



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: P212917

Luminaire Tested: **FPS-4-LD4-3LO-35-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: P212917  
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-35-CLR  
Description: FPS 4' LED FIXTURE WITH CLEAR LENS  
Light Source: (252) EATON 3500K 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**

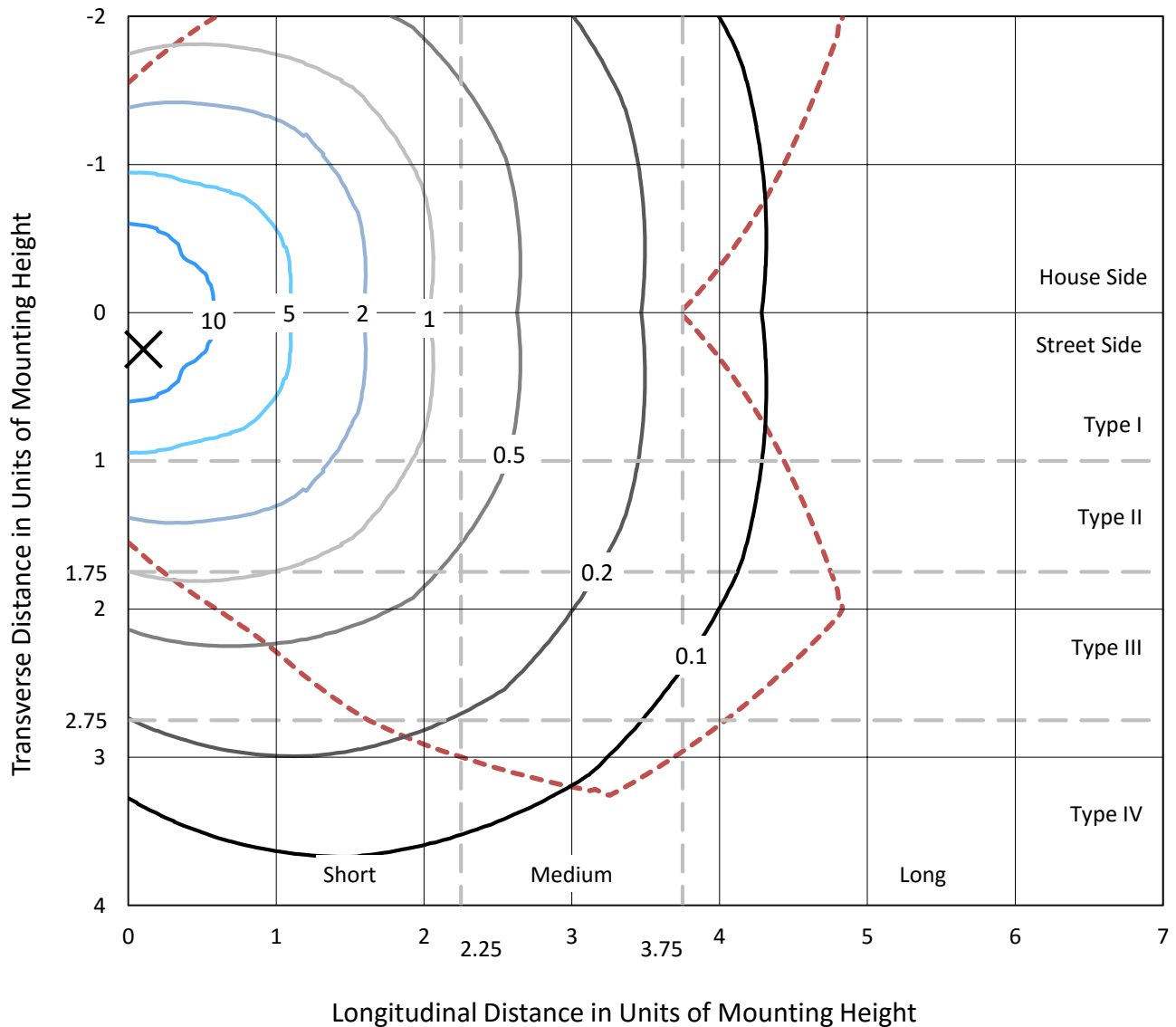
Lumens per Lamp: N/A  
Luminaire Lumens: 8427.1 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 4.1' x H: 0.33')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U4 - G3  
  
Input Watts (W): 70.5  
Input Voltage (V): 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

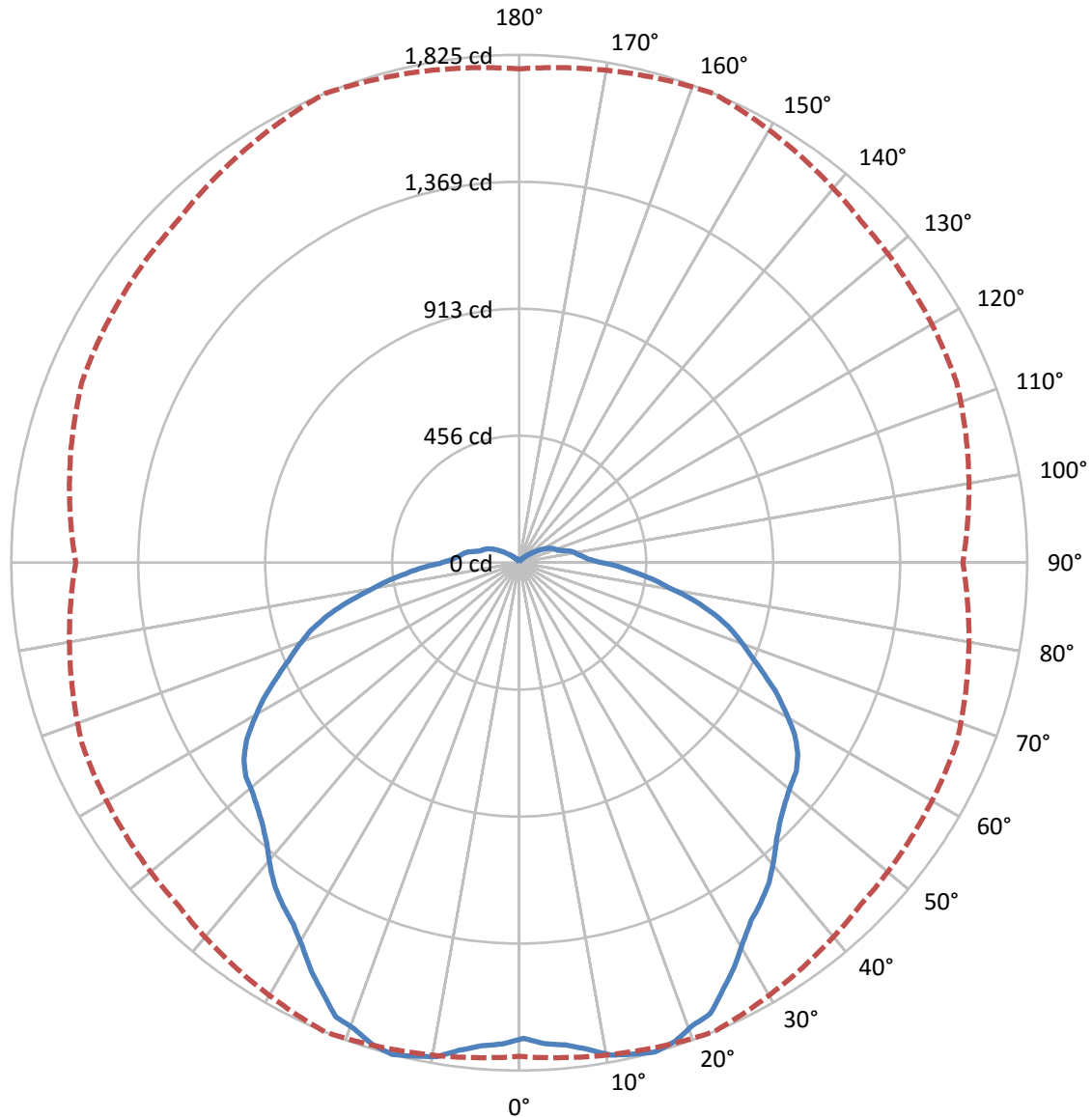


Based on 10 foot mounting height. Maximum calculated value = 17.1 fc  
 Type V - Short - Non-Cutoff



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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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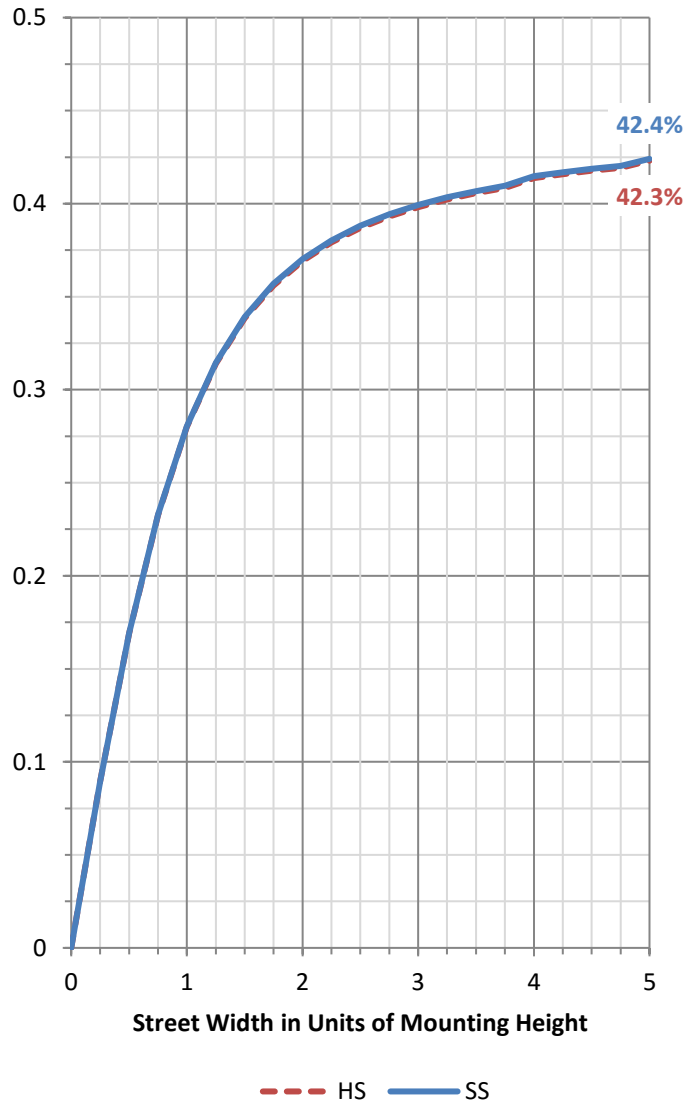
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3708.1	505.4	4213.6
	% Fixture	44.0	6.0	50.0
<b>Street Side</b>	Lumens	3708.1	505.4	4213.6
	% Fixture	44.0	6.0	50.0
<b>Total</b>	Lumens	7416.3	1010.9	8427.1
	% Fixture	88.0	12.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.2	2.0
10°-20°	485.1	5.8
20°-30°	730.8	8.7
30°-40°	956.2	11.3
40°-50°	1180.2	14.0
50°-60°	1273.8	15.1
60°-70°	1135.0	13.5
70°-80°	901.5	10.7
80°-90°	586.6	7.0
90°-100°	370.3	4.4
100°-110°	274.1	3.3
110°-120°	174.5	2.1
120°-130°	100.3	1.2
130°-140°	52.3	0.6
140°-150°	27.8	0.3
150°-160°	11.1	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-90°	7416.3	88.0
0°-180°	8427.1	100.0





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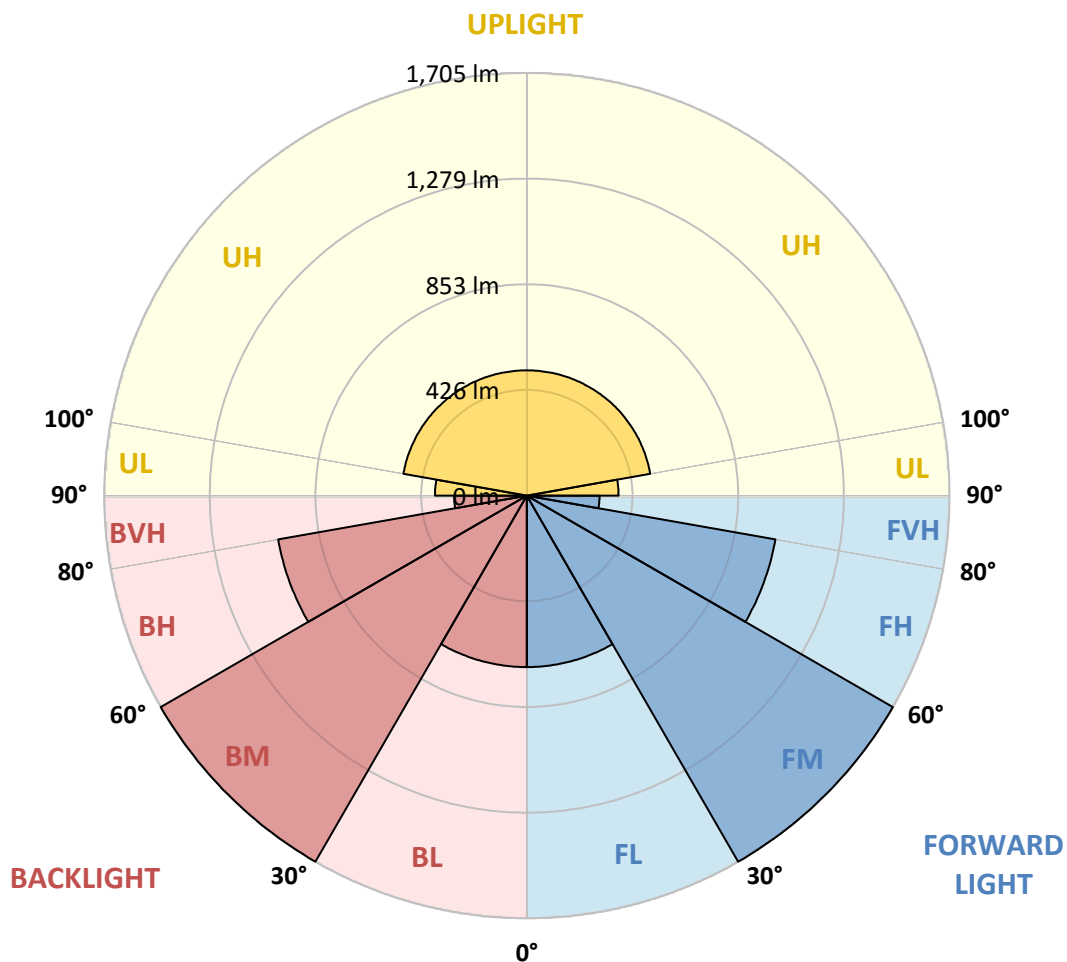
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	691.5	8.2			
FM	(30°-60°)	1705.1	20.2			
FH	(60°-80°)	1018.2	12.1			G1/1800
FVH	(80°-90°)	293.3	3.5			G3/500
BL	(0°-30°)	691.5	8.2	B2/1000		
BM	(30°-60°)	1705.1	20.2	B2/2500		
BH	(60°-80°)	1018.2	12.1	B3/2500		G1/1800
BVH	(80°-90°)	293.3	3.5			G3/500
UL	(90°-100°)	370.3	4.4		U3/500	
UH	(100°-180°)	505.4	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°	1709.5	1709.5	1709.5	1709.5	1709.5
2.5°	1728.4	1730.7	1720.9	1722.4	1719.4
5°	1734.5	1741.3	1754.9	1763.2	1755.7
7.5°	1743.6	1765.5	1779.9	1755.7	1739.8
10°	1764.7	1799.5	1767.0	1722.4	1708.0
12.5°	1769.3	1813.1	1758.7	1710.3	1733.7
15°	1774.6	1825.2	1736.8	1700.5	1593.9
17.5°	1771.5	1809.3	1751.1	1552.3	1467.6
20°	1764.7	1776.8	1698.2	1460.0	1417.7
22.5°	1734.5	1760.2	1606.7	1456.2	1450.2
25°	1690.6	1700.5	1515.2	1499.3	1494.1
27.5°	1653.6	1646.0	1441.1	1540.2	1550.0
30°	1606.0	1583.3	1441.9	1581.0	1540.2
32.5°	1556.8	1531.9	1433.6	1581.0	1555.3
35°	1502.4	1497.1	1457.0	1598.4	1601.4
37.5°	1435.1	1458.5	1460.8	1636.2	1592.3
40°	1379.9	1407.9	1476.7	1616.5	1615.0
42.5°	1314.9	1356.4	1526.6	1692.9	1667.2
45°	1251.3	1316.4	1577.2	1774.6	1670.2
47.5°	1189.3	1286.9	1649.8	1799.5	1611.2
50°	1107.7	1262.7	1721.6	1782.1	1540.9
52.5°	1038.9	1246.8	1712.6	1720.9	1498.6
55°	967.8	1215.0	1674.0	1654.3	1441.1
57.5°	893.0	1168.2	1600.7	1587.8	1320.1
60°	821.9	1103.1	1497.8	1475.9	1218.1
62.5°	740.2	1040.4	1416.9	1394.2	1169.7
65°	654.0	967.0	1323.9	1354.9	1147.8
67.5°	576.1	900.5	1267.2	1330.0	1146.2
70°	492.2	843.8	1211.3	1268.0	1096.3
72.5°	417.4	787.1	1122.0	1155.3	988.2
75°	341.0	715.3	1013.2	1055.5	903.5
77.5°	269.9	635.1	912.6	964.0	832.5
80°	203.4	547.4	821.1	874.8	747.8
82.5°	144.4	480.9	743.2	789.4	676.7
85°	99.0	408.3	657.8	722.8	601.1
87.5°	60.5	350.1	580.7	645.7	538.3
90°	39.3	285.0	499.8	570.1	484.7
92.5°	37.0	248.0	436.3	514.1	432.5
95°	37.8	229.9	406.0	470.3	393.9
97.5°	38.6	213.2	384.1	452.1	376.5
100°	37.8	201.9	374.3	438.5	365.2
102.5°	37.0	186.0	361.4	412.1	341.8
105°	35.5	161.8	335.0	376.5	309.2
107.5°	34.0	145.2	294.1	330.4	275.2
110°	32.5	138.4	261.6	286.6	243.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.8	130.8	242.0	262.4	223.8
115°	30.2	120.2	223.8	242.7	207.2
117.5°	28.0	107.4	202.6	220.8	189.0
120°	25.0	93.0	182.2	200.4	172.4
122.5°	22.7	79.4	160.3	177.7	155.8
125°	20.4	66.5	139.1	154.2	137.6
127.5°	18.9	53.7	121.7	133.8	122.5
130°	17.4	44.6	106.6	118.0	109.6
132.5°	16.6	37.8	93.0	106.6	100.6
135°	15.1	31.0	80.9	99.0	94.5
137.5°	14.4	25.7	70.3	90.7	88.5
140°	13.6	21.2	61.2	83.9	83.2
142.5°	13.6	16.6	52.9	77.9	77.9
145°	12.9	15.1	46.1	71.1	71.8
147.5°	12.9	14.4	40.1	64.3	65.8
150°	12.1	13.6	33.3	55.2	58.2
152.5°	12.1	13.6	26.5	46.1	49.1
155°	11.3	12.9	18.9	36.3	40.1
157.5°	11.3	12.1	11.3	25.7	28.7
160°	10.6	12.1	8.3	13.6	15.9
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)