

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: P732629

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732629
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-CP250-4000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

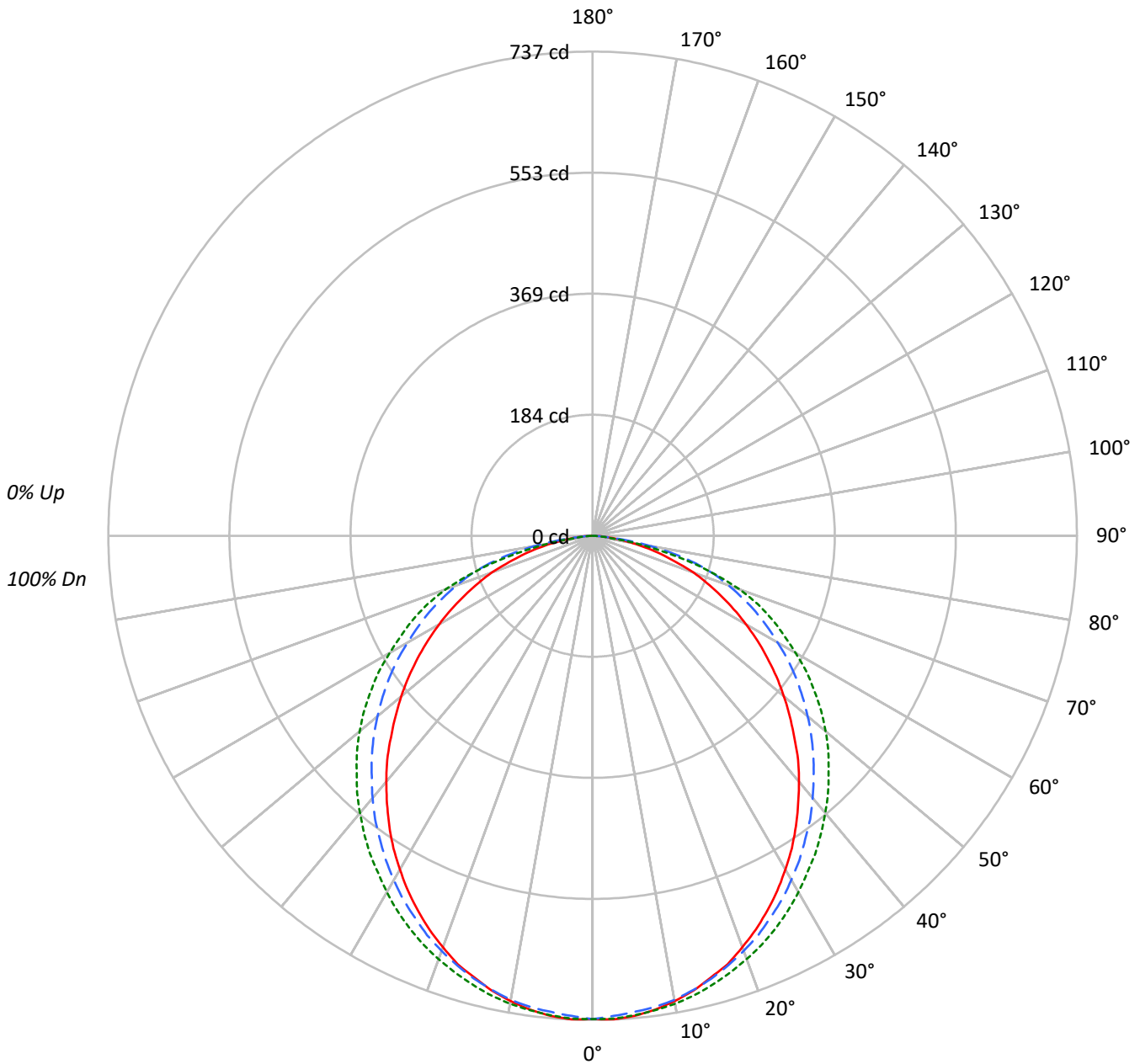
Lumens per Lamp: N/A
Luminaire Lumens: 2061.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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°	2077	2077	2077
5°	2079	2062	2076
10°	2062	2056	2074
15°	2034	2039	2066
20°	2001	2020	2060
25°	1960	1995	2053
30°	1912	1972	2042
35°	1859	1944	2035
40°	1800	1920	2030
45°	1733	1897	2027
50°	1669	1876	2033
55°	1599	1861	2027
60°	1523	1834	2013
65°	1433	1829	2014
70°	1349	1813	1956
75°	1170	1772	1672
80°	946	1429	1113
85°	628	496	334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	3.4
10°-20°	197.7	9.6
20°-30°	296.6	14.4
30°-40°	353.8	17.2
40°-50°	365.7	17.7
50°-60°	333.9	16.2
60°-70°	262.8	12.7
70°-80°	153.0	7.4
80°-90°	28.2	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°	563.7	27.4
0°-40°	917.5	44.5
0°-60°	1617.1	78.5
0°-90°	2061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	734	732	728	734	733	70
15°	696	697	698	707	707	196
25°	629	633	641	656	659	290
35°	540	547	564	586	591	337
45°	434	449	475	502	508	335
55°	325	342	378	406	412	291
65°	215	237	274	295	302	213
75°	107	133	162	159	153	114
85°	19	28	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°	735.7	735.7	735.7	735.7	735.7
2.5°	736.8	734.7	731.6	736.8	735.7
5°	733.7	731.6	727.6	733.7	732.6
7.5°	727.6	725.5	723.5	729.6	728.6
10°	719.3	718.3	717.3	724.5	723.5
12.5°	709.2	709.2	708.2	716.3	716.3
15°	695.9	696.9	697.9	707.1	707.1
17.5°	683.7	682.7	685.7	695.9	696.9
20°	666.3	668.3	672.4	684.7	685.7
22.5°	648.9	651.0	658.1	670.4	673.4
25°	629.4	632.6	640.7	656.0	659.1
27.5°	609.0	613.2	624.3	640.7	643.7
30°	586.5	592.6	604.9	623.3	626.4
32.5°	564.1	570.2	585.5	603.9	608.0
35°	539.5	546.7	564.1	585.5	590.6
37.5°	514.0	523.1	543.7	565.1	571.2
40°	488.5	498.7	521.1	543.7	550.8
42.5°	462.9	473.2	497.6	523.1	530.4
45°	434.2	448.6	475.2	501.7	507.9
47.5°	406.7	422.1	451.6	478.2	486.5
50°	380.1	395.4	427.1	454.8	462.9
52.5°	352.6	368.9	402.6	431.2	438.4
55°	324.9	342.3	378.1	405.7	411.8
57.5°	297.4	315.8	352.6	379.1	386.3
60°	269.8	289.2	324.9	351.5	356.6
62.5°	242.2	262.6	299.4	322.9	328.1
65°	214.6	237.0	273.8	295.4	301.5
67.5°	188.1	210.5	246.3	266.7	271.8
70°	163.5	183.9	219.7	235.0	237.0
72.5°	132.9	158.4	193.1	201.3	196.2
75°	107.3	132.9	162.5	159.4	153.3
77.5°	81.8	107.3	126.7	116.4	108.3
80°	58.2	83.8	87.9	72.5	68.5
82.5°	37.8	58.2	49.1	37.8	30.7
85°	19.4	27.5	15.3	12.3	10.3
87.5°	6.1	4.1	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)