

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: P733940

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30-HRP-B2750-W2D-CA08-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

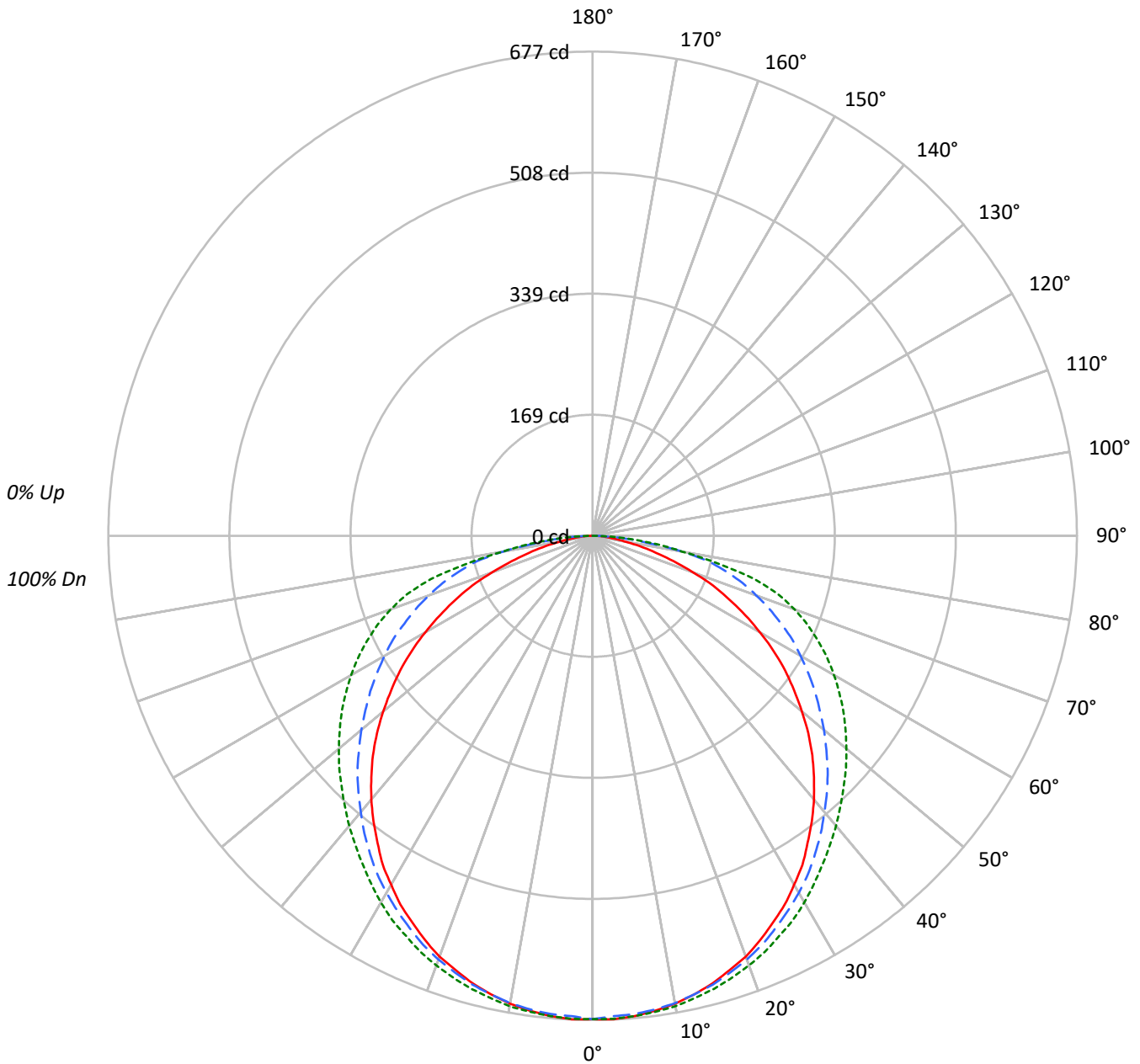
Lumens per Lamp: N/A
Luminaire Lumens: 2083.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	954	954	954
5°	955	951	955
10°	952	951	957
15°	947	949	958
20°	940	947	960
25°	929	942	961
30°	918	939	965
35°	903	935	966
40°	887	929	975
45°	867	928	990
50°	839	927	1017
55°	809	933	1053
60°	763	948	1100
65°	705	970	1162
70°	615	1004	1238
75°	499	1056	1279
80°	368	1035	1035
85°	283	763	861



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	3.1
10°-20°	183.8	8.8
20°-30°	279.9	13.4
30°-40°	339.8	16.3
40°-50°	359.0	17.2
50°-60°	338.8	16.3
60°-70°	281.7	13.5
70°-80°	185.3	8.9
80°-90°	50.5	2.4
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°	527.7	25.3
0°-40°	867.6	41.7
0°-60°	1565.4	75.2
0°-90°	2083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	674	674	671	674	674	64
15°	648	649	650	656	656	183
25°	596	600	605	616	617	275
35°	524	530	542	556	561	328
45°	434	443	465	488	496	334
55°	329	343	379	415	428	293
65°	211	235	290	333	348	209
75°	92	133	194	229	235	99
85°	18	38	47	52	53	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	675.9	675.9	675.9	675.9	675.9
2.5°	676.7	675.9	672.3	675.9	675.9
5°	674.1	674.1	671.4	674.1	674.1
7.5°	669.7	669.7	668.0	671.4	671.4
10°	664.5	664.5	663.6	668.0	668.0
12.5°	656.7	657.5	656.7	661.8	661.8
15°	647.9	648.8	649.7	655.8	655.8
17.5°	636.6	638.3	640.1	647.1	647.9
20°	626.1	627.0	630.5	638.3	639.2
22.5°	612.1	614.8	619.1	627.0	629.6
25°	596.5	599.9	605.2	615.7	617.4
27.5°	581.6	584.3	591.2	602.5	606.1
30°	563.4	567.7	576.4	587.7	592.1
32.5°	545.9	550.2	560.7	573.0	576.4
35°	524.1	530.2	542.5	556.4	560.7
37.5°	503.2	509.2	524.1	539.8	545.0
40°	481.3	488.3	504.1	522.4	529.3
42.5°	457.8	467.4	484.9	504.9	512.8
45°	434.3	443.0	464.8	487.5	496.2
47.5°	408.9	419.4	443.0	470.0	480.4
50°	382.0	395.0	422.1	451.8	463.1
52.5°	354.9	369.7	400.2	433.4	445.6
55°	328.7	342.7	379.3	415.1	428.1
57.5°	300.0	317.4	357.5	395.9	408.9
60°	270.4	289.6	335.7	375.8	389.7
62.5°	240.7	262.5	314.8	354.9	369.7
65°	211.1	235.4	290.4	333.1	347.9
67.5°	182.3	209.3	267.7	310.5	325.3
70°	149.1	183.1	243.3	285.1	300.0
72.5°	118.6	157.9	219.8	259.0	272.1
75°	91.6	133.4	193.6	229.4	234.6
77.5°	67.2	109.0	166.5	178.8	179.7
80°	45.3	87.2	127.4	125.5	127.4
82.5°	29.7	65.4	80.2	89.8	90.7
85°	17.5	38.4	47.1	52.3	53.2
87.5°	8.7	13.0	16.6	17.5	19.2
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)