

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: P732674

Luminaire Tested: **14FCZ2-29-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732674
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-CP187-4000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

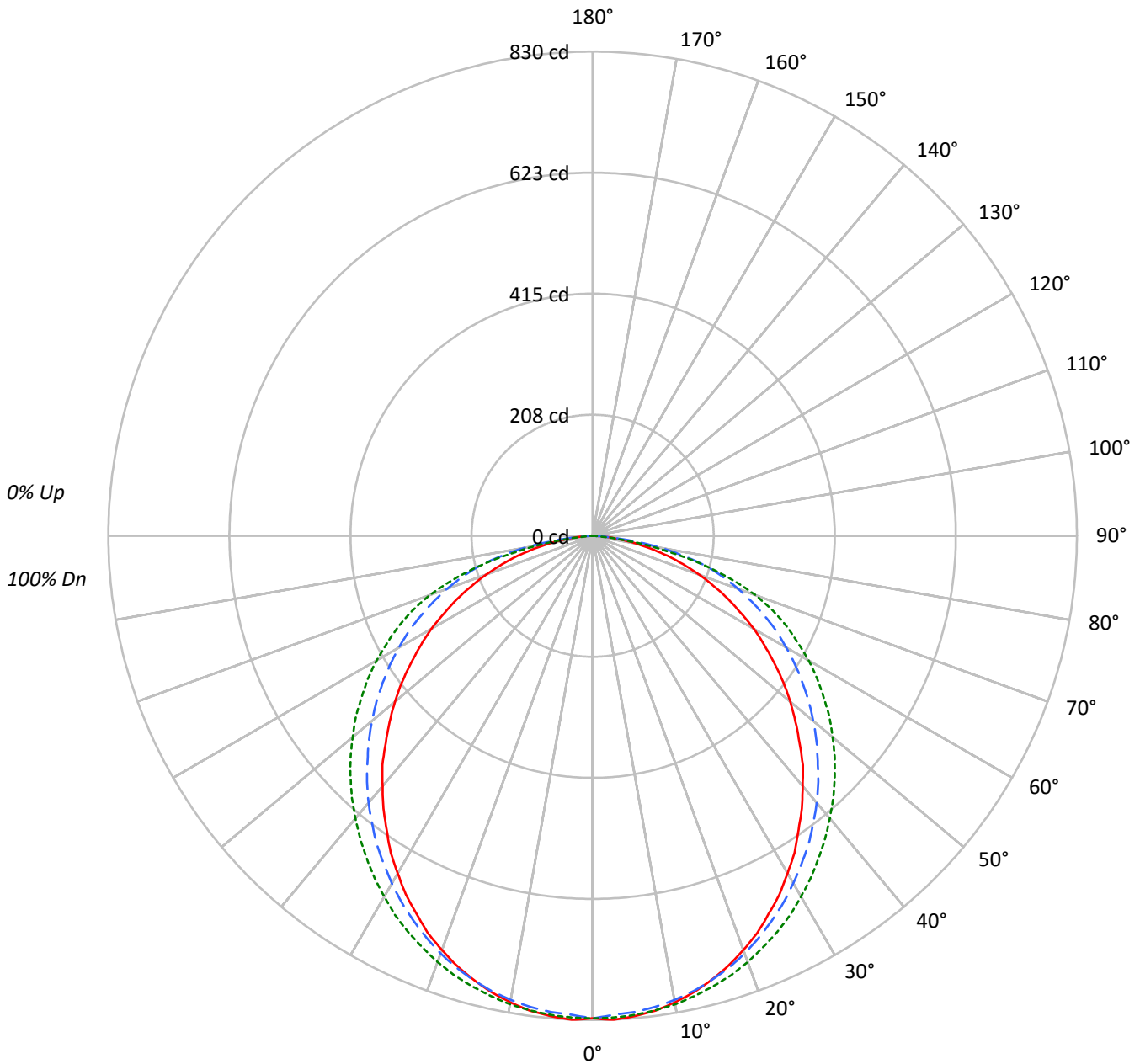
Lumens per Lamp: N/A
Luminaire Lumens: 2401.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2335	2335	2335
5°	2342	2322	2336
10°	2328	2316	2337
15°	2303	2304	2336
20°	2269	2289	2335
25°	2226	2266	2333
30°	2178	2242	2328
35°	2120	2223	2326
40°	2063	2202	2330
45°	2000	2178	2342
50°	1942	2168	2358
55°	1868	2161	2379
60°	1801	2164	2412
65°	1709	2171	2449
70°	1604	2187	2448
75°	1453	2207	2214
80°	1193	1905	1573
85°	884	904	363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	3.3
10°-20°	223.6	9.3
20°-30°	336.8	14.0
30°-40°	404.2	16.8
40°-50°	421.3	17.5
50°-60°	390.0	16.2
60°-70°	315.1	13.1
70°-80°	192.1	8.0
80°-90°	39.7	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°	638.7	26.6
0°-40°	1042.9	43.4
0°-60°	1854.1	77.2
0°-90°	2401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	827	824	820	826	824	78
15°	788	788	788	799	799	222
25°	715	719	728	746	749	329
35°	615	625	645	669	675	385
45°	501	516	546	576	587	387
55°	380	399	439	473	483	340
65°	256	281	325	358	367	253
75°	133	163	202	206	203	140
85°	27	41	28	16	11	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	827.2	827.2	827.2	827.2	827.2
2.5°	830.4	827.8	821.9	827.8	826.6
5°	826.6	824.5	819.6	825.5	824.5
7.5°	821.3	819.1	814.8	821.9	820.7
10°	812.1	811.1	807.9	816.0	815.4
12.5°	801.5	800.9	799.3	808.4	807.9
15°	788.1	788.5	788.5	799.3	799.3
17.5°	773.1	774.1	776.3	788.1	789.7
20°	755.4	757.6	761.9	775.3	777.3
22.5°	737.3	738.9	745.2	761.3	763.5
25°	714.7	719.0	727.5	745.8	749.0
27.5°	693.3	697.0	708.8	727.5	733.0
30°	668.1	674.0	688.0	708.4	714.3
32.5°	644.1	650.4	666.5	690.1	695.4
35°	615.2	624.8	645.1	668.7	675.1
37.5°	589.0	598.0	621.1	646.8	654.3
40°	559.9	571.3	597.5	624.8	632.3
42.5°	533.3	543.9	572.3	600.2	610.4
45°	501.1	516.2	545.5	576.0	586.8
47.5°	471.7	486.7	520.4	553.0	562.7
50°	442.2	458.2	493.6	527.4	536.9
52.5°	411.7	428.9	466.8	500.5	511.9
55°	379.5	399.4	439.1	473.3	483.4
57.5°	349.0	369.4	411.7	446.5	456.6
60°	319.1	340.0	383.4	416.5	427.3
62.5°	285.9	310.6	355.5	388.1	396.2
65°	255.9	281.1	325.0	357.6	366.7
67.5°	224.3	251.6	295.5	325.4	334.1
70°	194.4	222.7	265.0	292.9	296.6
72.5°	162.3	191.2	233.9	251.6	251.6
75°	133.2	162.7	202.4	205.6	203.0
77.5°	101.7	134.4	160.1	153.6	147.2
80°	73.4	105.5	117.2	105.5	96.8
82.5°	49.2	76.5	70.6	56.2	49.8
85°	27.3	40.7	27.9	15.5	11.2
87.5°	10.2	9.1	2.7	2.7	2.7
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)