

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: P732658

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CP375-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-SQR-B2750-W2D-CP375-3500K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SQR LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

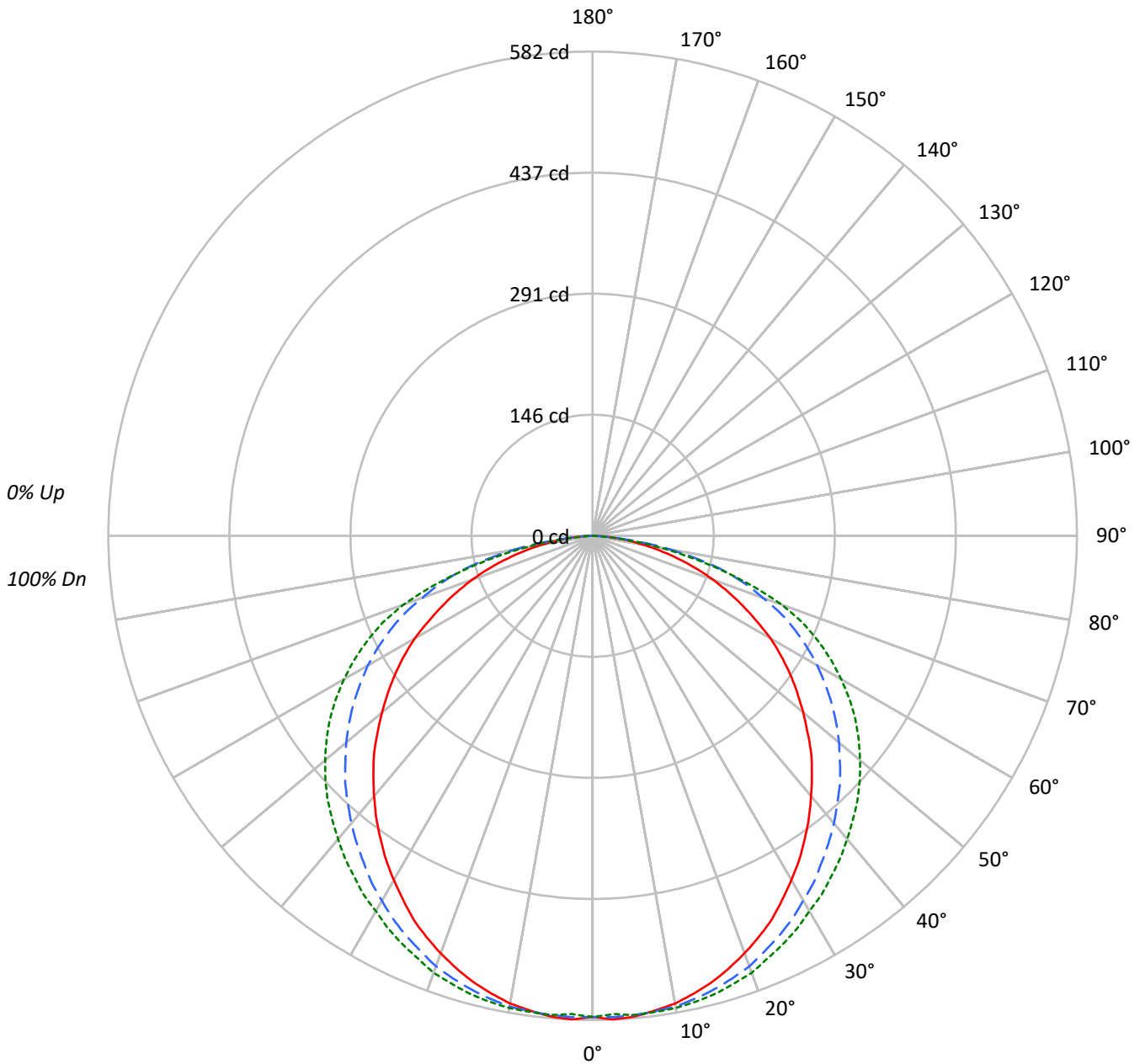
Lumens per Lamp: N/A
Luminaire Lumens: 1830.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48																			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41																			
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35																			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1632	1632	1632
5°	1644	1639	1639
10°	1636	1647	1652
15°	1622	1649	1666
20°	1604	1654	1679
25°	1586	1652	1686
30°	1557	1651	1698
35°	1532	1653	1723
40°	1505	1662	1754
45°	1484	1679	1797
50°	1450	1697	1843
55°	1425	1725	1897
60°	1395	1760	1947
65°	1330	1793	1996
70°	1264	1796	1994
75°	1157	1791	1760
80°	988	1530	1365
85°	777	865	508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	3.0
10°-20°	158.7	8.7
20°-30°	242.8	13.3
30°-40°	297.6	16.3
40°-50°	320.0	17.5
50°-60°	307.6	16.8
60°-70°	256.1	14.0
70°-80°	157.2	8.6
80°-90°	35.0	1.9
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°	456.5	24.9
0°-40°	754.1	41.2
0°-60°	1381.7	75.5
0°-90°	1830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	578	578	578	578	578	
5°	580	575	578	578	578	55
15°	555	553	564	568	570	157
25°	509	514	530	537	541	234
35°	445	456	480	492	500	278
45°	372	388	420	440	450	286
55°	290	314	350	374	386	259
65°	199	230	268	291	299	197
75°	106	138	164	163	161	112
85°	24	36	27	18	16	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	578.3	578.3	578.3	578.3	578.3
2.5°	581.9	576.4	579.2	578.3	575.5
5°	580.1	574.6	578.3	578.3	578.3
7.5°	575.5	570.9	576.4	577.3	577.3
10°	570.9	567.2	574.6	575.5	576.4
12.5°	563.5	560.7	570.0	571.8	573.6
15°	555.2	553.4	564.4	568.1	570.0
17.5°	545.1	546.0	558.0	562.6	564.4
20°	534.0	536.8	550.6	555.2	558.9
22.5°	522.0	525.7	540.5	546.0	549.7
25°	509.1	513.7	530.3	536.8	541.4
27.5°	493.4	500.8	519.3	527.6	532.2
30°	477.8	486.1	506.4	516.5	521.1
32.5°	462.1	471.3	494.4	504.5	511.9
35°	444.6	455.7	479.6	492.5	499.9
37.5°	427.1	440.0	465.8	480.5	488.8
40°	408.5	422.5	451.0	467.6	475.9
42.5°	390.1	405.8	435.4	453.8	463.0
45°	371.7	388.3	420.5	440.0	450.1
47.5°	350.5	370.8	403.0	425.1	435.4
50°	330.2	352.3	386.4	409.5	419.6
52.5°	309.9	333.0	368.9	392.9	403.0
55°	289.6	314.5	350.5	374.4	385.5
57.5°	268.4	294.2	331.1	356.0	366.1
60°	247.1	274.0	311.8	334.8	344.9
62.5°	222.2	253.7	290.6	313.6	322.8
65°	199.2	229.6	268.4	290.6	298.9
67.5°	176.2	207.5	245.3	265.7	273.0
70°	153.1	184.5	217.6	237.0	241.6
72.5°	130.1	161.4	192.8	203.8	202.0
75°	106.1	138.4	164.2	163.3	161.4
77.5°	83.1	114.4	130.1	123.6	120.9
80°	60.8	91.4	94.1	87.7	84.0
82.5°	41.5	65.4	59.0	51.6	47.9
85°	24.0	35.9	26.7	18.4	15.7
87.5°	10.1	9.2	2.8	2.8	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)