

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: P732684

Luminaire Tested: **14FCZ2-29-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732684
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-CP375-4000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

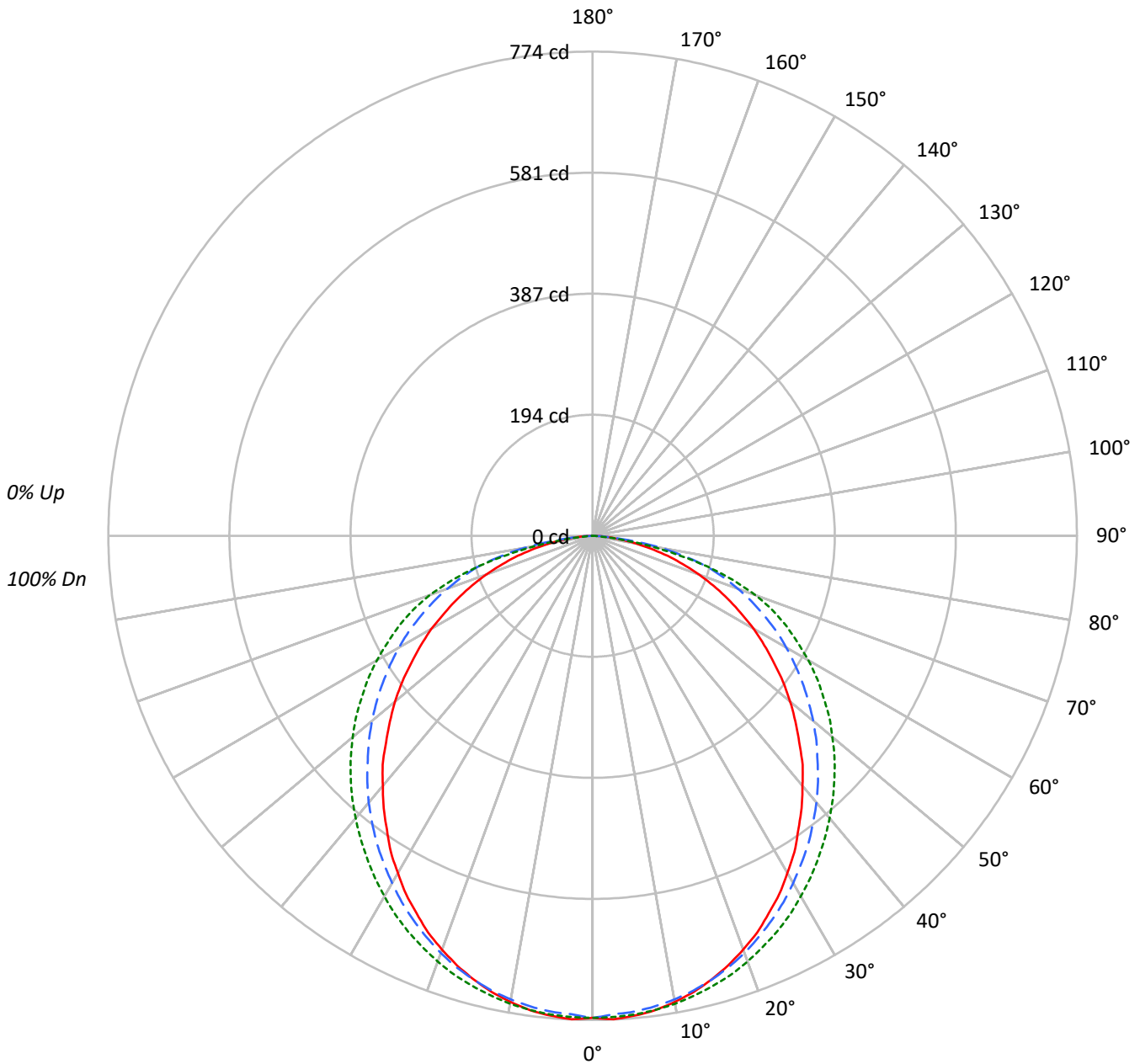
Lumens per Lamp: N/A
Luminaire Lumens: 2237.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	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°	2175	2175	2175
5°	2182	2164	2177
10°	2169	2157	2177
15°	2146	2147	2176
20°	2114	2132	2175
25°	2074	2111	2174
30°	2029	2089	2169
35°	1975	2071	2167
40°	1922	2051	2171
45°	1864	2029	2182
50°	1809	2020	2197
55°	1740	2013	2217
60°	1678	2017	2247
65°	1592	2022	2282
70°	1495	2038	2280
75°	1353	2056	2062
80°	1112	1775	1466
85°	823	842	337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	3.3
10°-20°	208.3	9.3
20°-30°	313.8	14.0
30°-40°	376.6	16.8
40°-50°	392.5	17.5
50°-60°	363.3	16.2
60°-70°	293.6	13.1
70°-80°	179.0	8.0
80°-90°	36.9	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°	595.0	26.6
0°-40°	971.6	43.4
0°-60°	1727.5	77.2
0°-90°	2237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	770	768	764	769	768	73
15°	734	735	735	745	745	207
25°	666	670	678	695	698	307
35°	573	582	601	623	629	359
45°	467	481	508	537	547	361
55°	354	372	409	441	450	317
65°	238	262	303	333	342	236
75°	124	152	188	192	189	130
85°	25	38	26	14	10	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	770.7	770.7	770.7	770.7	770.7
2.5°	773.7	771.2	765.7	771.2	770.1
5°	770.1	768.2	763.7	769.2	768.2
7.5°	765.2	763.1	759.1	765.7	764.6
10°	756.7	755.7	752.7	760.2	759.7
12.5°	746.8	746.2	744.7	753.2	752.7
15°	734.3	734.7	734.7	744.7	744.7
17.5°	720.3	721.2	723.3	734.3	735.8
20°	703.8	705.8	709.8	722.3	724.2
22.5°	686.9	688.4	694.3	709.3	711.3
25°	665.9	669.9	677.8	694.9	697.9
27.5°	646.0	649.4	660.4	677.8	682.9
30°	622.5	628.0	641.0	660.0	665.5
32.5°	600.1	606.0	621.0	643.0	647.9
35°	573.2	582.1	601.1	623.0	628.9
37.5°	548.7	557.1	578.7	602.6	609.6
40°	521.7	532.3	556.7	582.1	589.1
42.5°	496.8	506.7	533.2	559.2	568.7
45°	466.9	480.9	508.2	536.7	546.7
47.5°	439.4	453.4	484.9	515.2	524.3
50°	412.0	426.9	459.9	491.3	500.3
52.5°	383.5	399.6	434.9	466.4	476.9
55°	353.6	372.1	409.1	440.9	450.4
57.5°	325.2	344.1	383.5	416.0	425.4
60°	297.3	316.8	357.2	388.1	398.1
62.5°	266.4	289.3	331.2	361.6	369.1
65°	238.4	261.9	302.8	333.1	341.7
67.5°	209.0	234.4	275.3	303.2	311.3
70°	181.1	207.5	246.9	272.9	276.3
72.5°	151.2	178.1	217.9	234.4	234.4
75°	124.1	151.6	188.5	191.6	189.1
77.5°	94.8	125.2	149.1	143.1	137.2
80°	68.4	98.3	109.2	98.3	90.2
82.5°	45.9	71.3	65.8	52.3	46.4
85°	25.4	37.9	26.0	14.4	10.4
87.5°	9.5	8.5	2.5	2.5	2.5
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)