

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: P732700

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732700
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-CP187-5000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

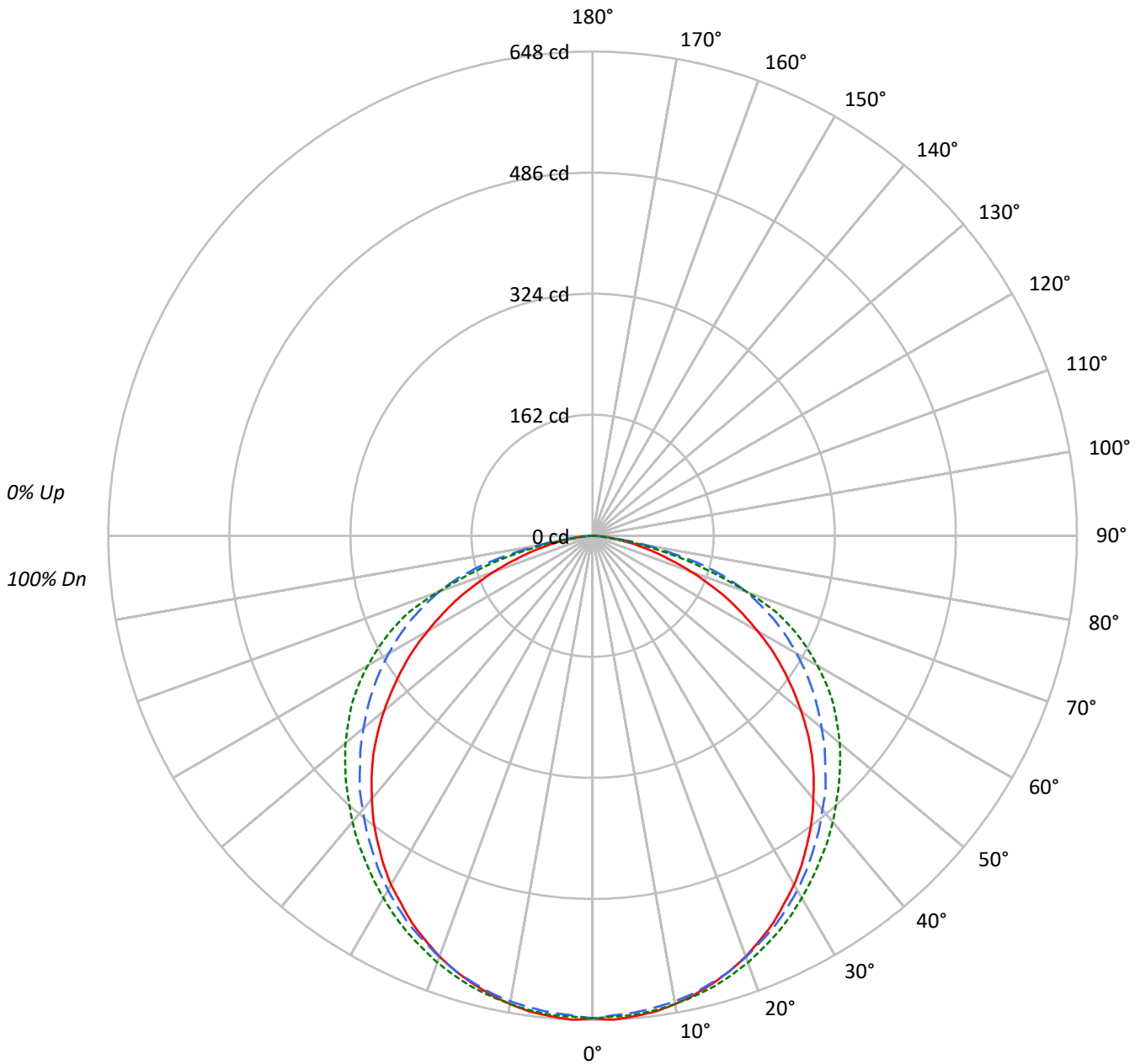
Lumens per Lamp: N/A
Luminaire Lumens: 1902.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (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					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°	1823	1823	1823
5°	1829	1815	1824
10°	1824	1814	1824
15°	1813	1809	1826
20°	1800	1802	1825
25°	1781	1795	1825
30°	1758	1785	1824
35°	1727	1772	1828
40°	1693	1763	1842
45°	1657	1757	1862
50°	1599	1757	1896
55°	1530	1766	1936
60°	1438	1779	1962
65°	1326	1797	1974
70°	1155	1802	1816
75°	952	1677	1468
80°	748	1206	982
85°	583	466	230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	3.2
10°-20°	175.5	9.2
20°-30°	266.5	14.0
30°-40°	322.9	17.0
40°-50°	340.2	17.9
50°-60°	317.6	16.7
60°-70°	253.8	13.3
70°-80°	139.7	7.3
80°-90°	24.7	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°	503.1	26.5
0°-40°	826.0	43.4
0°-60°	1483.8	78.0
0°-90°	1902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	646	646	646	646	646	
5°	645	644	641	645	644	61
15°	620	620	619	625	625	175
25°	572	573	576	585	586	263
35°	501	506	514	528	530	314
45°	415	423	440	460	466	319
55°	311	326	359	384	394	278
65°	199	224	269	291	296	195
75°	87	125	154	138	135	94
85°	18	23	14	9	7	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	645.9	645.9	645.9	645.9	645.9
2.5°	648.3	646.5	642.4	645.9	644.2
5°	645.4	643.6	640.6	644.8	643.6
7.5°	642.4	639.9	636.9	641.8	640.6
10°	636.3	634.5	632.8	636.9	636.3
12.5°	629.2	628.6	626.8	631.6	631.0
15°	620.3	620.3	619.1	625.0	625.0
17.5°	610.6	610.0	610.6	617.2	616.6
20°	599.2	599.2	599.8	607.7	607.7
22.5°	585.5	586.1	587.9	597.4	596.8
25°	571.8	572.9	576.5	584.9	586.1
27.5°	555.0	558.1	562.2	572.3	573.5
30°	539.4	541.3	547.8	557.5	559.7
32.5°	521.0	524.5	531.7	542.5	545.5
35°	501.2	506.0	514.3	527.5	530.5
37.5°	481.5	485.7	497.1	510.7	516.1
40°	459.4	466.5	478.4	494.0	499.9
42.5°	437.7	445.0	461.2	477.2	482.7
45°	415.0	422.9	440.2	460.0	466.5
47.5°	389.9	399.0	421.1	442.0	449.1
50°	364.2	375.5	400.0	423.5	431.8
52.5°	337.4	351.6	379.8	404.3	412.2
55°	311.0	326.5	358.9	384.0	393.5
57.5°	284.1	300.9	337.4	366.0	371.4
60°	254.7	275.2	315.1	340.3	347.5
62.5°	226.1	249.4	292.4	316.3	322.4
65°	198.6	223.7	269.1	291.2	295.5
67.5°	168.6	198.6	243.4	263.8	264.9
70°	140.0	174.7	218.3	227.8	220.1
72.5°	111.9	148.9	189.0	181.2	174.7
75°	87.3	125.0	153.8	138.2	134.6
77.5°	64.6	102.3	110.0	101.7	95.1
80°	46.0	80.7	74.2	63.4	60.4
82.5°	31.6	50.9	40.7	31.6	27.5
85°	18.0	22.7	14.4	8.9	7.1
87.5°	7.7	5.4	3.0	2.4	2.4
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)