	150.7	172.7	162.9
135°	24.5	50.2	131.1	160.5	153.1
137.5°	23.3	41.7	113.9	147.0	143.3
140°	22.1	34.3	99.2	136.0	134.8
142.5°	22.1	27.0	85.8	126.2	126.2
145°	20.8	24.5	74.7	115.2	116.4
147.5°	20.8	23.3	64.9	104.1	106.6
150°	19.6	22.1	53.9	89.4	94.3
152.5°	19.6	22.1	42.9	74.7	79.6
155°	18.4	20.8	30.6	58.8	64.9
157.5°	18.4	19.6	18.4	41.7	46.6
160°	17.2	19.6	13.5	22.1	25.7
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)