

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: P733963

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733963
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: 24FCZ2-30-RDP-B2750-W2D-CA08-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

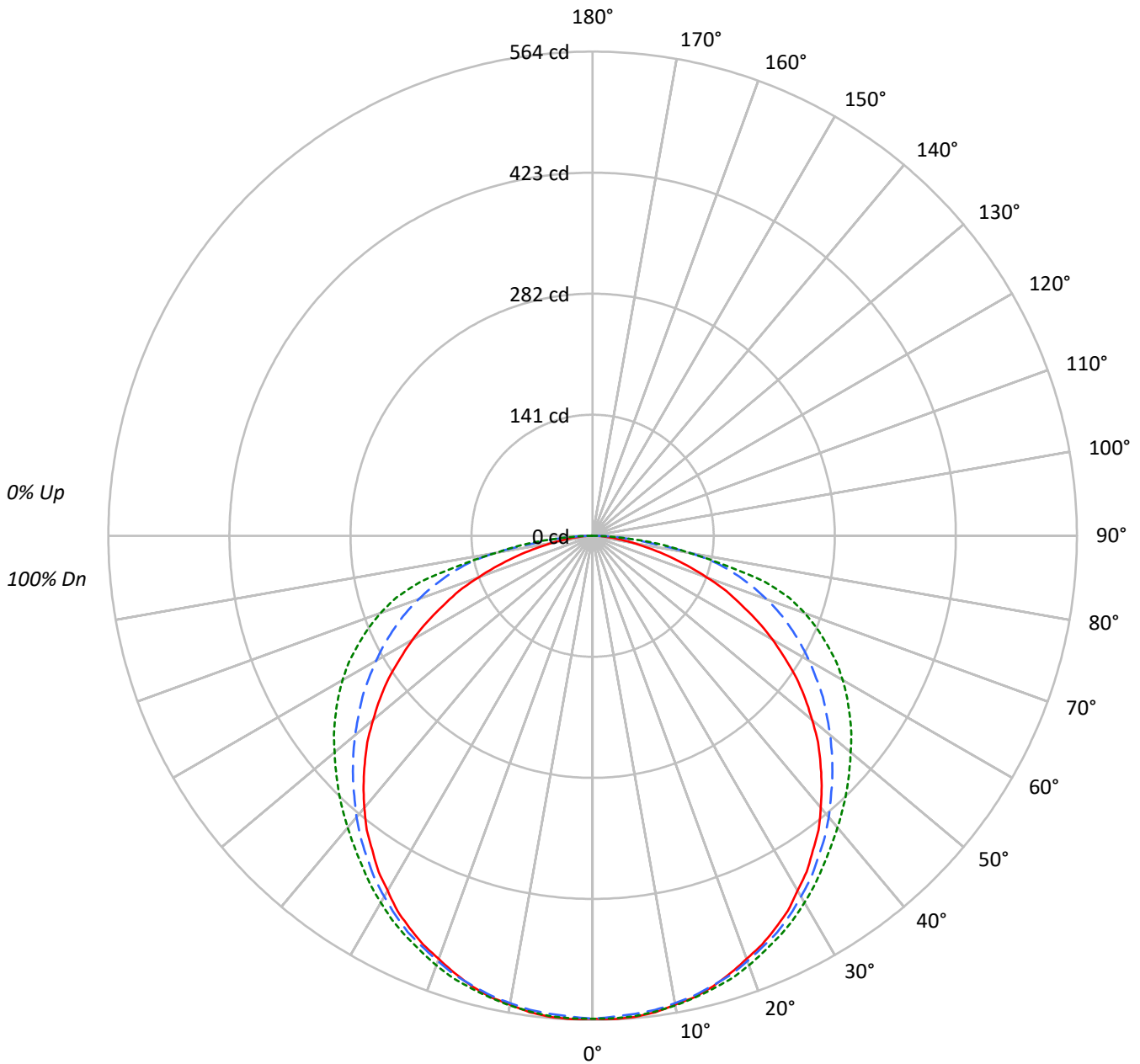
Lumens per Lamp: N/A
Luminaire Lumens: 1789.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	794	794	794
5°	797	792	796
10°	795	792	796
15°	794	792	797
20°	788	792	800
25°	785	793	802
30°	778	791	804
35°	771	789	807
40°	762	788	817
45°	749	788	836
50°	732	793	861
55°	714	806	900
60°	684	821	949
65°	640	851	1008
70°	582	890	1084
75°	493	939	1133
80°	389	944	916
85°	288	719	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	3.0
10°-20°	153.6	8.6
20°-30°	234.9	13.1
30°-40°	287.1	16.0
40°-50°	306.0	17.1
50°-60°	292.6	16.4
60°-70°	247.9	13.9
70°-80°	166.6	9.3
80°-90°	47.0	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°	441.8	24.7
0°-40°	729.0	40.7
0°-60°	1327.6	74.2
0°-90°	1789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1789.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	563	563	563	563	563	
5°	563	562	559	562	562	53
15°	543	543	542	547	546	153
25°	504	506	509	514	515	232
35°	447	451	458	467	468	280
45°	375	382	395	412	419	290
55°	290	301	327	353	366	258
65°	192	211	255	288	302	190
75°	90	123	172	202	208	97
85°	18	36	44	48	50	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	562.6	562.6	562.6	562.6	562.6
2.5°	563.5	563.5	560.8	562.6	562.6
5°	562.6	561.7	559.1	561.7	561.7
7.5°	559.9	559.1	557.2	559.9	559.1
10°	554.6	554.6	552.9	555.5	555.5
12.5°	550.2	549.3	548.4	551.9	551.0
15°	543.1	543.1	542.2	546.7	545.7
17.5°	534.2	535.1	536.0	539.5	540.4
20°	524.4	526.2	527.1	532.4	532.4
22.5°	515.5	516.5	518.2	523.5	523.5
25°	504.1	505.8	509.3	513.8	514.7
27.5°	492.5	493.4	497.9	504.1	504.9
30°	477.4	480.1	485.3	492.5	493.4
32.5°	464.0	466.7	472.9	480.1	481.8
35°	447.3	450.8	457.8	466.7	468.5
37.5°	432.2	434.8	443.7	453.5	456.1
40°	413.5	418.8	427.7	439.2	443.7
42.5°	394.9	400.2	410.9	426.0	431.3
45°	375.3	381.6	394.9	411.7	418.8
47.5°	355.9	362.9	378.0	397.5	405.5
50°	333.6	342.5	361.1	383.4	392.3
52.5°	312.3	323.0	343.5	368.3	379.8
55°	290.2	300.8	327.4	353.2	365.6
57.5°	265.4	279.5	308.8	338.1	351.4
60°	242.2	255.5	291.0	323.0	336.3
62.5°	217.4	235.2	273.3	307.0	320.4
65°	191.6	211.2	254.7	288.4	301.7
67.5°	168.6	189.9	236.0	269.7	283.1
70°	141.1	167.7	215.6	249.3	262.7
72.5°	115.3	144.7	194.3	227.2	239.6
75°	90.5	123.4	172.2	201.5	207.7
77.5°	67.4	102.1	149.0	161.5	157.1
80°	47.9	81.6	116.2	110.0	112.7
82.5°	31.0	62.2	71.9	81.6	84.3
85°	17.8	36.4	44.4	47.9	49.6
87.5°	8.0	13.3	17.8	17.8	16.9
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)