

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: P732434

Luminaire Tested: **14FCZ2-20-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732434
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-CP375-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

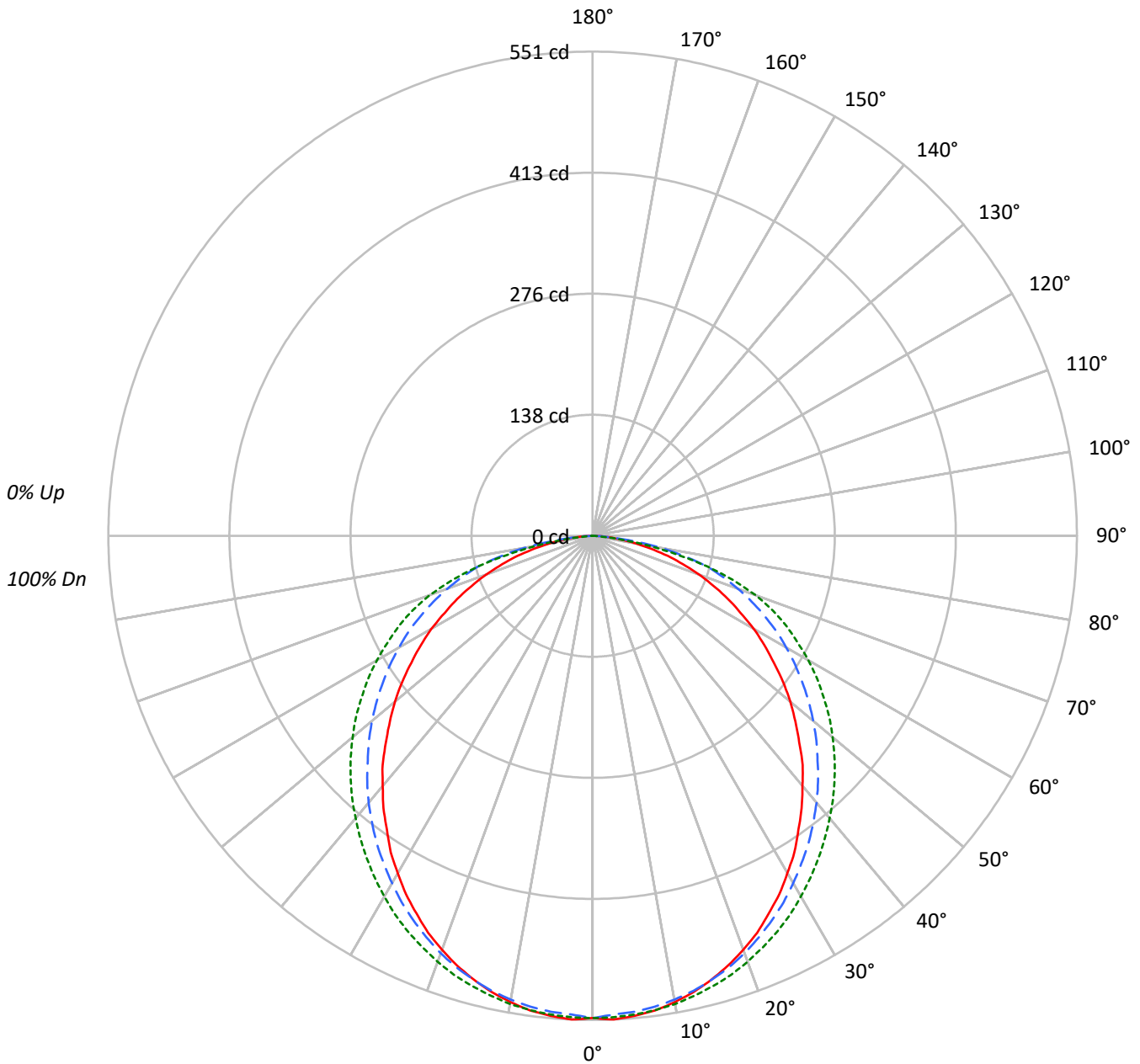
Lumens per Lamp: N/A
Luminaire Lumens: 1593.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1549	1549	1549
5°	1554	1541	1550
10°	1544	1536	1551
15°	1528	1529	1550
20°	1506	1518	1549
25°	1477	1503	1548
30°	1445	1488	1545
35°	1407	1475	1543
40°	1369	1461	1546
45°	1327	1445	1554
50°	1288	1438	1565
55°	1239	1434	1579
60°	1195	1436	1600
65°	1134	1440	1625
70°	1065	1451	1624
75°	964	1465	1469
80°	792	1263	1044
85°	586	599	240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	3.3
10°-20°	148.3	9.3
20°-30°	223.5	14.0
30°-40°	268.2	16.8
40°-50°	279.5	17.5
50°-60°	258.8	16.2
60°-70°	209.1	13.1
70°-80°	127.5	8.0
80°-90°	26.3	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°	423.7	26.6
0°-40°	691.9	43.4
0°-60°	1230.2	77.2
0°-90°	1593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	549	549	549	549	549	
5°	548	547	544	548	547	52
15°	523	523	523	530	530	147
25°	474	477	483	495	497	219
35°	408	414	428	444	448	256
45°	332	342	362	382	389	257
55°	252	265	291	314	321	226
65°	170	186	216	237	243	168
75°	88	108	134	136	135	93
85°	18	27	18	10	7	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	548.8	548.8	548.8	548.8	548.8
2.5°	551.0	549.2	545.3	549.2	548.4
5°	548.4	547.0	543.8	547.7	547.0
7.5°	544.9	543.4	540.6	545.3	544.5
10°	538.8	538.1	536.0	541.4	541.0
12.5°	531.8	531.4	530.3	536.4	536.0
15°	522.9	523.2	523.2	530.3	530.3
17.5°	512.9	513.6	515.1	522.9	524.0
20°	501.2	502.6	505.5	514.4	515.7
22.5°	489.1	490.2	494.4	505.1	506.6
25°	474.2	477.0	482.7	494.8	497.0
27.5°	460.0	462.5	470.3	482.7	486.3
30°	443.3	447.2	456.5	470.0	473.9
32.5°	427.3	431.6	442.2	457.9	461.4
35°	408.2	414.5	428.0	443.7	447.9
37.5°	390.8	396.7	412.1	429.1	434.1
40°	371.5	379.0	396.4	414.5	419.5
42.5°	353.8	360.8	379.7	398.2	405.0
45°	332.5	342.5	361.9	382.2	389.3
47.5°	312.9	322.9	345.3	366.9	373.4
50°	293.4	304.0	327.5	349.9	356.3
52.5°	273.1	284.6	309.7	332.1	339.6
55°	251.8	265.0	291.3	314.0	320.8
57.5°	231.6	245.1	273.1	296.2	303.0
60°	211.7	225.6	254.4	276.4	283.5
62.5°	189.7	206.0	235.9	257.5	262.9
65°	169.8	186.5	215.6	237.2	243.3
67.5°	148.8	166.9	196.1	215.9	221.7
70°	129.0	147.8	175.8	194.3	196.8
72.5°	107.7	126.8	155.2	166.9	166.9
75°	88.4	108.0	134.3	136.4	134.7
77.5°	67.5	89.2	106.2	101.9	97.7
80°	48.7	70.0	77.7	70.0	64.2
82.5°	32.7	50.8	46.8	37.3	33.1
85°	18.1	27.0	18.5	10.3	7.4
87.5°	6.7	6.1	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)