



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: 7416.0

Luminaire Tested: **fps-332-277**

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: 7416.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: EATON (FORMERLY COOPER LIGHTING)
Product Line: FAIL-SAFE
Catalog Number: fps-332-277
Description: FAIL-SAFE
Light Source: 2900 LUMENS
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: 2900 (3 lamps)
Luminaire Lumens: 4662.1 lumens
Efficiency: 53.6%
Efficacy: 44.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.33')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U3 - G2

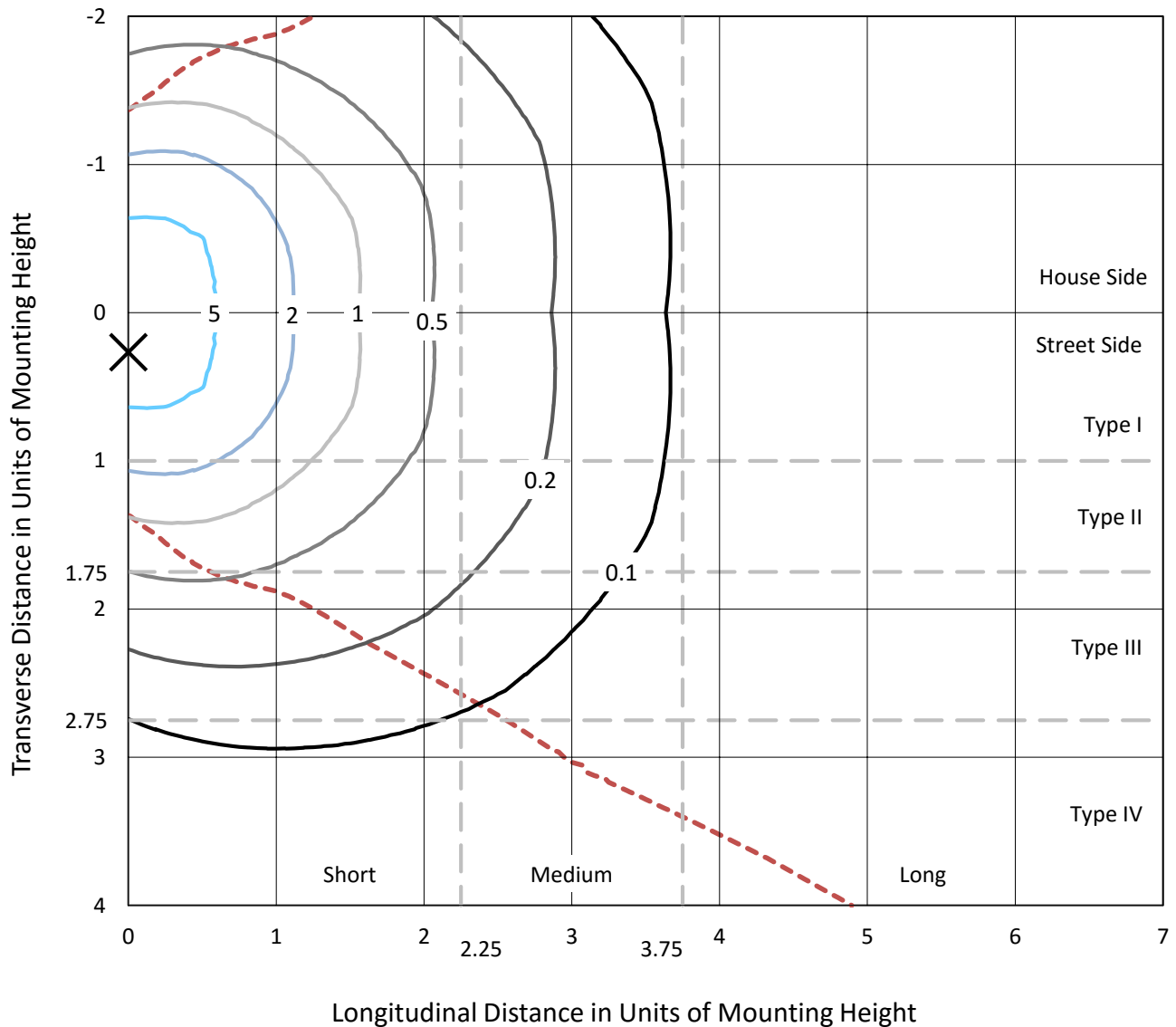
Input Watts (W): 105
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

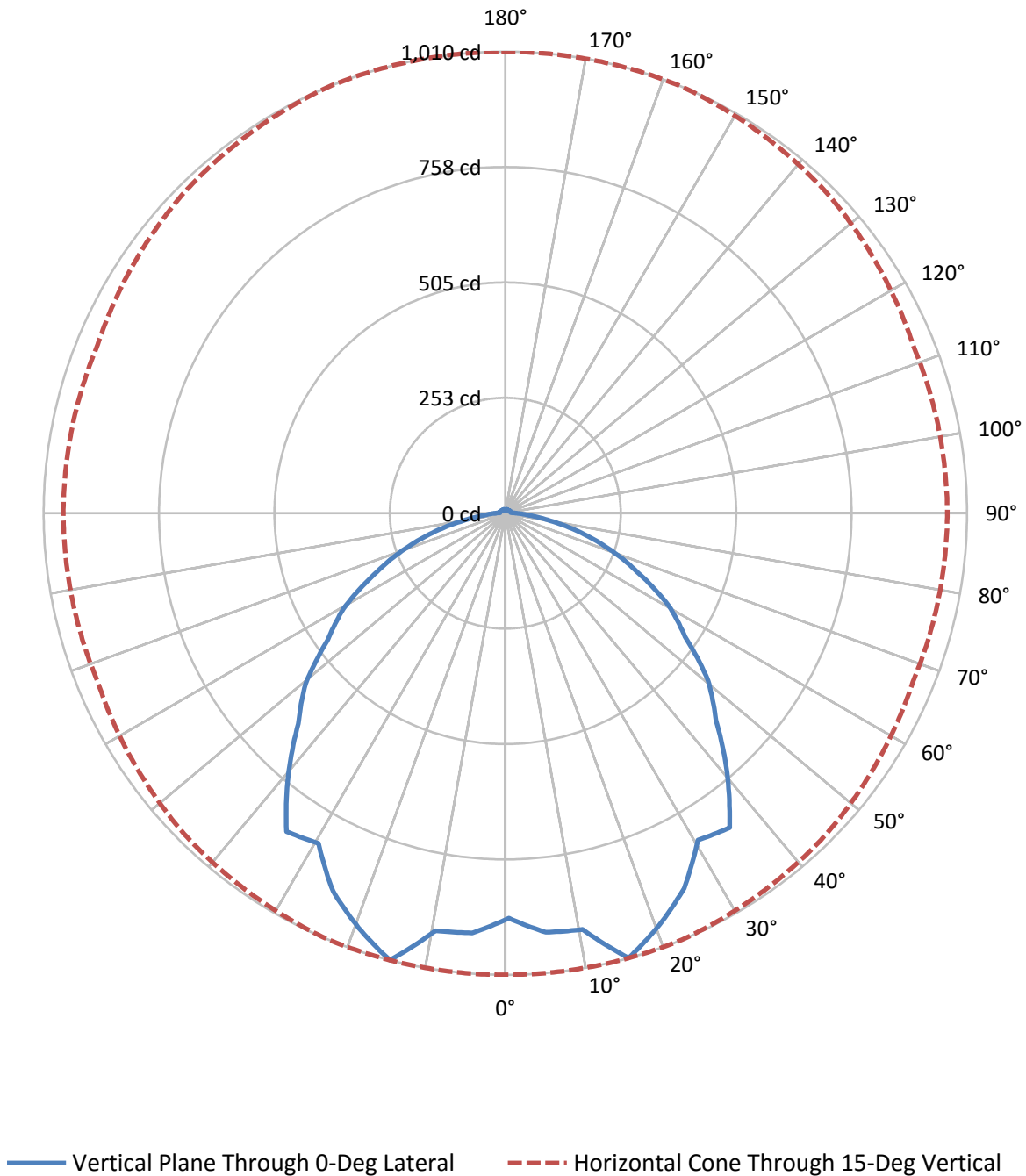


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - Non-Cutoff



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Luminous Intensity Polar Plot





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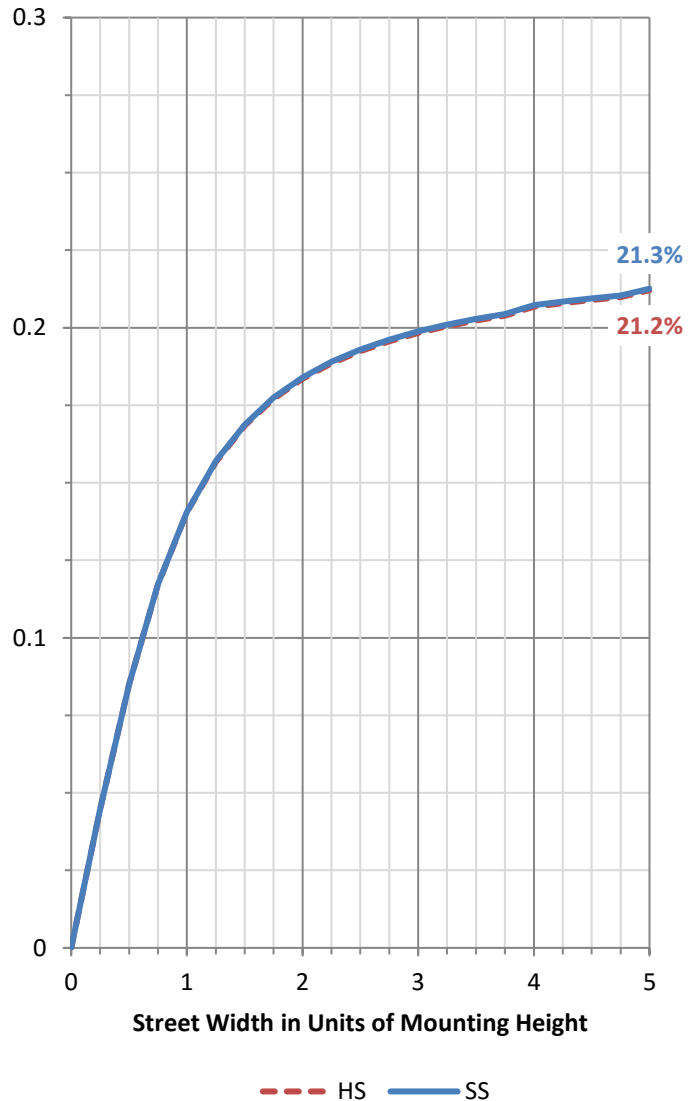
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1946.3	384.8	2331.1
	% Lamp	22.4	4.4	26.8
Street Side	Lumens	1946.3	384.8	2331.1
	% Lamp	22.4	4.4	26.8
Total	Lumens	3892.6	769.5	4662.1
	% Lamp	44.7	8.8	53.6

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	87.2	1.9	1.0
10°-20°	271.5	5.8	3.1
20°-30°	413.3	8.9	4.8
30°-40°	529.6	11.4	6.1
40°-50°	572.4	12.3	6.6
50°-60°	574.5	12.3	6.6
60°-70°	546.3	11.7	6.3
70°-80°	483.0	10.4	5.6
80°-90°	414.8	8.9	4.8
90°-100°	334.1	7.2	3.8
100°-110°	231.4	5.0	2.7
110°-120°	113.1	2.4	1.3
120°-130°	46.1	1.0	0.5
130°-140°	21.8	0.5	0.3
140°-150°	13.5	0.3	0.2
150°-160°	6.9	0.1	0.1
160°-170°	2.7	0.1	0.0
170°-180°	0.0	0.0	0.0
0°-90°	3892.6	83.5	44.7
0°-180°	4662.1	100.0	53.6



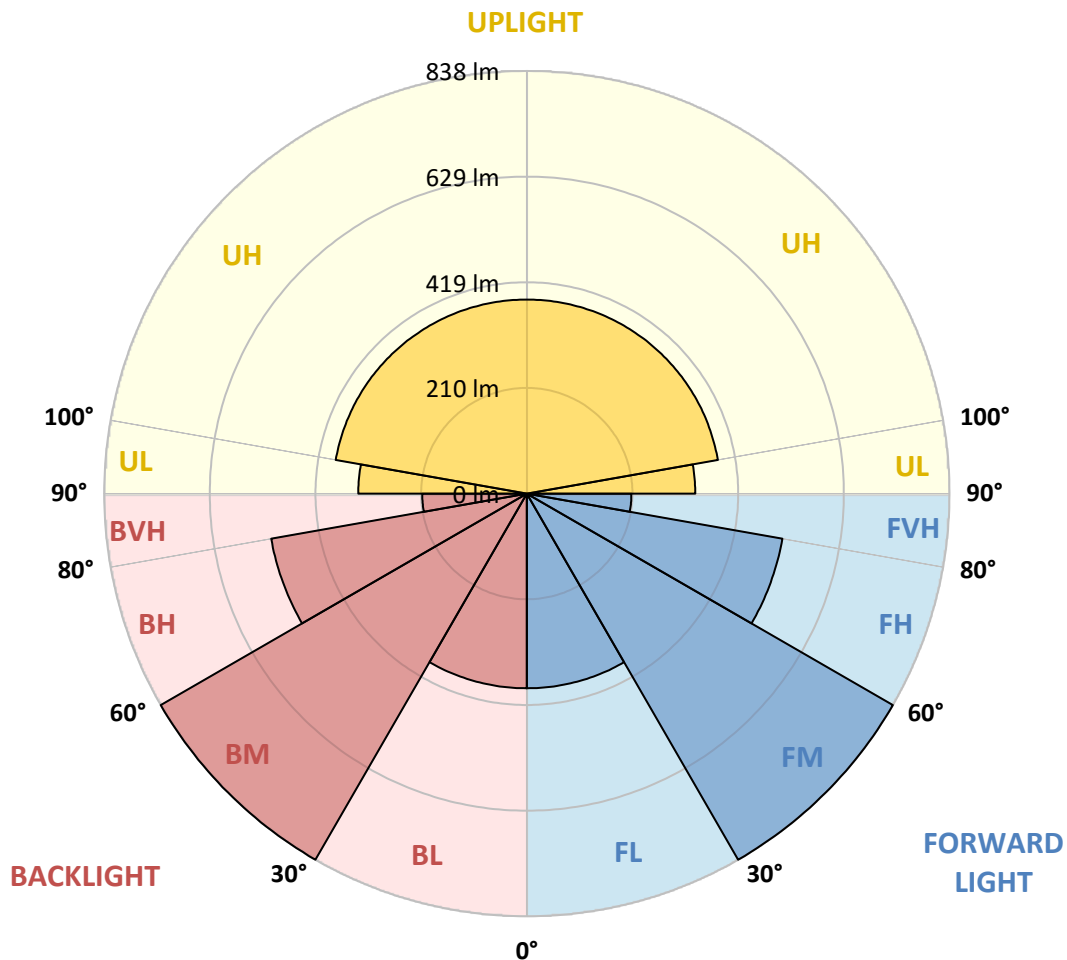


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.0	4.4			
FM (30°-60°)	838.2	9.6			
FH (60°-80°)	514.6	5.9			G0/660
FVH (80°-90°)	207.4	2.4			G2/225
BL (0°-30°)	386.0	4.4	B1/500		
BM (30°-60°)	838.2	9.6	B1/1000		
BH (60°-80°)	514.6	5.9	B2/1000		G0/660
BVH (80°-90°)	207.4	2.4			G2/225
UL (90°-100°)	334.1	3.8		U3/500	
UH (100°-180°)	384.8	4.4		U3/500	
Trapped Light	4037.9	46.4			

BUG Rating: B2-U3-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	886	886	886	886	886
5°	921	930	921	925	917
10°	926	922	906	902	884
15°	1010	1010	993	965	967
20°	962	956	955	918	895
25°	909	925	949	872	837
30°	830	857	890	799	740
35°	845	902	933	819	782
40°	747	839	868	782	733
45°	646	752	779	724	670
50°	575	706	741	724	662
55°	477	610	661	702	630
60°	411	557	630	710	625
65°	324	468	590	677	583
70°	248	402	567	648	561
75°	172	335	518	615	534
80°	99	269	477	592	517
85°	47	222	447	563	495
90°	23	199	424	554	486
95°	12	154	357	476	411
100°	12	129	321	433	362
105°	12	102	269	360	298
110°	12	68	199	271	217
115°	11	43	131	178	148
120°	11	32	90	122	101
125°	10	23	56	73	65
130°	9	16	41	51	50
135°	9	12	32	39	41
140°	9	11	27	34	37
145°	9	11	23	33	36
150°	9	10	16	24	27
155°	9	10	14	20	23
160°	9	10	11	15	18
165°	9	10	11	14	14
170°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)