

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: P732550

Luminaire Tested: **14FCZ2-25-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732550
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-CP187-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

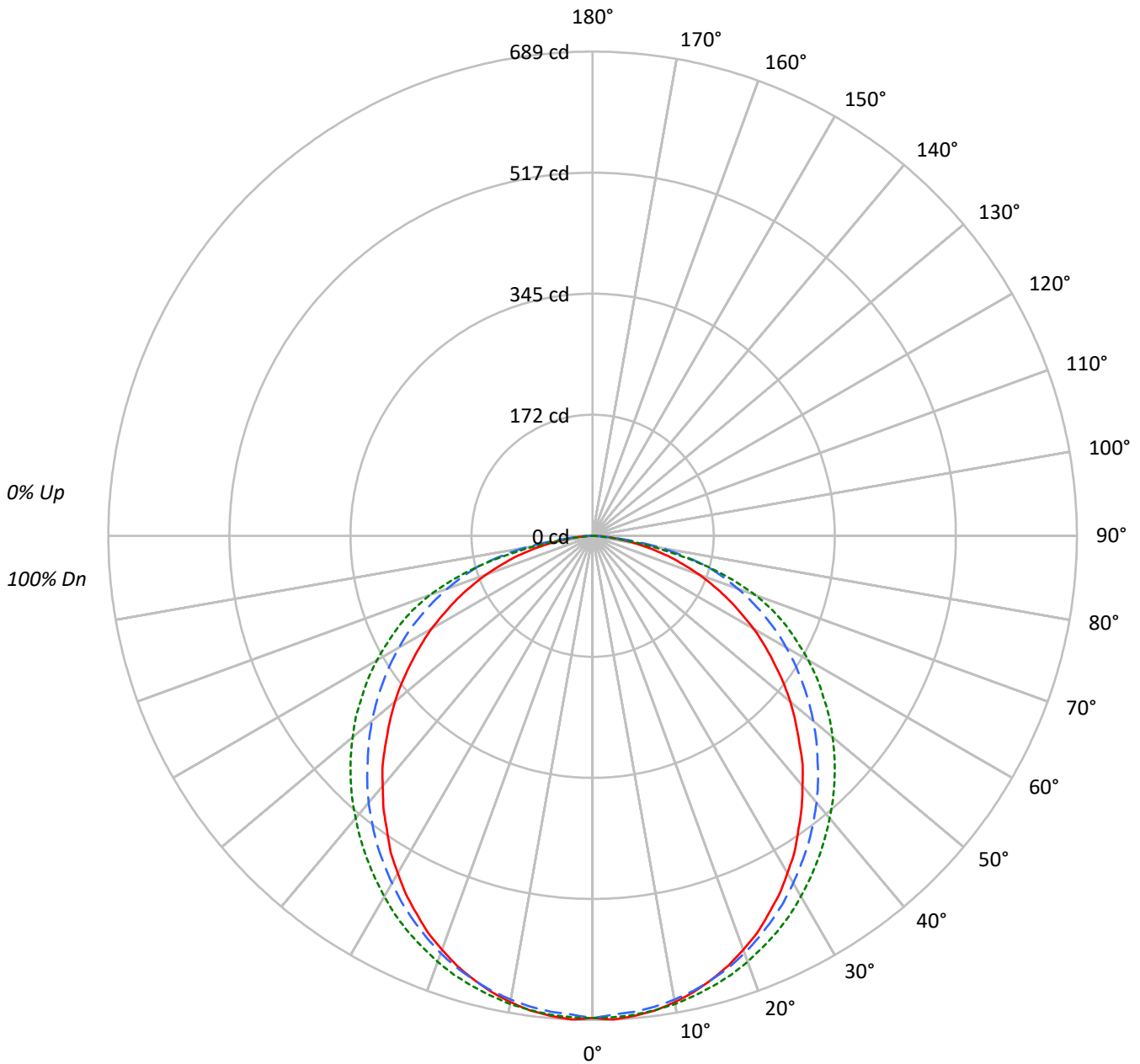
Lumens per Lamp: N/A
Luminaire Lumens: 1992.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): 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				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	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°	1937	1937	1937
5°	1943	1927	1938
10°	1931	1921	1939
15°	1911	1912	1938
20°	1883	1899	1937
25°	1847	1880	1936
30°	1807	1860	1931
35°	1759	1844	1930
40°	1712	1827	1933
45°	1660	1807	1943
50°	1611	1798	1956
55°	1550	1793	1974
60°	1494	1796	2001
65°	1418	1801	2032
70°	1331	1815	2030
75°	1205	1831	1837
80°	990	1580	1305
85°	732	748	301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	3.3
10°-20°	185.5	9.3
20°-30°	279.4	14.0
30°-40°	335.3	16.8
40°-50°	349.5	17.5
50°-60°	323.6	16.2
60°-70°	261.4	13.1
70°-80°	159.4	8.0
80°-90°	32.9	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°	529.9	26.6
0°-40°	865.2	43.4
0°-60°	1538.3	77.2
0°-90°	1992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1992.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	686	686	686	686	686	
5°	686	684	680	685	684	65
15°	654	654	654	663	663	184
25°	593	596	604	619	622	273
35°	510	518	535	555	560	320
45°	416	428	453	478	487	321
55°	315	331	364	393	401	282
65°	212	233	270	297	304	210
75°	110	135	168	171	168	116
85°	23	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°	686.3	686.3	686.3	686.3	686.3
2.5°	689.0	686.8	681.9	686.8	685.8
5°	685.8	684.1	680.0	684.9	684.1
7.5°	681.4	679.5	676.0	681.9	680.9
10°	673.8	672.9	670.2	677.0	676.5
12.5°	665.0	664.5	663.1	670.7	670.2
15°	653.9	654.2	654.2	663.1	663.1
17.5°	641.4	642.2	644.1	653.9	655.2
20°	626.7	628.5	632.1	643.2	644.9
22.5°	611.7	613.0	618.3	631.6	633.4
25°	593.0	596.5	603.6	618.8	621.5
27.5°	575.2	578.3	588.1	603.6	608.1
30°	554.3	559.2	570.8	587.7	592.6
32.5°	534.4	539.6	553.0	572.5	576.9
35°	510.4	518.4	535.2	554.8	560.1
37.5°	488.6	496.1	515.3	536.6	542.8
40°	464.6	474.0	495.7	518.4	524.6
42.5°	442.4	451.2	474.8	497.9	506.4
45°	415.8	428.2	452.6	477.9	486.8
47.5°	391.3	403.8	431.8	458.8	466.9
50°	366.9	380.2	409.5	437.5	445.5
52.5°	341.5	355.8	387.3	415.3	424.7
55°	314.9	331.4	364.3	392.7	401.1
57.5°	289.6	306.4	341.5	370.4	378.8
60°	264.7	282.1	318.1	345.6	354.5
62.5°	237.2	257.7	295.0	322.0	328.7
65°	212.3	233.2	269.6	296.7	304.2
67.5°	186.1	208.7	245.2	270.0	277.2
70°	161.3	184.8	219.9	243.0	246.0
72.5°	134.6	158.6	194.1	208.7	208.7
75°	110.5	135.0	167.9	170.6	168.4
77.5°	84.4	111.5	132.8	127.4	122.2
80°	60.9	87.6	97.2	87.6	80.3
82.5°	40.8	63.5	58.6	46.6	41.3
85°	22.6	33.8	23.1	12.8	9.3
87.5°	8.4	7.6	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)