

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: P734067

Luminaire Tested: **24FCZ2-30HE-HRP-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734067
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-CA125-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

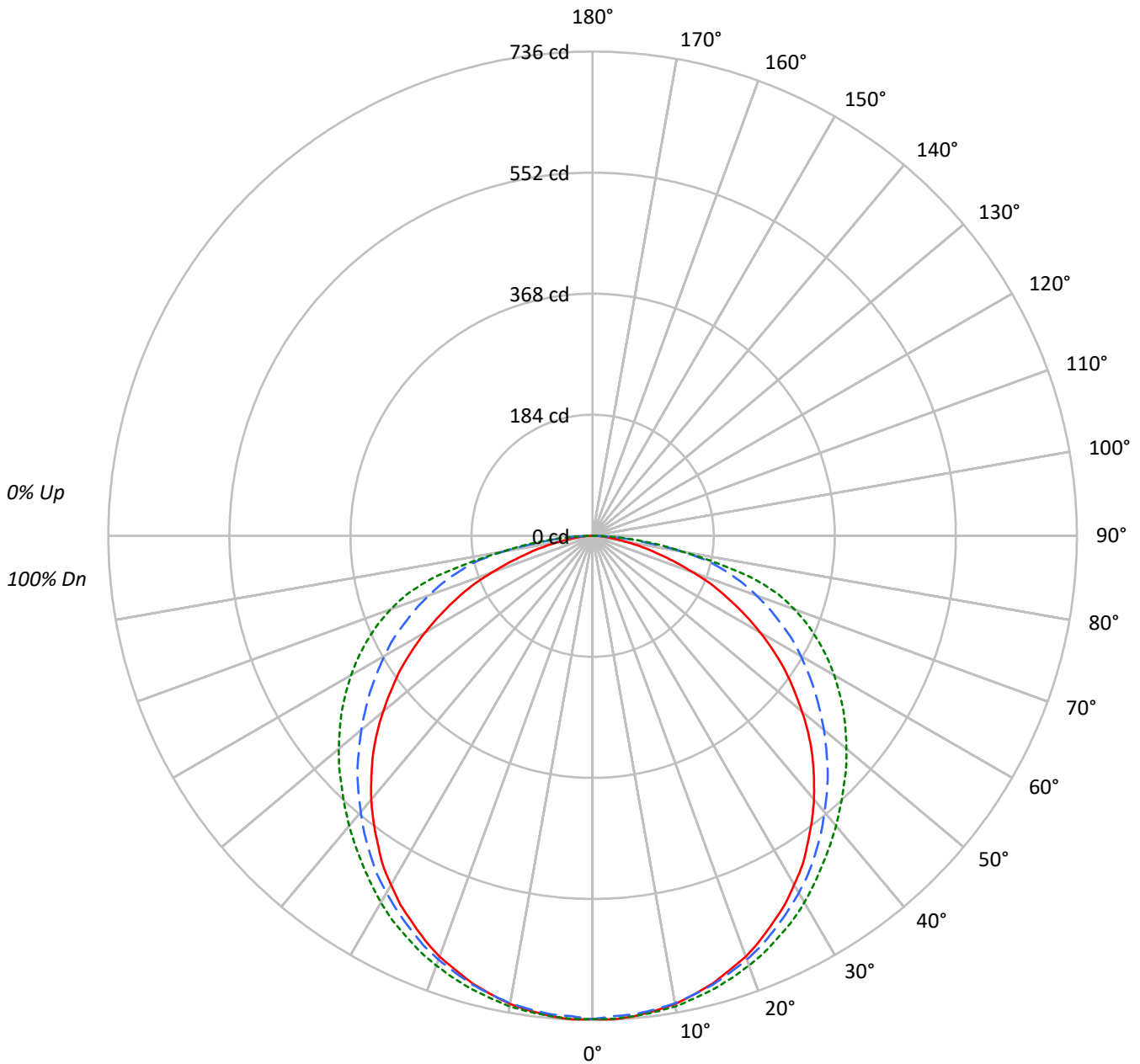
Lumens per Lamp: N/A
Luminaire Lumens: 2265.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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				100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82				82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67				67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56				56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48				48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36				36
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28				28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25				25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23				23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1037	1037	1037
5°	1038	1034	1038
10°	1036	1034	1041
15°	1029	1032	1042
20°	1023	1030	1044
25°	1010	1025	1046
30°	998	1021	1049
35°	982	1016	1050
40°	964	1010	1060
45°	942	1009	1077
50°	912	1008	1106
55°	879	1015	1145
60°	830	1031	1196
65°	766	1055	1263
70°	669	1092	1346
75°	543	1148	1391
80°	401	1126	1126
85°	308	829	936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	3.1
10°-20°	199.9	8.8
20°-30°	304.3	13.4
30°-40°	369.5	16.3
40°-50°	390.4	17.2
50°-60°	368.4	16.3
60°-70°	306.3	13.5
70°-80°	201.6	8.9
80°-90°	54.9	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°	573.9	25.3
0°-40°	943.4	41.7
0°-60°	1702.2	75.2
0°-90°	2265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	733	733	730	733	733	70
15°	704	706	706	713	713	199
25°	649	652	658	670	671	299
35°	570	576	590	605	610	357
45°	472	482	505	530	540	364
55°	357	373	412	451	466	318
65°	230	256	316	362	378	227
75°	100	145	210	249	255	107
85°	19	42	51	57	58	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	734.9	734.9	734.9	734.9	734.9
2.5°	735.8	734.9	731.0	734.9	734.9
5°	733.0	733.0	730.1	733.0	733.0
7.5°	728.2	728.2	726.3	730.1	730.1
10°	722.6	722.6	721.5	726.3	726.3
12.5°	714.0	715.0	714.0	719.7	719.7
15°	704.5	705.5	706.4	713.1	713.1
17.5°	692.2	694.1	696.0	703.6	704.5
20°	680.8	681.8	685.5	694.1	695.0
22.5°	665.6	668.5	673.2	681.8	684.6
25°	648.6	652.4	658.1	669.5	671.4
27.5°	632.4	635.4	642.9	655.2	659.0
30°	612.6	617.3	626.8	639.1	643.8
32.5°	593.6	598.3	609.7	623.0	626.8
35°	569.9	576.5	589.9	605.0	609.7
37.5°	547.2	553.7	569.9	586.9	592.7
40°	523.4	531.0	548.1	568.0	575.5
42.5°	497.8	508.2	527.2	549.0	557.6
45°	472.2	481.7	505.4	530.0	539.5
47.5°	444.7	456.0	481.7	511.0	522.4
50°	415.4	429.5	459.0	491.2	503.5
52.5°	385.9	402.0	435.2	471.3	484.5
55°	357.4	372.7	412.4	451.4	465.5
57.5°	326.2	345.1	388.7	430.5	444.7
60°	294.0	314.9	365.1	408.7	423.8
62.5°	261.7	285.4	342.3	385.9	402.0
65°	229.5	256.0	315.8	362.2	378.3
67.5°	198.2	227.6	291.1	337.6	353.7
70°	162.2	199.1	264.6	310.1	326.2
72.5°	129.0	171.7	239.0	281.7	295.9
75°	99.6	145.1	210.5	249.4	255.1
77.5°	73.1	118.6	181.1	194.4	195.4
80°	49.3	94.9	138.5	136.5	138.5
82.5°	32.2	71.1	87.2	97.7	98.6
85°	19.0	41.7	51.2	56.9	57.8
87.5°	9.5	14.2	18.1	19.0	20.9
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)