

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: P734108

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CP375-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734108
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-CP375-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RDP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

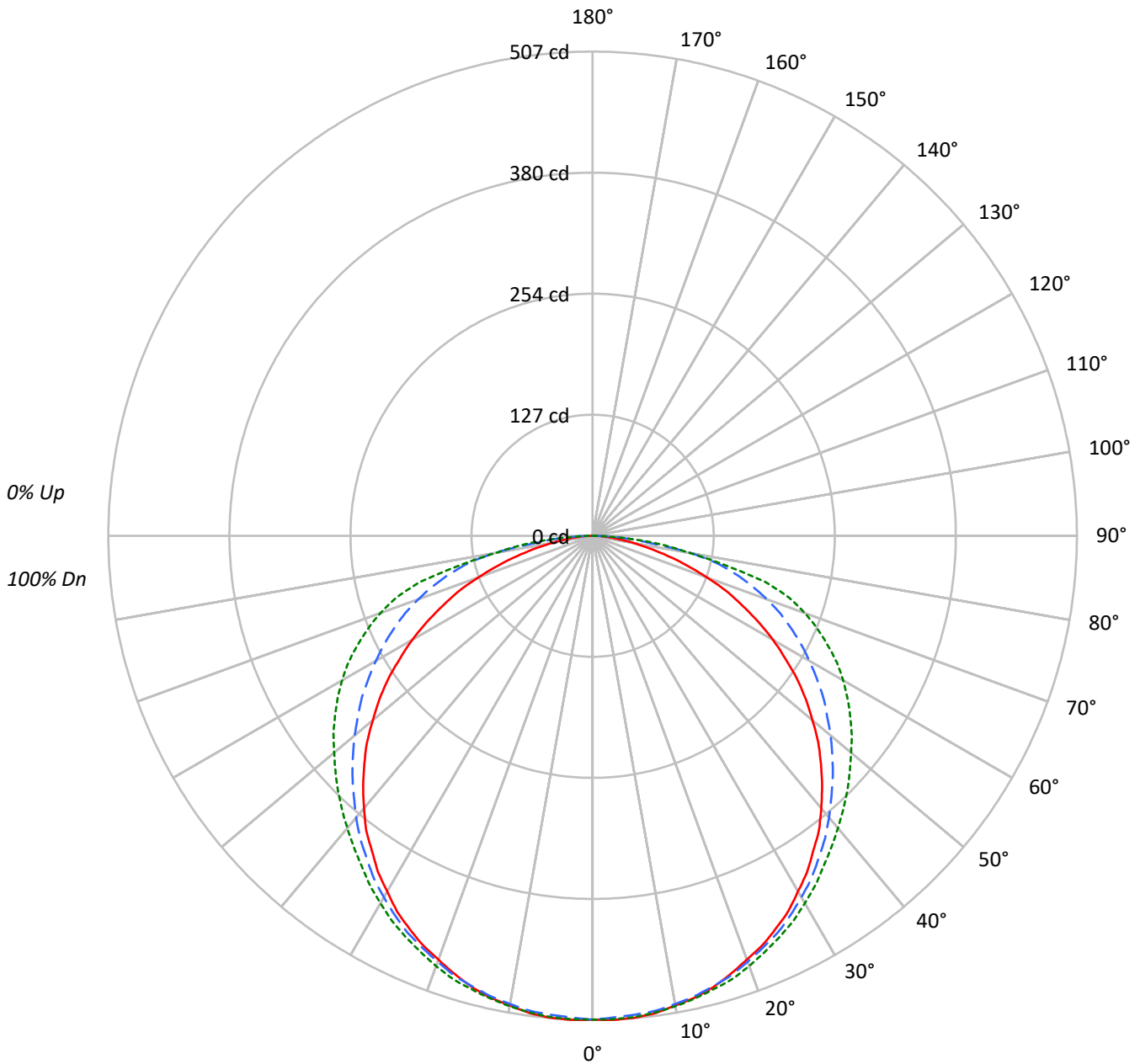
Lumens per Lamp: N/A
Luminaire Lumens: 1611.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					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	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°	715	715	715
5°	718	713	717
10°	716	714	717
15°	715	713	718
20°	709	713	720
25°	707	714	722
30°	701	712	724
35°	694	710	727
40°	686	709	736
45°	675	710	753
50°	660	714	776
55°	643	725	810
60°	616	740	855
65°	576	766	907
70°	524	801	976
75°	444	845	1020
80°	351	850	825
85°	259	648	724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	3.0
10°-20°	138.3	8.6
20°-30°	211.5	13.1
30°-40°	258.6	16.0
40°-50°	275.6	17.1
50°-60°	263.5	16.4
60°-70°	223.2	13.9
70°-80°	150.0	9.3
80°-90°	42.3	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°	397.9	24.7
0°-40°	656.4	40.7
0°-60°	1195.5	74.2
0°-90°	1611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	507	506	503	506	506	48
15°	489	489	488	492	491	138
25°	454	456	459	463	464	209
35°	403	406	412	420	422	252
45°	338	344	356	371	377	261
55°	261	271	295	318	329	233
65°	173	190	229	260	272	171
75°	82	111	155	181	187	87
85°	16	33	40	43	45	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	506.6	506.6	506.6	506.6	506.6
2.5°	507.4	507.4	505.0	506.6	506.6
5°	506.6	505.8	503.4	505.8	505.8
7.5°	504.2	503.4	501.8	504.2	503.4
10°	499.4	499.4	497.9	500.3	500.3
12.5°	495.4	494.7	493.8	497.0	496.2
15°	489.1	489.1	488.2	492.3	491.4
17.5°	481.1	481.9	482.6	485.8	486.7
20°	472.2	473.9	474.6	479.4	479.4
22.5°	464.2	465.1	466.6	471.4	471.4
25°	453.9	455.5	458.6	462.7	463.5
27.5°	443.5	444.3	448.3	453.9	454.7
30°	429.9	432.3	437.1	443.5	444.3
32.5°	417.9	420.3	425.9	432.3	433.9
35°	402.8	405.9	412.3	420.3	421.9
37.5°	389.2	391.6	399.6	408.3	410.7
40°	372.4	377.1	385.1	395.5	399.6
42.5°	355.6	360.4	370.0	383.6	388.4
45°	338.0	343.6	355.6	370.8	377.1
47.5°	320.5	326.8	340.4	357.9	365.2
50°	300.4	308.4	325.2	345.2	353.2
52.5°	281.3	290.9	309.3	331.6	342.0
55°	261.3	270.8	294.8	318.1	329.2
57.5°	239.0	251.7	278.1	304.5	316.4
60°	218.1	230.1	262.1	290.9	302.8
62.5°	195.8	211.8	246.1	276.4	288.5
65°	172.6	190.2	229.3	259.7	271.7
67.5°	151.9	171.0	212.6	242.9	254.9
70°	127.1	151.0	194.1	224.5	236.5
72.5°	103.9	130.3	175.0	204.6	215.7
75°	81.5	111.1	155.0	181.4	187.0
77.5°	60.7	91.9	134.2	145.4	141.4
80°	43.2	73.5	104.6	99.0	101.5
82.5°	27.9	56.0	64.7	73.5	75.9
85°	16.0	32.8	40.0	43.2	44.7
87.5°	7.2	11.9	16.0	16.0	15.2
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)