

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: P732705

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-29-HRP-B2750-W2D-CP250-5000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

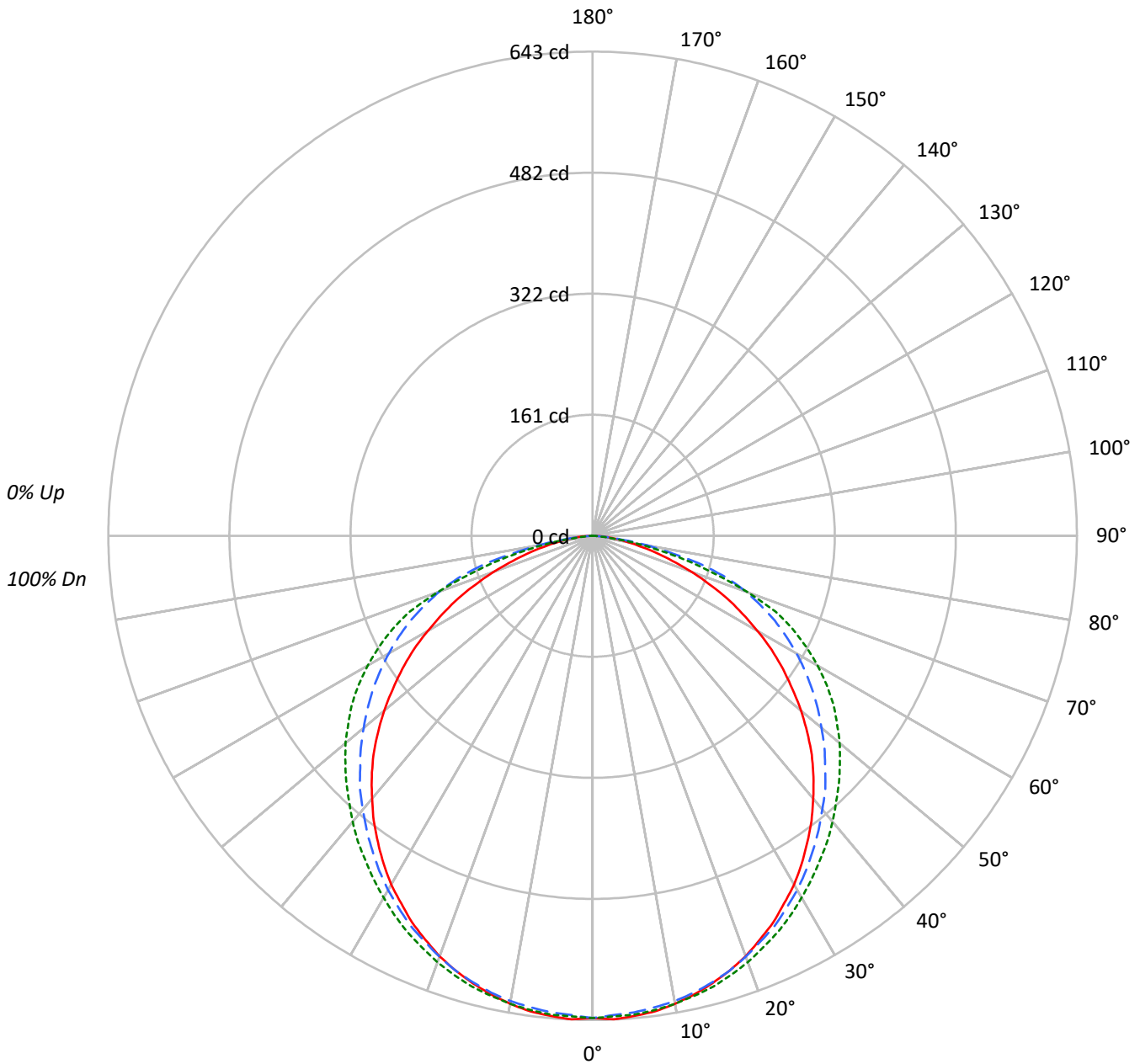
Lumens per Lamp: N/A
Luminaire Lumens: 1886.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1808	1808	1808
5°	1813	1800	1808
10°	1809	1799	1809
15°	1797	1794	1811
20°	1785	1787	1810
25°	1766	1781	1810
30°	1743	1770	1809
35°	1712	1757	1813
40°	1678	1748	1827
45°	1643	1742	1847
50°	1586	1742	1880
55°	1518	1751	1920
60°	1426	1764	1945
65°	1315	1783	1957
70°	1146	1786	1801
75°	944	1663	1455
80°	741	1195	974
85°	580	463	230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	3.2
10°-20°	174.0	9.2
20°-30°	264.2	14.0
30°-40°	320.2	17.0
40°-50°	337.4	17.9
50°-60°	315.0	16.7
60°-70°	251.7	13.3
70°-80°	138.5	7.3
80°-90°	24.5	1.3
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°	498.9	26.4
0°-40°	819.0	43.4
0°-60°	1471.4	78.0
0°-90°	1886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	640	638	635	639	638	61
15°	615	615	614	620	620	174
25°	567	568	572	580	581	261
35°	497	502	510	523	526	311
45°	412	419	436	456	463	317
55°	308	324	356	381	390	275
65°	197	222	267	289	293	194
75°	87	124	152	137	133	93
85°	18	22	14	9	7	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	640.4	640.4	640.4	640.4	640.4
2.5°	642.8	641.0	637.0	640.4	638.8
5°	640.0	638.2	635.2	639.4	638.2
7.5°	637.0	634.6	631.6	636.4	635.2
10°	631.0	629.2	627.5	631.6	631.0
12.5°	623.9	623.3	621.5	626.3	625.7
15°	615.1	615.1	613.9	619.7	619.7
17.5°	605.4	604.8	605.4	612.1	611.5
20°	594.2	594.2	594.8	602.6	602.6
22.5°	580.5	581.1	582.9	592.4	591.8
25°	567.0	568.1	571.7	579.9	581.1
27.5°	550.4	553.4	557.4	567.5	568.7
30°	534.9	536.7	543.2	552.8	555.0
32.5°	516.6	520.1	527.3	537.9	540.9
35°	496.9	501.7	510.0	523.1	526.1
37.5°	477.4	481.6	492.9	506.4	511.8
40°	455.5	462.6	474.4	489.9	495.7
42.5°	434.1	441.3	457.3	473.2	478.6
45°	411.5	419.3	436.5	456.1	462.6
47.5°	386.6	395.6	417.5	438.3	445.3
50°	361.1	372.4	396.7	419.9	428.2
52.5°	334.5	348.7	376.6	400.9	408.7
55°	308.4	323.7	355.9	380.8	390.2
57.5°	281.7	298.4	334.5	362.9	368.3
60°	252.6	272.9	312.5	337.4	344.6
62.5°	224.2	247.3	290.0	313.7	319.7
65°	196.9	221.8	266.9	288.8	293.0
67.5°	167.2	196.9	241.3	261.6	262.7
70°	138.8	173.2	216.4	225.9	218.2
72.5°	110.9	147.7	187.5	179.7	173.2
75°	86.6	124.0	152.5	137.0	133.4
77.5°	64.1	101.5	109.1	100.9	94.3
80°	45.6	80.0	73.5	62.9	59.9
82.5°	31.4	50.4	40.4	31.4	27.3
85°	17.9	22.5	14.3	8.9	7.1
87.5°	7.7	5.4	3.0	2.4	2.4
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)