



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: P212919

Luminaire Tested: **FPS-4-LD4-3LO-50-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: P212919  
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-LD4-3LO-50-CLR  
Description: FPS 4' LED FIXTURE WITH CLEAR LENS  
Light Source: (252) EATON 5000K 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**

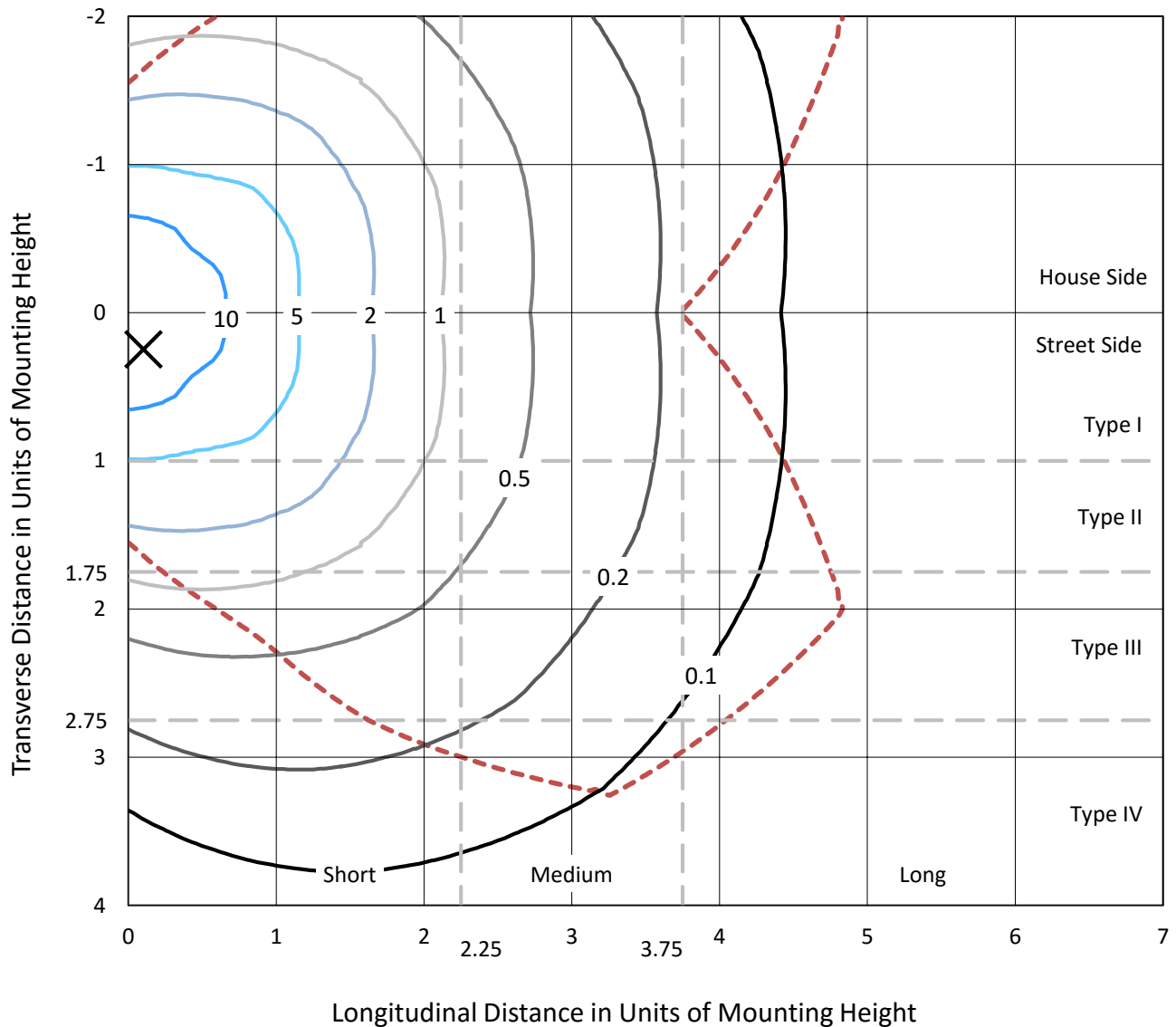
Lumens per Lamp: N/A  
Luminaire Lumens: 9298.1 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 4.1' x H: 0.33')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U4 - G3  
  
Input Watts (W): 70.5  
Input Voltage (V): 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

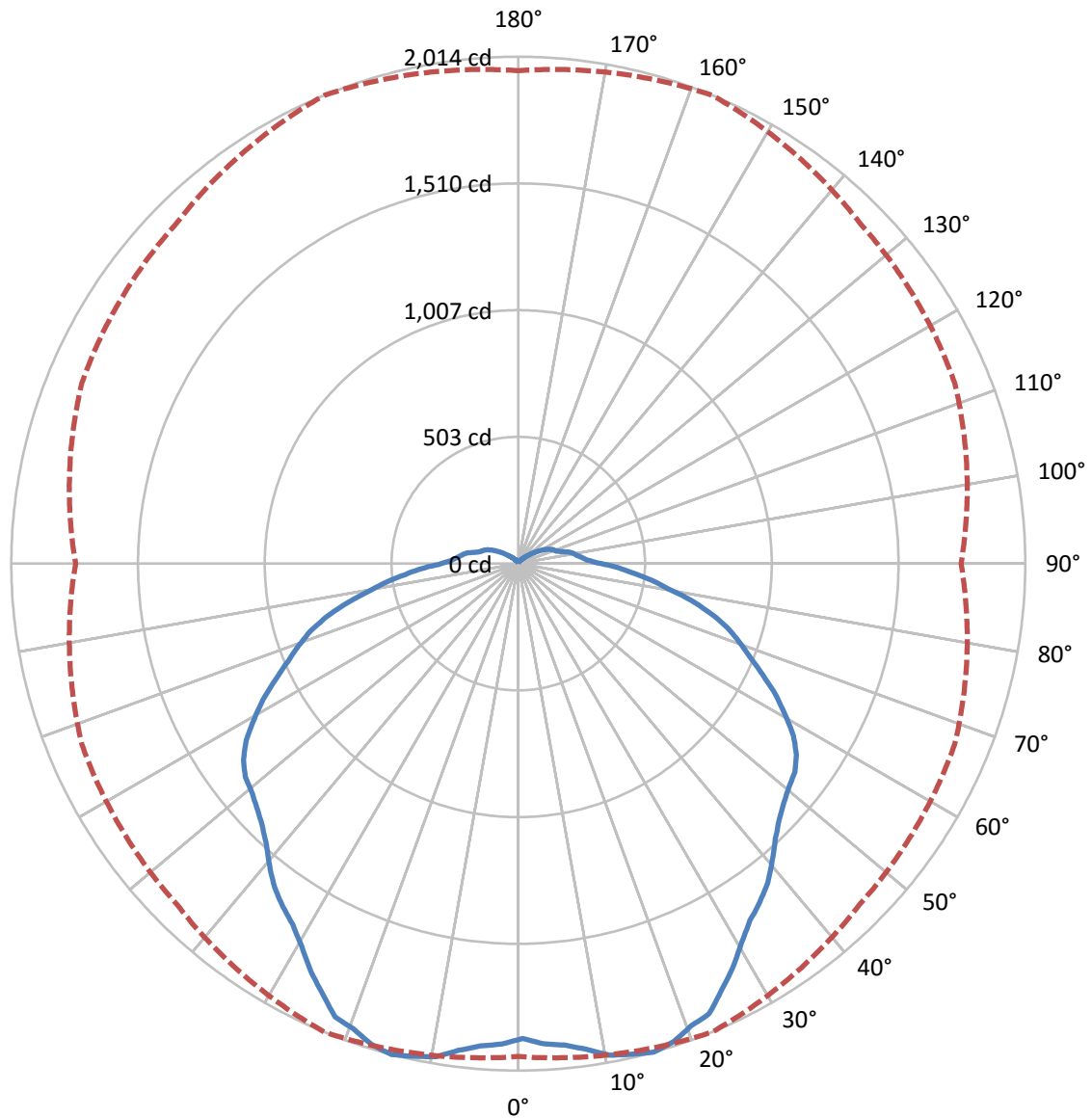


Based on 10 foot mounting height. Maximum calculated value = 18.9 fc  
 Type V - Short - Non-Cutoff



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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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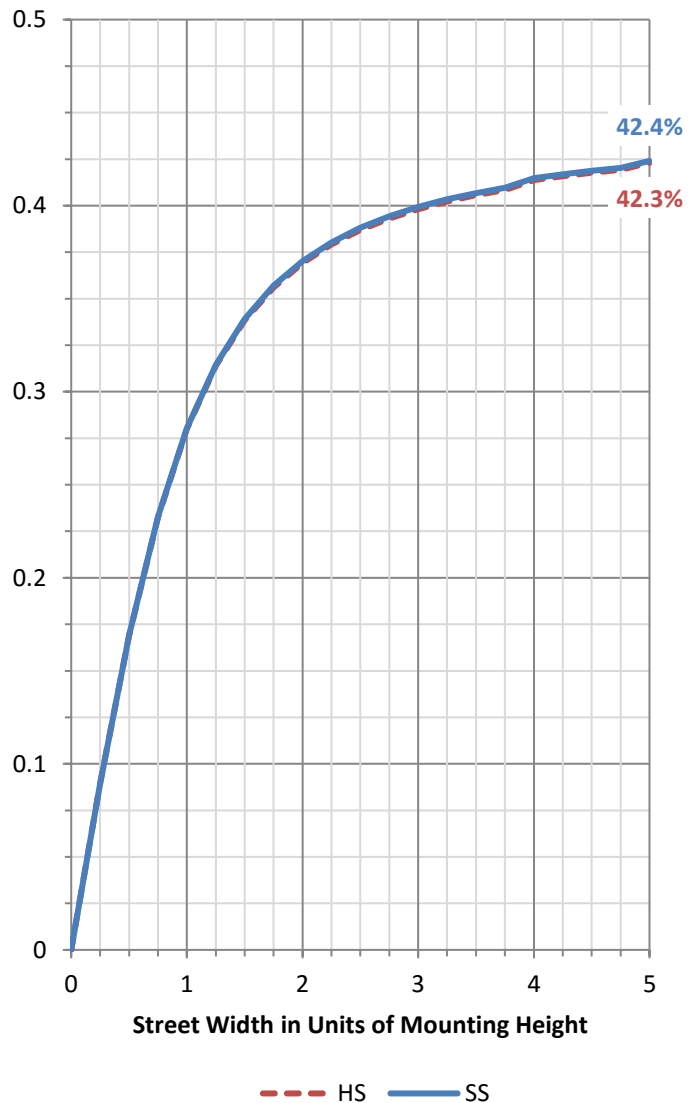
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4091.4	557.7	4649.0
	% Fixture	44.0	6.0	50.0
<b>Street Side</b>	Lumens	4091.4	557.7	4649.0
	% Fixture	44.0	6.0	50.0
<b>Total</b>	Lumens	8182.7	1115.4	9298.1
	% Fixture	88.0	12.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.4	2.0
10°-20°	535.2	5.8
20°-30°	806.4	8.7
30°-40°	1055.0	11.3
40°-50°	1302.2	14.0
50°-60°	1405.4	15.1
60°-70°	1252.3	13.5
70°-80°	994.6	10.7
80°-90°	647.2	7.0
90°-100°	408.6	4.4
100°-110°	302.4	3.3
110°-120°	192.6	2.1
120°-130°	110.6	1.2
130°-140°	57.7	0.6
140°-150°	30.7	0.3
150°-160°	12.2	0.1
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-90°	8182.7	88.0
0°-180°	9298.1	100.0





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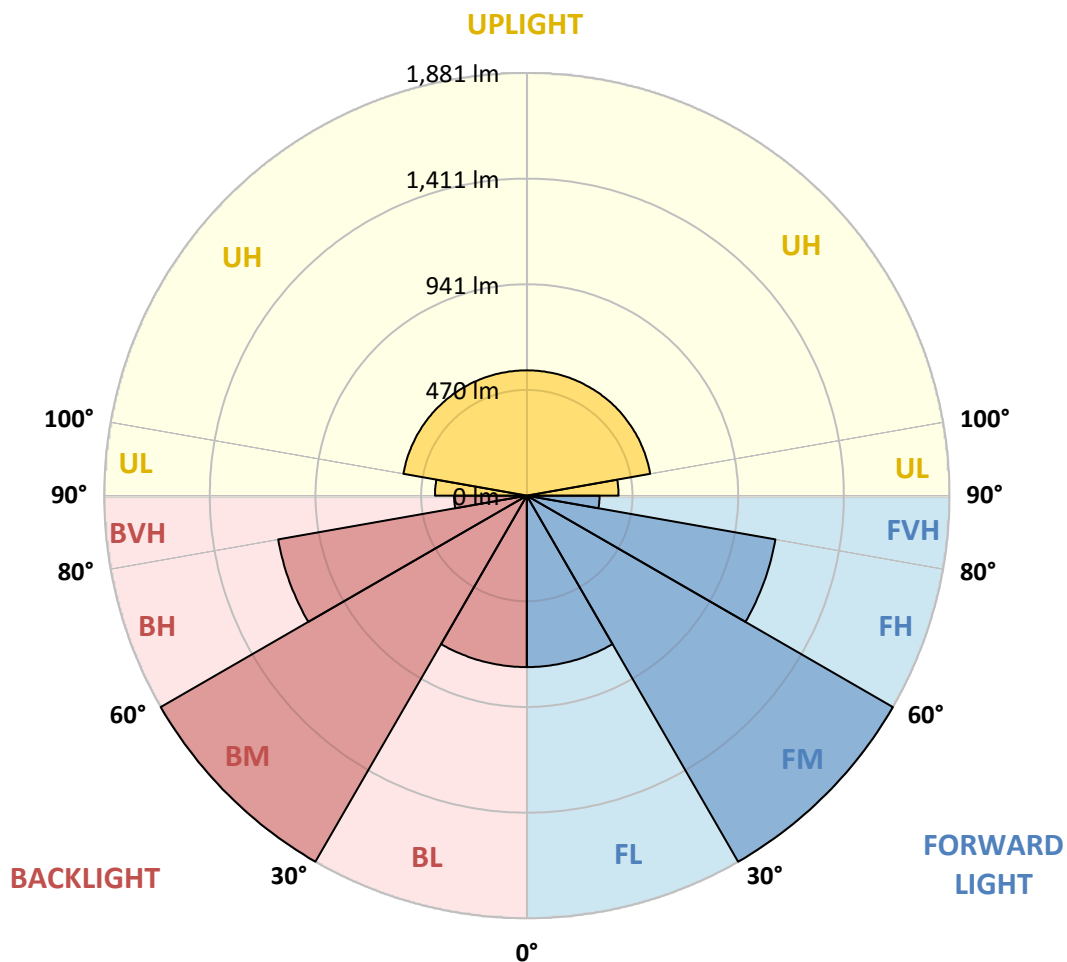
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	763.0	8.2			
FM	(30°-60°)	1881.3	20.2			
FH	(60°-80°)	1123.5	12.1			G1/1800
FVH	(80°-90°)	323.6	3.5			G3/500
BL	(0°-30°)	763.0	8.2	B2/1000		
BM	(30°-60°)	1881.3	20.2	B2/2500		
BH	(60°-80°)	1123.5	12.1	B3/2500		G1/1800
BVH	(80°-90°)	323.6	3.5			G3/500
UL	(90°-100°)	408.6	4.4		U3/500	
UH	(100°-180°)	557.7	6.0		U4/1000	

**BUG Rating: B3-U4-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1886.2	1886.2	1886.2	1886.2	1886.2
2.5°	1907.1	1909.6	1898.7	1900.4	1897.1
5°	1913.7	1921.2	1936.3	1945.4	1937.1
7.5°	1923.7	1947.9	1963.8	1937.1	1919.6
10°	1947.1	1985.5	1949.6	1900.4	1884.5
12.5°	1952.1	2000.5	1940.4	1887.0	1912.9
15°	1958.0	2013.8	1916.2	1876.2	1758.6
17.5°	1954.6	1996.3	1932.1	1712.7	1619.3
20°	1947.1	1960.5	1873.7	1610.9	1564.2
22.5°	1913.7	1942.1	1772.8	1606.7	1600.1
25°	1865.4	1876.2	1671.8	1654.3	1648.5
27.5°	1824.5	1816.1	1590.1	1699.3	1710.2
30°	1771.9	1746.9	1590.9	1744.4	1699.3
32.5°	1717.7	1690.2	1581.7	1744.4	1716.0
35°	1657.6	1651.8	1607.6	1763.6	1766.9
37.5°	1583.4	1609.2	1611.7	1805.3	1756.9
40°	1522.5	1553.3	1629.3	1783.6	1781.9
42.5°	1450.7	1496.6	1684.3	1867.9	1839.5
45°	1380.7	1452.4	1740.2	1958.0	1842.8
47.5°	1312.3	1419.9	1820.3	1985.5	1777.8
50°	1222.2	1393.2	1899.6	1966.3	1700.2
52.5°	1146.2	1375.7	1889.5	1898.7	1653.5
55°	1067.8	1340.6	1847.0	1825.3	1590.1
57.5°	985.2	1288.9	1766.1	1751.9	1456.6
60°	906.8	1217.2	1652.6	1628.4	1344.0
62.5°	816.7	1147.9	1563.4	1538.3	1290.6
65°	721.6	1067.0	1460.7	1495.0	1266.4
67.5°	635.7	993.6	1398.2	1467.4	1264.7
70°	543.1	931.0	1336.4	1399.0	1209.6
72.5°	460.5	868.4	1238.0	1274.7	1090.3
75°	376.2	789.2	1117.9	1164.6	996.9
77.5°	297.8	700.8	1006.9	1063.7	918.5
80°	224.4	604.0	906.0	965.2	825.1
82.5°	159.3	530.6	820.1	870.9	746.6
85°	109.3	450.5	725.8	797.5	663.2
87.5°	66.7	386.3	640.7	712.4	594.0
90°	43.4	314.5	551.4	629.0	534.7
92.5°	40.9	273.6	481.4	567.3	477.2
95°	41.7	253.6	448.0	518.9	434.6
97.5°	42.5	235.3	423.8	498.9	415.4
100°	41.7	222.7	412.9	483.9	402.9
102.5°	40.9	205.2	398.8	454.7	377.1
105°	39.2	178.5	369.6	415.4	341.2
107.5°	37.5	160.2	324.5	364.6	303.7
110°	35.9	152.7	288.6	316.2	268.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	35.0	144.3	267.0	289.5	246.9
115°	33.4	132.6	246.9	267.8	228.6
117.5°	30.9	118.5	223.6	243.6	208.6
120°	27.5	102.6	201.1	221.1	190.2
122.5°	25.0	87.6	176.9	196.0	171.9
125°	22.5	73.4	153.5	170.2	151.8
127.5°	20.9	59.2	134.3	147.7	135.1
130°	19.2	49.2	117.6	130.1	121.0
132.5°	18.4	41.7	102.6	117.6	111.0
135°	16.7	34.2	89.3	109.3	104.3
137.5°	15.9	28.4	77.6	100.1	97.6
140°	15.0	23.4	67.6	92.6	91.8
142.5°	15.0	18.4	58.4	85.9	85.9
145°	14.2	16.7	50.9	78.4	79.3
147.5°	14.2	15.9	44.2	70.9	72.6
150°	13.3	15.0	36.7	60.9	64.2
152.5°	13.3	15.0	29.2	50.9	54.2
155°	12.5	14.2	20.9	40.0	44.2
157.5°	12.5	13.3	12.5	28.4	31.7
160°	11.7	13.3	9.2	15.0	17.5
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)