



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: P35484-R3

Luminaire Tested: **FPS-4-LD4-3HI-30-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: 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-LD4-3HI-30-OPL
Description: FPS 4' LED FIXTURE WITH OPAL LENS
Light Source: (252) EATON 3000K 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: 11948.1 lumens
Efficiency: N/A
Efficacy: 89.8 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

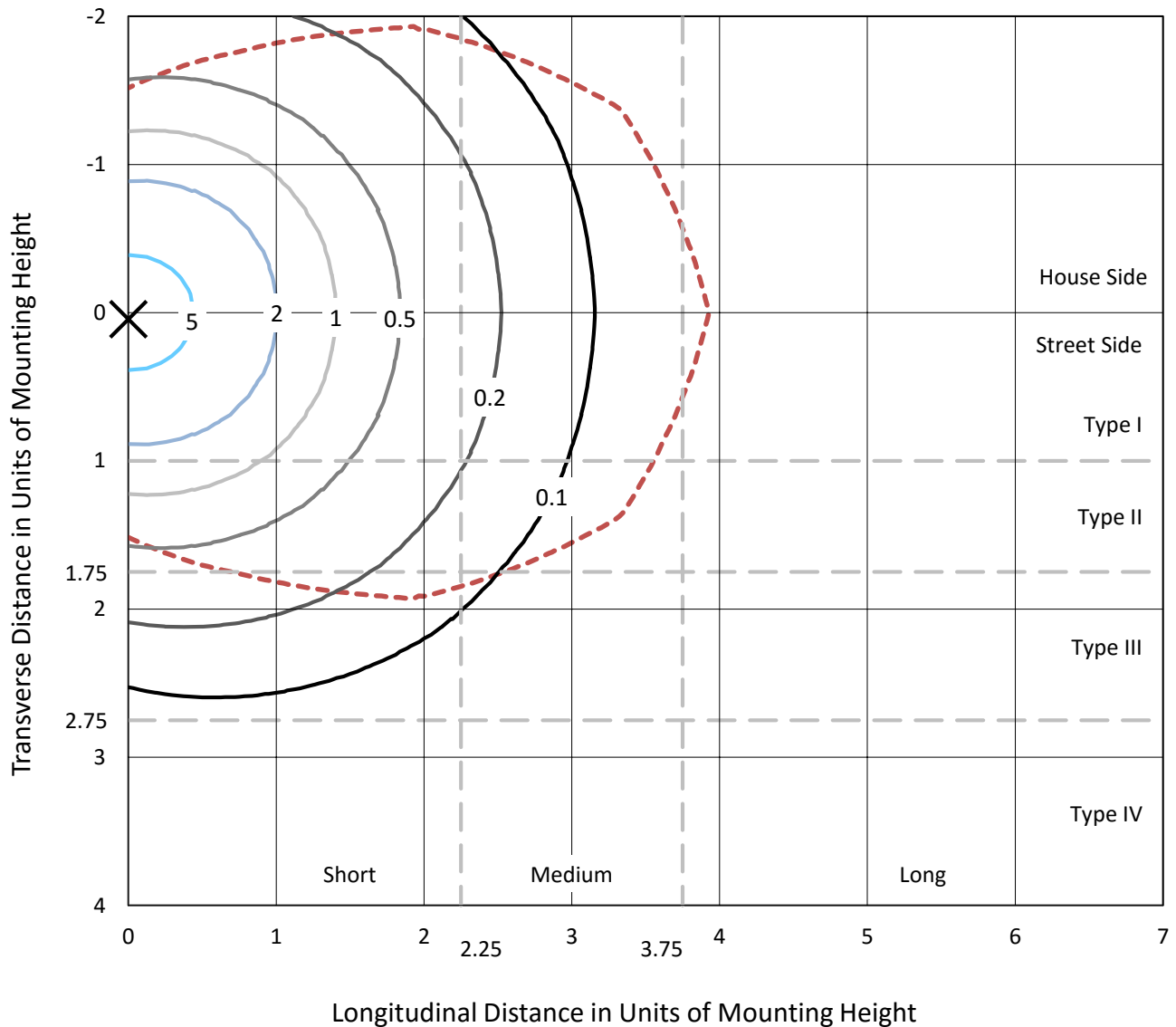
Input Watts (W): 133.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

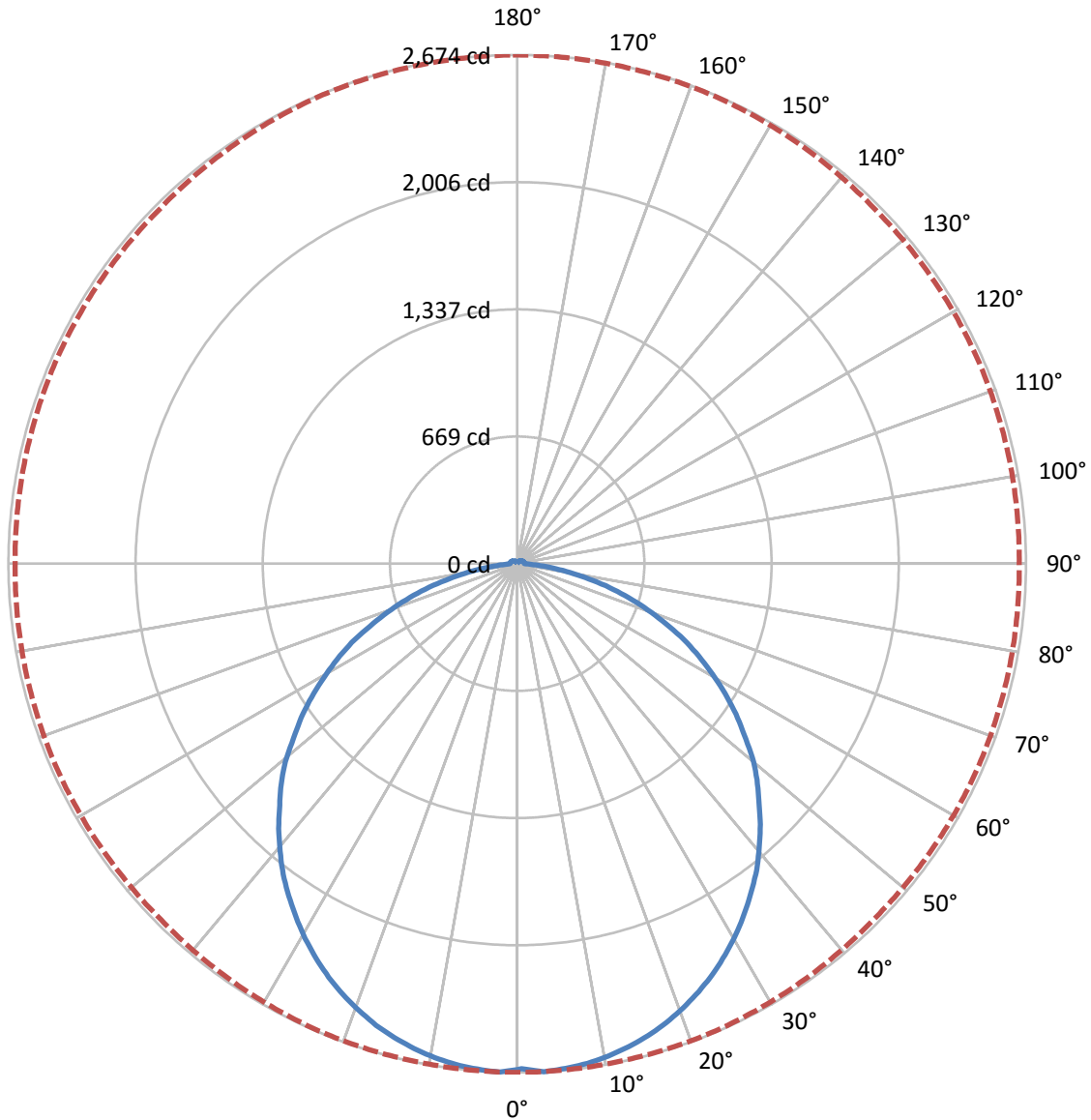


Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - Non-Cutoff



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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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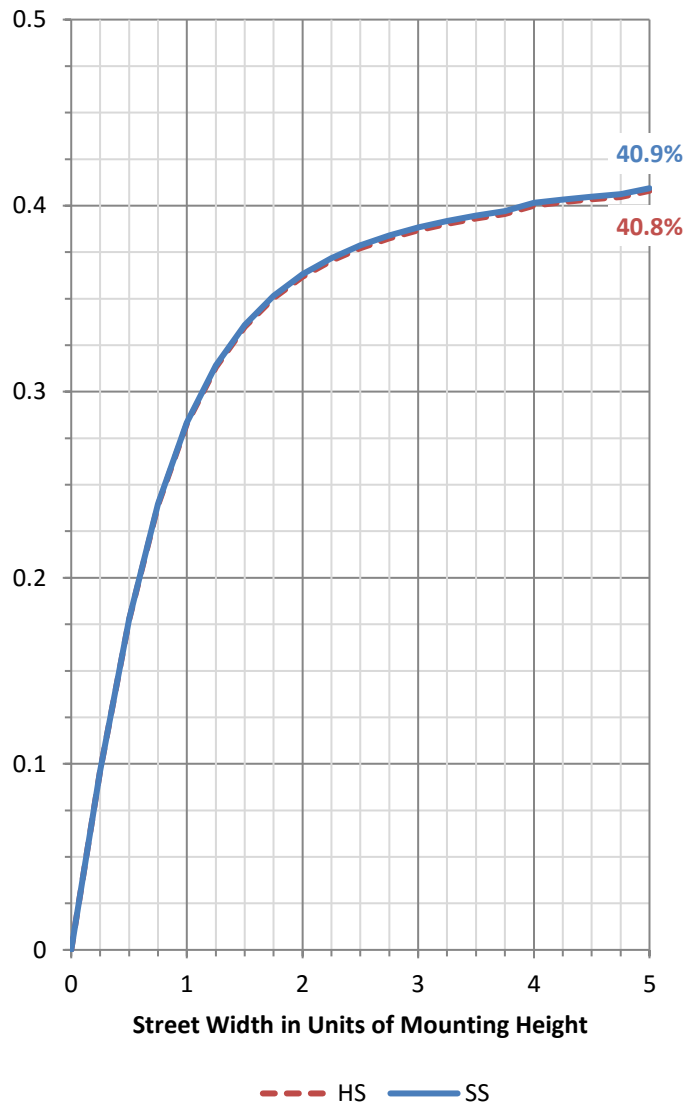
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5048.8	925.3	5974.1
	% Fixture	42.3	7.7	50.0
Street Side	Lumens	5048.8	925.3	5974.1
	% Fixture	42.3	7.7	50.0
Total	Lumens	10097.5	1850.6	11948.1
	% Fixture	84.5	15.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.8	2.1
10°-20°	738.6	6.2
20°-30°	1158.8	9.7
30°-40°	1462.4	12.2
40°-50°	1614.6	13.5
50°-60°	1603.5	13.4
60°-70°	1420.2	11.9
70°-80°	1104.3	9.2
80°-90°	742.4	6.2
90°-100°	545.2	4.6
100°-110°	459.5	3.8
110°-120°	360.4	3.0
120°-130°	253.6	2.1
130°-140°	149.6	1.3
140°-150°	67.2	0.6
150°-160°	14.9	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-90°	10097.5	84.5
0°-180°	11948.1	100.0





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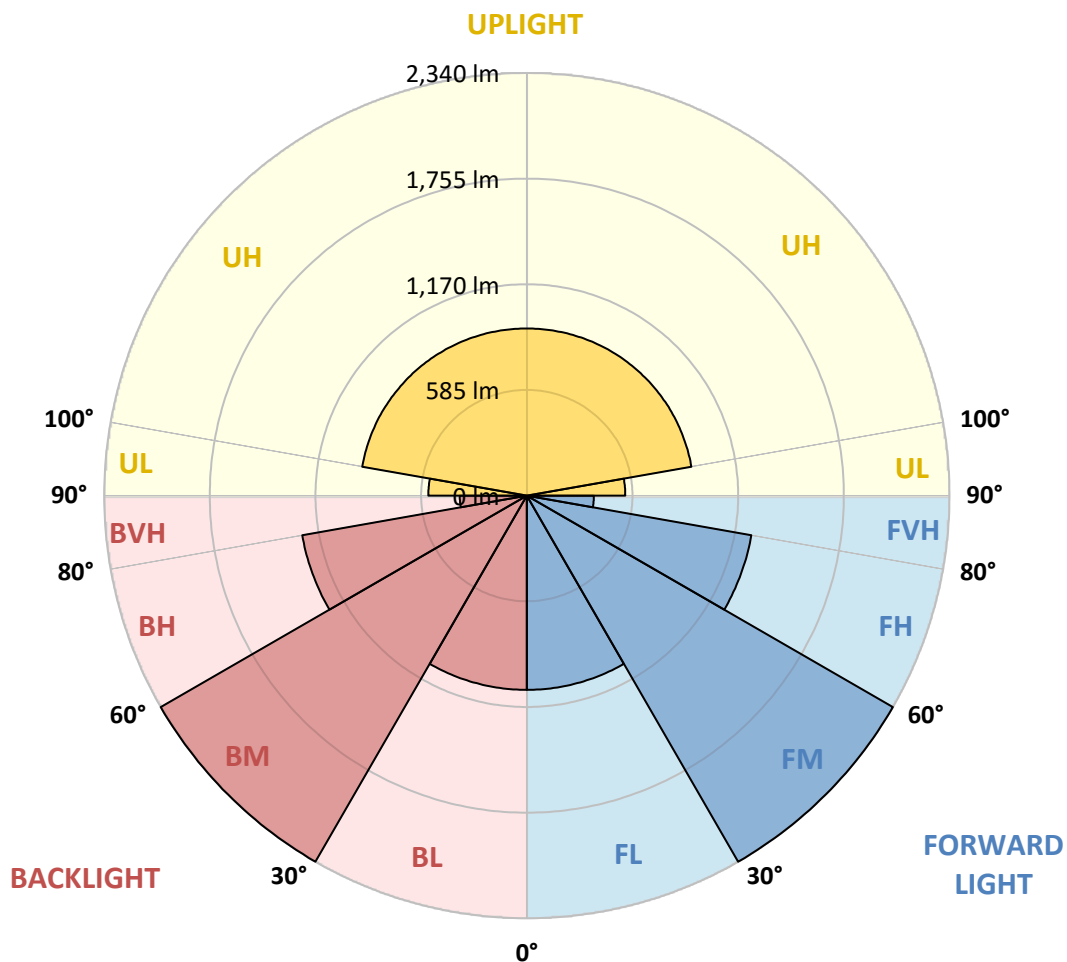
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1075.1	9.0			
FM	(30°-60°)	2340.2	19.6			
FH	(60°-80°)	1262.2	10.6			G1/1800
FVH	(80°-90°)	371.2	3.1			G3/500
BL	(0°-30°)	1075.1	9.0	B3/2500		
BM	(30°-60°)	2340.2	19.6	B2/2500		
BH	(60°-80°)	1262.2	10.6	B3/2500		G1/1800
BVH	(80°-90°)	371.2	3.1			G3/500
UL	(90°-100°)	545.2	4.6		U4/1000	
UH	(100°-180°)	925.3	7.7		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°	2655	2655	2655	2655	2655
2.5°	2674	2668	2647	2648	2639
5°	2665	2662	2645	2651	2643
7.5°	2652	2650	2641	2652	2646
10°	2632	2635	2634	2652	2648
12.5°	2605	2615	2624	2647	2647
15°	2574	2590	2609	2640	2644
17.5°	2537	2559	2591	2632	2640
20°	2492	2522	2568	2621	2634
22.5°	2443	2483	2544	2610	2626
25°	2389	2437	2514	2593	2613
27.5°	2328	2389	2481	2570	2593
30°	2264	2334	2445	2541	2562
32.5°	2192	2276	2403	2504	2531
35°	2119	2214	2357	2466	2490
37.5°	2044	2148	2306	2421	2446
40°	1959	2079	2253	2369	2397
42.5°	1874	2003	2194	2316	2347
45°	1781	1927	2135	2259	2287
47.5°	1696	1850	2073	2205	2233
50°	1603	1769	2008	2144	2172
52.5°	1492	1689	1934	2076	2104
55°	1395	1603	1855	2003	2040
57.5°	1289	1508	1775	1925	1957
60°	1179	1417	1686	1844	1877
62.5°	1072	1317	1597	1759	1797
65°	964	1217	1509	1675	1715
67.5°	842	1121	1414	1586	1630
70°	728	1019	1323	1499	1540
72.5°	613	915	1227	1406	1446
75°	502	817	1126	1307	1354
77.5°	386	719	1029	1217	1261
80°	282	616	930	1117	1163
82.5°	187	521	836	1022	1072
85°	107	434	746	938	990
87.5°	56	358	682	879	934
90°	38	311	626	826	880
92.5°	38	285	574	767	822
95°	38	275	556	730	779
97.5°	37	265	542	715	764
100°	37	253	527	697	746
102.5°	36	240	509	676	723
105°	35	226	489	654	702
107.5°	34	213	470	631	678
110°	33	200	449	605	654



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	32	186	429	581	629
115°	30	172	408	556	603
117.5°	29	158	386	530	576
120°	28	140	364	504	548
122.5°	27	125	341	476	520
125°	26	108	318	447	489
127.5°	25	91	291	418	457
130°	23	75	264	387	426
132.5°	22	61	235	356	394
135°	21	46	204	325	362
137.5°	19	33	176	294	328
140°	18	21	149	261	292
142.5°	16	13	122	230	260
145°	15	11	96	195	223
147.5°	13	9	71	160	186
150°	12	8	47	123	150
152.5°	11	7	27	88	113
155°	9	5	8	55	78
157.5°	8	3	0	26	43
160°	6	2	0	4	10
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)