

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: P734072

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

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734072
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-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

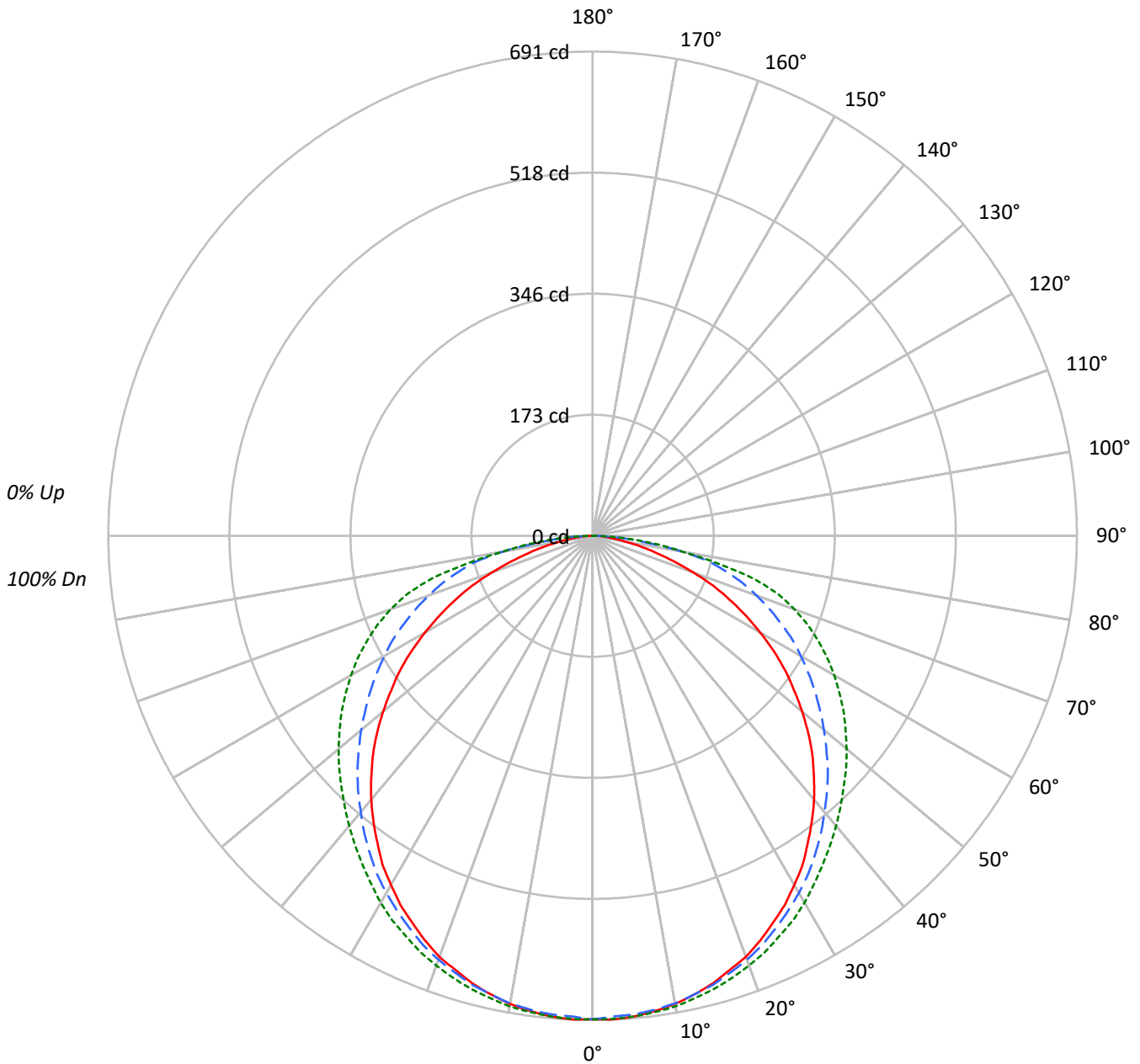
Lumens per Lamp: N/A
Luminaire Lumens: 2127.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	974	974	974
5°	975	971	975
10°	973	971	978
15°	967	969	979
20°	960	967	980
25°	949	962	982
30°	938	959	985
35°	922	954	986
40°	906	948	996
45°	885	947	1011
50°	857	946	1038
55°	826	953	1076
60°	779	968	1123
65°	720	990	1187
70°	628	1025	1264
75°	510	1078	1306
80°	376	1057	1057
85°	288	779	879



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	3.1
10°-20°	187.7	8.8
20°-30°	285.8	13.4
30°-40°	347.0	16.3
40°-50°	366.6	17.2
50°-60°	346.0	16.3
60°-70°	287.6	13.5
70°-80°	189.3	8.9
80°-90°	51.6	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°	538.9	25.3
0°-40°	885.9	41.7
0°-60°	1598.5	75.2
0°-90°	2127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	688	688	686	688	688	65
15°	662	662	663	670	670	187
25°	609	613	618	629	630	281
35°	535	541	554	568	572	335
45°	444	452	475	498	507	342
55°	336	350	387	424	437	299
65°	216	240	297	340	355	213
75°	94	136	198	234	240	101
85°	18	39	48	53	54	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	690.1	690.1	690.1	690.1	690.1
2.5°	691.0	690.1	686.5	690.1	690.1
5°	688.4	688.4	685.6	688.4	688.4
7.5°	683.9	683.9	682.1	685.6	685.6
10°	678.6	678.6	677.6	682.1	682.1
12.5°	670.5	671.4	670.5	675.8	675.8
15°	661.6	662.5	663.4	669.7	669.7
17.5°	650.0	651.8	653.6	660.7	661.6
20°	639.4	640.2	643.8	651.8	652.7
22.5°	625.1	627.8	632.2	640.2	642.9
25°	609.1	612.6	618.0	628.7	630.4
27.5°	593.9	596.6	603.7	615.3	618.9
30°	575.3	579.7	588.6	600.2	604.6
32.5°	557.4	561.8	572.5	585.1	588.6
35°	535.2	541.4	553.9	568.1	572.5
37.5°	513.8	520.0	535.2	551.2	556.6
40°	491.5	498.6	514.7	533.4	540.5
42.5°	467.5	477.3	495.1	515.6	523.6
45°	443.5	452.4	474.6	497.8	506.7
47.5°	417.6	428.3	452.4	479.9	490.6
50°	390.1	403.4	431.0	461.3	472.9
52.5°	362.4	377.5	408.7	442.6	455.0
55°	335.7	350.0	387.3	423.9	437.2
57.5°	306.4	324.1	365.1	404.3	417.6
60°	276.1	295.7	342.8	383.8	398.0
62.5°	245.8	268.0	321.4	362.4	377.5
65°	215.5	240.4	296.6	340.2	355.3
67.5°	186.1	213.7	273.3	317.0	332.1
70°	152.3	187.0	248.4	291.2	306.4
72.5°	121.1	161.2	224.4	264.5	277.8
75°	93.5	136.2	197.7	234.2	239.5
77.5°	68.6	111.3	170.0	182.6	183.5
80°	46.3	89.1	130.1	128.2	130.1
82.5°	30.3	66.7	81.9	91.7	92.6
85°	17.8	39.2	48.1	53.4	54.3
87.5°	8.9	13.3	17.0	17.8	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)