

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: P734091

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-RDP-B2750-W2D-CA125-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

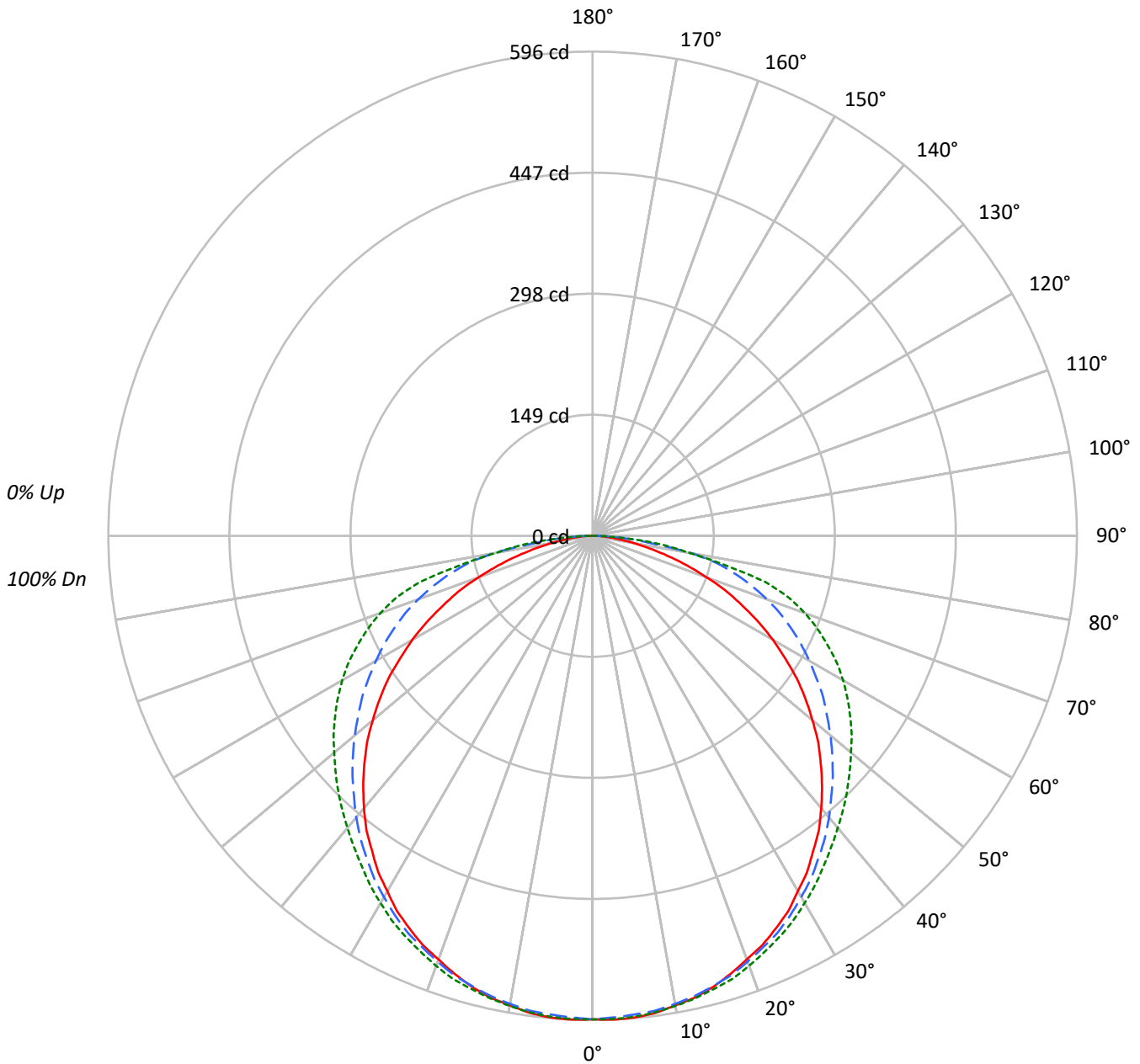
Lumens per Lamp: N/A
Luminaire Lumens: 1893.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	840	840	840
5°	843	838	842
10°	841	838	842
15°	840	838	844
20°	833	838	846
25°	831	839	848
30°	823	837	851
35°	815	835	854
40°	806	834	865
45°	793	834	884
50°	775	839	911
55°	755	852	952
60°	723	869	1004
65°	677	900	1066
70°	616	941	1147
75°	522	994	1199
80°	412	1000	969
85°	304	761	850



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	3.0
10°-20°	162.5	8.6
20°-30°	248.5	13.1
30°-40°	303.8	16.0
40°-50°	323.8	17.1
50°-60°	309.6	16.4
60°-70°	262.3	13.9
70°-80°	176.3	9.3
80°-90°	49.7	2.6
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°	467.5	24.7
0°-40°	771.3	40.7
0°-60°	1404.7	74.2
0°-90°	1893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1893.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	595	594	592	594	594	57
15°	575	575	574	578	577	162
25°	533	535	539	544	545	246
35°	473	477	484	494	496	296
45°	397	404	418	436	443	306
55°	307	318	346	374	387	273
65°	203	224	270	305	319	201
75°	96	130	182	213	220	103
85°	19	38	47	51	52	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	595.3	595.3	595.3	595.3	595.3
2.5°	596.2	596.2	593.4	595.3	595.3
5°	595.3	594.4	591.6	594.4	594.4
7.5°	592.5	591.6	589.6	592.5	591.6
10°	586.8	586.8	585.0	587.8	587.8
12.5°	582.2	581.3	580.2	584.0	583.1
15°	574.7	574.7	573.7	578.4	577.4
17.5°	565.3	566.2	567.1	570.8	571.9
20°	554.9	556.8	557.7	563.4	563.4
22.5°	545.5	546.5	548.3	554.0	554.0
25°	533.4	535.2	538.9	543.7	544.6
27.5°	521.1	522.0	526.8	533.4	534.3
30°	505.2	508.0	513.6	521.1	522.0
32.5°	491.0	493.9	500.4	508.0	509.8
35°	473.3	477.0	484.5	493.9	495.8
37.5°	457.3	460.1	469.5	479.8	482.6
40°	437.6	443.1	452.5	464.8	469.5
42.5°	417.9	423.4	434.8	450.7	456.4
45°	397.2	403.7	417.9	435.7	443.1
47.5°	376.6	384.0	400.0	420.6	429.1
50°	353.0	362.4	382.1	405.7	415.1
52.5°	330.5	341.8	363.4	389.7	401.9
55°	307.0	318.3	346.4	373.7	386.9
57.5°	280.8	295.7	326.7	357.8	371.8
60°	256.3	270.4	308.0	341.8	355.8
62.5°	230.1	248.9	289.2	324.8	339.0
65°	202.8	223.5	269.5	305.1	319.3
67.5°	178.4	201.0	249.8	285.4	299.6
70°	149.3	177.4	228.1	263.8	278.0
72.5°	122.0	153.1	205.6	240.4	253.5
75°	95.8	130.5	182.2	213.2	219.8
77.5°	71.3	108.0	157.7	170.8	166.2
80°	50.7	86.4	123.0	116.4	119.2
82.5°	32.8	65.8	76.1	86.4	89.2
85°	18.8	38.5	47.0	50.7	52.5
87.5°	8.5	14.0	18.8	18.8	17.9
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)