

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

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P732583

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CP375-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-HRP-B2750-W2D-CP375-3500K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

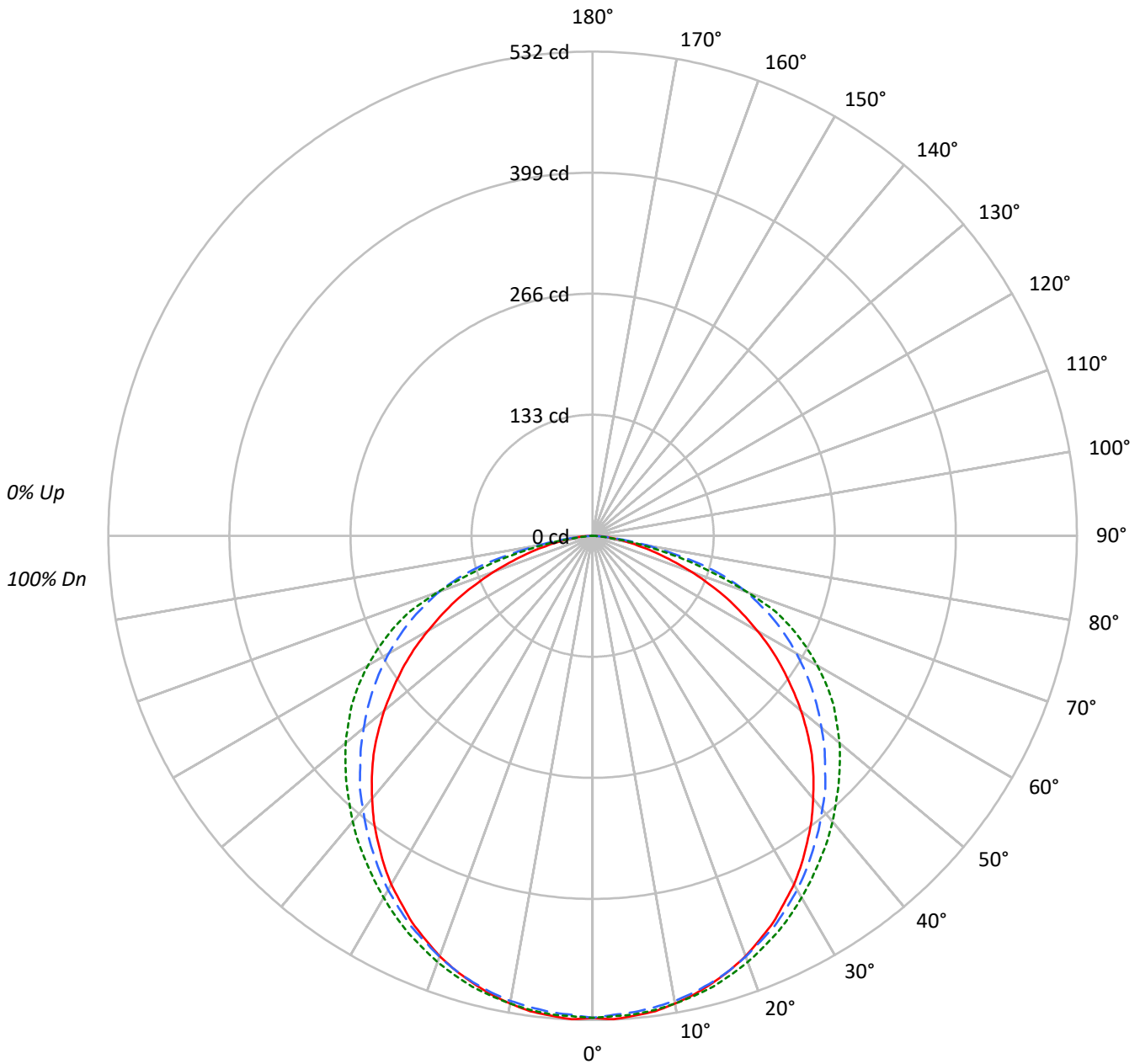
Lumens per Lamp: N/A
Luminaire Lumens: 1560.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1495	1495	1495
5°	1500	1489	1496
10°	1496	1488	1496
15°	1487	1484	1498
20°	1476	1478	1497
25°	1461	1473	1497
30°	1442	1464	1496
35°	1416	1453	1499
40°	1388	1446	1511
45°	1359	1441	1527
50°	1312	1441	1555
55°	1255	1448	1589
60°	1179	1459	1609
65°	1088	1474	1618
70°	947	1477	1490
75°	781	1375	1204
80°	613	988	805
85°	479	382	188



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	3.2
10°-20°	143.9	9.2
20°-30°	218.5	14.0
30°-40°	264.8	17.0
40°-50°	279.1	17.9
50°-60°	260.5	16.7
60°-70°	208.2	13.3
70°-80°	114.6	7.3
80°-90°	20.2	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	412.6	26.5
0°-40°	677.4	43.4
0°-60°	1217.0	78.0
0°-90°	1560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1560.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	529	528	525	529	528	50
15°	509	509	508	513	513	144
25°	469	470	473	480	481	216
35°	411	415	422	433	435	257
45°	340	347	361	377	383	262
55°	255	268	294	315	323	228
65°	163	184	221	239	242	160
75°	72	102	126	113	110	77
85°	15	19	12	7	6	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	529.7	529.7	529.7	529.7	529.7
2.5°	531.7	530.2	526.9	529.7	528.4
5°	529.3	527.9	525.4	528.9	527.9
7.5°	526.9	524.9	522.4	526.4	525.4
10°	521.9	520.4	519.0	522.4	521.9
12.5°	516.1	515.6	514.1	518.1	517.6
15°	508.7	508.7	507.7	512.6	512.6
17.5°	500.8	500.3	500.8	506.3	505.8
20°	491.5	491.5	492.0	498.4	498.4
22.5°	480.2	480.7	482.2	490.0	489.5
25°	469.0	469.9	472.9	479.7	480.7
27.5°	455.2	457.7	461.1	469.4	470.4
30°	442.4	443.9	449.3	457.2	459.1
32.5°	427.3	430.2	436.1	444.9	447.4
35°	411.0	415.0	421.8	432.6	435.1
37.5°	394.9	398.4	407.7	418.9	423.3
40°	376.8	382.6	392.4	405.2	410.0
42.5°	359.0	365.0	378.3	391.4	395.9
45°	340.4	346.9	361.0	377.3	382.6
47.5°	319.8	327.2	345.4	362.5	368.3
50°	298.7	308.0	328.1	347.4	354.2
52.5°	276.7	288.4	311.5	331.6	338.0
55°	255.1	267.8	294.3	315.0	322.8
57.5°	233.0	246.8	276.7	300.2	304.6
60°	208.9	225.7	258.5	279.1	285.0
62.5°	185.5	204.6	239.8	259.5	264.4
65°	162.9	183.5	220.7	238.9	242.3
67.5°	138.3	162.9	199.6	216.4	217.3
70°	114.8	143.3	179.0	186.8	180.5
72.5°	91.7	122.2	155.1	148.6	143.3
75°	71.6	102.5	126.1	113.3	110.4
77.5°	53.0	83.9	90.3	83.4	78.0
80°	37.7	66.2	60.8	52.0	49.5
82.5°	25.9	41.7	33.4	25.9	22.6
85°	14.8	18.6	11.8	7.3	5.8
87.5°	6.3	4.5	2.5	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)