

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: P734062

Luminaire Tested: **24FCZ2-30HE-HRP-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734062  
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: 24FCZ2-30HE-HRP-B2750-W2D-CA08-3000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND HRP LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

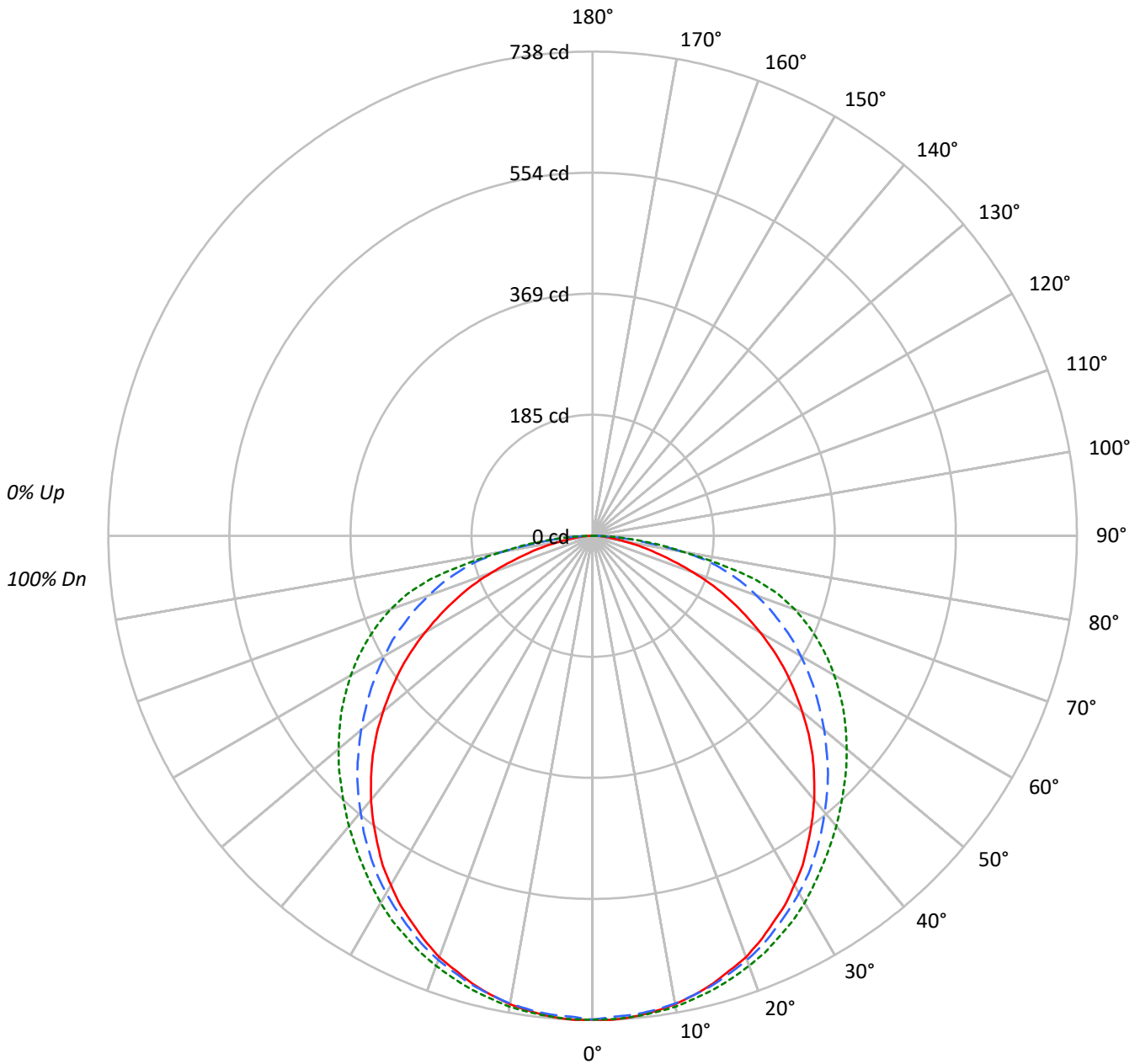
Lumens per Lamp: N/A  
Luminaire Lumens: 2273.0 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	1041	1041	1041
5°	1042	1038	1042
10°	1039	1038	1045
15°	1033	1036	1046
20°	1026	1033	1048
25°	1014	1028	1049
30°	1002	1025	1053
35°	985	1020	1054
40°	968	1013	1064
45°	946	1012	1081
50°	915	1011	1109
55°	883	1018	1150
60°	833	1034	1200
65°	769	1058	1268
70°	672	1096	1351
75°	545	1152	1396
80°	402	1130	1130
85°	309	832	939



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.9	3.1
10°-20°	200.6	8.8
20°-30°	305.4	13.4
30°-40°	370.8	16.3
40°-50°	391.8	17.2
50°-60°	369.7	16.3
60°-70°	307.4	13.5
70°-80°	202.3	8.9
80°-90°	55.1	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°	575.9	25.3
0°-40°	946.7	41.7
0°-60°	1708.2	75.2
0°-90°	2273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2273.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	736	736	733	736	736	70
15°	707	708	709	716	716	199
25°	651	655	660	672	674	300
35°	572	578	592	607	612	358
45°	474	483	507	532	541	365
55°	359	374	414	453	467	320
65°	230	257	317	364	380	228
75°	100	146	211	250	256	108
85°	19	42	51	57	58	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	737.5	737.5	737.5	737.5	737.5
2.5°	738.4	737.5	733.6	737.5	737.5
5°	735.6	735.6	732.7	735.6	735.6
7.5°	730.8	730.8	728.9	732.7	732.7
10°	725.1	725.1	724.1	728.9	728.9
12.5°	716.6	717.5	716.6	722.2	722.2
15°	707.0	708.0	708.9	715.6	715.6
17.5°	694.7	696.6	698.4	706.1	707.0
20°	683.3	684.2	688.0	696.6	697.5
22.5°	668.0	670.9	675.6	684.2	687.0
25°	650.9	654.7	660.4	671.8	673.7
27.5°	634.7	637.6	645.1	657.5	661.4
30°	614.8	619.5	629.0	641.4	646.1
32.5°	595.7	600.4	611.8	625.2	629.0
35°	571.9	578.5	591.9	607.1	611.8
37.5°	549.1	555.7	571.9	589.0	594.8
40°	525.2	532.9	550.0	570.0	577.6
42.5°	499.6	510.0	529.1	551.0	559.6
45°	473.9	483.4	507.2	531.9	541.4
47.5°	446.2	457.7	483.4	512.9	524.3
50°	416.8	431.1	460.6	493.0	505.3
52.5°	387.3	403.4	436.7	473.0	486.3
55°	358.7	374.0	413.9	453.0	467.2
57.5°	327.4	346.3	390.1	432.0	446.2
60°	295.0	316.0	366.3	410.1	425.3
62.5°	262.7	286.4	343.5	387.3	403.4
65°	230.3	256.9	316.9	363.5	379.6
67.5°	198.9	228.4	292.1	338.8	354.9
70°	162.8	199.8	265.5	311.1	327.4
72.5°	129.4	172.3	239.8	282.7	296.9
75°	99.9	145.6	211.2	250.3	256.0
77.5°	73.3	119.0	181.7	195.1	196.1
80°	49.4	95.2	139.0	137.0	139.0
82.5°	32.4	71.3	87.6	98.0	99.0
85°	19.1	41.9	51.4	57.1	58.0
87.5°	9.5	14.2	18.1	19.1	20.9
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)