

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: P734107

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CP375-3000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734107
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-CP375-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RDP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

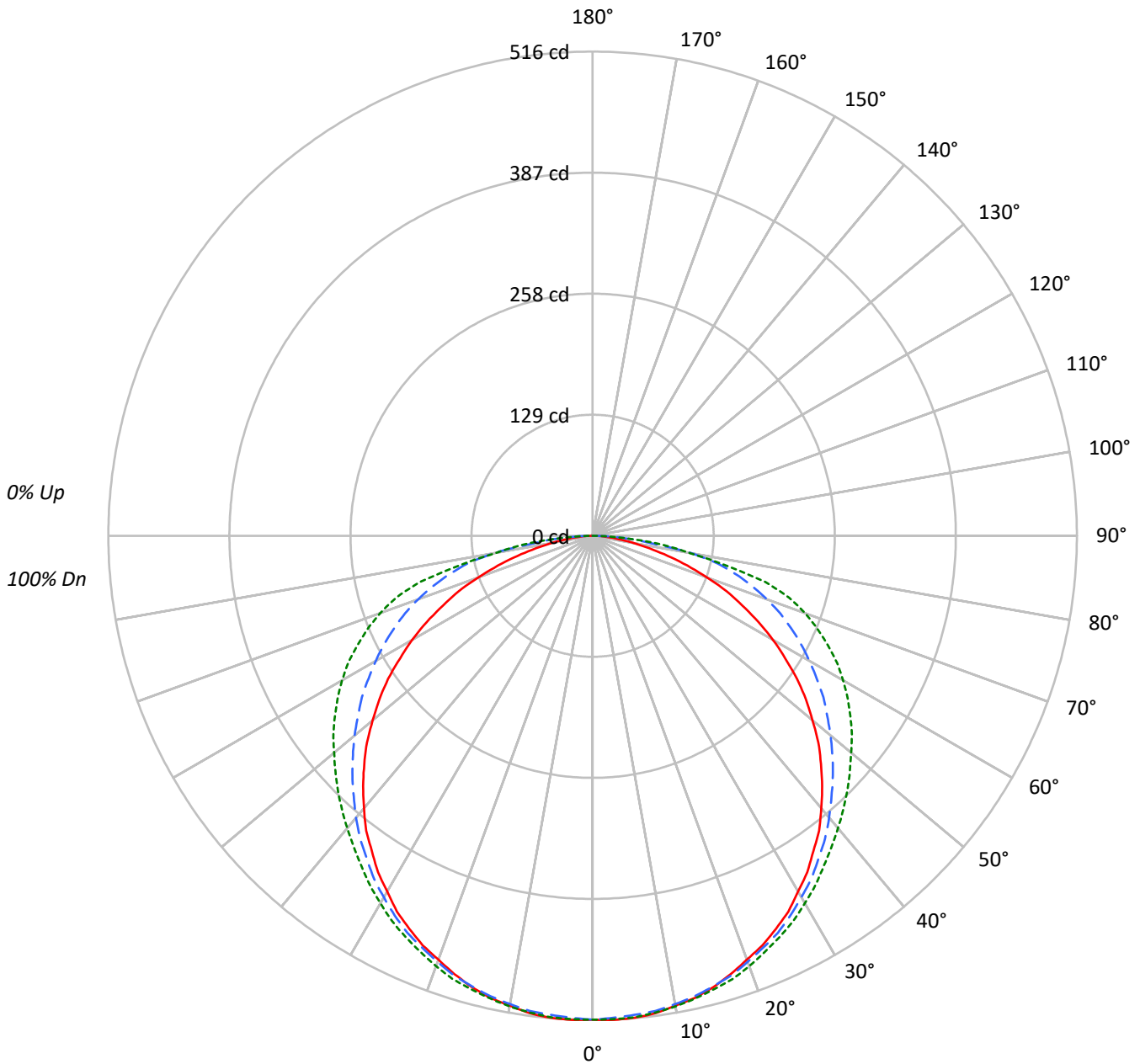
Lumens per Lamp: N/A
Luminaire Lumens: 1640.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	68	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°	728	728	728
5°	731	726	730
10°	729	726	730
15°	727	726	731
20°	722	726	733
25°	720	727	735
30°	713	725	737
35°	706	723	740
40°	698	722	749
45°	687	723	766
50°	671	727	790
55°	655	738	825
60°	627	753	870
65°	587	779	924
70°	534	815	994
75°	453	860	1038
80°	357	866	840
85°	264	659	737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	3.0
10°-20°	140.8	8.6
20°-30°	215.3	13.1
30°-40°	263.2	16.0
40°-50°	280.5	17.1
50°-60°	268.2	16.4
60°-70°	227.2	13.9
70°-80°	152.7	9.3
80°-90°	43.1	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°	405.0	24.7
0°-40°	668.2	40.7
0°-60°	1217.0	74.2
0°-90°	1640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	516	515	512	515	515	49
15°	498	498	497	501	500	140
25°	462	464	467	471	472	213
35°	410	413	420	428	430	257
45°	344	350	362	377	384	265
55°	266	276	300	324	335	237
65°	176	194	233	264	277	174
75°	83	113	158	185	190	89
85°	16	33	41	44	46	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.7	515.7	515.7	515.7	515.7
2.5°	516.5	516.5	514.1	515.7	515.7
5°	515.7	515.0	512.5	515.0	515.0
7.5°	513.3	512.5	510.8	513.3	512.5
10°	508.4	508.4	506.8	509.3	509.3
12.5°	504.4	503.6	502.7	505.9	505.1
15°	497.9	497.9	497.0	501.1	500.2
17.5°	489.7	490.5	491.3	494.6	495.4
20°	480.7	482.4	483.2	488.1	488.1
22.5°	472.6	473.5	475.0	479.9	479.9
25°	462.1	463.7	466.9	471.0	471.8
27.5°	451.5	452.3	456.4	462.1	462.9
30°	437.7	440.1	444.9	451.5	452.3
32.5°	425.4	427.9	433.5	440.1	441.7
35°	410.0	413.2	419.7	427.9	429.5
37.5°	396.2	398.6	406.8	415.7	418.1
40°	379.1	383.9	392.1	402.6	406.8
42.5°	362.0	366.8	376.7	390.5	395.4
45°	344.1	349.8	362.0	377.4	383.9
47.5°	326.2	332.7	346.5	364.4	371.7
50°	305.8	314.0	331.0	351.4	359.6
52.5°	286.3	296.1	314.9	337.6	348.2
55°	266.0	275.7	300.1	323.8	335.2
57.5°	243.3	256.2	283.1	310.0	322.1
60°	222.1	234.2	266.8	296.1	308.3
62.5°	199.3	215.6	250.5	281.4	293.7
65°	175.7	193.6	233.4	264.3	276.6
67.5°	154.6	174.1	216.4	247.3	259.5
70°	129.4	153.7	197.6	228.5	240.8
72.5°	105.7	132.6	178.1	208.2	219.6
75°	83.0	113.1	157.8	184.7	190.4
77.5°	61.8	93.6	136.6	148.0	144.0
80°	43.9	74.8	106.5	100.8	103.3
82.5°	28.4	57.0	65.9	74.8	77.3
85°	16.3	33.3	40.7	43.9	45.5
87.5°	7.4	12.2	16.3	16.3	15.5
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)