

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: P732702

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732702
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-CP250-3000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

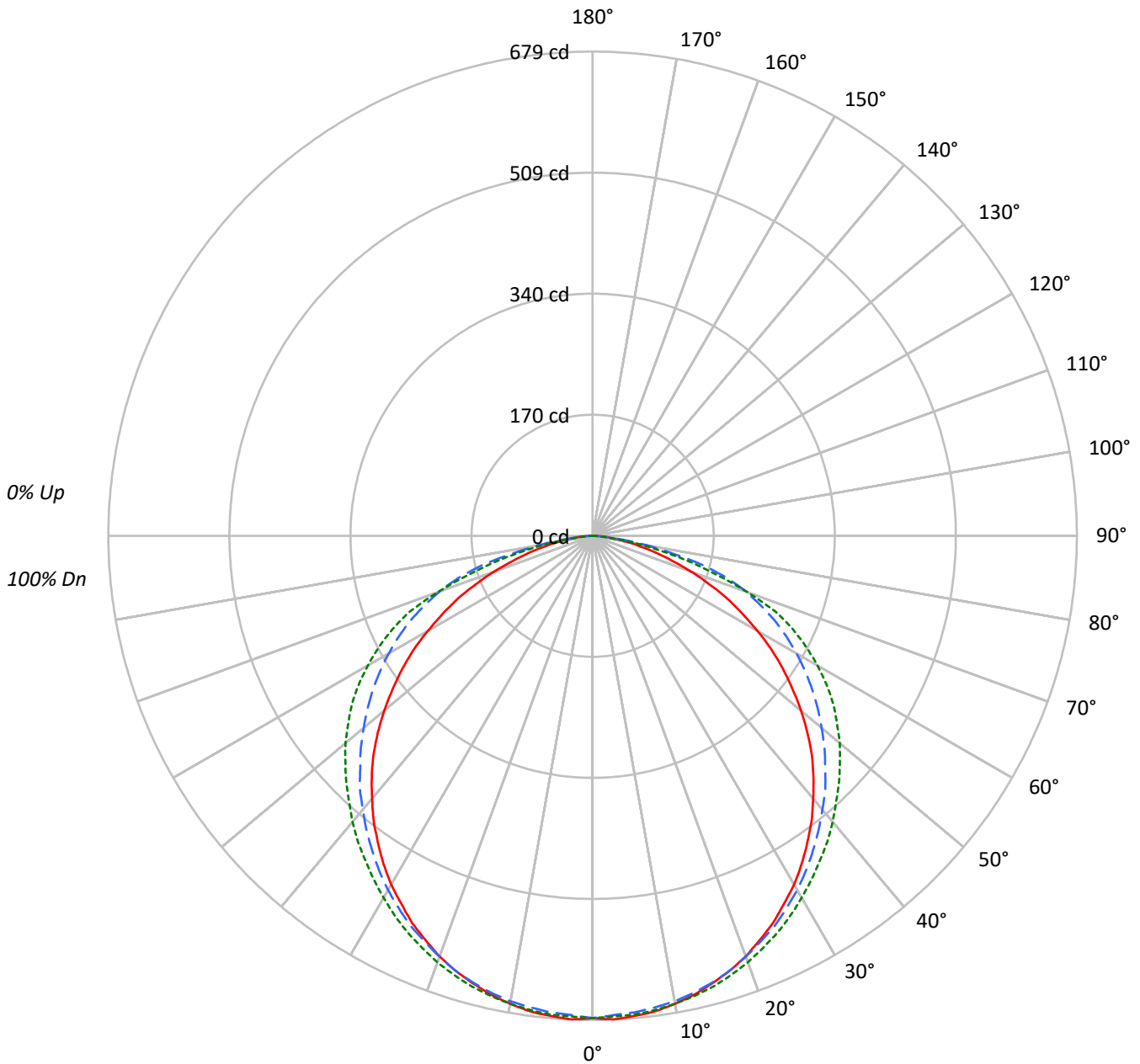
Lumens per Lamp: N/A
Luminaire Lumens: 1992.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1909	1909	1909
5°	1915	1901	1910
10°	1910	1900	1910
15°	1898	1895	1913
20°	1885	1887	1912
25°	1865	1881	1912
30°	1842	1870	1911
35°	1809	1856	1915
40°	1773	1846	1929
45°	1735	1840	1950
50°	1675	1840	1986
55°	1603	1850	2029
60°	1506	1863	2055
65°	1389	1883	2066
70°	1210	1887	1902
75°	998	1757	1537
80°	783	1263	1029
85°	612	489	243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	3.2
10°-20°	183.8	9.2
20°-30°	279.1	14.0
30°-40°	338.2	17.0
40°-50°	356.3	17.9
50°-60°	332.7	16.7
60°-70°	265.8	13.3
70°-80°	146.3	7.3
80°-90°	25.8	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°	526.9	26.5
0°-40°	865.0	43.4
0°-60°	1554.0	78.0
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°	676	676	676	676	676	
5°	676	674	671	675	674	64
15°	650	650	648	654	654	183
25°	599	600	604	612	614	276
35°	525	530	539	552	556	328
45°	435	443	461	482	489	334
55°	326	342	376	402	412	291
65°	208	234	282	305	309	205
75°	92	131	161	145	141	98
85°	19	24	15	9	8	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676.4	676.4	676.4	676.4	676.4
2.5°	678.9	677.0	672.8	676.4	674.7
5°	675.9	674.0	670.9	675.3	674.0
7.5°	672.8	670.2	667.1	672.1	670.9
10°	666.4	664.5	662.8	667.1	666.4
12.5°	659.0	658.3	656.4	661.5	660.9
15°	649.6	649.6	648.4	654.5	654.5
17.5°	639.5	638.8	639.5	646.5	645.8
20°	627.6	627.6	628.2	636.5	636.5
22.5°	613.2	613.8	615.7	625.7	625.1
25°	598.9	600.0	603.8	612.5	613.8
27.5°	581.3	584.5	588.8	599.4	600.6
30°	565.0	566.9	573.7	583.8	586.2
32.5°	545.6	549.3	556.9	568.1	571.3
35°	524.9	529.9	538.7	552.4	555.6
37.5°	504.3	508.7	520.6	534.9	540.6
40°	481.1	488.6	501.1	517.4	523.6
42.5°	458.4	466.1	483.0	499.8	505.5
45°	434.7	442.9	461.0	481.7	488.6
47.5°	408.4	417.9	441.0	462.9	470.3
50°	381.4	393.3	419.0	443.5	452.3
52.5°	353.3	368.2	397.7	423.4	431.7
55°	325.8	341.9	375.9	402.2	412.2
57.5°	297.5	315.1	353.3	383.3	389.0
60°	266.8	288.2	330.0	356.4	364.0
62.5°	236.8	261.2	306.3	331.3	337.7
65°	208.0	234.3	281.9	305.0	309.4
67.5°	176.6	208.0	254.9	276.3	277.4
70°	146.6	182.9	228.6	238.6	230.5
72.5°	117.1	156.0	198.0	189.8	182.9
75°	91.5	130.9	161.1	144.7	140.9
77.5°	67.7	107.2	115.2	106.5	99.6
80°	48.2	84.5	77.7	66.4	63.3
82.5°	33.1	53.3	42.6	33.1	28.9
85°	18.9	23.8	15.1	9.4	7.5
87.5°	8.1	5.7	3.2	2.5	2.5
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)