

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: P732685

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

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-29-B2750-W2D-CP375-5000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

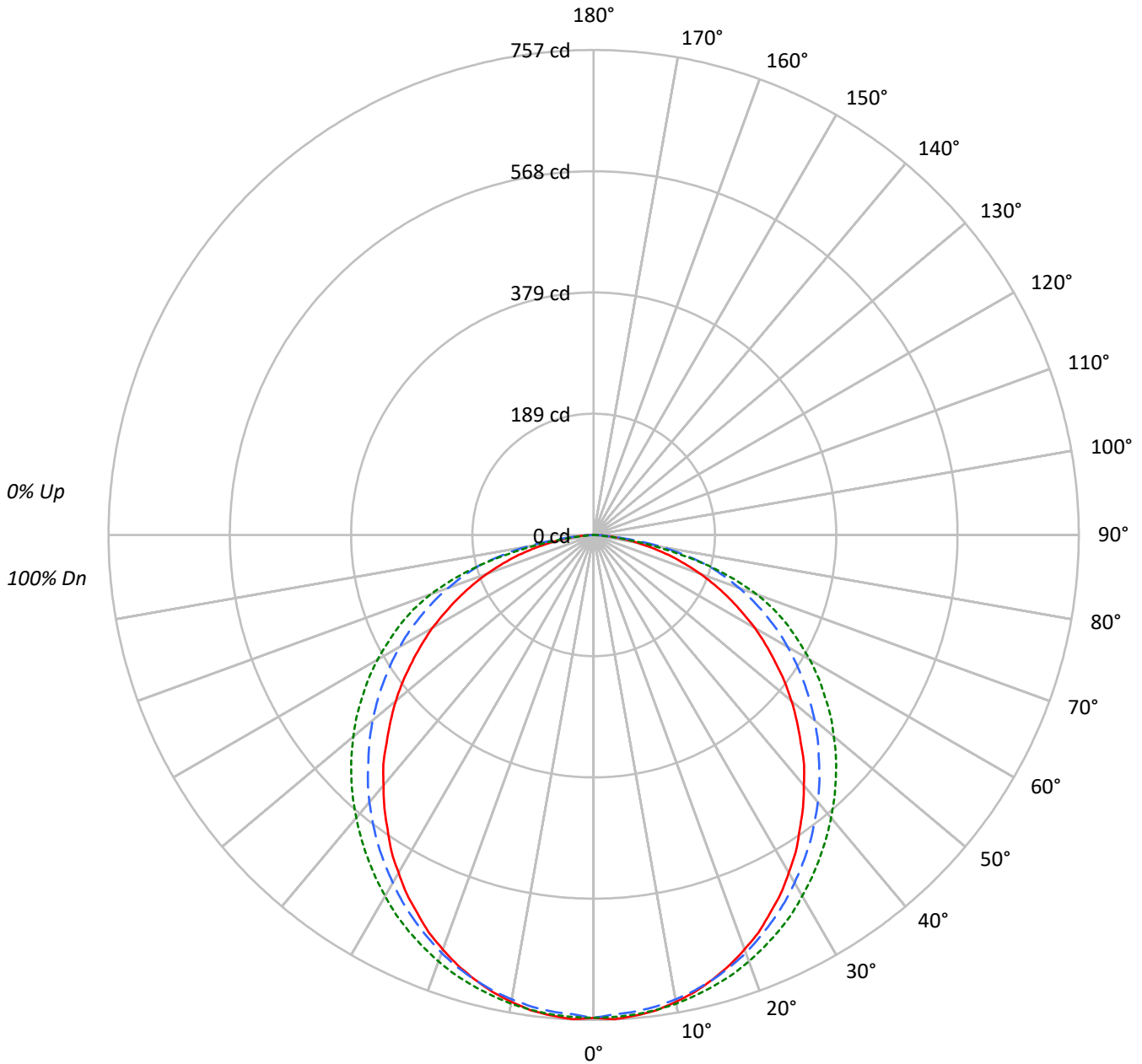
Lumens per Lamp: N/A
Luminaire Lumens: 2188.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83								
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69								
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58								
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49								
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42								
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37								
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32								
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	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	39	31	26	37	30	26	37	30	25	36	30	25	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2128	2128	2128
5°	2134	2116	2129
10°	2121	2110	2130
15°	2099	2100	2129
20°	2068	2086	2128
25°	2028	2065	2126
30°	1985	2044	2122
35°	1932	2026	2120
40°	1880	2006	2123
45°	1823	1984	2134
50°	1769	1975	2149
55°	1702	1969	2168
60°	1642	1972	2198
65°	1558	1978	2232
70°	1462	1993	2230
75°	1324	2011	2018
80°	1087	1736	1434
85°	803	823	330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	3.3
10°-20°	203.8	9.3
20°-30°	306.9	14.0
30°-40°	368.3	16.8
40°-50°	383.9	17.5
50°-60°	355.4	16.2
60°-70°	287.2	13.1
70°-80°	175.1	8.0
80°-90°	36.1	1.7
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°	582.0	26.6
0°-40°	950.3	43.4
0°-60°	1689.6	77.2
0°-90°	2188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	753	751	747	752	751	71
15°	718	719	719	728	728	202
25°	651	655	663	680	683	300
35°	561	569	588	609	615	351
45°	457	470	497	525	535	353
55°	346	364	400	431	441	310
65°	233	256	296	326	334	231
75°	121	148	184	187	185	128
85°	25	37	25	14	10	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	753.8	753.8	753.8	753.8	753.8
2.5°	756.7	754.3	748.9	754.3	753.2
5°	753.2	751.4	746.9	752.3	751.4
7.5°	748.4	746.4	742.5	748.9	747.9
10°	740.1	739.1	736.2	743.6	743.0
12.5°	730.4	729.9	728.4	736.7	736.2
15°	718.2	718.6	718.6	728.4	728.4
17.5°	704.5	705.4	707.4	718.2	719.7
20°	688.4	690.4	694.3	706.5	708.4
22.5°	671.9	673.3	679.1	693.7	695.8
25°	651.3	655.2	663.0	679.6	682.6
27.5°	631.8	635.2	645.9	663.0	668.0
30°	608.9	614.2	627.0	645.5	650.9
32.5°	587.0	592.7	607.4	628.9	633.7
35°	560.6	569.4	587.9	609.4	615.2
37.5°	536.7	544.9	566.0	589.4	596.2
40°	510.3	520.6	544.5	569.4	576.2
42.5°	486.0	495.6	521.6	546.9	556.2
45°	456.7	470.4	497.1	524.9	534.7
47.5°	429.8	443.5	474.3	504.0	512.8
50°	402.9	417.6	449.8	480.6	489.3
52.5°	375.1	390.9	425.4	456.1	466.5
55°	345.9	364.0	400.1	431.3	440.6
57.5°	318.1	336.6	375.1	406.8	416.1
60°	290.8	309.9	349.4	379.6	389.4
62.5°	260.6	283.0	324.0	353.7	361.0
65°	233.2	256.1	296.2	325.9	334.2
67.5°	204.4	229.3	269.3	296.6	304.5
70°	177.2	203.0	241.5	266.9	270.2
72.5°	147.9	174.2	213.2	229.3	229.3
75°	121.4	148.3	184.4	187.4	185.0
77.5°	92.7	122.5	145.9	140.0	134.2
80°	66.9	96.2	106.8	96.2	88.2
82.5°	44.9	69.7	64.3	51.2	45.4
85°	24.8	37.1	25.4	14.1	10.2
87.5°	9.3	8.3	2.4	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)