

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: P732696

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732696
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-CP187-2700K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

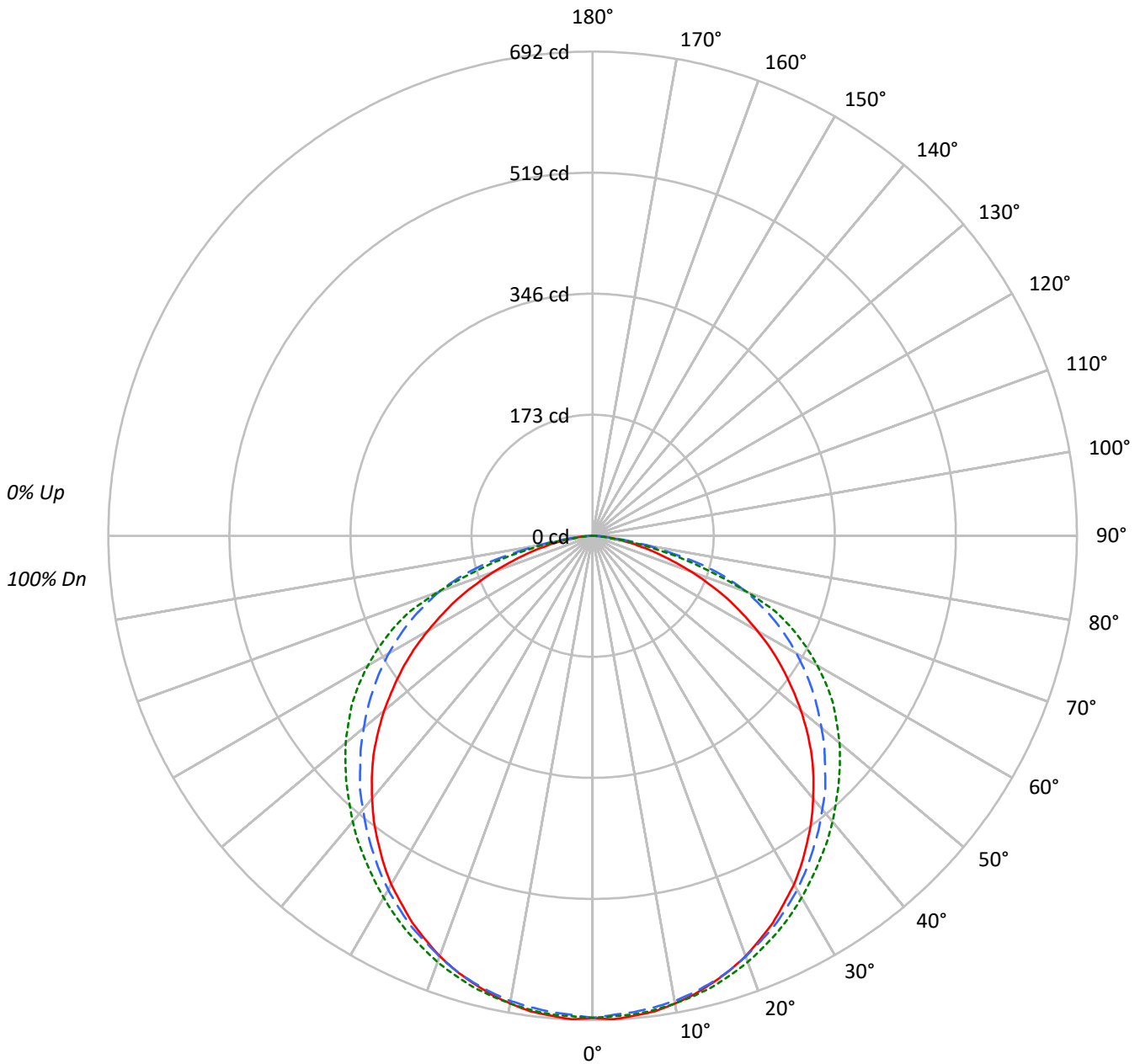
Lumens per Lamp: N/A
Luminaire Lumens: 2029.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732696

CATALOG NUMBER: 14FCZ2-29-HRP-B2750-W2D-CP187-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P732696

CATALOG NUMBER: 14FCZ2-29-HRP-B2750-W2D-CP187-2700K

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°	1945	1945	1945
5°	1951	1936	1945
10°	1946	1935	1946
15°	1934	1930	1948
20°	1920	1922	1947
25°	1900	1915	1947
30°	1876	1904	1946
35°	1842	1891	1950
40°	1806	1881	1965
45°	1767	1874	1986
50°	1706	1874	2023
55°	1633	1884	2066
60°	1534	1898	2093
65°	1415	1918	2105
70°	1233	1921	1938
75°	1016	1789	1565
80°	798	1286	1047
85°	622	496	246



TEST NUMBER: P732696

CATALOG NUMBER: 14FCZ2-29-HRP-B2750-W2D-CP187-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	3.2
10°-20°	187.2	9.2
20°-30°	284.2	14.0
30°-40°	344.4	17.0
40°-50°	362.9	17.9
50°-60°	338.8	16.7
60°-70°	270.8	13.3
70°-80°	149.0	7.3
80°-90°	26.3	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°	536.7	26.5
0°-40°	881.1	43.4
0°-60°	1582.9	78.0
0°-90°	2029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2029.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	689	689	689	689	689	
5°	688	687	683	688	687	65
15°	662	662	660	667	667	187
25°	610	611	615	624	625	281
35°	535	540	549	563	566	335
45°	443	451	470	491	498	341
55°	332	348	383	410	420	296
65°	212	239	287	311	315	209
75°	93	133	164	147	144	100
85°	19	24	15	10	8	23
90°	0	0	0	0	0	



TEST NUMBER: P732696

CATALOG NUMBER: 14FCZ2-29-HRP-B2750-W2D-CP187-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	689.0	689.0	689.0	689.0	689.0
2.5°	691.6	689.6	685.3	689.0	687.2
5°	688.5	686.6	683.3	687.8	686.6
7.5°	685.3	682.7	679.5	684.6	683.3
10°	678.8	676.9	675.1	679.5	678.8
12.5°	671.2	670.6	668.6	673.8	673.2
15°	661.7	661.7	660.4	666.7	666.7
17.5°	651.4	650.7	651.4	658.5	657.8
20°	639.2	639.2	639.9	648.3	648.3
22.5°	624.6	625.2	627.1	637.3	636.7
25°	610.0	611.2	615.0	623.9	625.2
27.5°	592.1	595.3	599.7	610.5	611.8
30°	575.5	577.4	584.3	594.7	597.1
32.5°	555.8	559.5	567.2	578.7	581.9
35°	534.6	539.8	548.7	562.7	565.9
37.5°	513.6	518.1	530.3	544.8	550.6
40°	490.1	497.6	510.4	527.0	533.3
42.5°	467.0	474.7	492.0	509.1	514.9
45°	442.7	451.1	469.5	490.7	497.6
47.5°	415.9	425.6	449.2	471.5	479.1
50°	388.5	400.6	426.8	451.8	460.7
52.5°	359.9	375.1	405.1	431.3	439.7
55°	331.8	348.3	382.8	409.6	419.8
57.5°	303.1	321.0	359.9	390.4	396.2
60°	271.7	293.5	336.2	363.0	370.7
62.5°	241.2	266.1	312.0	337.5	343.9
65°	211.8	238.6	287.1	310.7	315.2
67.5°	179.9	211.8	259.6	281.4	282.6
70°	149.4	186.3	232.8	243.0	234.8
72.5°	119.3	158.9	201.7	193.3	186.3
75°	93.2	133.4	164.0	147.4	143.5
77.5°	68.9	109.2	117.4	108.5	101.4
80°	49.1	86.1	79.1	67.7	64.4
82.5°	33.7	54.3	43.4	33.7	29.4
85°	19.2	24.2	15.3	9.5	7.6
87.5°	8.2	5.8	3.2	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)