



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: P35664

Luminaire Tested: **FPS-4-LD4-1STD-30-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: P35664
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: EATON (FORMERLY COOPER LIGHTING)
Product Line: FAIL-SAFE
Catalog Number: FPS-4-LD4-1STD-30-CLR
Description: FPS 4' LED FIXTURE WITH CLEAR LENS
Light Source: (84) 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: 3729 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 4' x H: 0.33')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B1 - U3 - G1

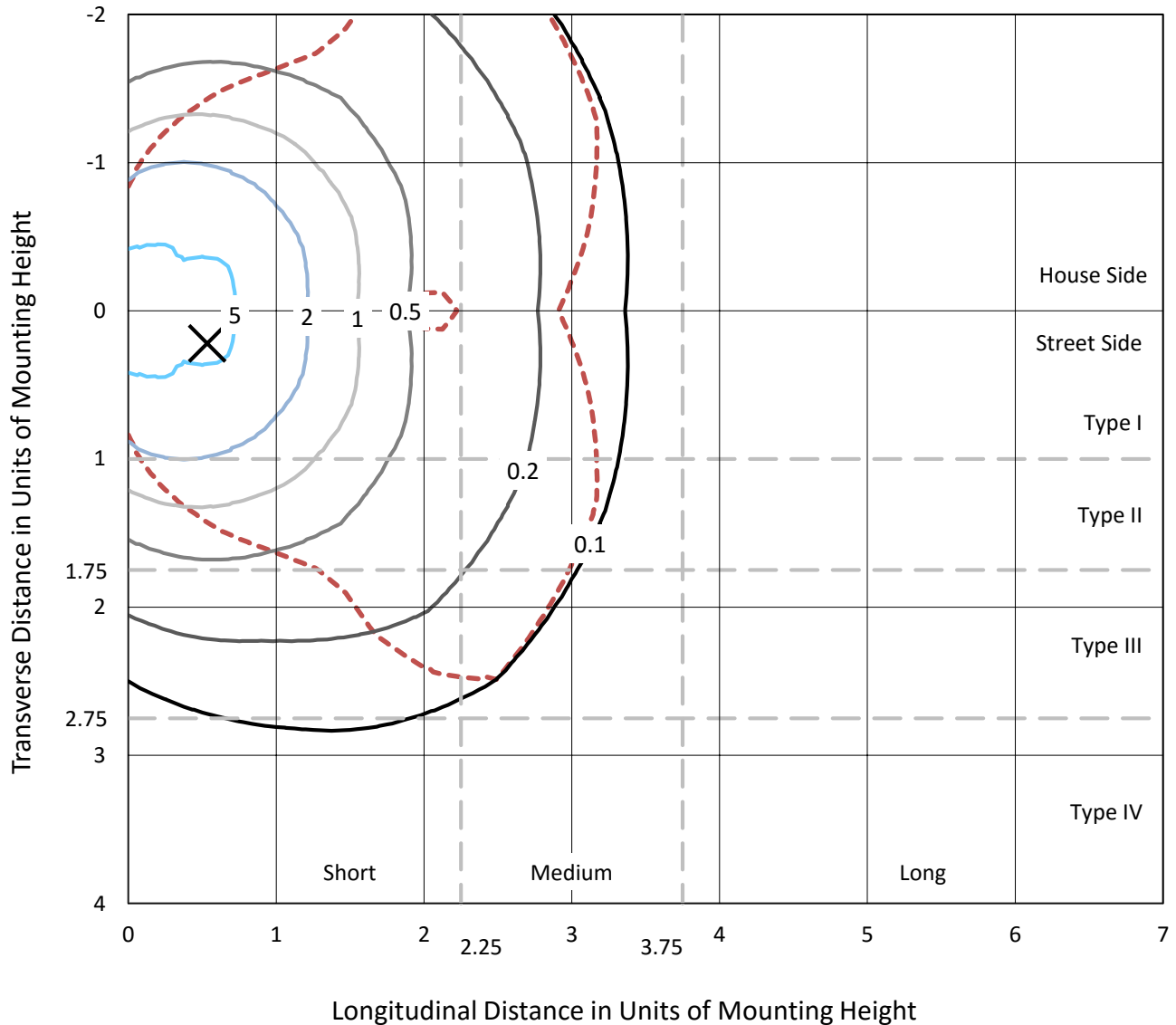
Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

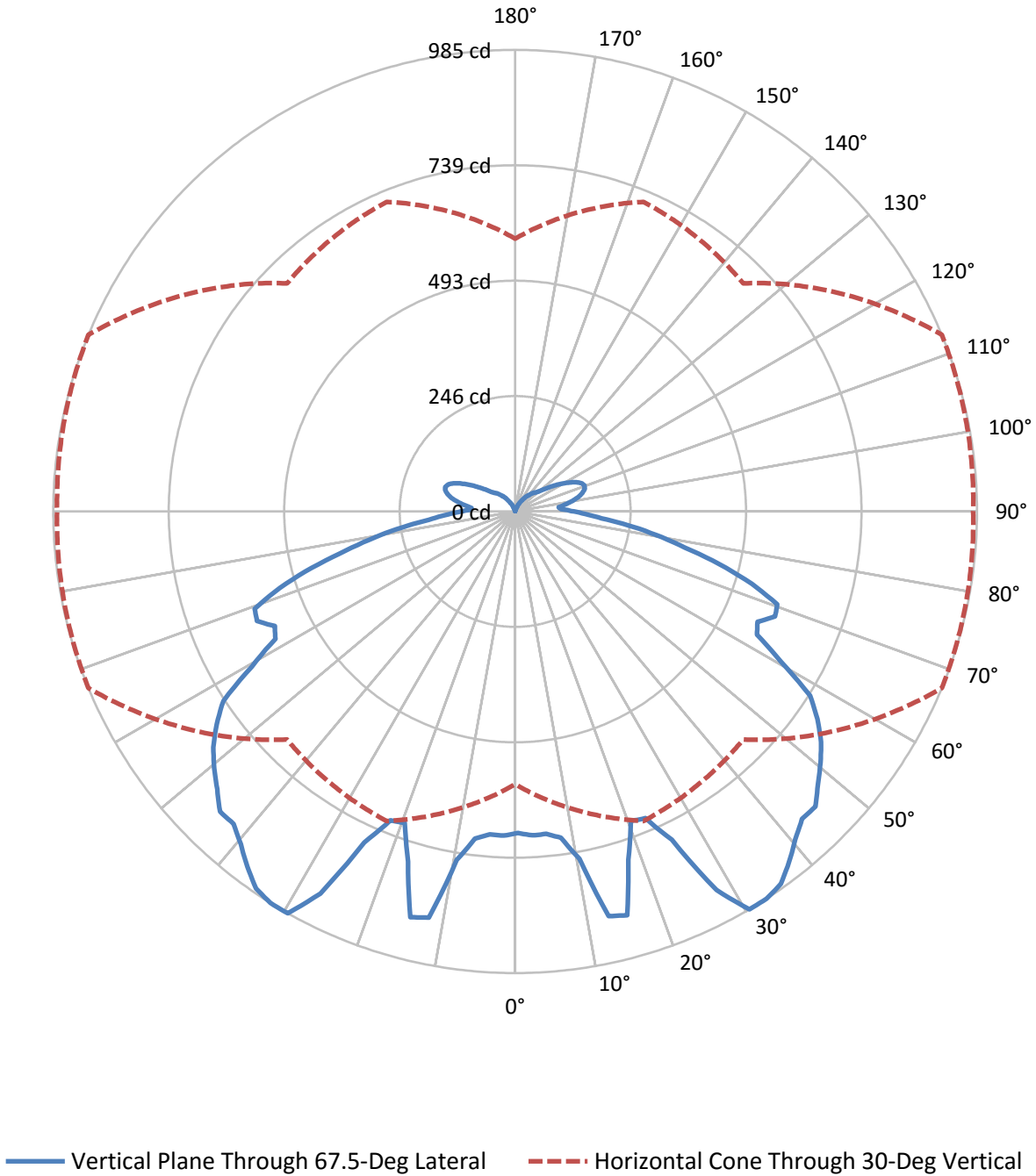


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type V - Short - Semi-Cutoff



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Luminous Intensity Polar Plot





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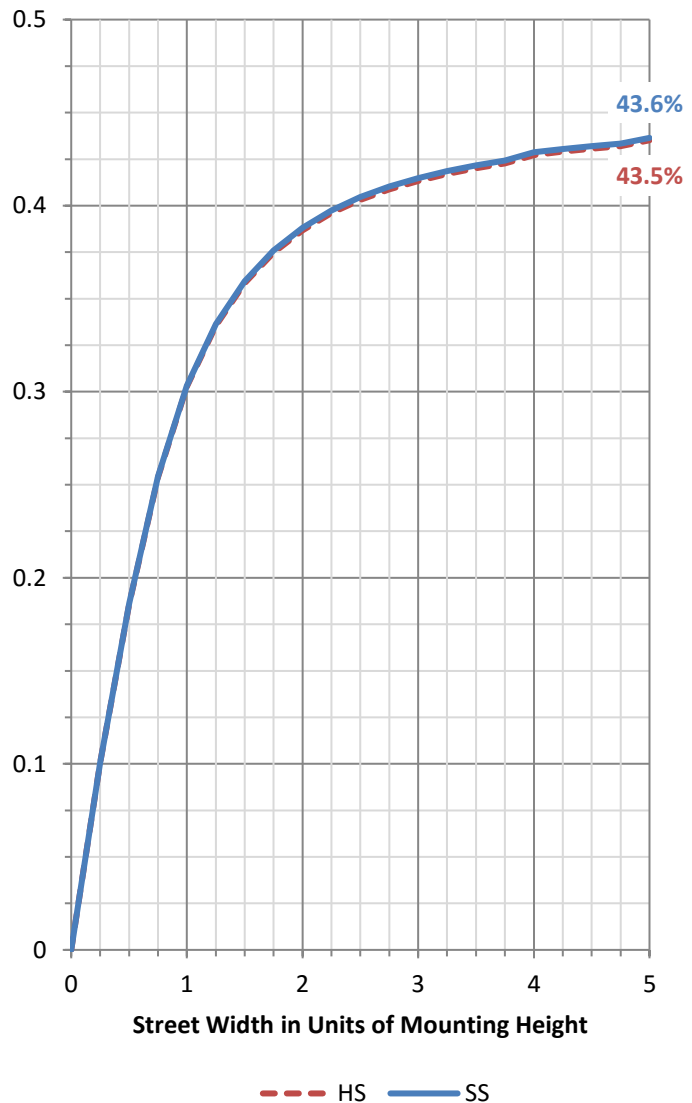
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1663.7	200.8	1864.5
	% Fixture	44.6	5.4	50.0
Street Side	Lumens	1663.7	200.8	1864.5
	% Fixture	44.6	5.4	50.0
Total	Lumens	3327.3	401.7	3729.0
	% Fixture	89.2	10.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	1.8
10°-20°	216.0	5.8
20°-30°	347.1	9.3
30°-40°	507.1	13.6
40°-50°	589.4	15.8
50°-60°	561.0	15.0
60°-70°	475.4	12.7
70°-80°	387.3	10.4
80°-90°	177.2	4.8
90°-100°	85.0	2.3
100°-110°	112.4	3.0
110°-120°	99.5	2.7
120°-130°	56.0	1.5
130°-140°	28.5	0.8
140°-150°	13.7	0.4
150°-160°	5.1	0.1
160°-170°	1.2	0.0
170°-180°	0.3	0.0
0°-90°	3327.3	89.2
0°-180°	3729.0	100.0





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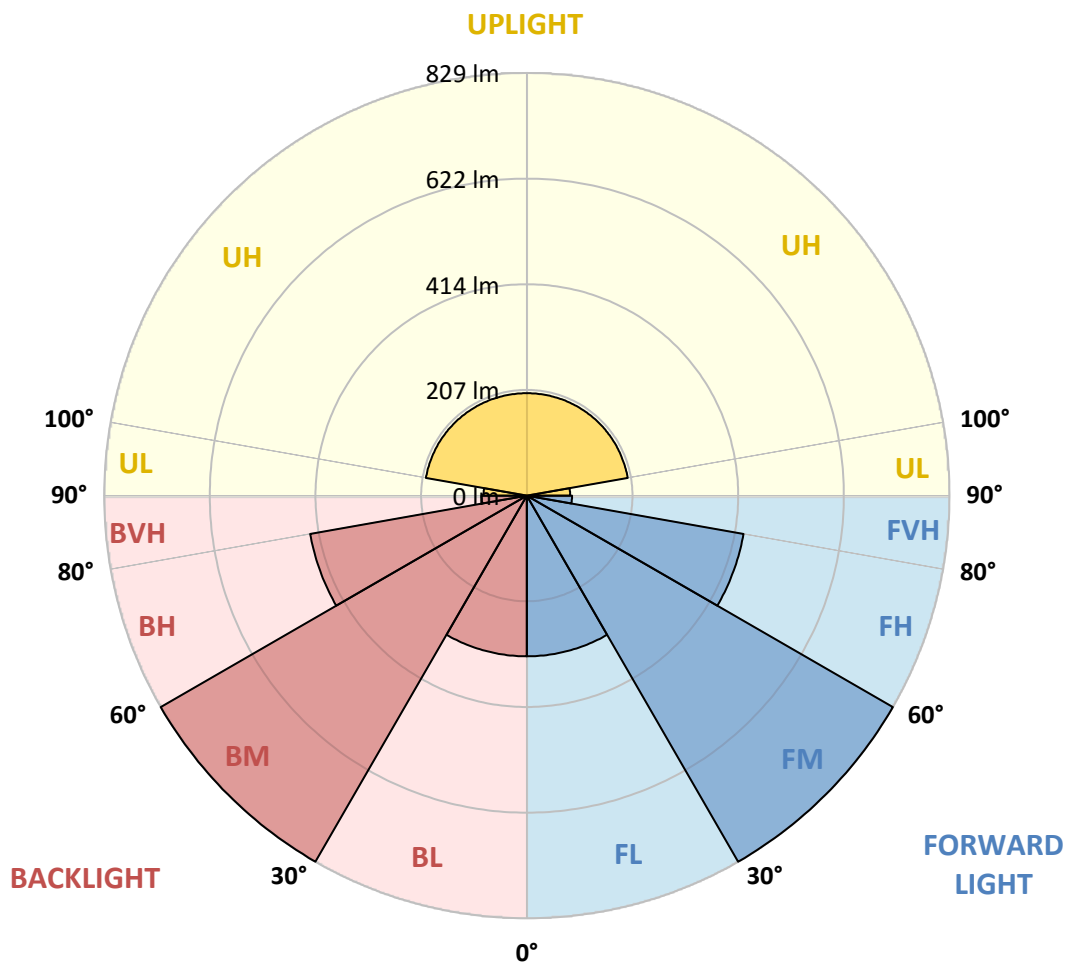
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.0	8.4			
FM (30°-60°)	828.8	22.2			
FH (60°-80°)	431.3	11.6			G0/660
FVH (80°-90°)	88.6	2.4			G1/100
BL (0°-30°)	315.0	8.4	B1/500		
BM (30°-60°)	828.8	22.2	B1/1000		
BH (60°-80°)	431.3	11.6	B1/500		G0/660
BVH (80°-90°)	88.6	2.4			G1/100
UL (90°-100°)	85.0	2.3		U3/500	
UH (100°-180°)	200.8	5.4		U3/500	

BUG Rating: B1-U3-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	686	686	686	686	686
2.5°	692	691	690	692	690
5°	691	696	692	691	687
7.5°	685	695	690	703	705
10°	685	694	703	754	787
12.5°	679	686	734	886	902
15°	669	680	822	894	831
17.5°	662	681	892	781	711
20°	653	682	876	705	697
22.5°	638	684	799	711	748
25°	620	687	717	776	887
27.5°	602	698	688	915	978
30°	582	715	688	985	977
32.5°	560	739	712	985	973
35°	541	756	764	976	946
37.5°	515	756	830	949	926
40°	489	752	872	920	935
42.5°	463	724	860	897	907
45°	440	683	838	898	873
47.5°	412	643	811	869	805
50°	389	605	768	844	778
52.5°	360	569	737	817	731
55°	332	531	705	782	693
57.5°	304	497	672	742	605
60°	278	459	627	652	505
62.5°	253	419	593	579	473
65°	227	384	559	568	476
67.5°	202	353	555	598	518
70°	178	337	568	593	513
72.5°	153	329	536	528	456
75°	128	314	465	450	388
77.5°	105	274	393	370	323
80°	80	225	323	305	265
82.5°	60	177	265	243	214
85°	38	134	198	185	164
87.5°	23	94	152	149	132
90°	12	63	112	120	106
92.5°	14	51	84	98	89
95°	16	53	85	93	85
97.5°	18	58	97	108	97
100°	18	65	113	124	110
102.5°	18	71	126	139	122
105°	18	75	136	149	132
107.5°	17	76	142	156	138
110°	16	74	142	158	140



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15	70	137	154	136
115°	14	64	128	145	127
117.5°	13	56	116	132	116
120°	12	48	102	117	104
122.5°	11	41	89	103	92
125°	10	34	77	88	80
127.5°	9	28	67	76	71
130°	8	23	59	65	62
132.5°	8	19	53	59	56
135°	7	15	45	56	54
137.5°	7	13	37	50	51
140°	7	10	31	44	46
142.5°	6	8	26	41	42
145°	6	7	22	35	37
147.5°	6	7	18	29	32
150°	6	6	15	24	27
152.5°	6	6	12	20	23
155°	6	6	9	16	19
157.5°	5	6	6	11	14
160°	5	6	5	7	10
162.5°	5	5	4	3	4
165°	5	5	4	2	1
167.5°	5	5	4	2	0
170°	5	5	4	2	0
172.5°	5	5	4	2	0
175°	5	5	4	1	0
177.5°	5	5	4	1	0
180°	3	3	3	3	3

(END OF REPORT)