

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: P732680

Luminaire Tested: **14FCZ2-29-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732680
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: 14FCZ2-29-B2750-W2D-CP250-5000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

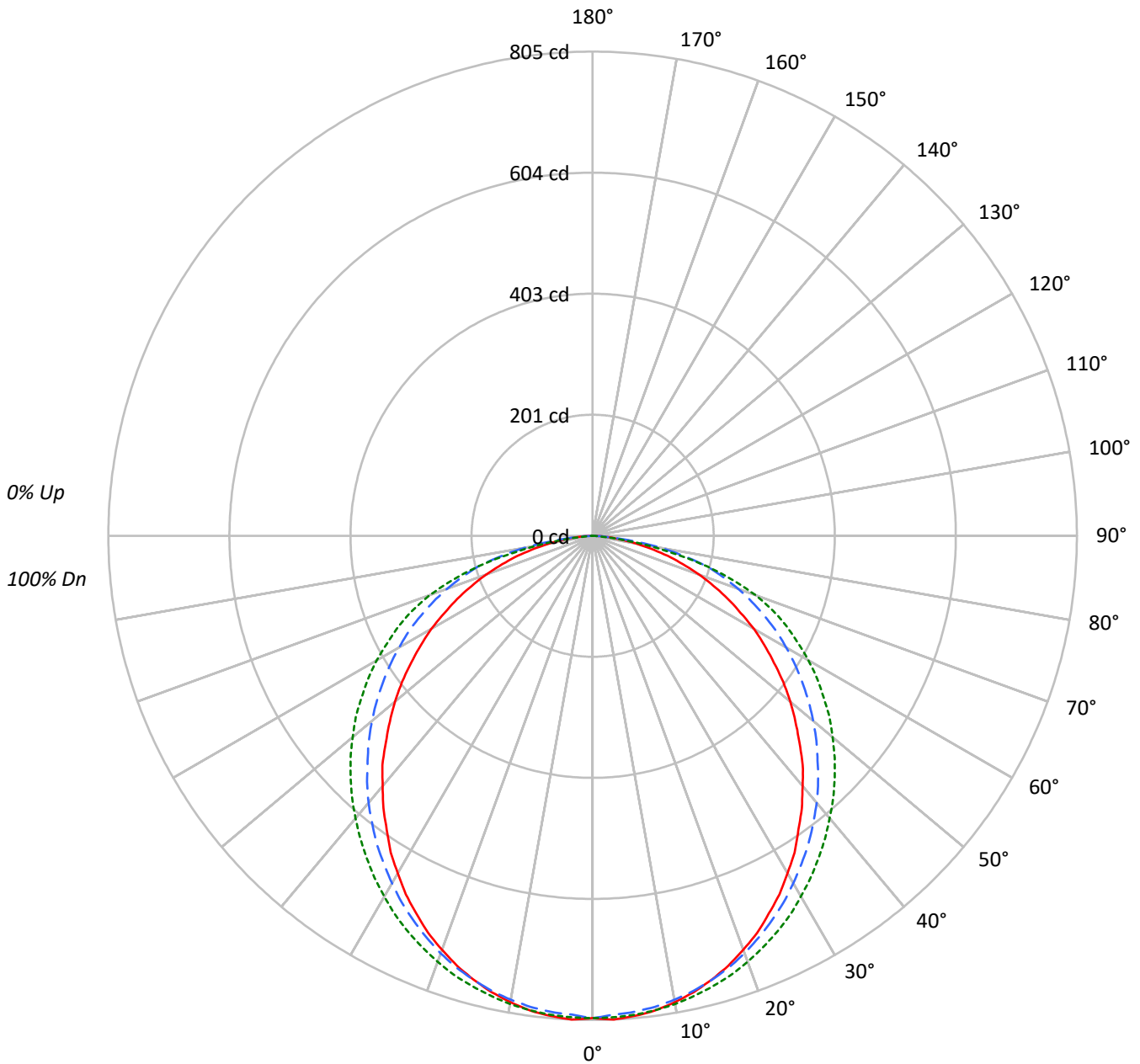
Lumens per Lamp: N/A
Luminaire Lumens: 2328.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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	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°	2264	2264	2264
5°	2271	2252	2265
10°	2257	2245	2266
15°	2233	2234	2265
20°	2200	2219	2264
25°	2158	2197	2262
30°	2111	2174	2257
35°	2055	2155	2255
40°	2000	2135	2259
45°	1940	2111	2271
50°	1883	2102	2286
55°	1811	2095	2307
60°	1747	2098	2339
65°	1657	2105	2375
70°	1556	2121	2373
75°	1409	2140	2146
80°	1157	1847	1526
85°	855	874	353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	3.3
10°-20°	216.8	9.3
20°-30°	326.6	14.0
30°-40°	391.9	16.8
40°-50°	408.5	17.5
50°-60°	378.1	16.2
60°-70°	305.5	13.1
70°-80°	186.3	8.0
80°-90°	38.4	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°	619.3	26.6
0°-40°	1011.2	43.4
0°-60°	1797.7	77.2
0°-90°	2328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	801	799	795	800	799	76
15°	764	765	765	775	775	215
25°	693	697	705	723	726	319
35°	596	606	626	648	654	374
45°	486	500	529	558	569	376
55°	368	387	426	459	469	330
65°	248	272	315	347	356	245
75°	129	158	196	199	197	136
85°	26	39	27	15	11	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	802.0	802.0	802.0	802.0	802.0
2.5°	805.2	802.6	796.9	802.6	801.4
5°	801.4	799.4	794.7	800.4	799.4
7.5°	796.3	794.2	790.0	796.9	795.7
10°	787.4	786.4	783.3	791.2	790.6
12.5°	777.1	776.6	775.0	783.9	783.3
15°	764.1	764.6	764.6	775.0	775.0
17.5°	749.6	750.6	752.7	764.1	765.7
20°	732.4	734.6	738.7	751.7	753.7
22.5°	714.8	716.4	722.6	738.1	740.3
25°	693.0	697.1	705.4	723.1	726.3
27.5°	672.3	675.8	687.3	705.4	710.7
30°	647.8	653.5	667.1	686.8	692.5
32.5°	624.5	630.7	646.2	669.1	674.3
35°	596.5	605.8	625.5	648.4	654.5
37.5°	571.1	579.8	602.2	627.1	634.4
40°	542.9	553.9	579.4	605.8	613.1
42.5°	517.1	527.3	554.9	581.9	591.8
45°	485.9	500.5	528.9	558.5	568.9
47.5°	457.3	471.9	504.6	536.2	545.6
50°	428.7	444.3	478.6	511.3	520.6
52.5°	399.2	415.9	452.6	485.3	496.3
55°	368.0	387.3	425.7	458.9	468.7
57.5°	338.4	358.1	399.2	432.9	442.7
60°	309.4	329.7	371.7	403.9	414.3
62.5°	277.2	301.1	344.7	376.3	384.1
65°	248.1	272.5	315.1	346.7	355.6
67.5°	217.5	243.9	286.5	315.5	324.0
70°	188.5	215.9	257.0	284.0	287.5
72.5°	157.3	185.4	226.8	243.9	243.9
75°	129.2	157.8	196.2	199.4	196.8
77.5°	98.6	130.3	155.2	148.9	142.8
80°	71.2	102.3	113.6	102.3	93.9
82.5°	47.7	74.2	68.5	54.4	48.3
85°	26.4	39.4	27.0	15.0	10.9
87.5°	9.9	8.9	2.6	2.6	2.6
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)