

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: P732590

Luminaire Tested: **14FCZ2-25-RDP-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-RDP-B2750-W2D-CA08-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

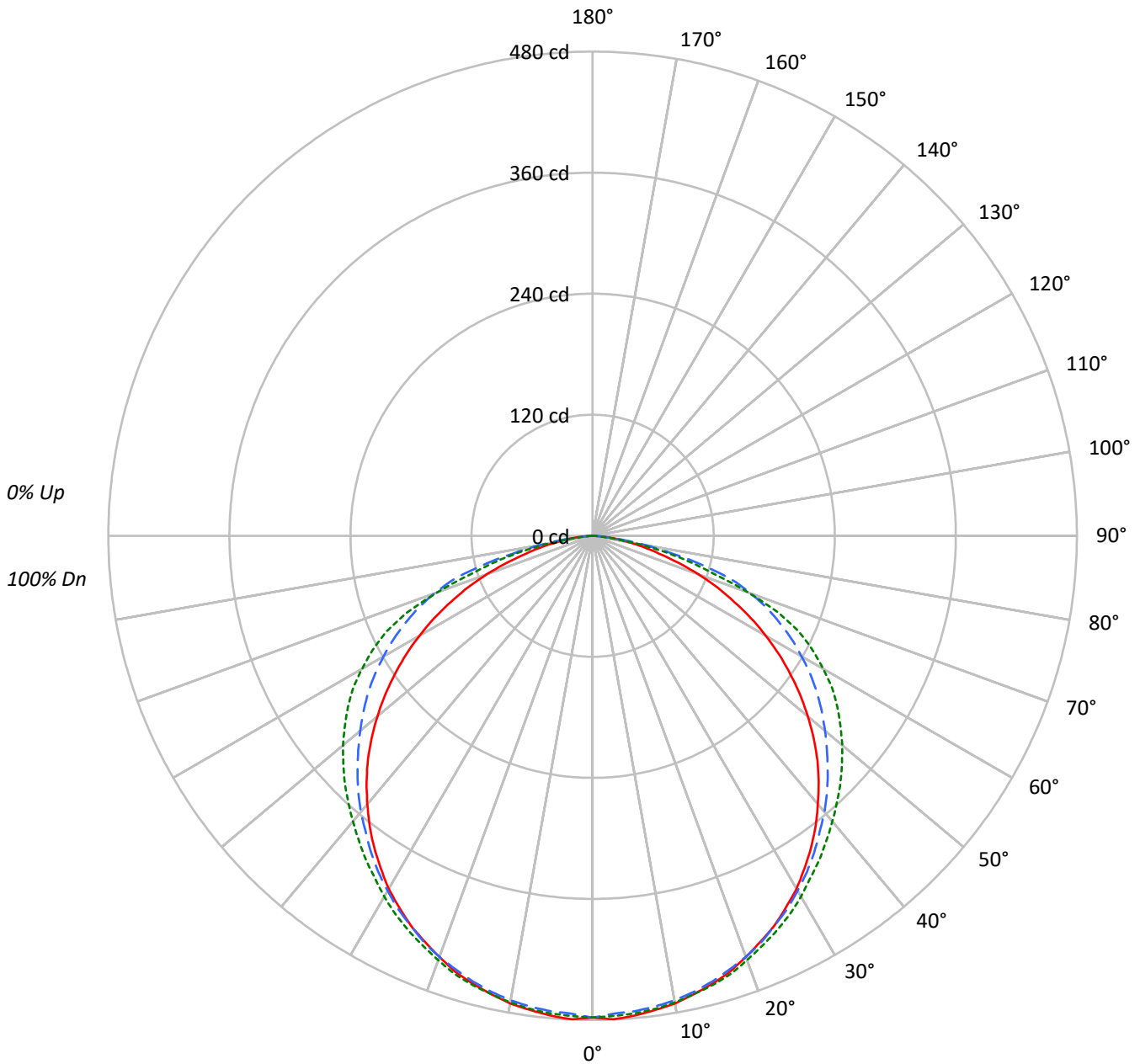
Lumens per Lamp: N/A
Luminaire Lumens: 1426.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1348	1348	1348
5°	1353	1341	1347
10°	1350	1340	1347
15°	1343	1337	1347
20°	1334	1334	1345
25°	1328	1328	1345
30°	1317	1325	1346
35°	1300	1320	1350
40°	1280	1317	1362
45°	1258	1315	1386
50°	1223	1320	1418
55°	1178	1337	1457
60°	1118	1351	1490
65°	1033	1368	1509
70°	919	1378	1350
75°	742	1238	1081
80°	579	870	705
85°	398	253	181



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	3.2
10°-20°	129.7	9.1
20°-30°	197.5	13.8
30°-40°	240.6	16.9
40°-50°	255.2	17.9
50°-60°	240.8	16.9
60°-70°	194.4	13.6
70°-80°	105.5	7.4
80°-90°	17.1	1.2
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°	372.4	26.1
0°-40°	612.9	43.0
0°-60°	1109.0	77.8
0°-90°	1426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1426.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	478	476	473	476	475	45
15°	460	459	458	461	461	130
25°	426	425	426	431	432	196
35°	377	380	383	391	392	236
45°	315	320	330	342	347	243
55°	239	249	272	289	296	214
65°	155	174	205	222	226	153
75°	68	99	114	102	99	74
85°	12	13	8	7	6	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	477.6	477.6	477.6	477.6	477.6
2.5°	479.8	477.6	474.2	477.6	476.5
5°	477.6	476.5	473.1	476.5	475.4
7.5°	474.2	474.2	470.9	473.1	473.1
10°	470.9	469.8	467.6	470.9	469.8
12.5°	465.3	464.2	463.1	466.4	465.3
15°	459.7	458.6	457.5	461.0	461.0
17.5°	453.0	452.0	450.9	455.4	455.4
20°	444.2	444.2	444.2	448.7	447.6
22.5°	435.3	435.3	436.4	440.9	439.8
25°	426.4	425.3	426.4	430.8	431.9
27.5°	415.2	416.3	417.4	421.9	423.0
30°	404.2	405.3	406.4	412.0	413.1
32.5°	390.8	393.0	395.2	401.9	401.9
35°	377.4	379.6	383.0	390.8	391.9
37.5°	363.0	365.2	369.7	378.5	380.7
40°	347.3	350.7	357.4	366.3	369.7
42.5°	331.7	336.2	344.0	354.0	358.5
45°	315.1	319.5	329.5	341.8	347.3
47.5°	297.2	302.8	315.1	330.6	335.1
50°	278.4	286.2	300.6	317.3	322.9
52.5°	259.4	268.3	286.2	303.9	309.5
55°	239.3	249.3	271.7	289.4	296.1
57.5°	219.3	230.5	256.0	275.0	281.7
60°	198.1	211.5	239.3	258.3	263.9
62.5°	177.0	192.5	222.7	241.5	246.0
65°	154.7	173.7	204.8	221.6	226.0
67.5°	133.6	155.8	187.1	199.2	199.2
70°	111.4	135.8	167.0	170.3	163.6
72.5°	89.1	116.9	144.8	132.5	126.9
75°	68.0	99.1	113.5	102.5	99.1
77.5°	51.2	80.1	80.1	73.4	71.2
80°	35.6	61.3	53.5	46.8	43.4
82.5°	23.3	34.5	27.8	22.2	19.0
85°	12.3	13.4	7.8	6.7	5.6
87.5°	4.5	2.2	1.1	2.2	1.1
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)