

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: P733947

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733947
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-CP187-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

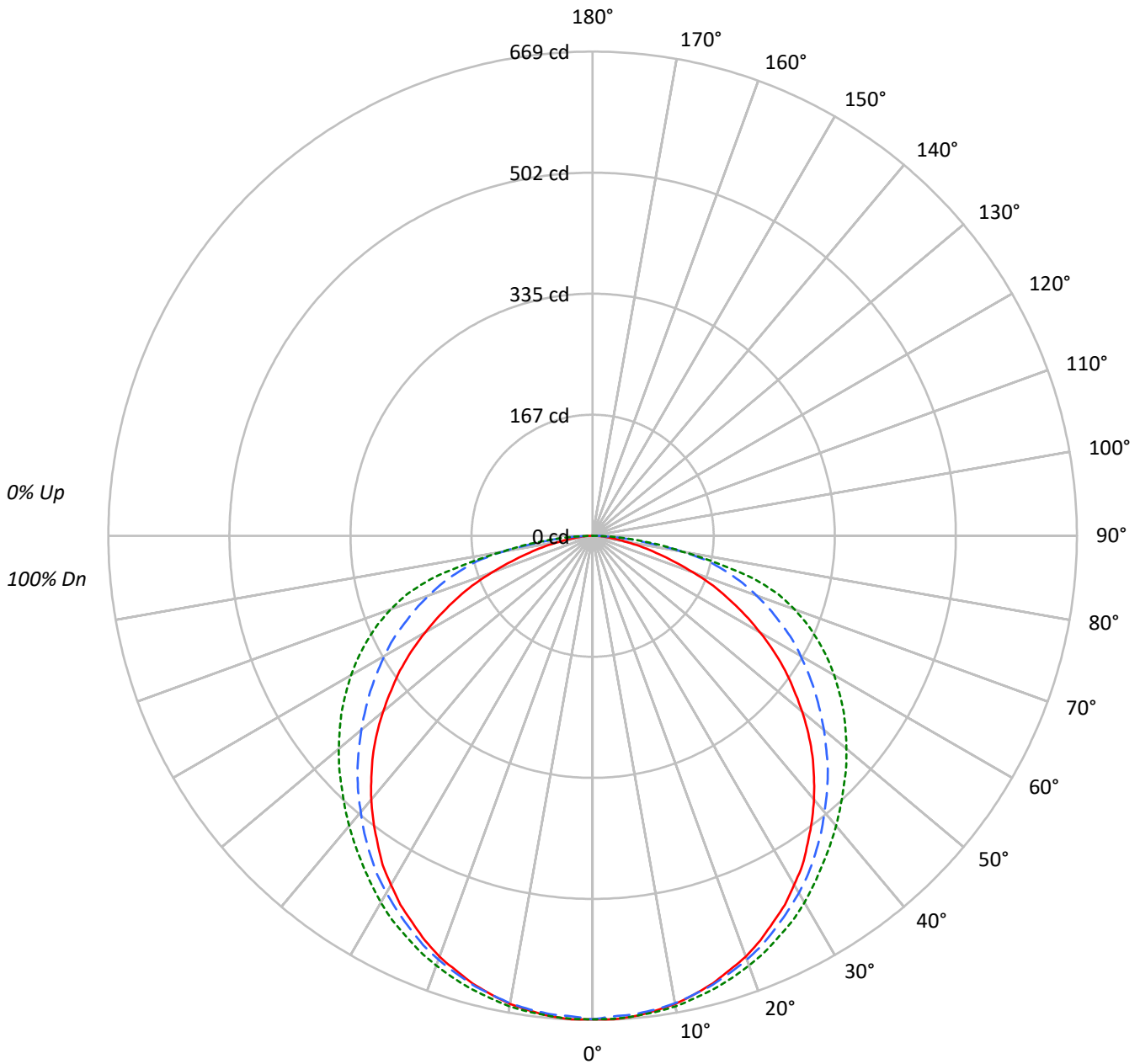
Lumens per Lamp: N/A
Luminaire Lumens: 2059.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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					20					
RC	80					70					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°	943	943	943
5°	944	940	944
10°	941	940	946
15°	936	938	947
20°	930	936	949
25°	918	932	950
30°	908	929	954
35°	893	924	955
40°	877	918	964
45°	857	917	979
50°	829	916	1005
55°	799	922	1041
60°	754	937	1088
65°	697	959	1148
70°	608	992	1224
75°	493	1043	1265
80°	364	1023	1023
85°	280	755	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	3.1
10°-20°	181.7	8.8
20°-30°	276.7	13.4
30°-40°	335.9	16.3
40°-50°	354.9	17.2
50°-60°	334.9	16.3
60°-70°	278.5	13.5
70°-80°	183.2	8.9
80°-90°	49.9	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°	521.7	25.3
0°-40°	857.6	41.7
0°-60°	1547.4	75.2
0°-90°	2059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	666	666	664	666	666	63
15°	640	641	642	648	648	181
25°	590	593	598	609	610	272
35°	518	524	536	550	554	324
45°	429	438	460	482	490	331
55°	325	339	375	410	423	289
65°	209	233	287	329	344	206
75°	90	132	191	227	232	98
85°	17	38	47	52	53	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	668.1	668.1	668.1	668.1	668.1
2.5°	668.9	668.1	664.6	668.1	668.1
5°	666.4	666.4	663.7	666.4	666.4
7.5°	662.0	662.0	660.3	663.7	663.7
10°	656.9	656.9	655.9	660.3	660.3
12.5°	649.1	649.9	649.1	654.2	654.2
15°	640.5	641.3	642.2	648.2	648.2
17.5°	629.3	631.0	632.7	639.6	640.5
20°	618.9	619.8	623.2	631.0	631.8
22.5°	605.1	607.7	612.0	619.8	622.3
25°	589.6	593.0	598.2	608.6	610.3
27.5°	574.9	577.6	584.4	595.6	599.1
30°	556.9	561.1	569.8	581.0	585.2
32.5°	539.6	543.9	554.2	566.4	569.8
35°	518.1	524.1	536.2	550.0	554.2
37.5°	497.4	503.4	518.1	533.5	538.8
40°	475.8	482.7	498.3	516.4	523.2
42.5°	452.5	462.0	479.3	499.1	506.9
45°	429.3	437.9	459.5	481.8	490.5
47.5°	404.2	414.6	437.9	464.6	474.9
50°	377.6	390.5	417.2	446.6	457.7
52.5°	350.8	365.4	395.6	428.4	440.5
55°	324.9	338.8	374.9	410.3	423.2
57.5°	296.6	313.7	353.4	391.3	404.2
60°	267.2	286.2	331.8	371.5	385.3
62.5°	237.9	259.5	311.2	350.8	365.4
65°	208.6	232.7	287.1	329.3	343.9
67.5°	180.2	206.9	264.6	306.9	321.5
70°	147.4	181.0	240.5	281.9	296.6
72.5°	117.3	156.1	217.3	256.1	269.0
75°	90.5	131.9	191.3	226.7	231.9
77.5°	66.4	107.8	164.6	176.7	177.6
80°	44.8	86.2	125.9	124.1	125.9
82.5°	29.3	64.6	79.3	88.8	89.7
85°	17.3	38.0	46.6	51.7	52.6
87.5°	8.6	12.9	16.4	17.3	19.0
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)