

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: P732630

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732630
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-CP250-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

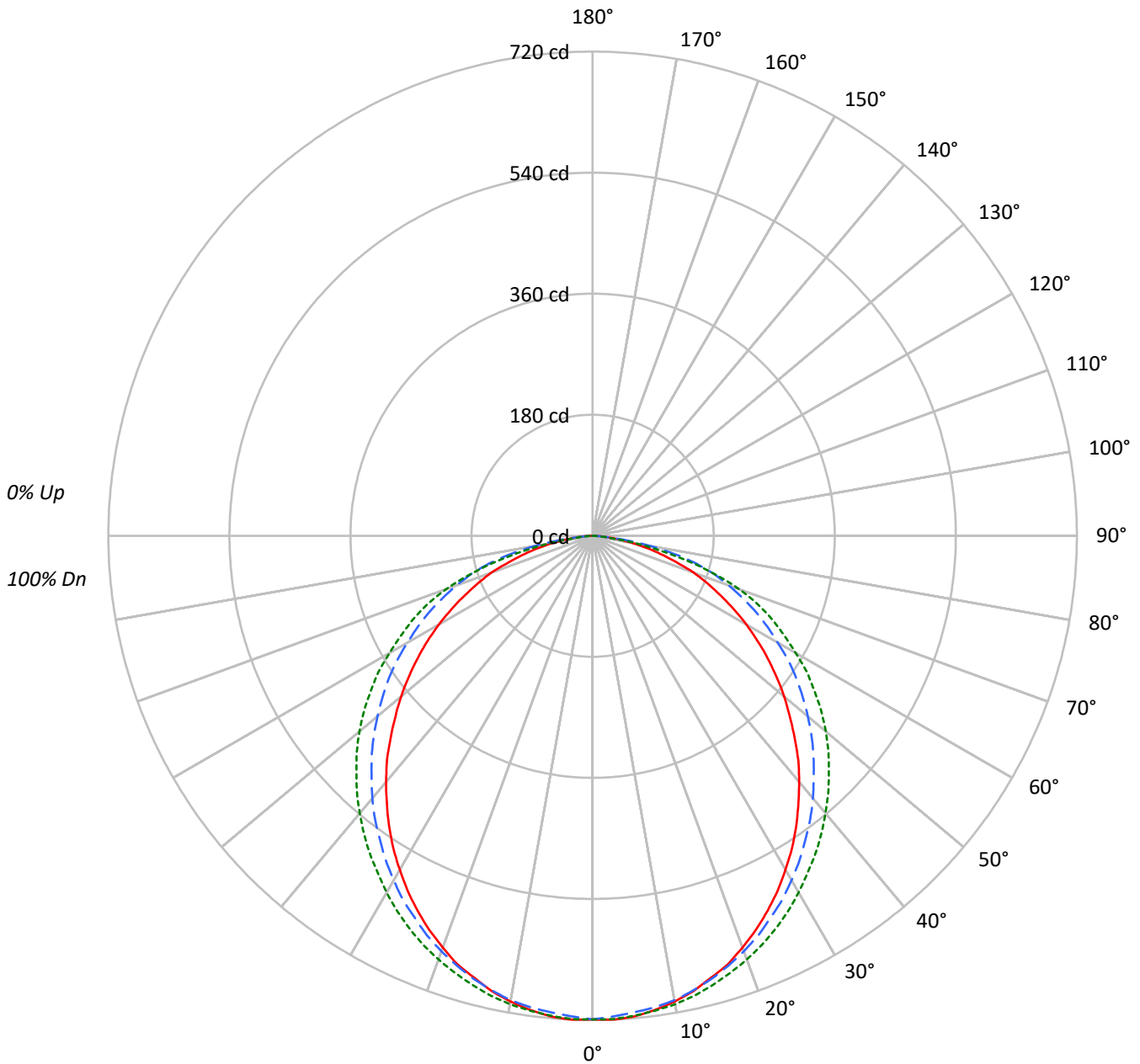
Lumens per Lamp: N/A
Luminaire Lumens: 2015.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732630

CATALOG NUMBER: 14FCZ2-25-S-B2750-W2D-CP250-5000K

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	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°	2030	2030	2030
5°	2033	2016	2030
10°	2016	2010	2027
15°	1988	1994	2020
20°	1957	1975	2014
25°	1917	1951	2007
30°	1869	1928	1996
35°	1818	1900	1990
40°	1760	1877	1984
45°	1695	1855	1982
50°	1632	1834	1988
55°	1563	1819	1981
60°	1489	1794	1968
65°	1401	1788	1969
70°	1320	1773	1912
75°	1144	1733	1634
80°	925	1396	1089
85°	615	483	324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	3.4
10°-20°	193.3	9.6
20°-30°	289.9	14.4
30°-40°	345.9	17.2
40°-50°	357.6	17.7
50°-60°	326.4	16.2
60°-70°	256.9	12.7
70°-80°	149.5	7.4
80°-90°	27.5	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°	551.2	27.4
0°-40°	897.0	44.5
0°-60°	1581.0	78.5
0°-90°	2015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	717	715	711	717	716	68
15°	680	681	682	691	691	192
25°	615	618	626	641	644	283
35°	528	534	552	572	577	330
45°	424	439	465	490	496	328
55°	318	335	370	397	403	284
65°	210	232	268	289	295	208
75°	105	130	159	156	150	112
85°	19	27	15	12	10	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	719.3	719.3	719.3	719.3	719.3
2.5°	720.3	718.3	715.3	720.3	719.3
5°	717.4	715.3	711.4	717.4	716.3
7.5°	711.4	709.3	707.3	713.3	712.3
10°	703.3	702.3	701.3	708.3	707.3
12.5°	693.4	693.4	692.4	700.4	700.4
15°	680.4	681.4	682.4	691.3	691.3
17.5°	668.4	667.4	670.4	680.4	681.4
20°	651.4	653.3	657.4	669.4	670.4
22.5°	634.4	636.5	643.4	655.4	658.4
25°	615.4	618.5	626.4	641.3	644.4
27.5°	595.4	599.5	610.4	626.4	629.4
30°	573.4	579.4	591.4	609.4	612.5
32.5°	551.5	557.5	572.4	590.4	594.5
35°	527.5	534.5	551.5	572.4	577.4
37.5°	502.5	511.5	531.5	552.5	558.5
40°	477.6	487.6	509.5	531.5	538.5
42.5°	452.6	462.6	486.5	511.5	518.6
45°	424.5	438.6	464.6	490.5	496.5
47.5°	397.6	412.7	441.6	467.5	475.6
50°	371.7	386.6	417.6	444.6	452.6
52.5°	344.7	360.6	393.6	421.6	428.6
55°	317.7	334.7	369.7	396.6	402.6
57.5°	290.7	308.7	344.7	370.7	377.7
60°	263.8	282.8	317.7	343.6	348.6
62.5°	236.8	256.7	292.7	315.7	320.7
65°	209.8	231.7	267.7	288.8	294.8
67.5°	183.9	205.8	240.8	260.8	265.8
70°	159.9	179.8	214.8	229.8	231.7
72.5°	129.9	154.9	188.8	196.8	191.8
75°	104.9	129.9	158.9	155.8	149.8
77.5°	79.9	104.9	123.9	113.8	105.9
80°	56.9	81.9	85.9	70.9	67.0
82.5°	37.0	56.9	48.0	37.0	30.0
85°	19.0	26.9	14.9	12.0	10.0
87.5°	6.0	4.0	2.0	2.0	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)