



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: P212951

Luminaire Tested: **FPS-4-LD4-3LO-50-OPL**

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: P212951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35484-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-OPL
Description: FPS 4' LED FIXTURE WITH OPAL 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: 8210.7 lumens
Efficiency: N/A
Efficacy: 116.5 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: B2 - U4 - G3

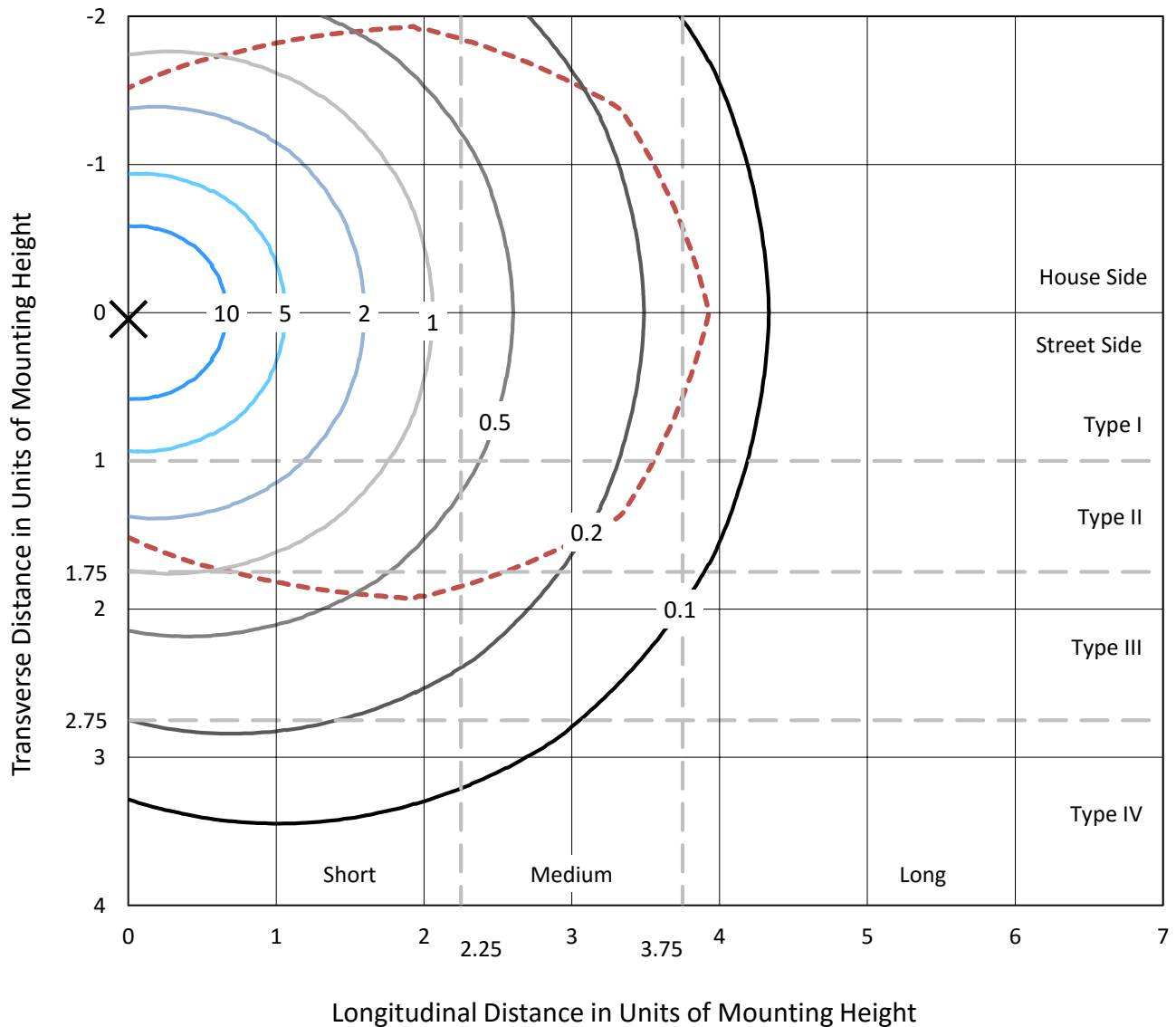
Input Watts (W): 70.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

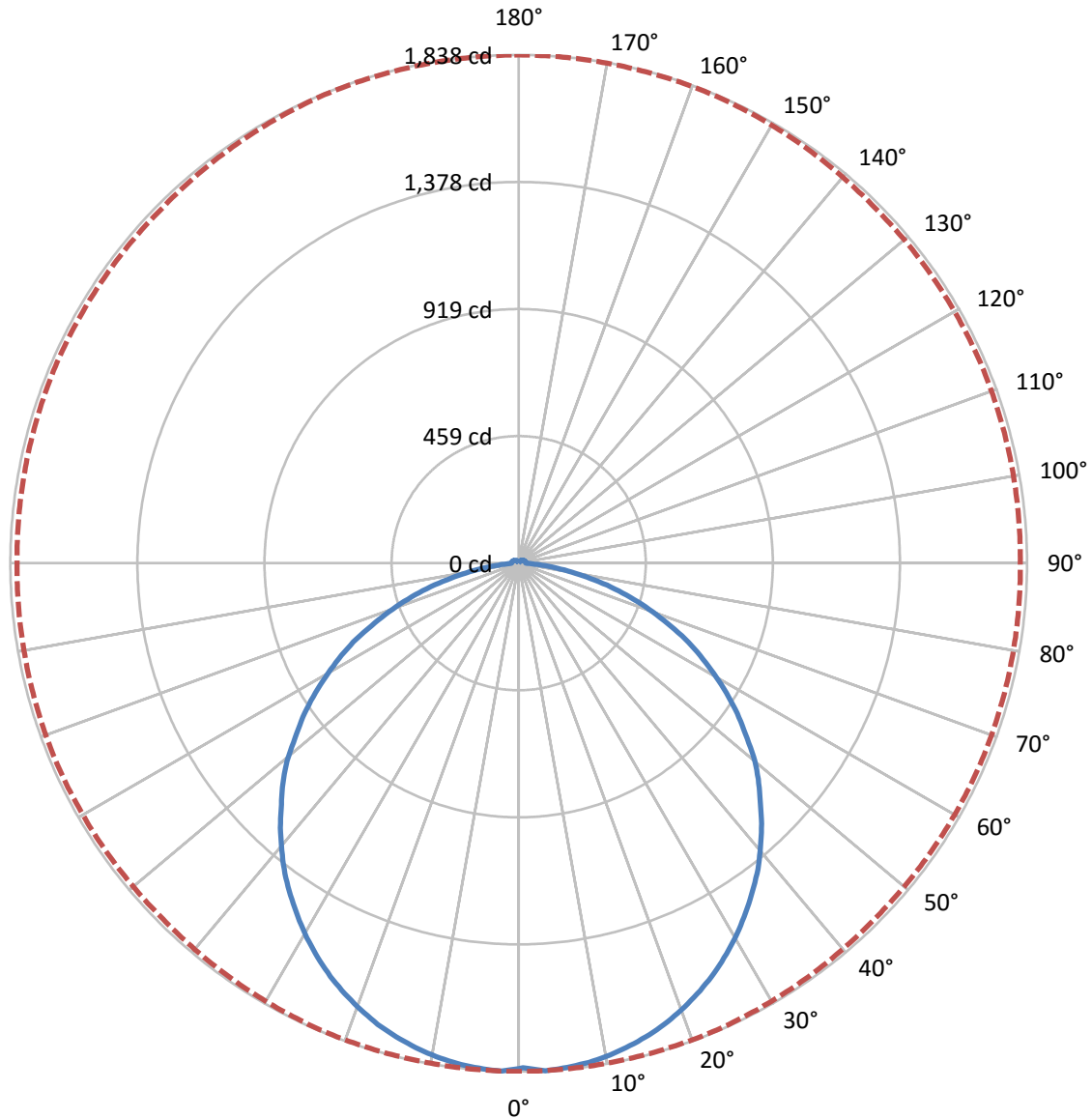


Based on 10 foot mounting height. Maximum calculated value = 18.2 fc
 Type V - Short - Non-Cutoff



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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical



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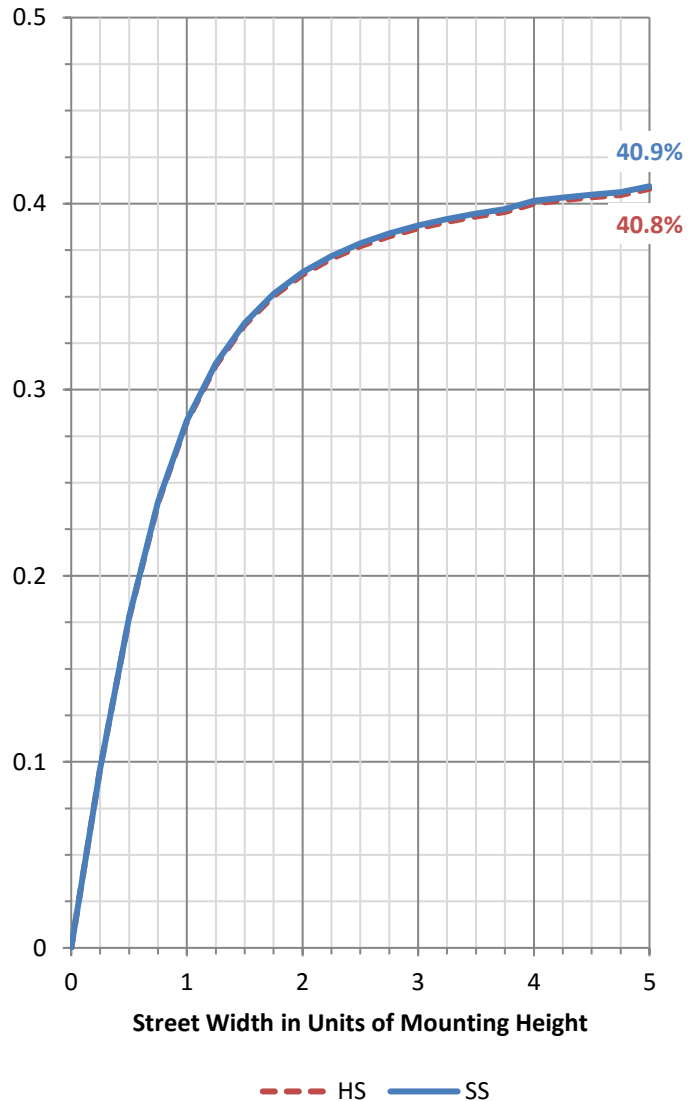
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3469.5	635.9	4105.3
	% Fixture	42.3	7.7	50.0
Street Side	Lumens	3469.5	635.9	4105.3
	% Fixture	42.3	7.7	50.0
Total	Lumens	6938.9	1271.7	8210.7
	% Fixture	84.5	15.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	2.1
10°-20°	507.6	6.2
20°-30°	796.3	9.7
30°-40°	1004.9	12.2
40°-50°	1109.5	13.5
50°-60°	1101.9	13.4
60°-70°	975.9	11.9
70°-80°	758.9	9.2
80°-90°	510.2	6.2
90°-100°	374.6	4.6
100°-110°	315.7	3.8
110°-120°	247.7	3.0
120°-130°	174.3	2.1
130°-140°	102.8	1.3
140°-150°	46.2	0.6
150°-160°	10.3	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	6938.9	84.5
0°-180°	8210.7	100.0





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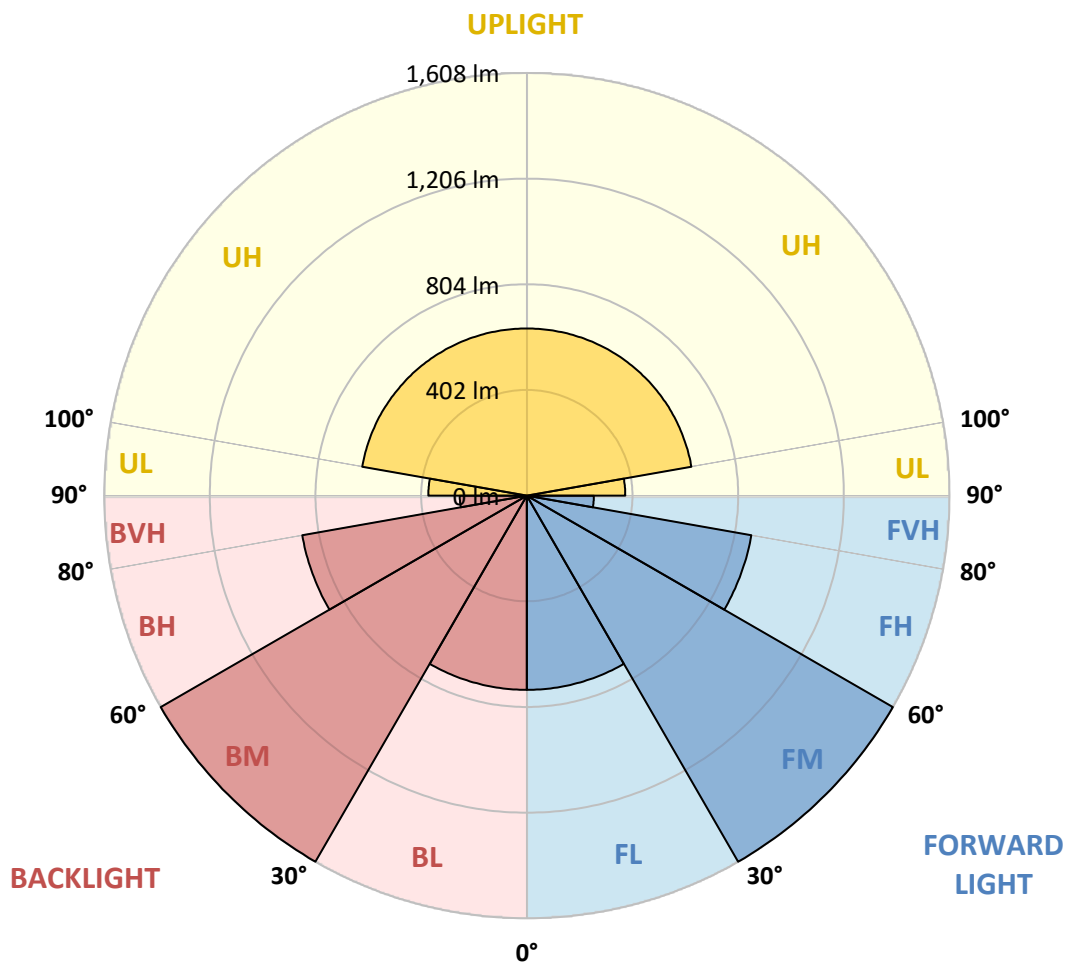
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.8	9.0			
FM (30°-60°)	1608.2	19.6			
FH (60°-80°)	867.4	10.6			G1/1800
FVH (80°-90°)	255.1	3.1			G3/500
BL (0°-30°)	738.8	9.0	B2/1000		
BM (30°-60°)	1608.2	19.6	B2/2500		
BH (60°-80°)	867.4	10.6	B2/1000		G1/1800
BVH (80°-90°)	255.1	3.1			G3/500
UL (90°-100°)	374.6	4.6		U3/500	
UH (100°-180°)	635.9	7.7		U4/1000	

BUG Rating: B2-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1824.5	1824.5	1824.5	1824.5	1824.5
2.5°	1837.6	1833.4	1819.0	1819.7	1813.5
5°	1831.4	1829.3	1817.6	1821.8	1816.3
7.5°	1822.4	1821.1	1814.9	1822.4	1818.3
10°	1808.7	1810.8	1810.1	1822.4	1819.7
12.5°	1790.1	1797.0	1803.2	1819.0	1819.0
15°	1768.8	1779.8	1792.9	1814.2	1816.9
17.5°	1743.4	1758.5	1780.5	1808.7	1814.2
20°	1712.5	1733.1	1764.7	1801.1	1810.1
22.5°	1678.8	1706.3	1748.2	1793.6	1804.6
25°	1641.7	1674.7	1727.6	1781.9	1795.6
27.5°	1599.8	1641.7	1704.9	1766.1	1781.9
30°	1555.8	1603.9	1680.2	1746.2	1760.6
32.5°	1506.3	1564.1	1651.3	1720.7	1739.3
35°	1456.2	1521.4	1619.7	1694.6	1711.1
37.5°	1404.6	1476.1	1584.7	1663.7	1680.9
40°	1346.2	1428.7	1548.2	1628.0	1647.2
42.5°	1287.8	1376.4	1507.7	1591.5	1612.8
45°	1223.9	1324.2	1467.2	1552.4	1571.6
47.5°	1165.5	1271.3	1424.6	1515.3	1534.5
50°	1101.6	1215.6	1379.9	1473.3	1492.6
52.5°	1025.3	1160.7	1329.0	1426.6	1445.9
55°	958.6	1101.6	1274.7	1376.4	1401.9
57.5°	885.8	1036.3	1219.8	1322.8	1344.8
60°	810.2	973.8	1158.6	1267.2	1289.9
62.5°	736.7	905.0	1097.4	1208.8	1234.9
65°	662.5	836.3	1037.0	1151.0	1178.5
67.5°	578.6	770.3	971.7	1089.9	1120.1
70°	500.3	700.3	909.2	1030.1	1058.3
72.5°	421.2	628.8	843.2	966.2	993.7
75°	345.0	561.4	773.8	898.2	930.5
77.5°	265.3	494.1	707.1	836.3	866.6
80°	193.8	423.3	639.1	767.6	799.2
82.5°	128.5	358.0	574.5	702.3	736.7
85°	73.5	298.2	512.6	644.6	680.3
87.5°	38.5	246.0	468.7	604.0	641.8
90°	26.1	213.7	430.2	567.6	604.7
92.5°	26.1	195.9	394.4	527.1	564.9
95°	26.1	189.0	382.1	501.7	535.3
97.5°	25.4	182.1	372.5	491.3	525.0
100°	25.4	173.9	362.2	479.0	512.6
102.5°	24.7	164.9	349.8	464.5	496.8
105°	24.1	155.3	336.0	449.4	482.4
107.5°	23.4	146.4	323.0	433.6	465.9
110°	22.7	137.4	308.5	415.8	449.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	22.0	127.8	294.8	399.3	432.2
115°	20.6	118.2	280.4	382.1	414.4
117.5°	19.9	108.6	265.3	364.2	395.8
120°	19.2	96.2	250.1	346.3	376.6
122.5°	18.6	85.9	234.3	327.1	357.3
125°	17.9	74.2	218.5	307.2	336.0
127.5°	17.2	62.5	200.0	287.2	314.0
130°	15.8	51.5	181.4	265.9	292.7
132.5°	15.1	41.9	161.5	244.6	270.8
135°	14.4	31.6	140.2	223.3	248.8
137.5°	13.1	22.7	120.9	202.0	225.4
140°	12.4	14.4	102.4	179.4	200.7
142.5°	11.0	8.9	83.8	158.1	178.7
145°	10.3	7.6	66.0	134.0	153.2
147.5°	8.9	6.2	48.8	110.0	127.8
150°	8.2	5.5	32.3	84.5	103.1
152.5°	7.6	4.8	18.6	60.5	77.7
155°	6.2	3.4	5.5	37.8	53.6
157.5°	5.5	2.1	0.0	17.9	29.5
160°	4.1	1.4	0.0	2.7	6.9
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)