

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: P732556

Luminaire Tested: **14FCZ2-25-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732556
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: 14FCZ2-25-B2750-W2D-CP375-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

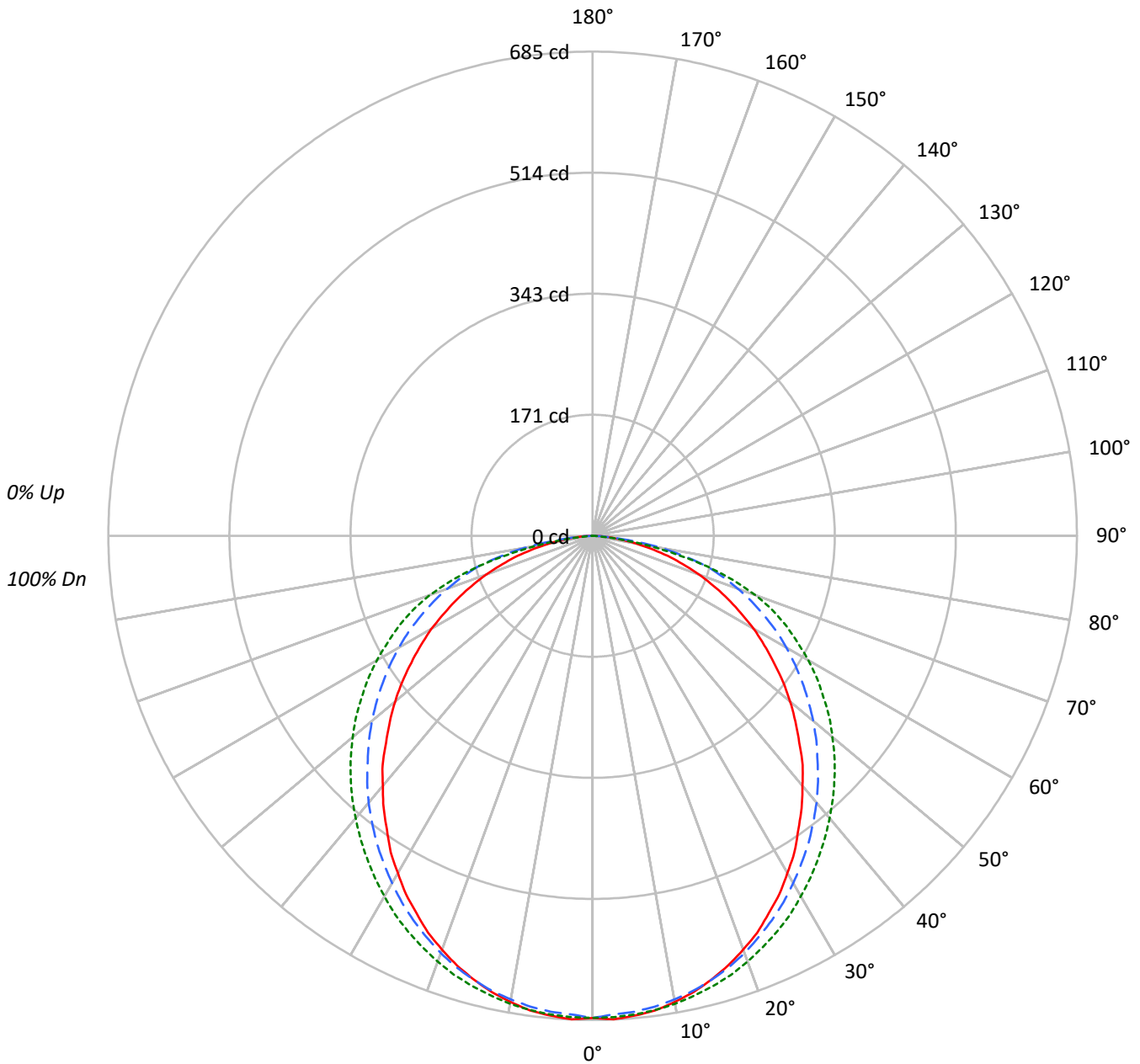
Lumens per Lamp: N/A
Luminaire Lumens: 1980.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	1925	1925	1925
5°	1931	1915	1926
10°	1920	1909	1927
15°	1899	1900	1926
20°	1871	1887	1925
25°	1836	1869	1924
30°	1796	1849	1920
35°	1748	1833	1918
40°	1702	1816	1921
45°	1650	1796	1932
50°	1601	1788	1944
55°	1540	1782	1962
60°	1486	1784	1989
65°	1409	1790	2020
70°	1323	1803	2019
75°	1199	1820	1826
80°	983	1570	1299
85°	729	745	298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	3.3
10°-20°	184.4	9.3
20°-30°	277.8	14.0
30°-40°	333.3	16.8
40°-50°	347.4	17.5
50°-60°	321.6	16.2
60°-70°	259.9	13.1
70°-80°	158.4	8.0
80°-90°	32.7	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°	526.7	26.6
0°-40°	860.0	43.4
0°-60°	1529.0	77.2
0°-90°	1980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1980.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	682	680	676	681	680	65
15°	650	650	650	659	659	183
25°	589	593	600	615	618	272
35°	507	515	532	552	557	318
45°	413	426	450	475	484	319
55°	313	329	362	390	399	280
65°	211	232	268	295	302	209
75°	110	134	167	170	167	115
85°	22	34	23	13	9	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	682.1	682.1	682.1	682.1	682.1
2.5°	684.8	682.6	677.8	682.6	681.6
5°	681.6	679.9	675.9	680.8	679.9
7.5°	677.3	675.4	671.9	677.8	676.8
10°	669.7	668.9	666.2	672.9	672.4
12.5°	661.0	660.5	659.2	666.7	666.2
15°	649.9	650.3	650.3	659.2	659.2
17.5°	637.5	638.4	640.2	649.9	651.3
20°	622.9	624.8	628.3	639.3	641.0
22.5°	608.0	609.3	614.5	627.8	629.6
25°	589.4	592.9	600.0	615.0	617.7
27.5°	571.8	574.8	584.5	600.0	604.5
30°	551.0	555.8	567.4	584.2	589.0
32.5°	531.2	536.4	549.6	569.1	573.5
35°	507.3	515.2	532.0	551.5	556.7
37.5°	485.7	493.1	512.2	533.4	539.6
40°	461.8	471.1	492.8	515.2	521.4
42.5°	439.8	448.5	472.0	494.9	503.3
45°	413.3	425.7	449.8	475.0	483.9
47.5°	389.0	401.4	429.2	456.0	464.1
50°	364.6	377.9	407.1	434.9	442.8
52.5°	339.5	353.7	384.9	412.8	422.1
55°	313.0	329.4	362.1	390.3	398.7
57.5°	287.8	304.6	339.5	368.2	376.6
60°	263.2	280.4	316.1	343.5	352.4
62.5°	235.8	256.1	293.2	320.0	326.7
65°	211.0	231.8	268.0	294.9	302.4
67.5°	185.0	207.5	243.7	268.4	275.5
70°	160.3	183.7	218.5	241.5	244.6
72.5°	133.8	157.6	192.9	207.5	207.5
75°	109.9	134.2	166.9	169.6	167.4
77.5°	83.9	110.9	132.0	126.7	121.4
80°	60.5	87.0	96.6	87.0	79.9
82.5°	40.6	63.1	58.2	46.3	41.1
85°	22.5	33.5	23.0	12.8	9.2
87.5°	8.4	7.5	2.2	2.2	2.2
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)