

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: P733958

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

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P733958
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-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

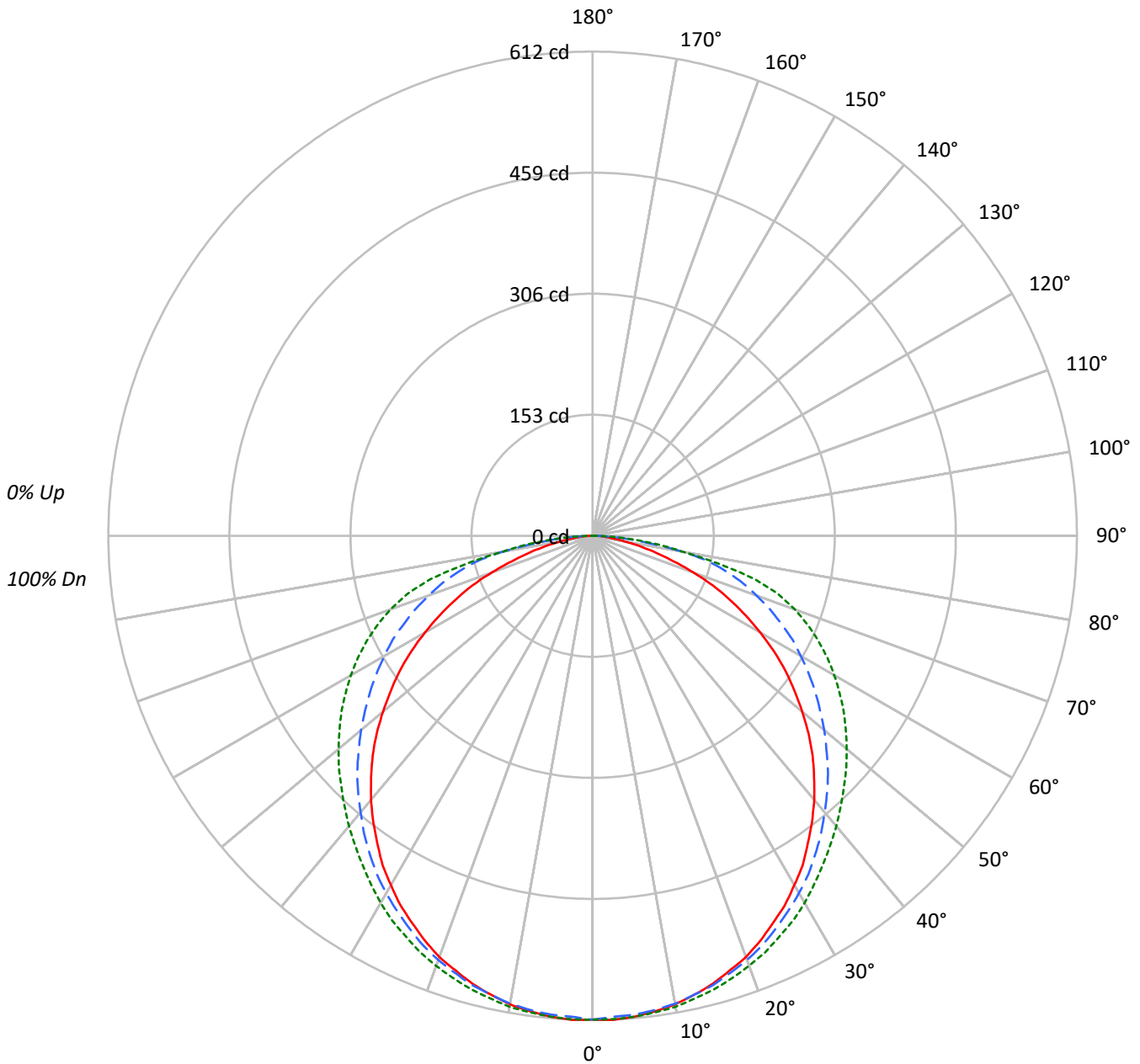
Lumens per Lamp: N/A
Luminaire Lumens: 1885.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	863	863	863
5°	864	861	864
10°	862	861	866
15°	857	859	867
20°	851	857	869
25°	841	853	870
30°	831	850	873
35°	817	846	874
40°	803	840	882
45°	784	839	896
50°	759	839	920
55°	732	844	953
60°	691	858	996
65°	638	878	1051
70°	557	909	1120
75°	452	955	1158
80°	333	937	937
85°	256	690	779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	3.1
10°-20°	166.4	8.8
20°-30°	253.3	13.4
30°-40°	307.5	16.3
40°-50°	324.9	17.2
50°-60°	306.6	16.3
60°-70°	254.9	13.5
70°-80°	167.7	8.9
80°-90°	45.7	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°	477.6	25.3
0°-40°	785.1	41.7
0°-60°	1416.6	75.2
0°-90°	1885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	610	610	608	610	610	58
15°	586	587	588	594	594	165
25°	540	543	548	557	559	249
35°	474	480	491	504	507	297
45°	393	401	421	441	449	303
55°	298	310	343	376	387	265
65°	191	213	263	302	315	189
75°	83	121	175	208	212	89
85°	16	35	43	47	48	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	611.6	611.6	611.6	611.6	611.6
2.5°	612.4	611.6	608.4	611.6	611.6
5°	610.1	610.1	607.6	610.1	610.1
7.5°	606.1	606.1	604.5	607.6	607.6
10°	601.4	601.4	600.5	604.5	604.5
12.5°	594.2	595.0	594.2	598.9	598.9
15°	586.3	587.1	587.9	593.5	593.5
17.5°	576.1	577.7	579.2	585.6	586.3
20°	566.6	567.4	570.5	577.7	578.4
22.5°	553.9	556.4	560.3	567.4	569.7
25°	539.8	542.9	547.7	557.2	558.7
27.5°	526.3	528.8	535.0	545.3	548.5
30°	509.8	513.7	521.6	531.9	535.8
32.5°	494.0	497.9	507.4	518.5	521.6
35°	474.3	479.8	490.9	503.5	507.4
37.5°	455.4	460.8	474.3	488.5	493.2
40°	435.6	441.9	456.1	472.7	479.0
42.5°	414.3	423.0	438.8	456.9	464.1
45°	393.0	400.9	420.6	441.1	449.0
47.5°	370.1	379.5	400.9	425.3	434.8
50°	345.7	357.5	382.0	408.8	419.1
52.5°	321.2	334.5	362.2	392.2	403.3
55°	297.5	310.1	343.2	375.6	387.4
57.5°	271.5	287.2	323.5	358.3	370.1
60°	244.7	262.0	303.8	340.1	352.7
62.5°	217.8	237.5	284.9	321.2	334.5
65°	191.0	213.0	262.8	301.5	314.8
67.5°	164.9	189.4	242.2	281.0	294.3
70°	135.0	165.7	220.2	258.0	271.5
72.5°	107.4	142.9	198.9	234.4	246.2
75°	82.9	120.7	175.2	207.6	212.3
77.5°	60.8	98.7	150.7	161.8	162.6
80°	41.0	79.0	115.3	113.6	115.3
82.5°	26.8	59.1	72.6	81.3	82.1
85°	15.8	34.7	42.6	47.3	48.1
87.5°	7.9	11.8	15.0	15.8	17.4
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)