

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: P733939

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733939
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-CA08-4000K
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

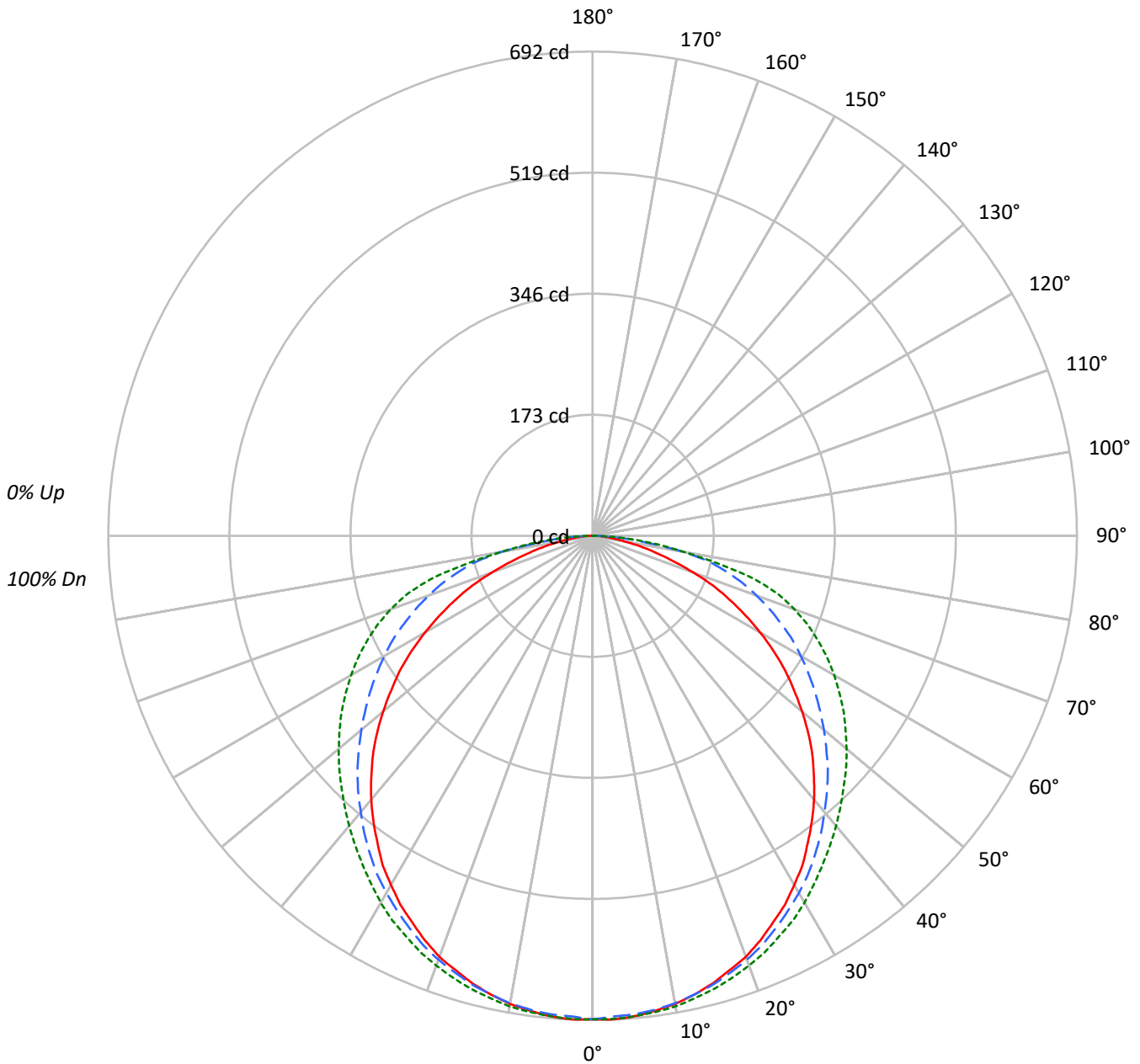
Lumens per Lamp: N/A
Luminaire Lumens: 2130.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	975	975	975
5°	977	973	977
10°	974	972	979
15°	968	971	980
20°	962	968	982
25°	950	964	983
30°	939	961	987
35°	923	956	988
40°	907	950	997
45°	886	949	1013
50°	858	948	1040
55°	827	954	1077
60°	780	969	1125
65°	721	992	1188
70°	629	1027	1266
75°	510	1079	1308
80°	376	1058	1058
85°	290	781	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	3.1
10°-20°	188.0	8.8
20°-30°	286.2	13.4
30°-40°	347.5	16.3
40°-50°	367.1	17.2
50°-60°	346.4	16.3
60°-70°	288.0	13.5
70°-80°	189.5	8.9
80°-90°	51.7	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°	539.7	25.3
0°-40°	887.2	41.7
0°-60°	1600.7	75.2
0°-90°	2130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2130.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	691	691	691	691	691	
5°	689	689	687	689	689	65
15°	662	663	664	671	671	187
25°	610	614	619	630	631	281
35°	536	542	555	569	573	335
45°	444	453	475	498	507	342
55°	336	350	388	424	438	299
65°	216	241	297	341	356	213
75°	94	136	198	235	240	101
85°	18	39	48	54	54	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.1	691.1	691.1	691.1	691.1
2.5°	692.0	691.1	687.5	691.1	691.1
5°	689.3	689.3	686.6	689.3	689.3
7.5°	684.8	684.8	683.1	686.6	686.6
10°	679.5	679.5	678.5	683.1	683.1
12.5°	671.5	672.4	671.5	676.8	676.8
15°	662.5	663.4	664.3	670.6	670.6
17.5°	651.0	652.7	654.5	661.7	662.5
20°	640.3	641.2	644.7	652.7	653.6
22.5°	625.9	628.7	633.1	641.2	643.8
25°	609.9	613.5	618.9	629.6	631.3
27.5°	594.7	597.5	604.5	616.1	619.8
30°	576.1	580.5	589.4	601.0	605.4
32.5°	558.2	562.6	573.3	585.9	589.4
35°	535.9	542.1	554.7	568.9	573.3
37.5°	514.6	520.7	535.9	551.9	557.3
40°	492.2	499.3	515.4	534.2	541.2
42.5°	468.1	477.9	495.8	516.3	524.4
45°	444.1	453.0	475.3	498.5	507.4
47.5°	418.2	428.9	453.0	480.6	491.3
50°	390.6	403.9	431.6	462.0	473.5
52.5°	362.9	378.0	409.2	443.2	455.7
55°	336.1	350.5	387.8	424.5	437.8
57.5°	306.8	324.5	365.6	404.8	418.2
60°	276.5	296.1	343.3	384.3	398.5
62.5°	246.1	268.4	321.9	362.9	378.0
65°	215.8	240.7	297.0	340.6	355.8
67.5°	186.4	214.0	273.7	317.5	332.6
70°	152.5	187.3	248.8	291.6	306.8
72.5°	121.3	161.4	224.7	264.9	278.2
75°	93.6	136.4	197.9	234.6	239.9
77.5°	68.7	111.5	170.3	182.8	183.7
80°	46.3	89.2	130.2	128.4	130.2
82.5°	30.3	66.8	82.0	91.9	92.7
85°	17.9	39.3	48.2	53.5	54.4
87.5°	8.9	13.3	17.0	17.9	19.6
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)