

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: P732633

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-S-B2750-W2D-CP375-3500K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SMOOTH LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

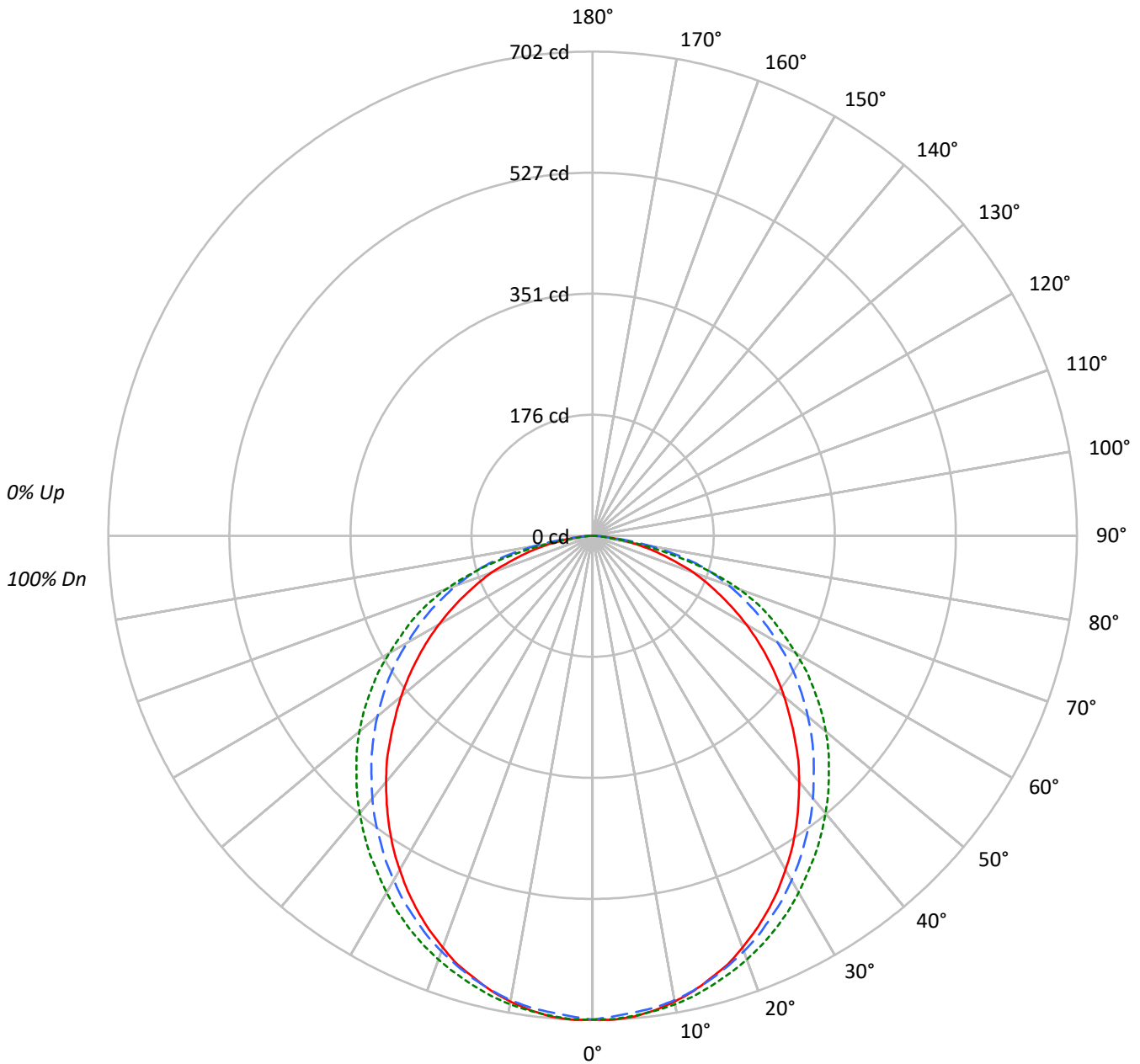
Lumens per Lamp: N/A
Luminaire Lumens: 1965.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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					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	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	94	91	89	90	88	86	84								
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70								
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58								
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50								
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43								
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38								
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33								
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30								
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27								
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1980	1980	1980
5°	1982	1966	1979
10°	1966	1960	1977
15°	1939	1944	1970
20°	1908	1926	1964
25°	1869	1903	1957
30°	1823	1880	1947
35°	1773	1853	1940
40°	1716	1831	1935
45°	1653	1808	1933
50°	1591	1788	1938
55°	1525	1774	1932
60°	1453	1749	1919
65°	1367	1744	1920
70°	1287	1729	1865
75°	1116	1690	1593
80°	902	1362	1061
85°	599	473	317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	3.4
10°-20°	188.5	9.6
20°-30°	282.7	14.4
30°-40°	337.3	17.2
40°-50°	348.7	17.7
50°-60°	318.4	16.2
60°-70°	250.5	12.7
70°-80°	145.8	7.4
80°-90°	26.9	1.4
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°	537.5	27.4
0°-40°	874.7	44.5
0°-60°	1541.8	78.5
0°-90°	1965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	700	698	694	700	698	66
15°	664	664	665	674	674	187
25°	600	603	611	625	628	276
35°	514	521	538	558	563	322
45°	414	428	453	478	484	320
55°	310	326	360	387	393	277
65°	205	226	261	282	288	203
75°	102	127	155	152	146	109
85°	18	26	15	12	10	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	701.5	701.5	701.5	701.5	701.5
2.5°	702.4	700.5	697.5	702.4	701.5
5°	699.6	697.5	693.7	699.6	698.5
7.5°	693.7	691.7	689.8	695.6	694.7
10°	685.8	684.9	683.9	690.7	689.8
12.5°	676.2	676.2	675.2	683.0	683.0
15°	663.5	664.5	665.4	674.1	674.1
17.5°	651.8	650.9	653.7	663.5	664.5
20°	635.2	637.1	641.1	652.8	653.7
22.5°	618.6	620.7	627.5	639.2	642.0
25°	600.1	603.1	610.9	625.4	628.4
27.5°	580.7	584.6	595.2	610.9	613.7
30°	559.2	565.0	576.7	594.3	597.3
32.5°	537.8	543.7	558.2	575.8	579.7
35°	514.4	521.2	537.8	558.2	563.1
37.5°	490.1	498.8	518.3	538.8	544.6
40°	465.7	475.5	496.9	518.3	525.2
42.5°	441.3	451.1	474.4	498.8	505.7
45°	414.0	427.7	453.0	478.4	484.2
47.5°	387.7	402.4	430.6	455.9	463.8
50°	362.4	377.0	407.2	433.6	441.3
52.5°	336.2	351.7	383.8	411.1	418.0
55°	309.8	326.4	360.5	386.8	392.6
57.5°	283.5	301.1	336.2	361.5	368.3
60°	257.3	275.8	309.8	335.1	340.0
62.5°	230.9	250.3	285.4	307.9	312.8
65°	204.6	226.0	261.1	281.6	287.5
67.5°	179.3	200.7	234.8	254.3	259.2
70°	155.9	175.4	209.5	224.1	226.0
72.5°	126.7	151.0	184.1	192.0	187.1
75°	102.3	126.7	155.0	152.0	146.1
77.5°	78.0	102.3	120.8	111.0	103.3
80°	55.5	79.9	83.8	69.1	65.3
82.5°	36.1	55.5	46.8	36.1	29.2
85°	18.5	26.3	14.6	11.7	9.8
87.5°	5.8	3.9	1.9	1.9	1.0
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)