

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: P732710

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732710
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: 14FCZ2-29-HRP-B2750-W2D-CP375-5000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

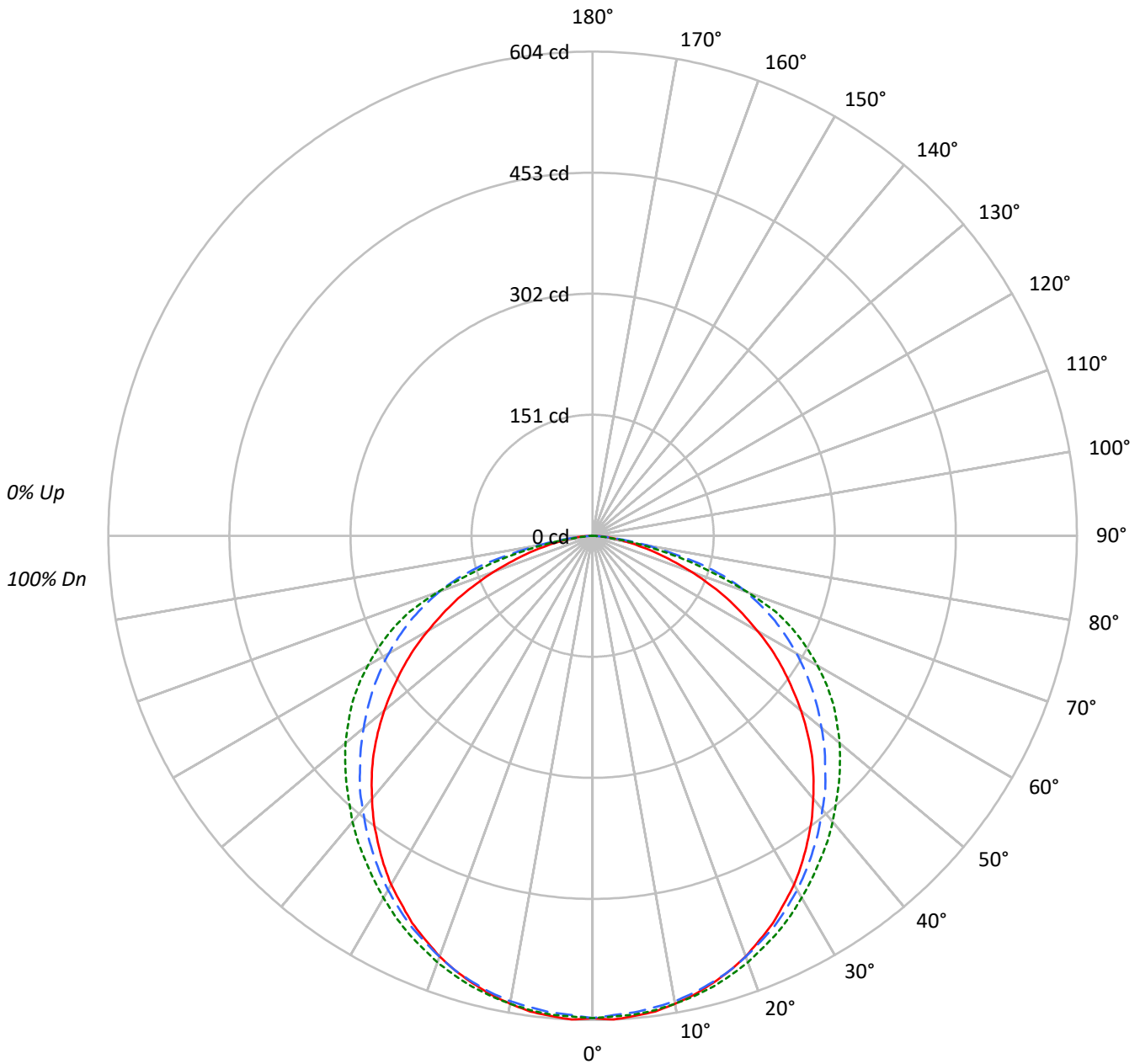
Lumens per Lamp: N/A
Luminaire Lumens: 1772.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (Ain): 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					20					
RC	80					70					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°	1698	1698	1698
5°	1704	1691	1699
10°	1699	1690	1699
15°	1689	1685	1701
20°	1677	1679	1701
25°	1659	1673	1701
30°	1638	1663	1700
35°	1609	1651	1703
40°	1577	1642	1716
45°	1544	1637	1735
50°	1490	1637	1767
55°	1426	1645	1804
60°	1340	1657	1828
65°	1236	1674	1839
70°	1076	1678	1692
75°	888	1563	1368
80°	697	1123	915
85°	544	434	214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.0	3.2
10°-20°	163.5	9.2
20°-30°	248.2	14.0
30°-40°	300.8	17.0
40°-50°	317.0	17.9
50°-60°	295.9	16.7
60°-70°	236.5	13.3
70°-80°	130.1	7.3
80°-90°	23.0	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°	468.7	26.4
0°-40°	769.5	43.4
0°-60°	1382.4	78.0
0°-90°	1772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1772.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	601	600	597	601	600	57
15°	578	578	577	582	582	163
25°	533	534	537	545	546	245
35°	467	471	479	491	494	292
45°	387	394	410	428	435	298
55°	290	304	334	358	367	259
65°	185	208	251	271	275	182
75°	81	116	143	129	125	88
85°	17	21	13	8	7	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	601.7	601.7	601.7	601.7	601.7
2.5°	604.0	602.3	598.5	601.7	600.2
5°	601.3	599.6	596.8	600.7	599.6
7.5°	598.5	596.2	593.4	597.9	596.8
10°	592.8	591.1	589.6	593.4	592.8
12.5°	586.2	585.6	583.9	588.5	587.9
15°	577.9	577.9	576.7	582.2	582.2
17.5°	568.9	568.3	568.9	575.1	574.5
20°	558.3	558.3	558.8	566.2	566.2
22.5°	545.4	546.0	547.7	556.6	556.0
25°	532.8	533.7	537.1	544.9	546.0
27.5°	517.1	519.9	523.7	533.2	534.3
30°	502.6	504.3	510.3	519.4	521.5
32.5°	485.4	488.6	495.4	505.4	508.2
35°	466.9	471.4	479.2	491.4	494.3
37.5°	448.6	452.5	463.1	475.8	480.9
40°	428.0	434.6	445.7	460.3	465.8
42.5°	407.8	414.6	429.7	444.6	449.7
45°	386.7	394.0	410.1	428.5	434.6
47.5°	363.3	371.7	392.3	411.8	418.4
50°	339.3	349.9	372.7	394.6	402.3
52.5°	314.3	327.6	353.8	376.6	384.0
55°	289.8	304.2	334.3	357.8	366.6
57.5°	264.7	280.3	314.3	341.0	346.0
60°	237.3	256.4	293.6	317.0	323.8
62.5°	210.7	232.4	272.4	294.7	300.4
65°	185.0	208.4	250.7	271.3	275.3
67.5°	157.1	185.0	226.8	245.8	246.8
70°	130.4	162.7	203.3	212.2	205.0
72.5°	104.2	138.8	176.1	168.8	162.7
75°	81.4	116.5	143.3	128.7	125.4
77.5°	60.2	95.3	102.5	94.8	88.6
80°	42.9	75.2	69.1	59.1	56.3
82.5°	29.5	47.4	37.9	29.5	25.7
85°	16.8	21.2	13.4	8.3	6.6
87.5°	7.2	5.1	2.8	2.3	2.3
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)