

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: P734083

Luminaire Tested: **24FCZ2-30HE-HRP-B2750-W2D-CP375-3500K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734083
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-CP375-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

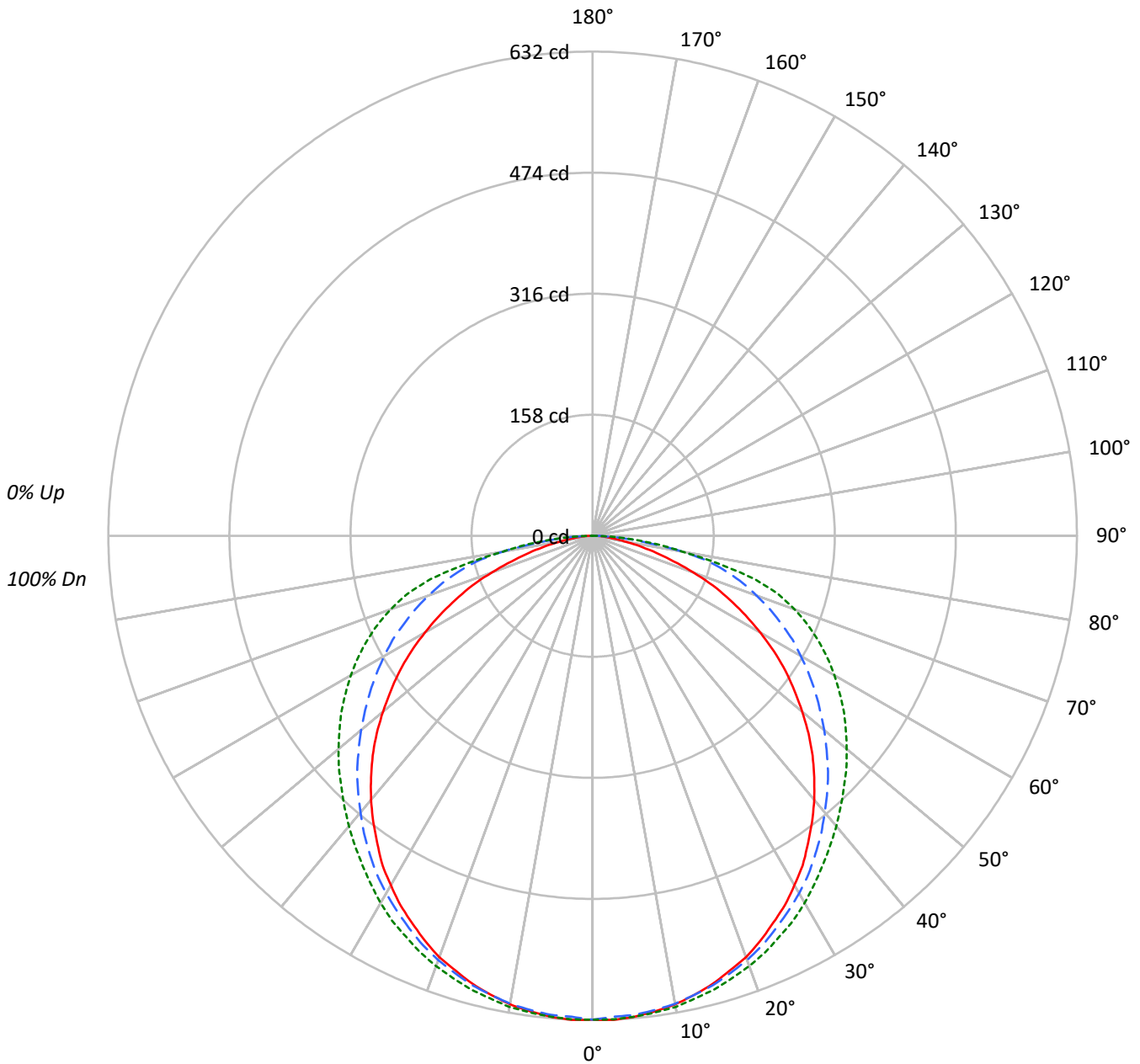
Lumens per Lamp: N/A
Luminaire Lumens: 1947.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	892	892	892
5°	893	889	893
10°	890	889	895
15°	885	887	896
20°	879	885	897
25°	868	881	899
30°	858	878	902
35°	844	874	903
40°	829	868	911
45°	810	867	926
50°	784	866	950
55°	756	872	985
60°	713	886	1028
65°	659	907	1086
70°	575	938	1157
75°	467	986	1195
80°	344	967	967
85°	264	714	805



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	3.1
10°-20°	171.8	8.8
20°-30°	261.6	13.4
30°-40°	317.7	16.3
40°-50°	335.6	17.2
50°-60°	316.7	16.3
60°-70°	263.3	13.5
70°-80°	173.2	8.9
80°-90°	47.2	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°	493.3	25.3
0°-40°	811.0	41.7
0°-60°	1463.2	75.2
0°-90°	1947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1947.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	630	630	628	630	630	60
15°	606	606	607	613	613	171
25°	558	561	566	576	577	257
35°	490	496	507	520	524	307
45°	406	414	434	456	464	313
55°	307	320	354	388	400	274
65°	197	220	272	311	325	195
75°	86	125	181	214	219	92
85°	16	36	44	49	50	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	631.7	631.7	631.7	631.7	631.7
2.5°	632.5	631.7	628.4	631.7	631.7
5°	630.1	630.1	627.6	630.1	630.1
7.5°	626.0	626.0	624.4	627.6	627.6
10°	621.1	621.1	620.2	624.4	624.4
12.5°	613.8	614.6	613.8	618.6	618.6
15°	605.6	606.4	607.2	613.0	613.0
17.5°	595.0	596.7	598.3	604.8	605.6
20°	585.3	586.1	589.3	596.7	597.5
22.5°	572.2	574.7	578.7	586.1	588.5
25°	557.5	560.8	565.7	575.5	577.1
27.5°	543.6	546.1	552.6	563.2	566.5
30°	526.6	530.6	538.8	549.4	553.4
32.5°	510.3	514.3	524.1	535.6	538.8
35°	489.9	495.5	507.0	520.0	524.1
37.5°	470.3	476.0	489.9	504.5	509.5
40°	449.9	456.4	471.2	488.3	494.7
42.5°	427.9	436.9	453.2	472.0	479.3
45°	405.9	414.1	434.5	455.6	463.8
47.5°	382.2	392.0	414.1	439.3	449.1
50°	357.0	369.2	394.5	422.3	432.8
52.5°	331.7	345.6	374.1	405.1	416.5
55°	307.2	320.4	354.5	388.0	400.2
57.5°	280.4	296.7	334.2	370.0	382.2
60°	252.7	270.7	313.8	351.3	364.3
62.5°	225.0	245.4	294.2	331.7	345.6
65°	197.3	220.1	271.5	311.4	325.2
67.5°	170.4	195.7	250.2	290.2	304.0
70°	139.4	171.2	227.4	266.5	280.4
72.5°	110.9	147.6	205.4	242.1	254.3
75°	85.6	124.7	180.9	214.4	219.2
77.5°	62.8	101.9	155.6	167.1	167.9
80°	42.3	81.5	119.0	117.3	119.0
82.5°	27.7	61.1	75.0	84.0	84.8
85°	16.3	35.9	44.1	48.9	49.7
87.5°	8.2	12.2	15.5	16.3	17.9
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)