



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: P35494-R3

Luminaire Tested: **FPS-4-LD4-1HI-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: P35494-R3
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: EATON (FORMERLY COOPER LIGHTING)
Product Line: FAIL-SAFE
Catalog Number: FPS-4-LD4-1HI-30-OPL
Description: FPS 4' LED FIXTURE WITH OPAL 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: 4006.3 lumens
Efficiency: N/A
Efficacy: 90.4 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: B1 - U3 - G1

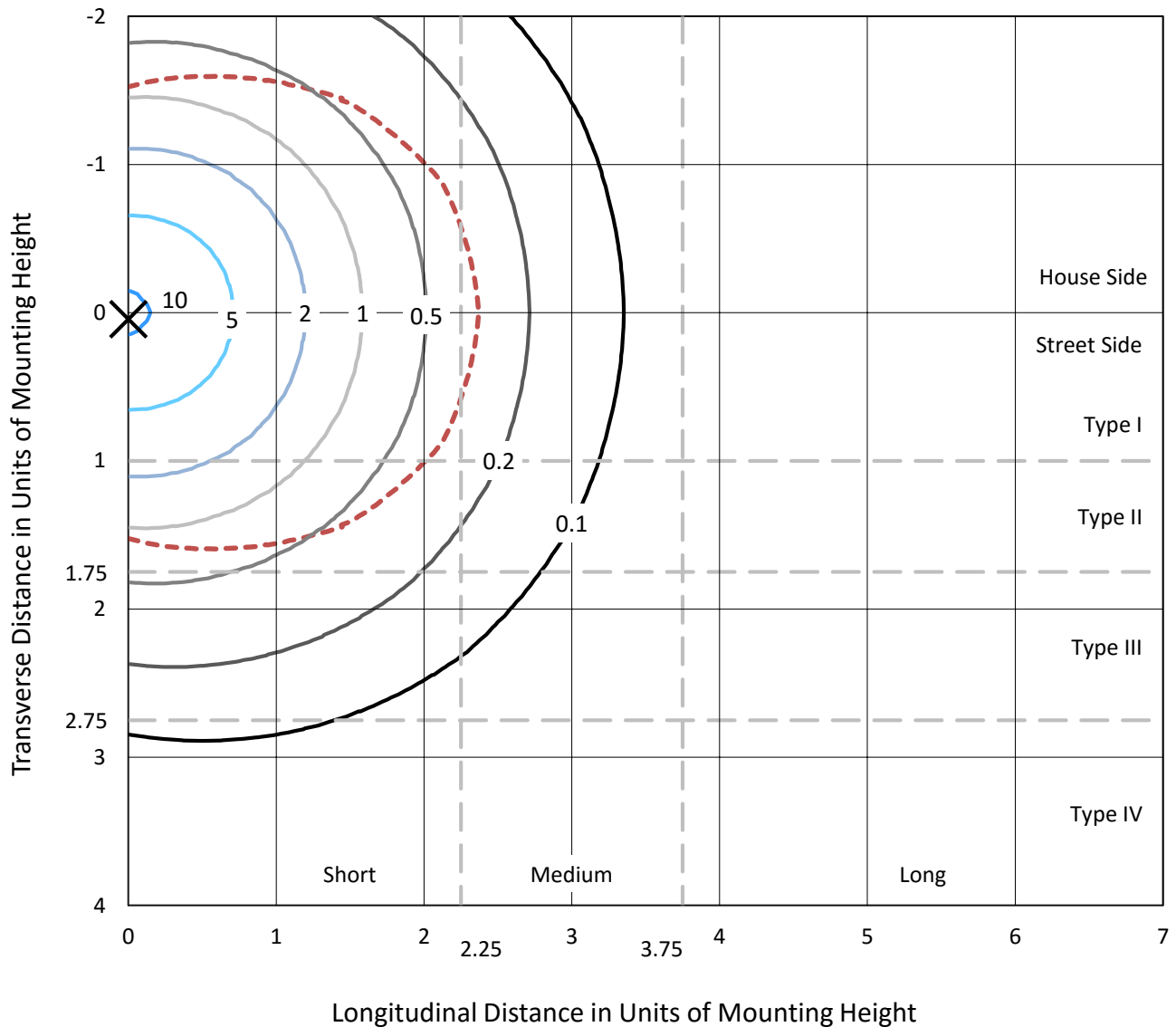
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

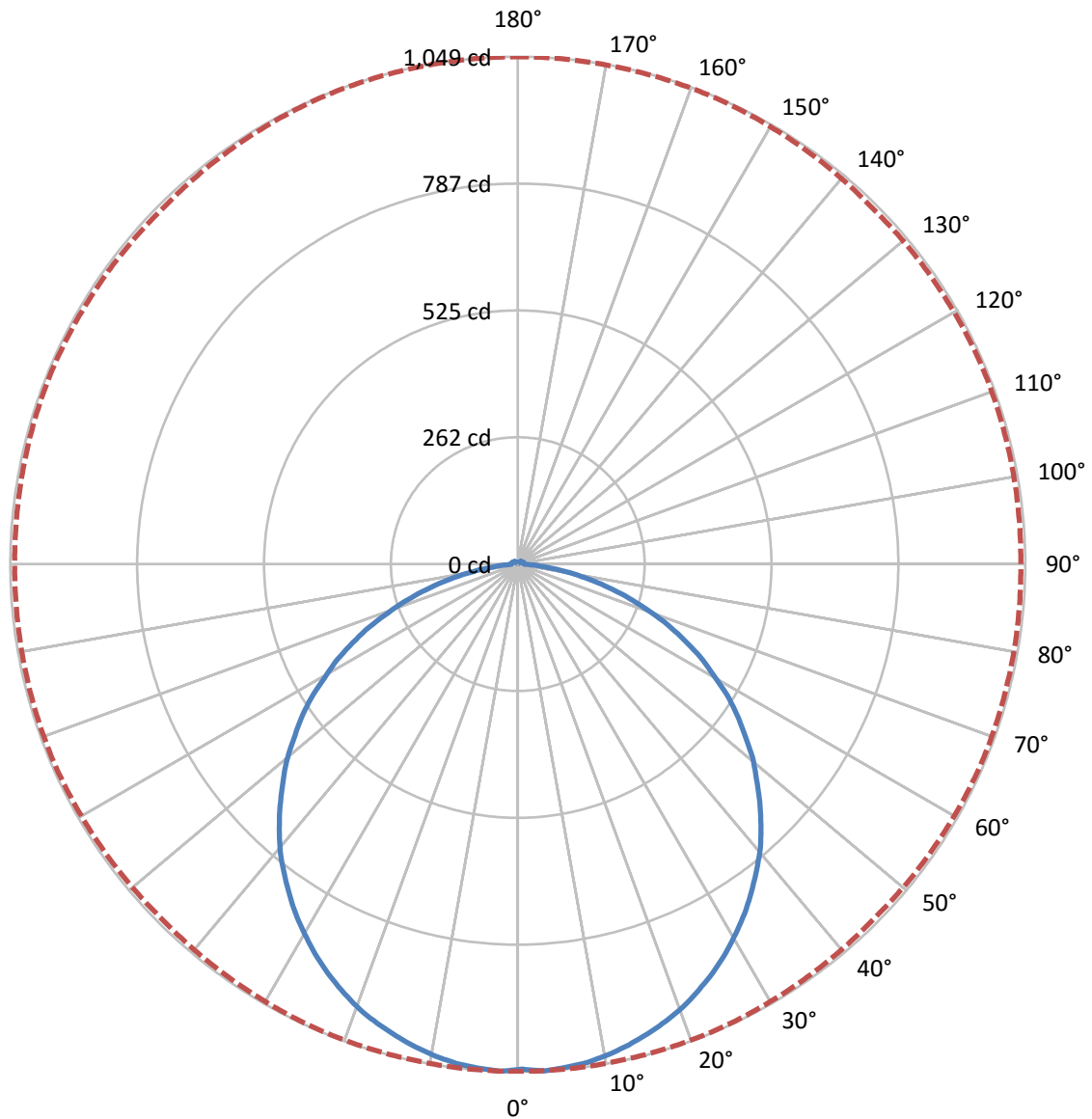


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type V - Short - Non-Cutoff



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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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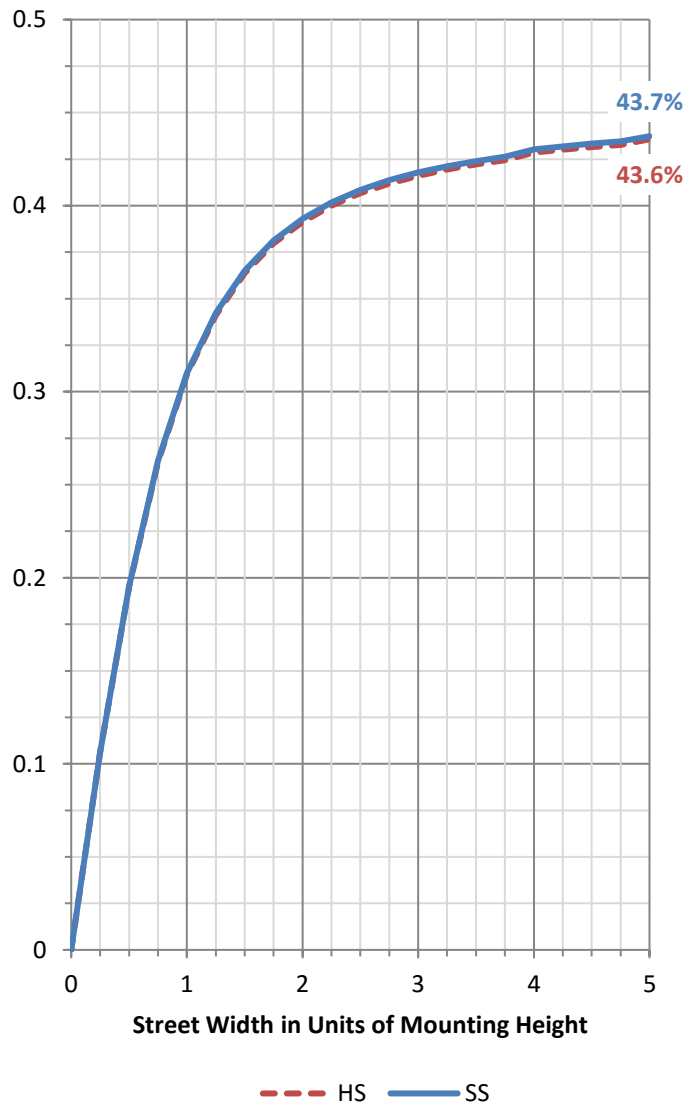
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1792.0	211.2	2003.1
	% Fixture	44.7	5.3	50.0
Street Side	Lumens	1792.0	211.2	2003.1
	% Fixture	44.7	5.3	50.0
Total	Lumens	3583.9	422.3	4006.3
	% Fixture	89.5	10.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	2.5
10°-20°	287.4	7.2
20°-30°	445.9	11.1
30°-40°	554.2	13.8
40°-50°	596.5	14.9
50°-60°	571.5	14.3
60°-70°	483.3	12.1
70°-80°	348.7	8.7
80°-90°	197.3	4.9
90°-100°	122.9	3.1
100°-110°	104.5	2.6
110°-120°	83.0	2.1
120°-130°	58.1	1.5
130°-140°	34.2	0.9
140°-150°	15.7	0.4
150°-160°	4.0	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3583.9	89.5
0°-180°	4006.3	100.0





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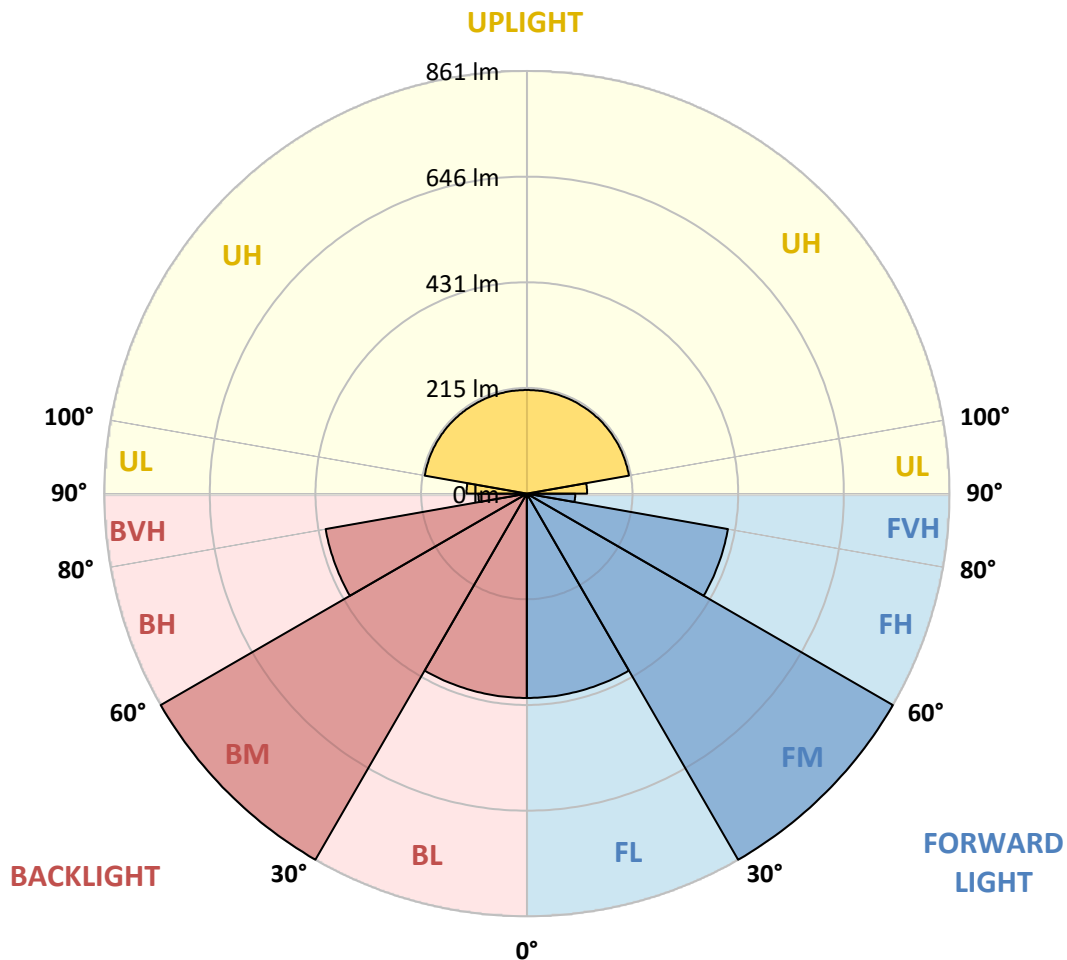
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.2	10.4			
FM (30°-60°)	861.1	21.5			
FH (60°-80°)	416.0	10.4			G0/660
FVH (80°-90°)	98.6	2.5			G1/100
BL (0°-30°)	416.2	10.4	B1/500		
BM (30°-60°)	861.1	21.5	B1/1000		
BH (60°-80°)	416.0	10.4	B1/500		G0/660
BVH (80°-90°)	98.6	2.5			G1/100
UL (90°-100°)	122.9	3.1		U3/500	
UH (100°-180°)	211.2	5.3		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°	1044	1044	1044	1044	1044
2.5°	1049	1047	1039	1043	1040
5°	1045	1044	1038	1042	1040
7.5°	1040	1039	1034	1039	1038
10°	1031	1032	1029	1037	1036
12.5°	1020	1023	1023	1032	1033
15°	1007	1012	1015	1025	1025
17.5°	993	999	1006	1017	1018
20°	977	984	993	1007	1011
22.5°	957	967	979	997	1004
25°	936	949	964	988	997
27.5°	913	928	948	976	984
30°	887	905	930	960	967
32.5°	861	881	911	940	947
35°	832	856	891	919	923
37.5°	802	827	867	895	900
40°	772	798	842	868	875
42.5°	737	767	814	841	846
45°	701	735	784	811	818
47.5°	664	704	754	781	788
50°	629	668	721	751	759
52.5°	588	633	688	719	727
55°	550	597	654	685	694
57.5°	510	559	619	650	659
60°	464	520	582	613	620
62.5°	424	478	543	578	585
65°	378	438	506	542	551
67.5°	334	398	470	508	517
70°	285	358	433	472	479
72.5°	241	318	394	433	442
75°	195	278	351	392	401
77.5°	152	238	311	351	362
80°	109	197	271	313	322
82.5°	71	159	231	273	282
85°	41	124	194	236	249
87.5°	20	93	169	213	226
90°	13	74	147	192	204
92.5°	13	66	128	170	185
95°	13	64	124	159	169
97.5°	13	62	121	157	167
100°	13	59	118	154	164
102.5°	12	57	115	150	161
105°	12	54	111	146	157
107.5°	12	51	107	142	152
110°	11	48	103	137	147



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11	45	99	132	142
115°	10	42	94	126	136
117.5°	10	38	88	120	130
120°	9	35	83	114	123
122.5°	9	31	78	107	116
125°	9	28	72	100	109
127.5°	8	24	66	93	102
130°	8	20	60	86	94
132.5°	7	17	53	79	87
135°	7	13	47	72	79
137.5°	6	10	41	65	72
140°	6	7	34	58	65
142.5°	5	5	29	51	58
145°	5	4	23	44	49
147.5°	4	3	18	36	42
150°	4	3	13	29	34
152.5°	3	2	8	22	27
155°	3	2	3	15	20
157.5°	3	1	0	8	12
160°	2	1	0	2	5
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)