

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: P734084

Luminaire Tested: **24FCZ2-30HE-HRP-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734084
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-CP375-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

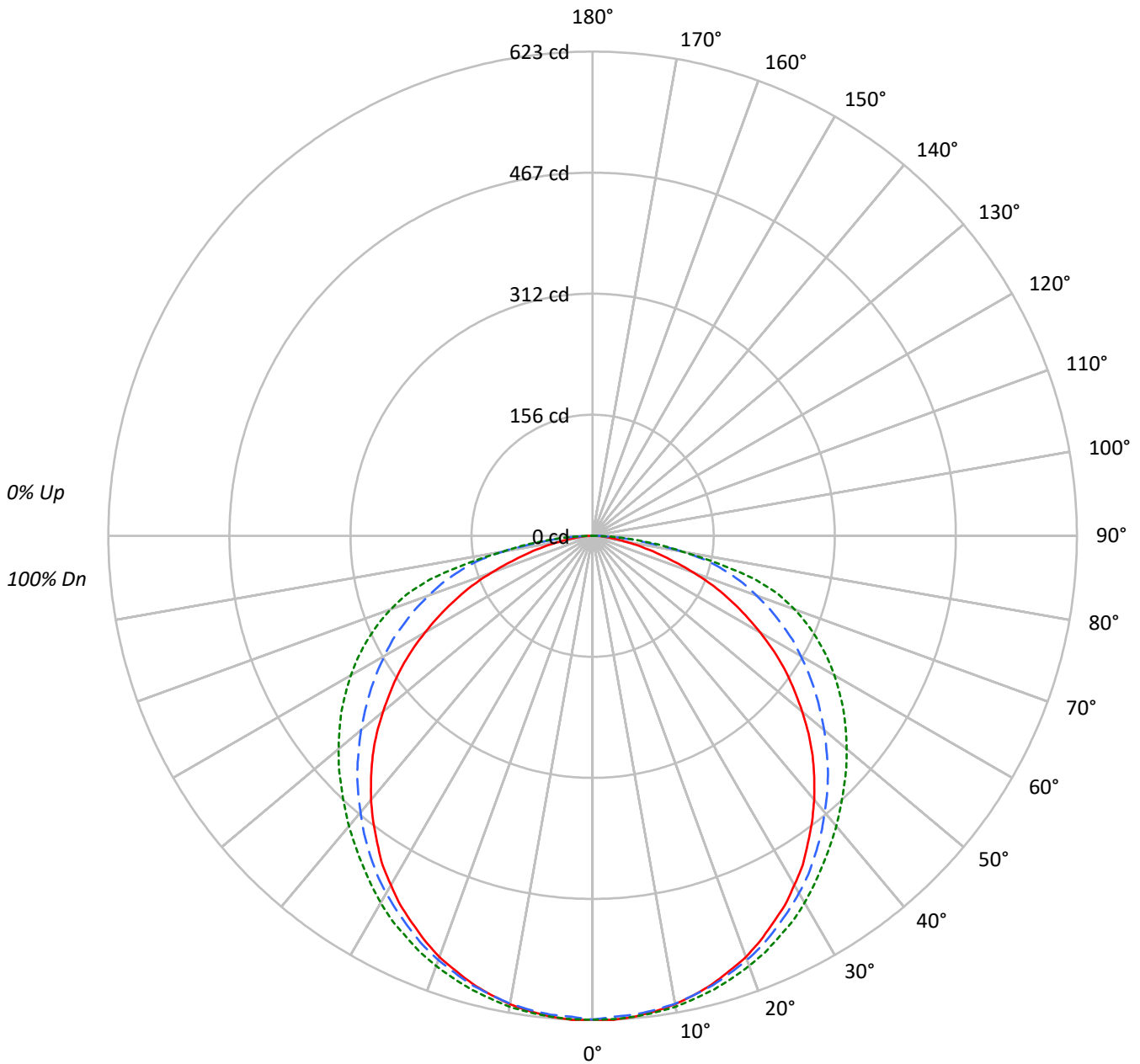
Lumens per Lamp: N/A
Luminaire Lumens: 1919.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	879	879	879
5°	880	876	880
10°	877	876	882
15°	872	874	883
20°	866	872	884
25°	856	868	886
30°	846	865	889
35°	832	861	890
40°	817	856	898
45°	799	855	912
50°	773	854	937
55°	745	860	970
60°	703	873	1014
65°	649	894	1070
70°	567	925	1141
75°	460	972	1178
80°	339	953	953
85°	261	703	793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	3.1
10°-20°	169.4	8.8
20°-30°	257.8	13.4
30°-40°	313.1	16.3
40°-50°	330.8	17.2
50°-60°	312.1	16.3
60°-70°	259.5	13.5
70°-80°	170.7	8.9
80°-90°	46.5	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°	486.2	25.3
0°-40°	799.3	41.7
0°-60°	1442.2	75.2
0°-90°	1919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	621	621	619	621	621	59
15°	597	598	598	604	604	168
25°	550	553	558	567	569	253
35°	483	488	500	513	516	302
45°	400	408	428	449	457	308
55°	303	316	349	382	394	270
65°	194	217	268	307	320	192
75°	84	123	178	211	216	91
85°	16	35	43	48	49	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	622.6	622.6	622.6	622.6	622.6
2.5°	623.4	622.6	619.4	622.6	622.6
5°	621.1	621.1	618.6	621.1	621.1
7.5°	617.0	617.0	615.4	618.6	618.6
10°	612.2	612.2	611.3	615.4	615.4
12.5°	605.0	605.8	605.0	609.7	609.7
15°	596.9	597.7	598.5	604.2	604.2
17.5°	586.5	588.1	589.7	596.1	596.9
20°	576.8	577.6	580.8	588.1	588.9
22.5°	563.9	566.4	570.4	577.6	580.0
25°	549.5	552.7	557.6	567.2	568.8
27.5°	535.8	538.3	544.7	555.1	558.4
30°	519.0	523.0	531.0	541.5	545.4
32.5°	502.9	506.9	516.5	527.9	531.0
35°	482.9	488.4	499.7	512.6	516.5
37.5°	463.6	469.1	482.9	497.3	502.1
40°	443.4	449.9	464.4	481.3	487.6
42.5°	421.8	430.6	446.7	465.2	472.4
45°	400.1	408.1	428.2	449.1	457.1
47.5°	376.7	386.4	408.1	433.0	442.6
50°	351.9	363.9	388.9	416.2	426.6
52.5°	327.0	340.6	368.7	399.3	410.5
55°	302.8	315.7	349.4	382.4	394.4
57.5°	276.4	292.4	329.4	364.7	376.7
60°	249.1	266.8	309.3	346.2	359.1
62.5°	221.8	241.8	290.0	327.0	340.6
65°	194.4	216.9	267.6	306.9	320.5
67.5°	167.9	192.8	246.6	286.0	299.6
70°	137.4	168.7	224.1	262.7	276.4
72.5°	109.3	145.5	202.5	238.6	250.7
75°	84.4	122.9	178.3	211.3	216.1
77.5°	61.9	100.4	153.4	164.7	165.5
80°	41.7	80.4	117.3	115.6	117.3
82.5°	27.3	60.2	73.9	82.8	83.6
85°	16.1	35.4	43.4	48.2	49.0
87.5°	8.0	12.0	15.3	16.1	17.7
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)