

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: P734065

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734065  
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-CA08-5000K  
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**

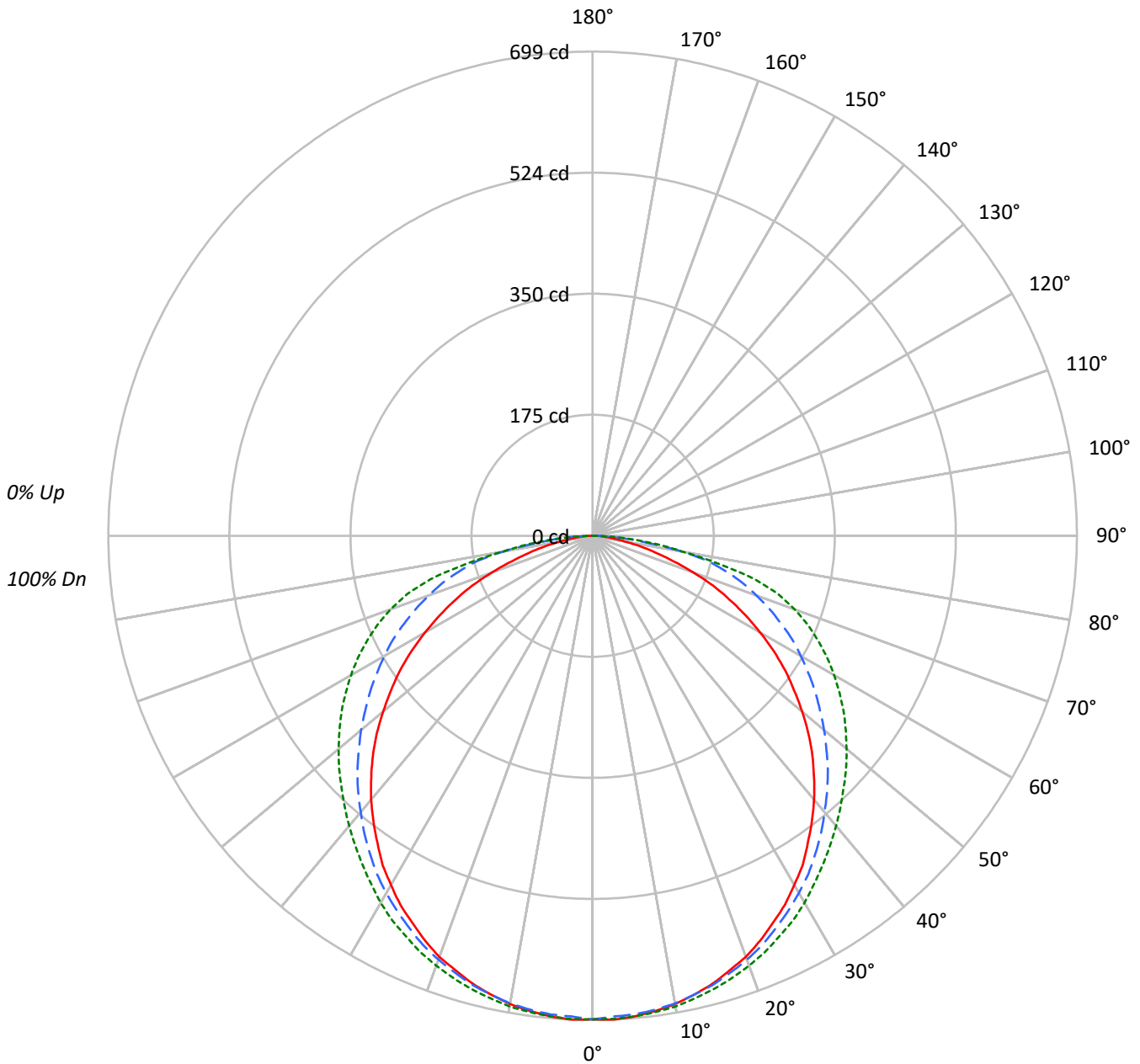
Lumens per Lamp: N/A  
Luminaire Lumens: 2152.0 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P734065

CATALOG NUMBER: 24FCZ2-30HE-HRP-B2750-W2D-CA08-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P734065

CATALOG NUMBER: 24FCZ2-30HE-HRP-B2750-W2D-CA08-5000K

**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°	985	985	985
5°	987	983	987
10°	984	982	989
15°	978	981	990
20°	972	978	992
25°	960	974	993
30°	948	970	997
35°	933	966	998
40°	916	960	1007
45°	896	958	1023
50°	866	958	1050
55°	836	964	1088
60°	788	979	1137
65°	728	1002	1200
70°	636	1037	1279
75°	516	1091	1321
80°	380	1070	1070
85°	291	789	889



TEST NUMBER: P734065

CATALOG NUMBER: 24FCZ2-30HE-HRP-B2750-W2D-CA08-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.1	3.1
10°-20°	189.9	8.8
20°-30°	289.2	13.4
30°-40°	351.1	16.3
40°-50°	370.9	17.2
50°-60°	350.0	16.3
60°-70°	291.0	13.5
70°-80°	191.5	8.9
80°-90°	52.2	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°	545.2	25.3
0°-40°	896.3	41.7
0°-60°	1617.3	75.2
0°-90°	2152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2152.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	696	696	694	696	696	66
15°	669	670	671	678	678	189
25°	616	620	625	636	638	284
35°	542	548	560	575	579	339
45°	449	458	480	504	513	346
55°	340	354	392	429	442	303
65°	218	243	300	344	359	216
75°	95	138	200	237	242	102
85°	18	40	49	54	55	22
90°	0	0	0	0	0	



TEST NUMBER: P734065

CATALOG NUMBER: 24FCZ2-30HE-HRP-B2750-W2D-CA08-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	698.2	698.2	698.2	698.2	698.2
2.5°	699.1	698.2	694.6	698.2	698.2
5°	696.5	696.5	693.7	696.5	696.5
7.5°	691.9	691.9	690.1	693.7	693.7
10°	686.5	686.5	685.5	690.1	690.1
12.5°	678.4	679.3	678.4	683.8	683.8
15°	669.4	670.3	671.2	677.5	677.5
17.5°	657.7	659.5	661.3	668.5	669.4
20°	646.9	647.8	651.3	659.5	660.4
22.5°	632.4	635.2	639.6	647.8	650.4
25°	616.2	619.8	625.3	636.1	637.9
27.5°	600.9	603.7	610.8	622.5	626.2
30°	582.0	586.5	595.5	607.2	611.7
32.5°	564.0	568.4	579.3	592.0	595.5
35°	541.5	547.7	560.4	574.8	579.3
37.5°	519.9	526.1	541.5	557.6	563.1
40°	497.3	504.5	520.8	539.7	546.8
42.5°	473.0	482.9	500.9	521.7	529.8
45°	448.7	457.7	480.2	503.6	512.6
47.5°	422.5	433.3	457.7	485.6	496.4
50°	394.6	408.1	436.1	466.7	478.4
52.5°	366.7	381.9	413.5	447.8	460.4
55°	339.6	354.1	391.9	428.8	442.3
57.5°	310.0	327.9	369.3	409.0	422.5
60°	279.3	299.2	346.8	388.3	402.7
62.5°	248.7	271.2	325.2	366.7	381.9
65°	218.0	243.2	300.0	344.2	359.4
67.5°	188.3	216.3	276.5	320.8	336.0
70°	154.1	189.2	251.4	294.6	310.0
72.5°	122.6	163.1	227.1	267.6	281.1
75°	94.6	137.8	200.0	237.0	242.3
77.5°	69.4	112.6	172.0	184.7	185.6
80°	46.8	90.1	131.6	129.7	131.6
82.5°	30.6	67.5	82.9	92.8	93.7
85°	18.0	39.7	48.7	54.0	54.9
87.5°	9.0	13.5	17.2	18.0	19.8
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)