

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: P734333

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CP375-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734333
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: 24FCZ2-35HE-HRP-B2750-W2D-CP375-3500K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

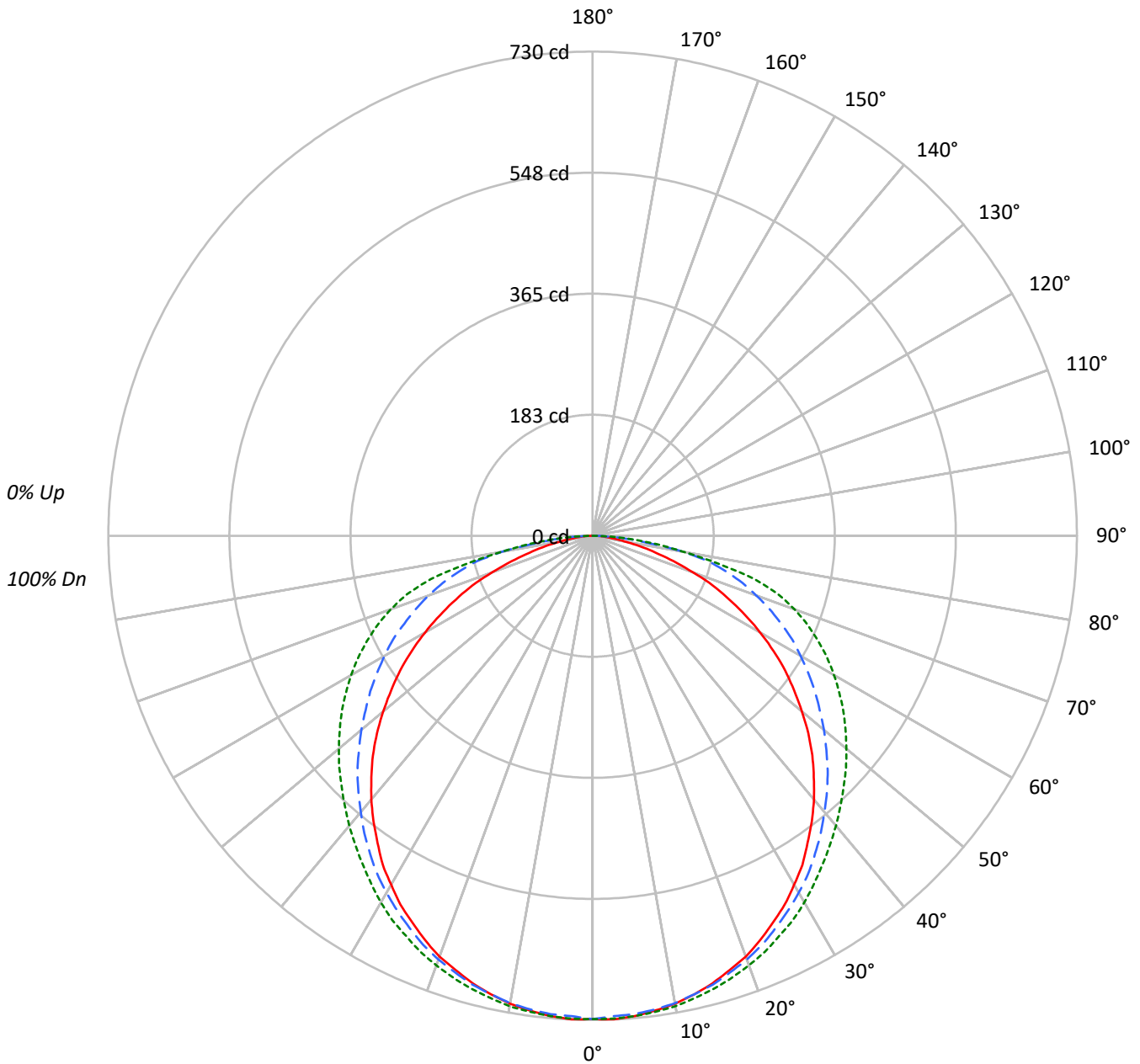
Lumens per Lamp: N/A
Luminaire Lumens: 2246.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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°	1028	1028	1028
5°	1030	1026	1030
10°	1027	1025	1032
15°	1021	1024	1033
20°	1014	1021	1035
25°	1002	1016	1037
30°	990	1013	1040
35°	974	1008	1042
40°	956	1001	1051
45°	935	1000	1068
50°	904	999	1096
55°	872	1006	1136
60°	823	1022	1186
65°	760	1046	1253
70°	664	1082	1335
75°	538	1138	1379
80°	397	1116	1116
85°	304	823	928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	3.1
10°-20°	198.2	8.8
20°-30°	301.8	13.4
30°-40°	366.4	16.3
40°-50°	387.1	17.2
50°-60°	365.3	16.3
60°-70°	303.7	13.5
70°-80°	199.8	8.9
80°-90°	54.5	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°	569.1	25.3
0°-40°	935.5	41.7
0°-60°	1687.9	75.2
0°-90°	2246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	729	729	729	729	729	
5°	727	727	724	727	727	69
15°	699	700	700	707	707	197
25°	643	647	653	664	666	297
35°	565	572	585	600	605	354
45°	468	478	501	526	535	361
55°	354	370	409	448	462	316
65°	228	254	313	359	375	225
75°	99	144	209	247	253	106
85°	19	41	51	56	57	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	728.7	728.7	728.7	728.7	728.7
2.5°	729.7	728.7	724.9	728.7	728.7
5°	726.9	726.9	724.0	726.9	726.9
7.5°	722.1	722.1	720.3	724.0	724.0
10°	716.5	716.5	715.5	720.3	720.3
12.5°	708.0	709.0	708.0	713.6	713.6
15°	698.6	699.6	700.5	707.1	707.1
17.5°	686.4	688.3	690.1	697.7	698.6
20°	675.1	676.1	679.8	688.3	689.2
22.5°	660.0	662.9	667.6	676.1	678.9
25°	643.2	646.9	652.6	663.9	665.7
27.5°	627.1	630.0	637.5	649.7	653.5
30°	607.5	612.1	621.5	633.7	638.4
32.5°	588.6	593.3	604.6	617.8	621.5
35°	565.1	571.6	584.9	599.9	604.6
37.5°	542.6	549.1	565.1	582.0	587.7
40°	519.0	526.5	543.5	563.3	570.7
42.5°	493.6	504.0	522.8	544.4	552.9
45°	468.3	477.7	501.2	525.6	535.0
47.5°	440.9	452.2	477.7	506.8	518.0
50°	411.9	425.9	455.1	487.1	499.3
52.5°	382.7	398.6	431.5	467.3	480.5
55°	354.4	369.5	409.0	447.6	461.6
57.5°	323.5	342.2	385.5	426.9	440.9
60°	291.5	312.2	362.0	405.2	420.2
62.5°	259.5	283.0	339.4	382.7	398.6
65°	227.6	253.8	313.1	359.2	375.1
67.5°	196.5	225.7	288.6	334.8	350.7
70°	160.8	197.4	262.3	307.5	323.5
72.5°	127.9	170.2	237.0	279.3	293.4
75°	98.7	143.8	208.7	247.3	252.9
77.5°	72.4	117.6	179.5	192.8	193.7
80°	48.8	94.1	137.3	135.4	137.3
82.5°	32.0	70.5	86.5	96.9	97.8
85°	18.8	41.4	50.8	56.4	57.3
87.5°	9.4	14.1	17.9	18.8	20.7
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)