

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: P733937

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733937
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-CA08-3000K
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

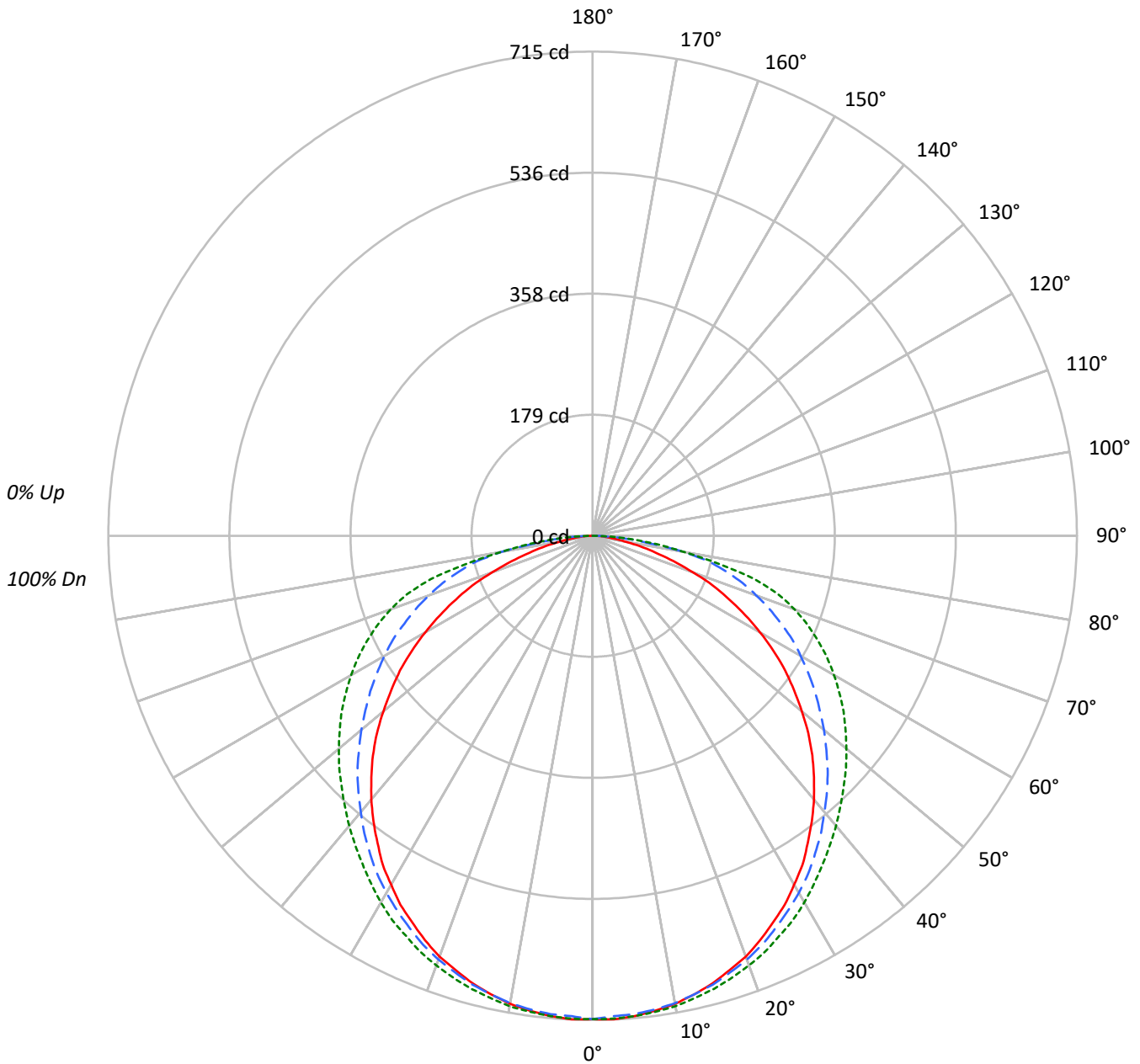
Lumens per Lamp: N/A
Luminaire Lumens: 2200.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1007	1007	1007
5°	1009	1005	1009
10°	1006	1004	1011
15°	1000	1002	1012
20°	993	1000	1014
25°	981	995	1015
30°	970	992	1019
35°	954	987	1020
40°	936	981	1030
45°	916	980	1046
50°	886	979	1074
55°	854	986	1113
60°	806	1001	1162
65°	744	1024	1227
70°	650	1061	1308
75°	527	1115	1351
80°	388	1093	1093
85°	300	806	910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	3.1
10°-20°	194.2	8.8
20°-30°	295.6	13.4
30°-40°	358.9	16.3
40°-50°	379.2	17.2
50°-60°	357.8	16.3
60°-70°	297.5	13.5
70°-80°	195.8	8.9
80°-90°	53.4	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°	557.4	25.3
0°-40°	916.3	41.7
0°-60°	1653.4	75.2
0°-90°	2200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	712	712	709	712	712	68
15°	684	685	686	693	693	193
25°	630	634	639	650	652	291
35°	554	560	573	588	592	347
45°	459	468	491	515	524	353
55°	347	362	401	438	452	309
65°	223	249	307	352	367	220
75°	97	141	204	242	248	104
85°	18	40	50	55	56	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	713.8	713.8	713.8	713.8	713.8
2.5°	714.7	713.8	710.1	713.8	713.8
5°	712.0	712.0	709.1	712.0	712.0
7.5°	707.3	707.3	705.5	709.1	709.1
10°	701.9	701.9	700.8	705.5	705.5
12.5°	693.5	694.5	693.5	699.0	699.0
15°	684.3	685.2	686.1	692.6	692.6
17.5°	672.4	674.2	676.0	683.4	684.3
20°	661.3	662.2	665.9	674.2	675.1
22.5°	646.5	649.4	653.9	662.2	665.0
25°	630.0	633.6	639.2	650.3	652.1
27.5°	614.3	617.1	624.4	636.4	640.1
30°	595.0	599.6	608.8	620.8	625.3
32.5°	576.6	581.1	592.2	605.2	608.8
35°	553.6	559.9	572.9	587.6	592.2
37.5°	531.5	537.8	553.6	570.1	575.7
40°	508.3	515.7	532.4	551.7	559.0
42.5°	483.5	493.6	512.1	533.3	541.6
45°	458.7	467.9	490.9	514.8	524.1
47.5°	431.9	443.0	467.9	496.4	507.4
50°	403.4	417.2	445.8	477.1	489.1
52.5°	374.8	390.5	422.7	457.8	470.6
55°	347.2	362.0	400.6	438.4	452.2
57.5°	316.9	335.2	377.6	418.1	431.9
60°	285.6	305.8	354.6	396.9	411.6
62.5°	254.2	277.2	332.5	374.8	390.5
65°	222.9	248.6	306.7	351.8	367.4
67.5°	192.5	221.1	282.7	327.9	343.5
70°	157.5	193.4	257.0	301.2	316.9
72.5°	125.3	166.8	232.1	273.6	287.4
75°	96.7	140.9	204.5	242.3	247.7
77.5°	71.0	115.2	175.9	188.8	189.8
80°	47.8	92.1	134.5	132.6	134.5
82.5°	31.3	69.0	84.7	94.9	95.8
85°	18.5	40.5	49.8	55.2	56.2
87.5°	9.2	13.8	17.5	18.5	20.3
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)