

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: P734064

Luminaire Tested: **24FCZ2-30HE-HRP-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734064
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-CA08-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

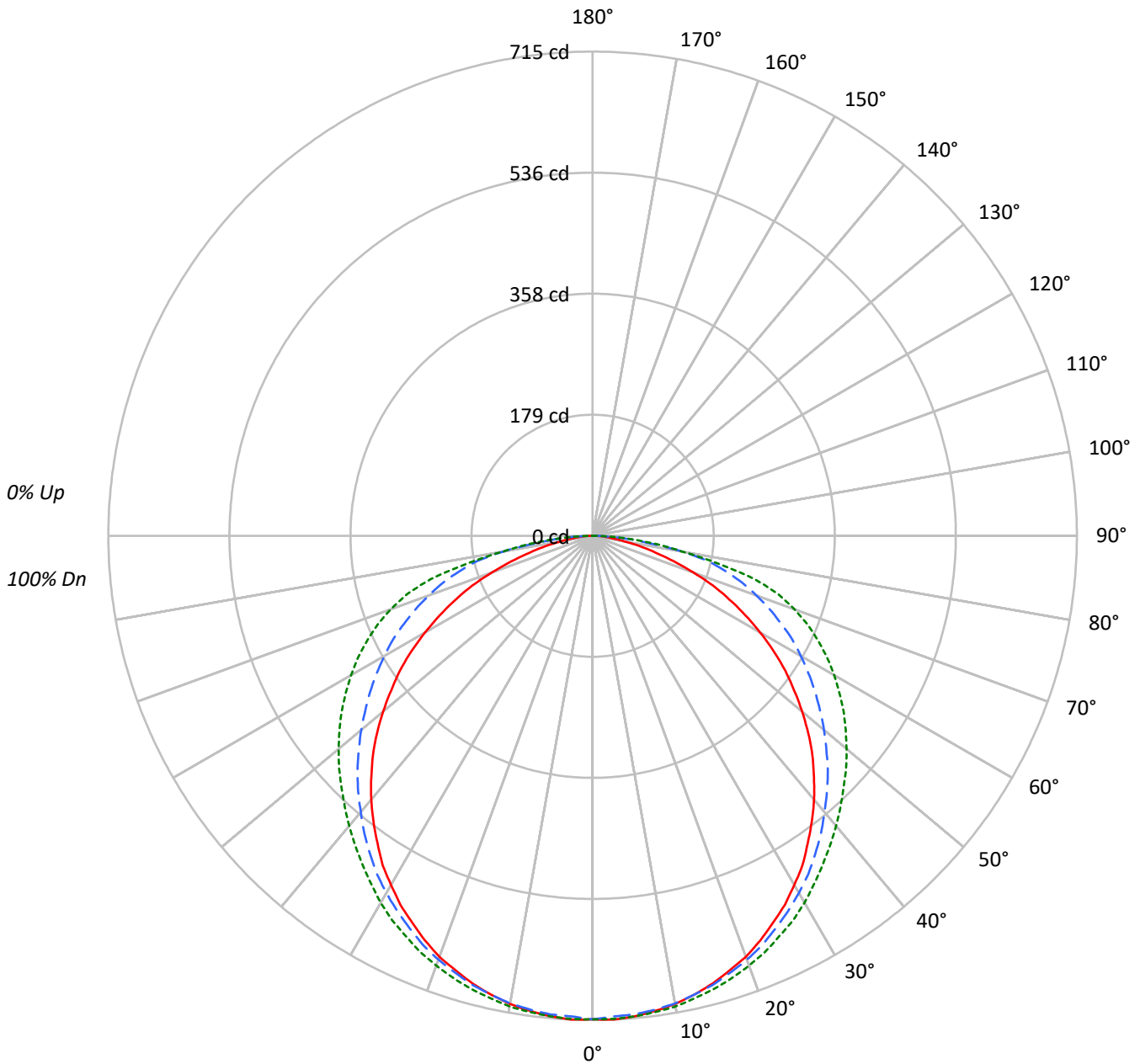
Lumens per Lamp: N/A
Luminaire Lumens: 2201.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
Input Voltage (V): NR
Input Current (A_{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°	1008	1008	1008
5°	1009	1005	1009
10°	1006	1005	1011
15°	1000	1003	1012
20°	994	1001	1014
25°	982	996	1016
30°	970	993	1020
35°	954	988	1021
40°	937	981	1030
45°	916	980	1046
50°	886	979	1074
55°	855	986	1113
60°	806	1001	1162
65°	745	1025	1228
70°	650	1061	1308
75°	527	1115	1351
80°	389	1094	1094
85°	300	806	910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	3.1
10°-20°	194.3	8.8
20°-30°	295.7	13.4
30°-40°	359.1	16.3
40°-50°	379.4	17.2
50°-60°	358.0	16.3
60°-70°	297.7	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°	557.6	25.3
0°-40°	916.7	41.7
0°-60°	1654.1	75.2
0°-90°	2201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2201.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	712	712	710	712	712	68
15°	685	686	686	693	693	193
25°	630	634	640	651	652	291
35°	554	560	573	588	592	347
45°	459	468	491	515	524	353
55°	347	362	401	439	452	309
65°	223	249	307	352	368	220
75°	97	141	204	242	248	104
85°	18	41	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°	714.1	714.1	714.1	714.1	714.1
2.5°	715.1	714.1	710.4	714.1	714.1
5°	712.3	712.3	709.5	712.3	712.3
7.5°	707.6	707.6	705.8	709.5	709.5
10°	702.2	702.2	701.2	705.8	705.8
12.5°	693.9	694.8	693.9	699.3	699.3
15°	684.6	685.5	686.5	692.9	692.9
17.5°	672.7	674.5	676.3	683.7	684.6
20°	661.6	662.5	666.2	674.5	675.4
22.5°	646.8	649.6	654.2	662.5	665.3
25°	630.3	633.9	639.5	650.6	652.4
27.5°	614.5	617.4	624.7	636.7	640.4
30°	595.3	599.8	609.1	621.0	625.6
32.5°	576.8	581.4	592.4	605.4	609.1
35°	553.8	560.2	573.2	587.9	592.4
37.5°	531.7	538.1	553.8	570.3	575.9
40°	508.6	516.0	532.6	552.0	559.3
42.5°	483.7	493.9	512.3	533.5	541.8
45°	458.9	468.1	491.1	515.1	524.3
47.5°	432.1	443.2	468.1	496.6	507.7
50°	403.6	417.4	446.0	477.3	489.3
52.5°	375.0	390.6	422.9	458.0	470.9
55°	347.3	362.1	400.8	438.6	452.4
57.5°	317.0	335.4	377.8	418.3	432.1
60°	285.7	306.0	354.7	397.1	411.8
62.5°	254.3	277.4	332.6	375.0	390.6
65°	223.0	248.8	306.9	352.0	367.6
67.5°	192.6	221.2	282.8	328.1	343.7
70°	157.6	193.5	257.1	301.3	317.0
72.5°	125.3	166.8	232.2	273.7	287.5
75°	96.7	141.0	204.5	242.4	247.8
77.5°	71.0	115.2	175.9	188.9	189.8
80°	47.9	92.2	134.6	132.6	134.6
82.5°	31.3	69.1	84.8	94.9	95.8
85°	18.5	40.6	49.8	55.3	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)