

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: P734103

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734103
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-CP250-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RDP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

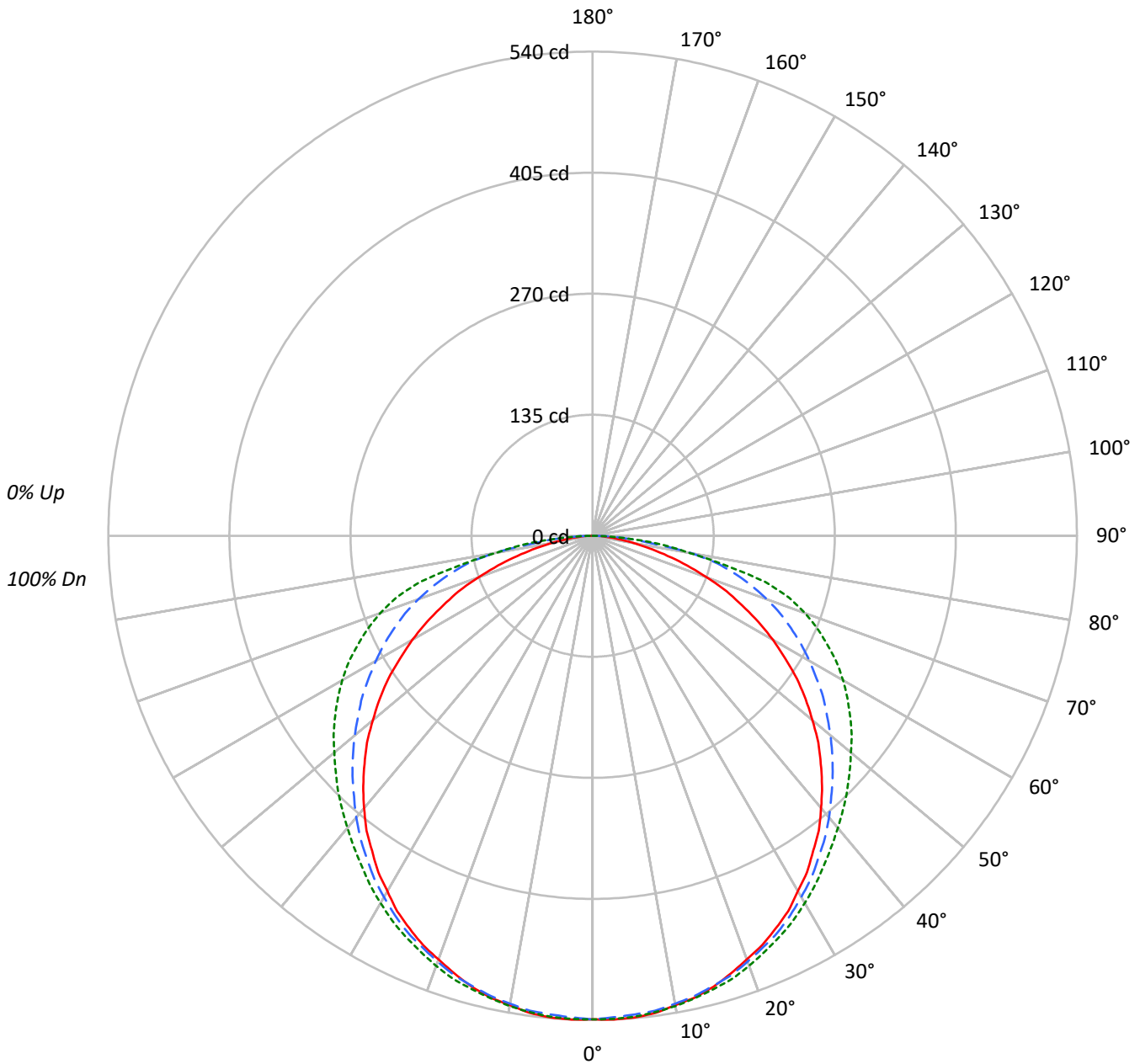
Lumens per Lamp: N/A
Luminaire Lumens: 1715.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): 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	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°	761	761	761
5°	764	759	763
10°	762	760	763
15°	761	759	764
20°	755	759	767
25°	752	760	768
30°	746	758	771
35°	739	756	774
40°	730	755	784
45°	718	756	801
50°	702	760	826
55°	685	772	862
60°	655	788	910
65°	613	815	966
70°	558	853	1039
75°	473	900	1086
80°	374	905	878
85°	275	690	771



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	3.0
10°-20°	147.2	8.6
20°-30°	225.2	13.1
30°-40°	275.3	16.0
40°-50°	293.4	17.1
50°-60°	280.5	16.4
60°-70°	237.6	13.9
70°-80°	159.7	9.3
80°-90°	45.1	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°	423.6	24.7
0°-40°	698.8	40.7
0°-60°	1272.7	74.2
0°-90°	1715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1715.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	539	539	539	539	539	
5°	539	538	536	538	538	51
15°	521	521	520	524	523	147
25°	483	485	488	493	493	223
35°	429	432	439	447	449	269
45°	360	366	379	395	402	278
55°	278	288	314	339	350	248
65°	184	202	244	276	289	182
75°	87	118	165	193	199	93
85°	17	35	43	46	48	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	539.3	539.3	539.3	539.3	539.3
2.5°	540.1	540.1	537.6	539.3	539.3
5°	539.3	538.5	535.9	538.5	538.5
7.5°	536.8	535.9	534.2	536.8	535.9
10°	531.6	531.6	530.0	532.6	532.6
12.5°	527.4	526.6	525.7	529.1	528.2
15°	520.7	520.7	519.7	524.0	523.1
17.5°	512.1	513.0	513.8	517.2	518.1
20°	502.7	504.4	505.3	510.4	510.4
22.5°	494.2	495.1	496.8	501.9	501.9
25°	483.2	484.9	488.2	492.6	493.4
27.5°	472.1	473.0	477.3	483.2	484.0
30°	457.7	460.2	465.3	472.1	473.0
32.5°	444.9	447.4	453.4	460.2	461.9
35°	428.8	432.1	438.9	447.4	449.2
37.5°	414.3	416.9	425.4	434.7	437.3
40°	396.4	401.5	410.0	421.1	425.4
42.5°	378.6	383.6	393.9	408.3	413.5
45°	359.8	365.8	378.6	394.7	401.5
47.5°	341.2	347.9	362.4	381.1	388.7
50°	319.8	328.3	346.2	367.5	376.0
52.5°	299.4	309.7	329.3	353.1	364.1
55°	278.2	288.3	313.9	338.6	350.5
57.5°	254.4	267.9	296.0	324.1	336.8
60°	232.2	244.9	279.0	309.7	322.4
62.5°	208.4	225.5	262.0	294.3	307.1
65°	183.7	202.5	244.1	276.4	289.3
67.5°	161.7	182.1	226.3	258.6	271.4
70°	135.3	160.7	206.7	239.0	251.8
72.5°	110.6	138.7	186.3	217.8	229.7
75°	86.8	118.3	165.0	193.1	199.1
77.5°	64.6	97.9	142.9	154.8	150.6
80°	46.0	78.3	111.4	105.4	108.0
82.5°	29.7	59.6	68.9	78.3	80.8
85°	17.0	34.9	42.6	46.0	47.6
87.5°	7.7	12.7	17.0	17.0	16.2
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)