



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: P35459-R3

Luminaire Tested: **FPS-4-LD4-3STD-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: 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-LD4-3STD-30-CLR
Description: FPS 4' LED FIXTURE WITH CLEAR 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: 11145.6 lumens
Efficiency: N/A
Efficacy: 110.6 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

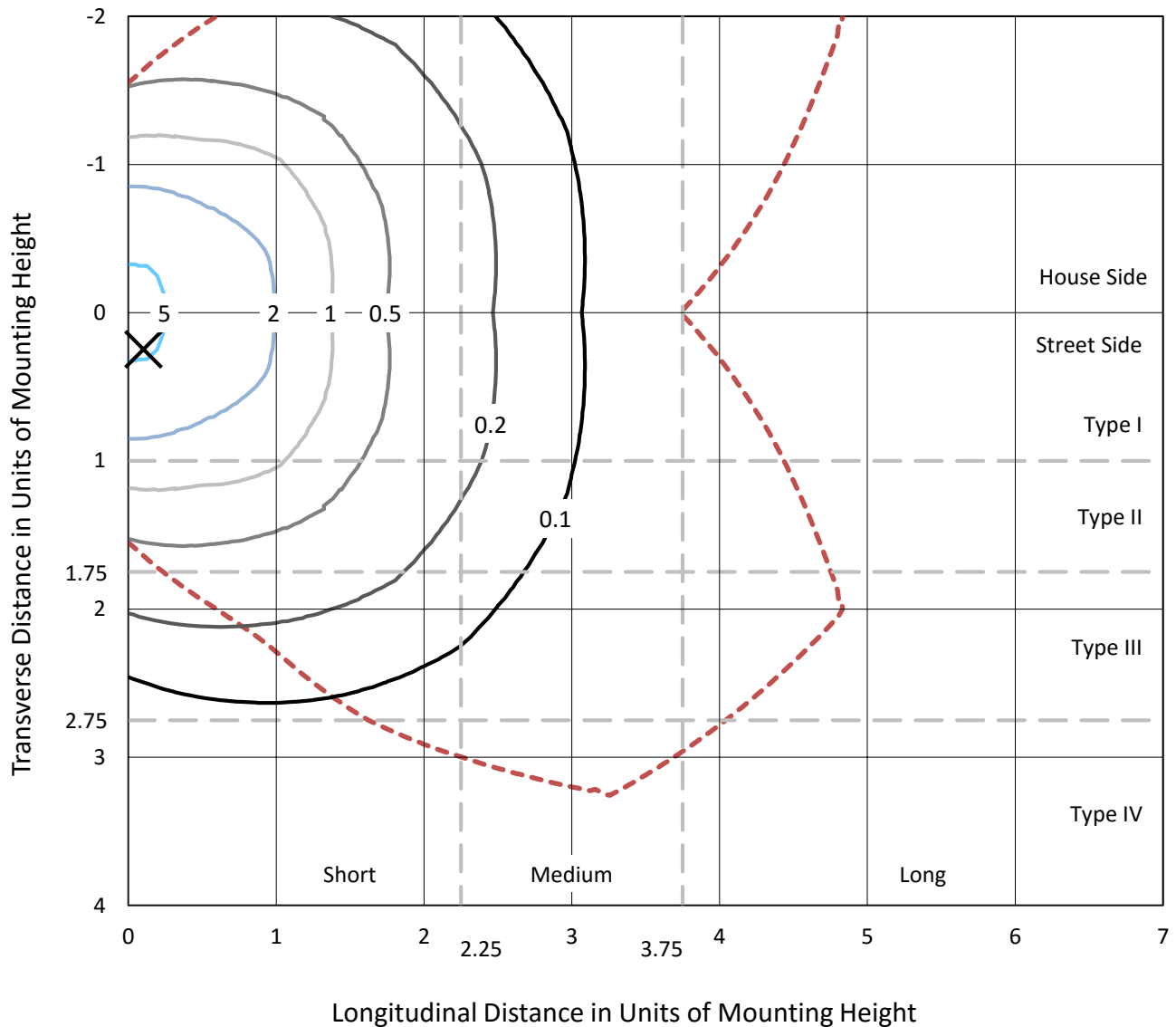
Input Watts (W): 100.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

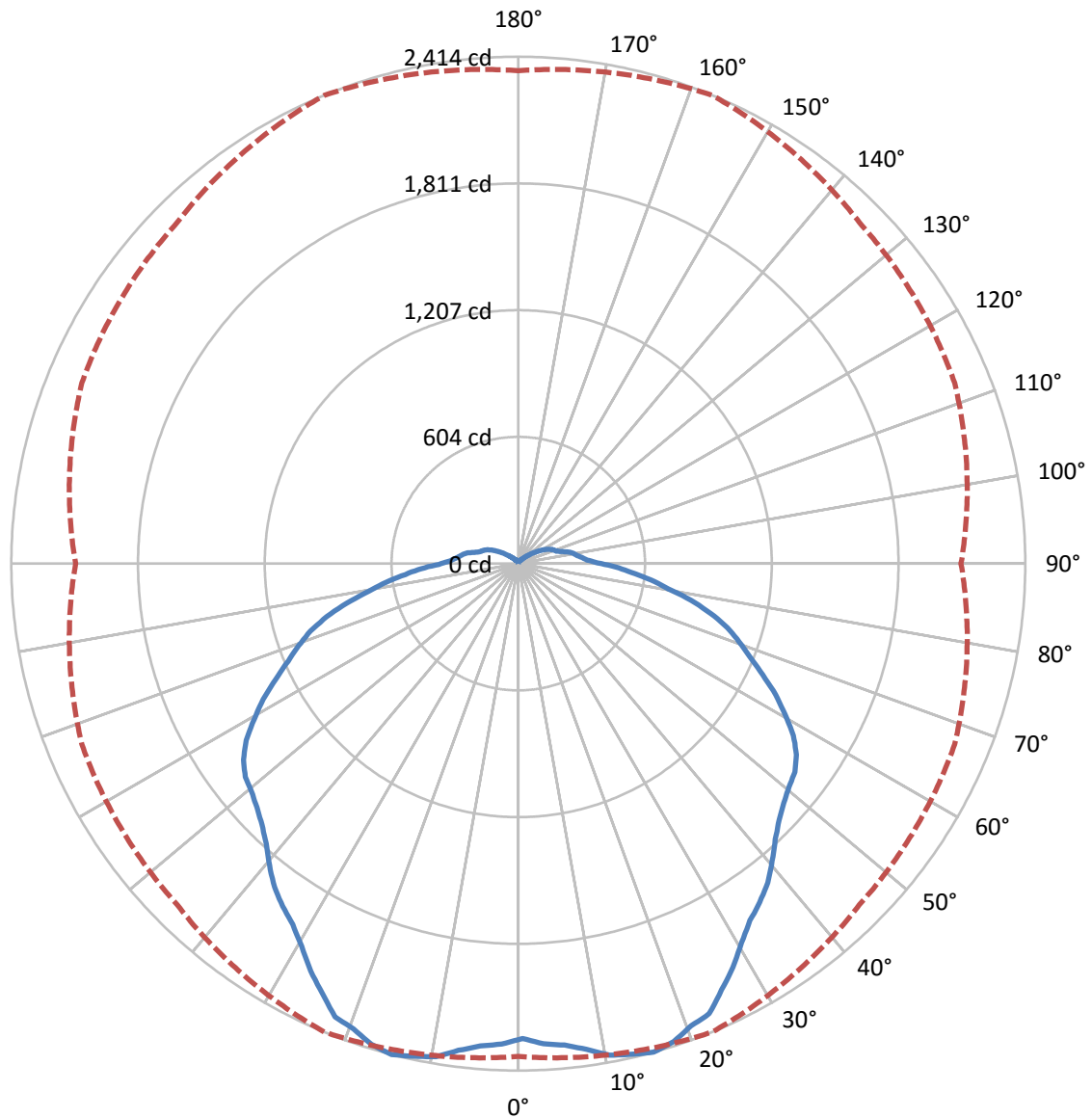


Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - Non-Cutoff



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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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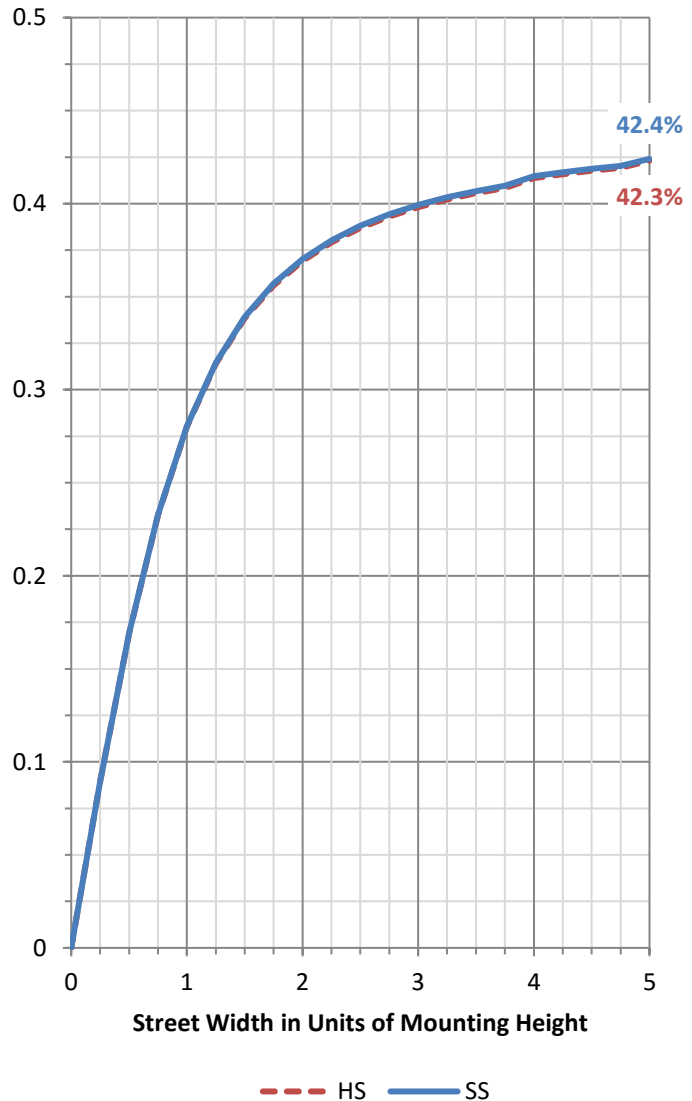
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4904.3	668.5	5572.8
	% Fixture	44.0	6.0	50.0
Street Side	Lumens	4904.3	668.5	5572.8
	% Fixture	44.0	6.0	50.0
Total	Lumens	9808.6	1337.0	11145.6
	% Fixture	88.0	12.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.1	2.0
10°-20°	641.5	5.8
20°-30°	966.6	8.7
30°-40°	1264.7	11.3
40°-50°	1560.9	14.0
50°-60°	1684.7	15.1
60°-70°	1501.1	13.5
70°-80°	1192.3	10.7
80°-90°	775.8	7.0
90°-100°	489.8	4.4
100°-110°	362.5	3.3
110°-120°	230.8	2.1
120°-130°	132.6	1.2
130°-140°	69.1	0.6
140°-150°	36.7	0.3
150°-160°	14.6	0.1
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-90°	9808.6	88.0
0°-180°	11145.6	100.0





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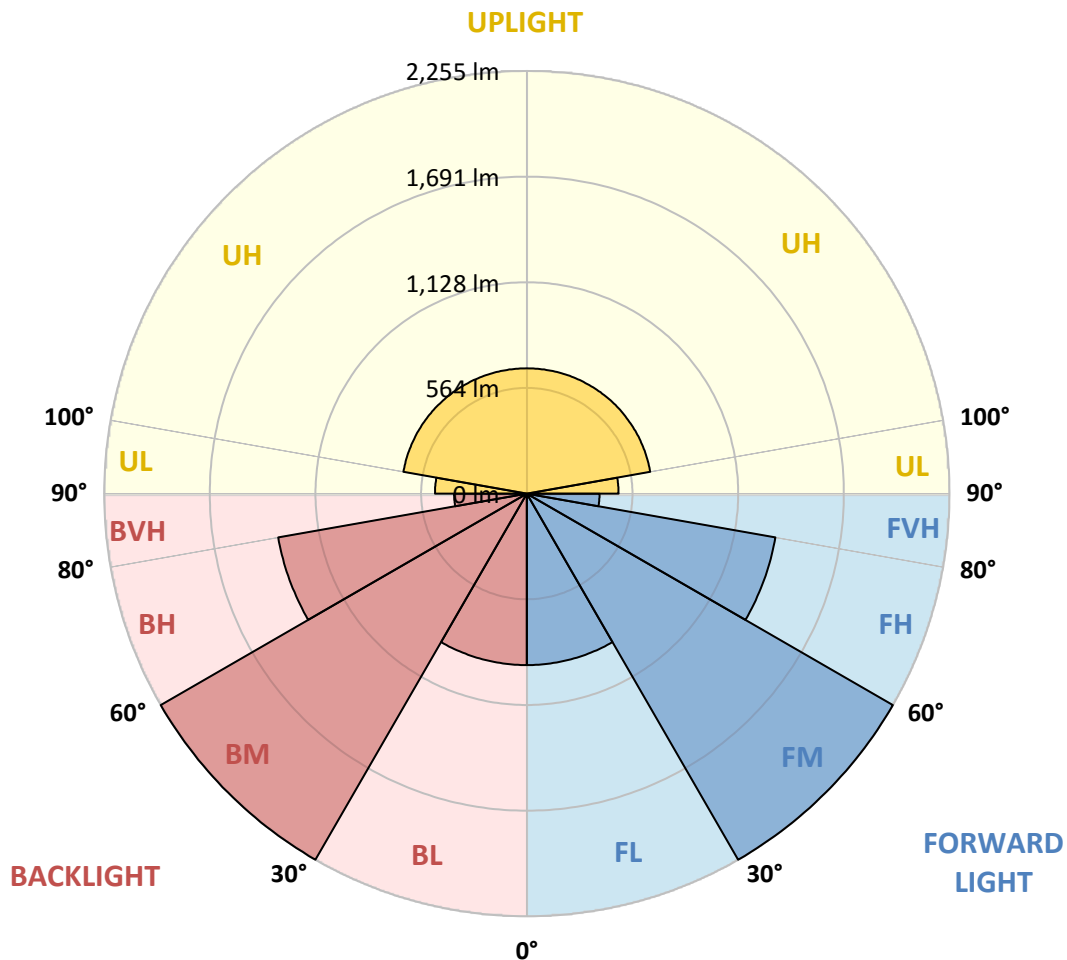
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	914.6	8.2			
FM (30°-60°)	2255.1	20.2			
FH (60°-80°)	1346.7	12.1			G1/1800
FVH (80°-90°)	387.9	3.5			G3/500
BL (0°-30°)	914.6	8.2	B2/1000		
BM (30°-60°)	2255.1	20.2	B2/2500		
BH (60°-80°)	1346.7	12.1	B3/2500		G1/1800
BVH (80°-90°)	387.9	3.5			G3/500
UL (90°-100°)	489.8	4.4		U3/500	
UH (100°-180°)	668.5	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°	2261	2261	2261	2261	2261
2.5°	2286	2289	2276	2278	2274
5°	2294	2303	2321	2332	2322
7.5°	2306	2335	2354	2322	2301
10°	2334	2380	2337	2278	2259
12.5°	2340	2398	2326	2262	2293
15°	2347	2414	2297	2249	2108
17.5°	2343	2393	2316	2053	1941
20°	2334	2350	2246	1931	1875
22.5°	2294	2328	2125	1926	1918
25°	2236	2249	2004	1983	1976
27.5°	2187	2177	1906	2037	2050
30°	2124	2094	1907	2091	2037
32.5°	2059	2026	1896	2091	2057
35°	1987	1980	1927	2114	2118
37.5°	1898	1929	1932	2164	2106
40°	1825	1862	1953	2138	2136
42.5°	1739	1794	2019	2239	2205
45°	1655	1741	2086	2347	2209
47.5°	1573	1702	2182	2380	2131
50°	1465	1670	2277	2357	2038
52.5°	1374	1649	2265	2276	1982
55°	1280	1607	2214	2188	1906
57.5°	1181	1545	2117	2100	1746
60°	1087	1459	1981	1952	1611
62.5°	979	1376	1874	1844	1547
65°	865	1279	1751	1792	1518
67.5°	762	1191	1676	1759	1516
70°	651	1116	1602	1677	1450
72.5°	552	1041	1484	1528	1307
75°	451	946	1340	1396	1195
77.5°	357	840	1207	1275	1101
80°	269	724	1086	1157	989
82.5°	191	636	983	1044	895
85°	131	540	870	956	795
87.5°	80	463	768	854	712
90°	52	377	661	754	641
92.5°	49	328	577	680	572
95°	50	304	537	622	521
97.5°	51	282	508	598	498
100°	50	267	495	580	483
102.5°	49	246	478	545	452
105°	47	214	443	498	409
107.5°	45	192	389	437	364
110°	43	183	346	379	322



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42	173	320	347	296
115°	40	159	296	321	274
117.5°	37	142	268	292	250
120°	33	123	241	265	228
122.5°	30	105	212	235	206
125°	27	88	184	204	182
127.5°	25	71	161	177	162
130°	23	59	141	156	145
132.5°	22	50	123	141	133
135°	20	41	107	131	125
137.5°	19	34	93	120	117
140°	18	28	81	111	110
142.5°	18	22	70	103	103
145°	17	20	61	94	95
147.5°	17	19	53	85	87
150°	16	18	44	73	77
152.5°	16	18	35	61	65
155°	15	17	25	48	53
157.5°	15	16	15	34	38
160°	14	16	11	18	21
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)