

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: P732425

Luminaire Tested: **14FCZ2-20-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-B2750-W2D-CP187-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

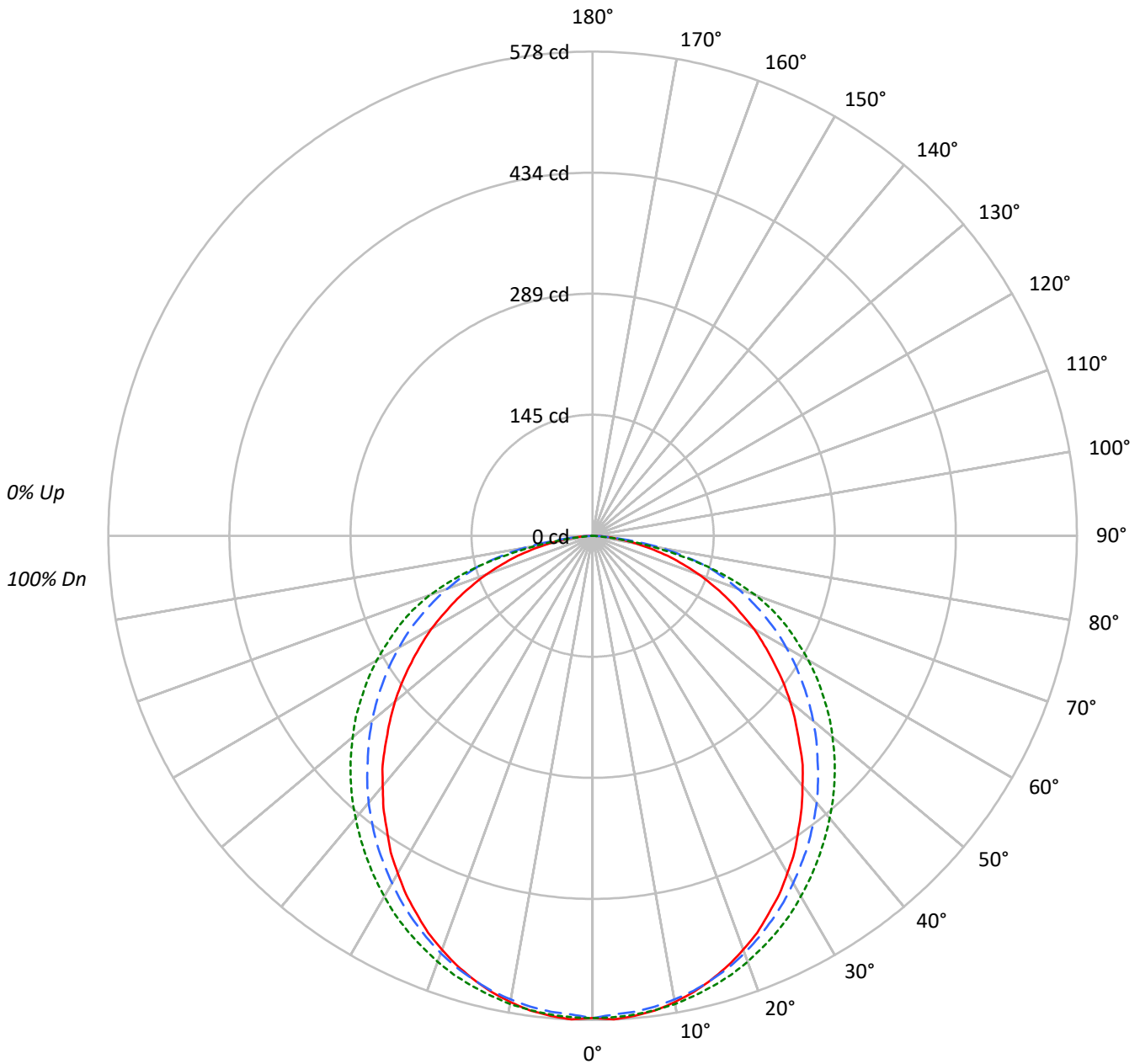
Lumens per Lamp: N/A
Luminaire Lumens: 1671.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1625	1625	1625
5°	1630	1616	1626
10°	1620	1611	1627
15°	1603	1604	1626
20°	1579	1593	1625
25°	1549	1577	1624
30°	1516	1561	1620
35°	1476	1547	1619
40°	1436	1532	1622
45°	1392	1515	1630
50°	1351	1508	1641
55°	1300	1504	1656
60°	1254	1506	1679
65°	1190	1511	1704
70°	1117	1522	1703
75°	1011	1536	1541
80°	831	1326	1096
85°	615	628	253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	3.3
10°-20°	155.6	9.3
20°-30°	234.4	14.0
30°-40°	281.3	16.8
40°-50°	293.2	17.5
50°-60°	271.4	16.2
60°-70°	219.3	13.1
70°-80°	133.7	8.0
80°-90°	27.6	1.7
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°	444.5	26.6
0°-40°	725.8	43.4
0°-60°	1290.4	77.2
0°-90°	1671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	575	574	570	574	574	55
15°	548	549	549	556	556	155
25°	497	500	506	519	521	229
35°	428	435	449	465	470	268
45°	349	359	380	401	408	270
55°	264	278	306	329	336	237
65°	178	196	226	249	255	176
75°	93	113	141	143	141	97
85°	19	28	19	11	8	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	575.7	575.7	575.7	575.7	575.7
2.5°	577.9	576.1	572.0	576.1	575.3
5°	575.3	573.8	570.4	574.5	573.8
7.5°	571.6	570.0	567.1	572.0	571.2
10°	565.2	564.5	562.2	567.9	567.5
12.5°	557.8	557.4	556.3	562.6	562.2
15°	548.5	548.8	548.8	556.3	556.3
17.5°	538.0	538.7	540.3	548.5	549.6
20°	525.7	527.3	530.2	539.6	541.0
22.5°	513.1	514.2	518.6	529.8	531.4
25°	497.4	500.4	506.3	519.1	521.3
27.5°	482.5	485.1	493.3	506.3	510.1
30°	465.0	469.1	478.8	493.0	497.1
32.5°	448.3	452.7	463.9	480.3	484.0
35°	428.2	434.8	449.0	465.4	469.8
37.5°	409.9	416.2	432.3	450.1	455.3
40°	389.7	397.6	415.9	434.8	440.1
42.5°	371.1	378.5	398.3	417.7	424.8
45°	348.8	359.2	379.6	400.9	408.4
47.5°	328.3	338.7	362.2	384.9	391.6
50°	307.7	318.9	343.5	367.0	373.7
52.5°	286.5	298.5	324.9	348.4	356.3
55°	264.1	278.0	305.6	329.4	336.5
57.5°	242.9	257.1	286.5	310.7	317.8
60°	222.1	236.6	266.8	289.9	297.4
62.5°	199.0	216.1	247.4	270.1	275.7
65°	178.1	195.6	226.2	248.9	255.2
67.5°	156.1	175.1	205.7	226.5	232.5
70°	135.3	155.0	184.4	203.8	206.4
72.5°	112.9	133.0	162.8	175.1	175.1
75°	92.7	113.2	140.8	143.1	141.3
77.5°	70.8	93.6	111.4	106.9	102.5
80°	51.1	73.4	81.6	73.4	67.4
82.5°	34.3	53.2	49.1	39.1	34.7
85°	19.0	28.3	19.4	10.8	7.8
87.5°	7.1	6.4	1.8	1.8	1.8
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)