



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: LSI4542P

Luminaire Tested: **2VRGC-440-ACTF140**

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: LSI4542P  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: EATON (FORMERLY COOPER LIGHTING)  
Product Line: FAIL-SAFE  
Catalog Number: 2VRGC-440-ACTF140  
Description: FAIL-SAFE  
Light Source: 3150 LUMENS  
F40T12CW  
Ballast/Driver: STANDARD

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: 3150 (4 lamps)  
Luminaire Lumens: 8538 lumens  
Efficiency: 67.8%  
Efficacy: 47.4 lumens/watt  
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

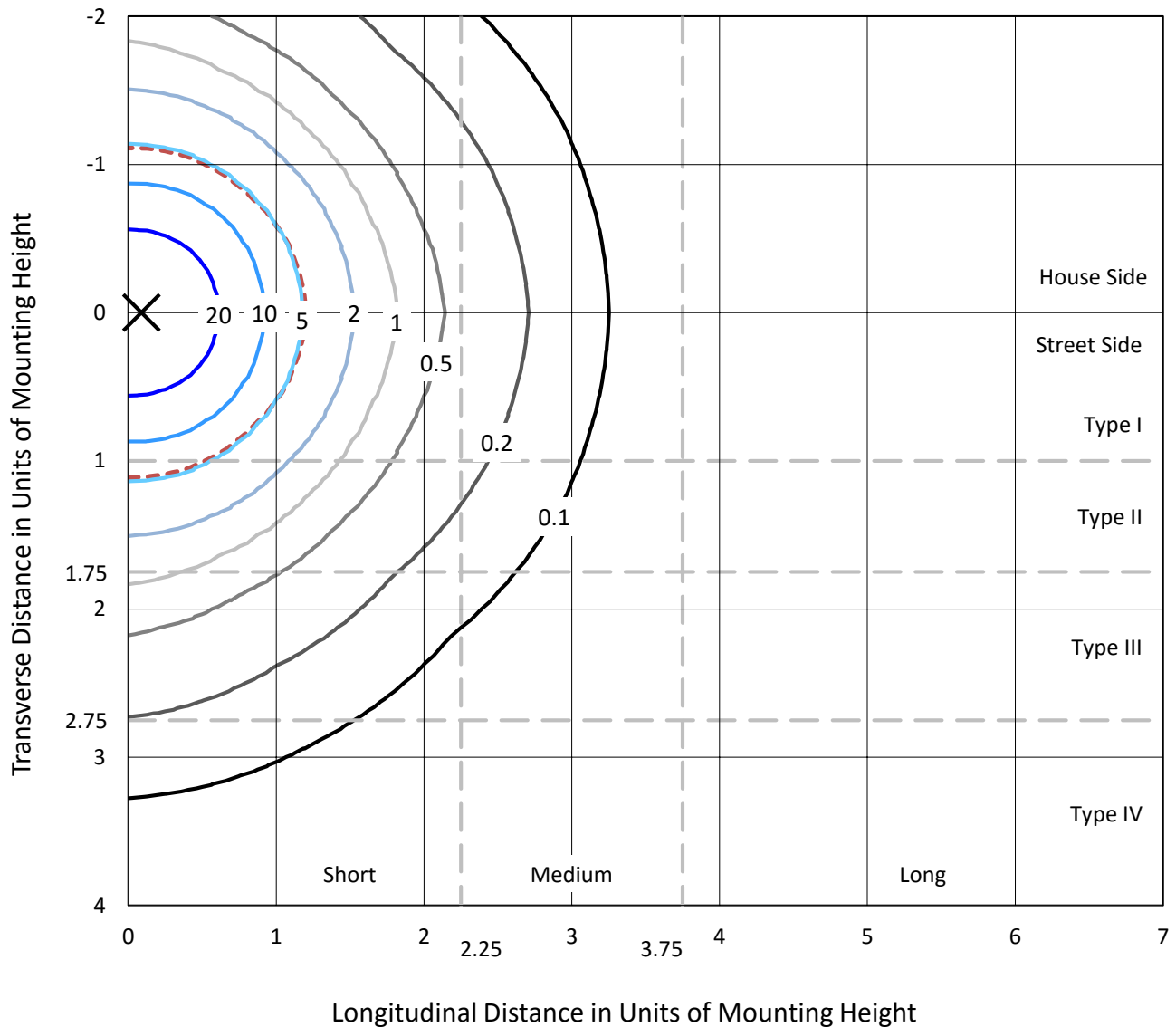
Input Watts (W): 180  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

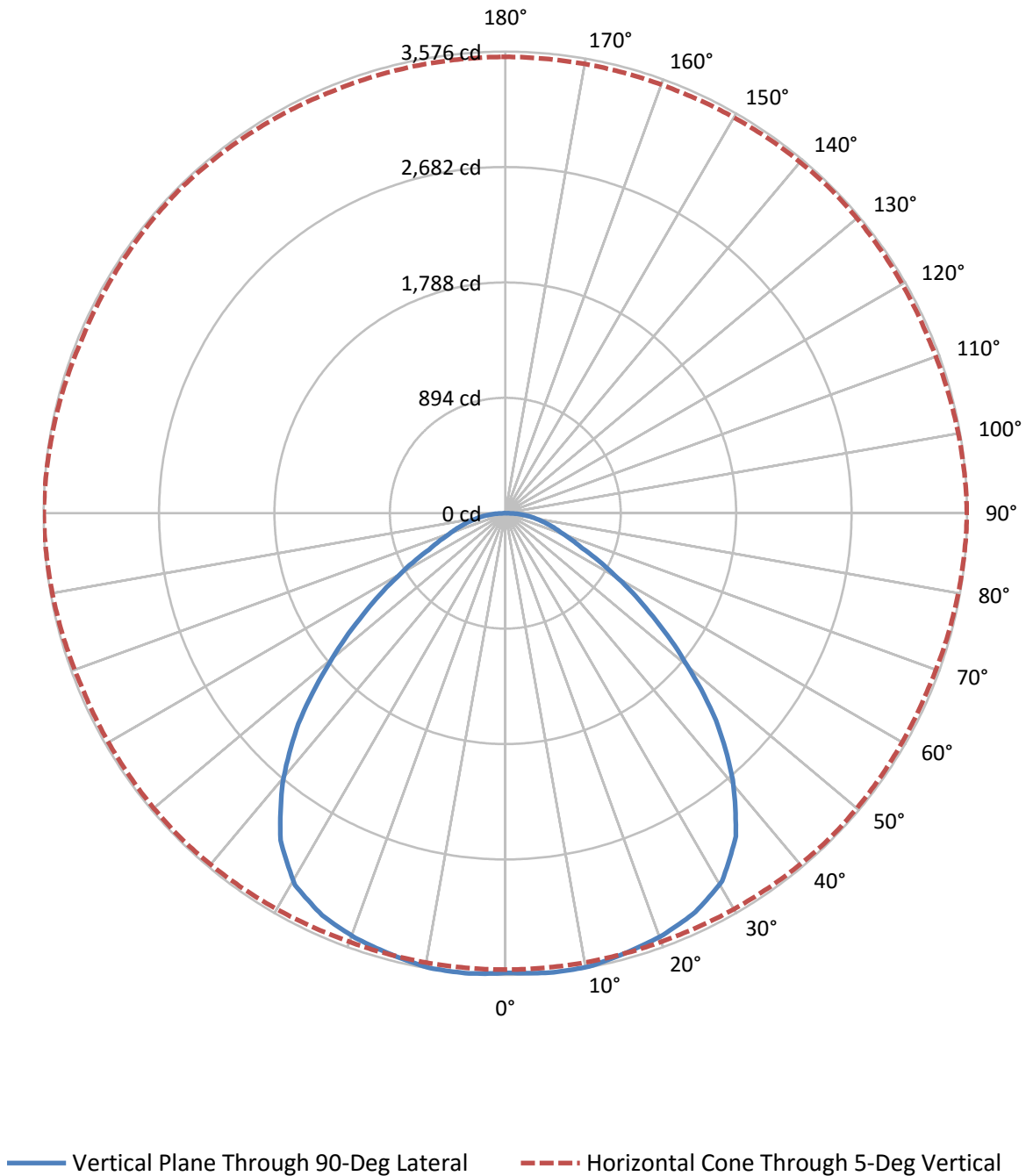


Based on 10 foot mounting height. Maximum calculated value = 35.6 fc  
 Type V - Short - Full Cutoff



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### Luminous Intensity Polar Plot





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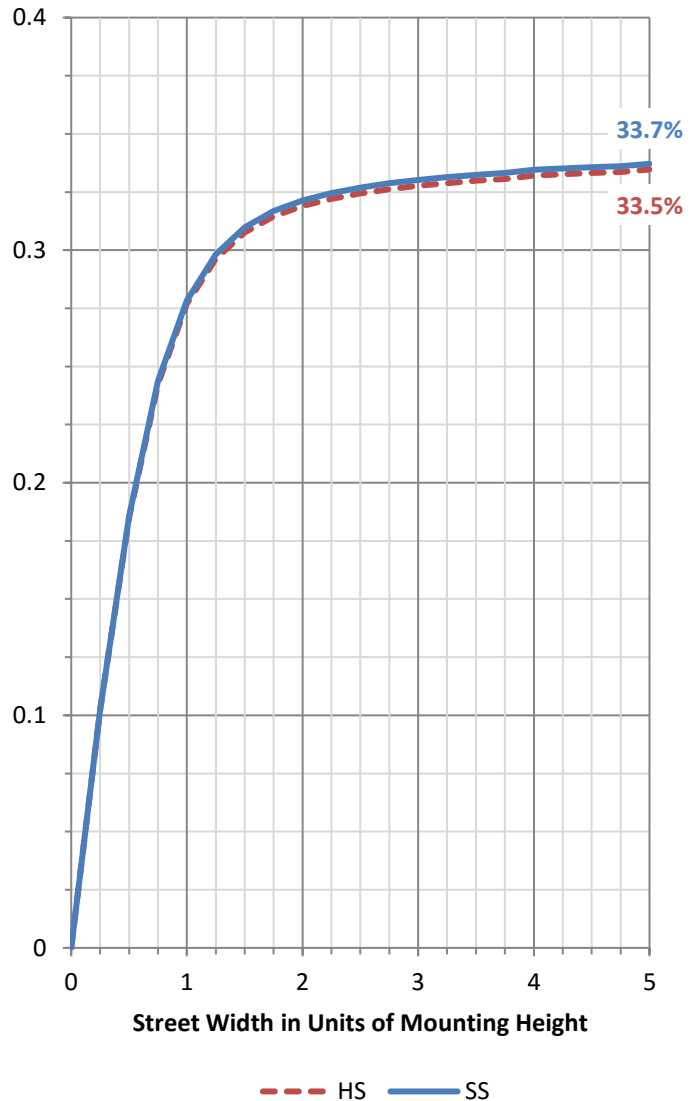
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4269.0	0.0	4269.0
	% Lamp	33.9	0.0	33.9
<b>Street Side</b>	Lumens	4269.0	0.0	4269.0
	% Lamp	33.9	0.0	33.9
<b>Total</b>	Lumens	8538.0	0.0	8538.0
	% Lamp	67.8	0.0	67.8

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	338.0	4.0	2.7
10°-20°	981.0	11.5	7.8
20°-30°	1519.2	17.8	12.1
30°-40°	1828.7	21.4	14.5
40°-50°	1662.4	19.5	13.2
50°-60°	1122.9	13.2	8.9
60°-70°	586.8	6.9	4.7
70°-80°	354.5	4.2	2.8
80°-90°	144.5	1.7	1.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	8538.0	100.0	67.8
0°-180°	8538.0	100.0	67.8





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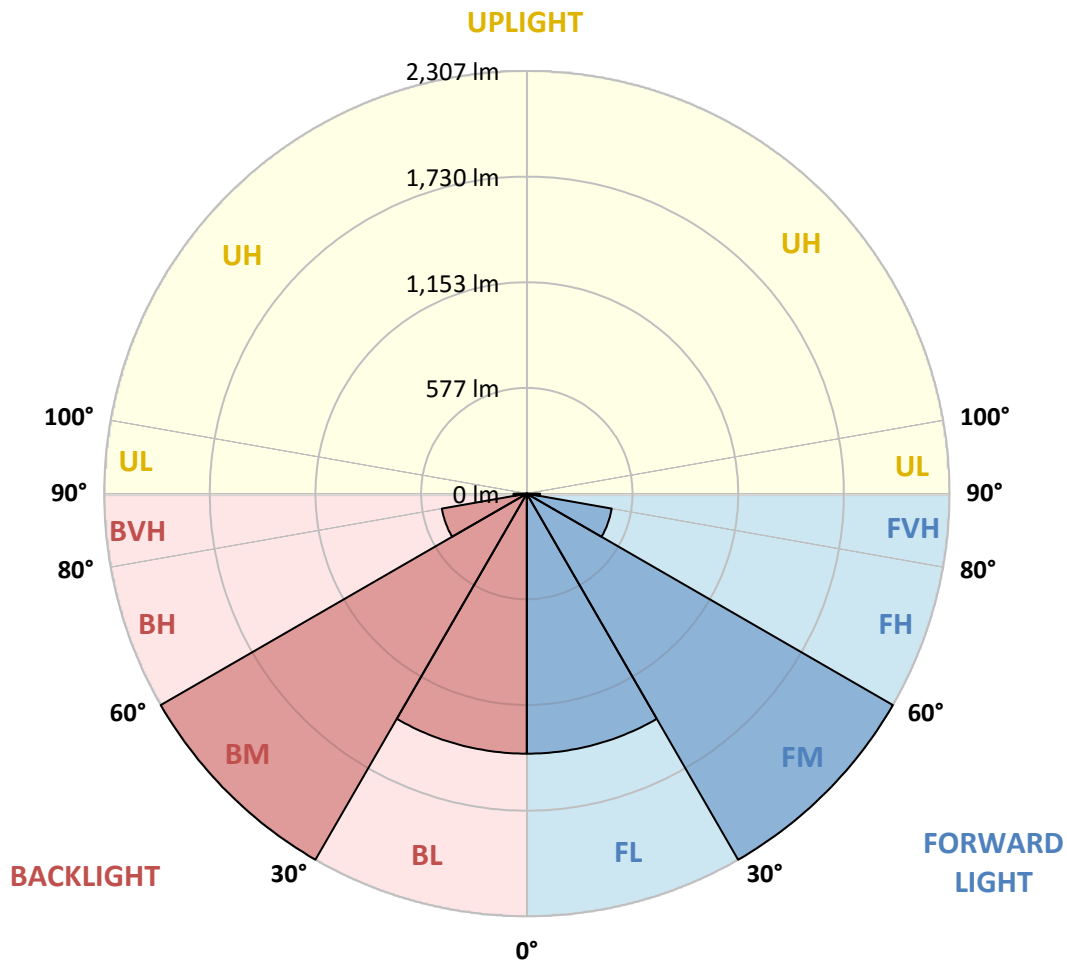
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1419.1	11.3			
FM	(30°-60°)	2307.0	18.3			
FH	(60°-80°)	470.6	3.7			G0/660
FVH	(80°-90°)	72.2	0.6			G1/100
BL	(0°-30°)	1419.1	11.3	B3/2500		
BM	(30°-60°)	2307.0	18.3	B2/2500		
BH	(60°-80°)	470.6	3.7	B1/500		G0/660
BVH	(80°-90°)	72.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		4062.0	32.2			

**BUG Rating: B3-U0-G1**

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3560	3560	3560	3560	3560
5°	3535	3533	3557	3546	3576
10°	3496	3501	3525	3539	3571
15°	3426	3429	3475	3501	3530
20°	3306	3340	3411	3444	3488
25°	3166	3205	3314	3375	3422
30°	2988	3054	3171	3264	3308
35°	2752	2848	2989	3056	3074
40°	2401	2532	2671	2703	2713
45°	2039	2091	2153	2244	2287
50°	1623	1638	1649	1745	1797
55°	1262	1216	1182	1282	1352
60°	984	821	778	836	970
65°	696	520	482	535	654
70°	484	398	356	428	469
75°	348	334	319	336	340
80°	222	274	284	259	232
85°	134	139	139	131	127
90°	0	0	0	0	0

(END OF REPORT)