

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: P734336

Luminaire Tested: **24FCZ2-35HE-RDP-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-35HE-RDP-B2750-W2D-CA08-2700K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

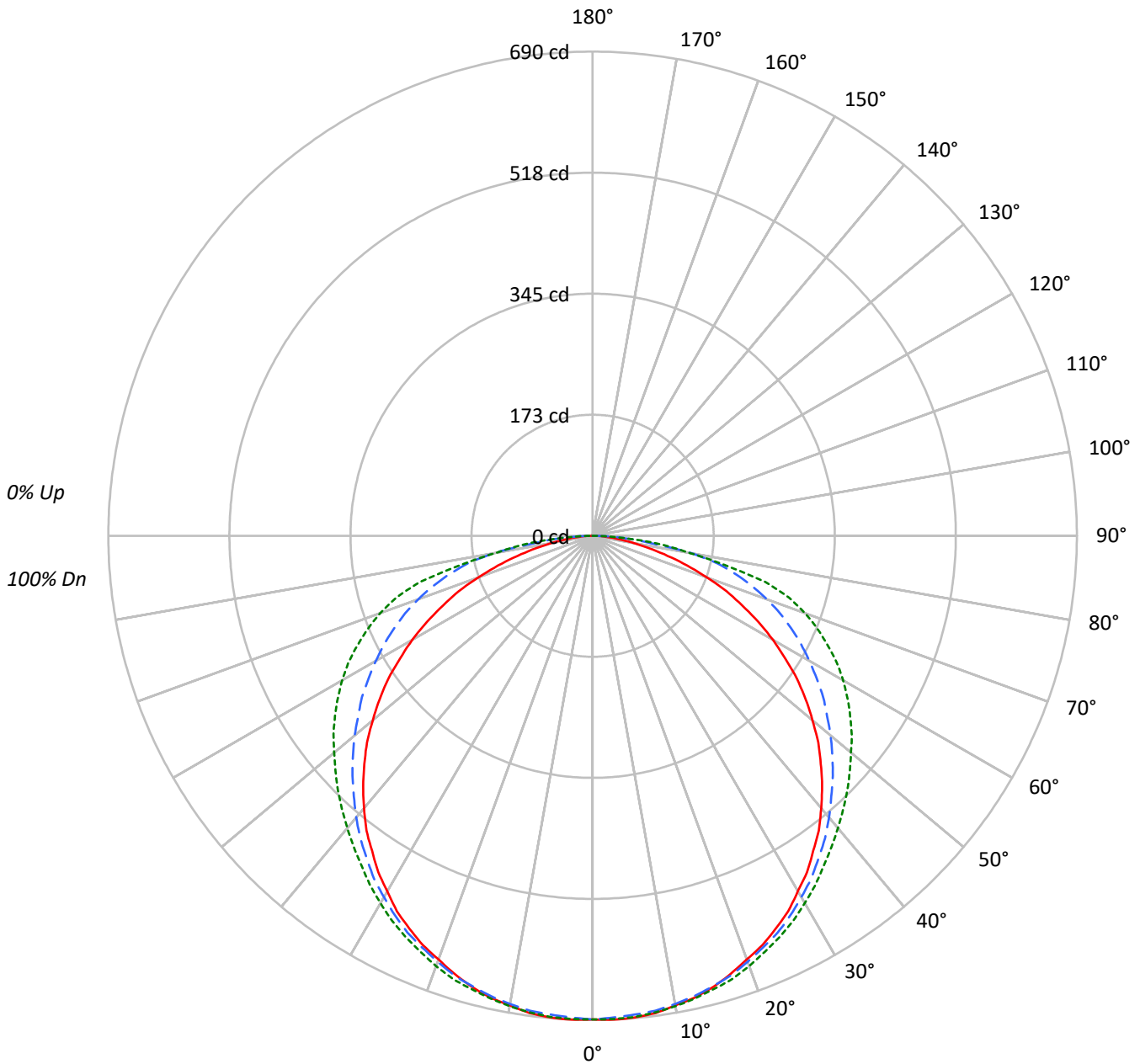
Lumens per Lamp: N/A
Luminaire Lumens: 2192.0 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									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	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	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	973	973	973
5°	977	970	975
10°	974	971	976
15°	972	971	977
20°	965	970	980
25°	962	972	982
30°	953	969	985
35°	944	967	989
40°	934	965	1002
45°	918	966	1024
50°	898	972	1055
55°	875	987	1102
60°	838	1007	1163
65°	784	1042	1235
70°	713	1090	1328
75°	605	1150	1388
80°	477	1157	1122
85°	353	881	985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	3.0
10°-20°	188.2	8.6
20°-30°	287.8	13.1
30°-40°	351.8	16.0
40°-50°	375.0	17.1
50°-60°	358.5	16.4
60°-70°	303.7	13.9
70°-80°	204.1	9.3
80°-90°	57.6	2.6
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°	541.4	24.7
0°-40°	893.2	40.7
0°-60°	1626.6	74.2
0°-90°	2192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	689	689	689	689	689	
5°	689	688	685	688	688	65
15°	666	666	664	670	669	188
25°	618	620	624	630	631	285
35°	548	552	561	572	574	343
45°	460	468	484	504	513	355
55°	356	368	401	433	448	317
65°	235	259	312	353	370	233
75°	111	151	211	247	254	119
85°	22	45	54	59	61	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	689.3	689.3	689.3	689.3	689.3
2.5°	690.4	690.4	687.1	689.3	689.3
5°	689.3	688.3	685.0	688.3	688.3
7.5°	686.1	685.0	682.8	686.1	685.0
10°	679.5	679.5	677.4	680.7	680.7
12.5°	674.1	673.1	671.9	676.2	675.2
15°	665.5	665.5	664.3	669.8	668.6
17.5°	654.6	655.6	656.7	661.0	662.2
20°	642.5	644.8	645.8	652.4	652.4
22.5°	631.6	632.8	634.9	641.5	641.5
25°	617.6	619.7	624.0	629.5	630.6
27.5°	603.5	604.5	610.0	617.6	618.7
30°	585.0	588.2	594.7	603.5	604.5
32.5°	568.6	571.9	579.5	588.2	590.3
35°	548.0	552.3	561.0	571.9	574.1
37.5°	529.5	532.8	543.7	555.6	558.9
40°	506.7	513.1	524.0	538.2	543.7
42.5°	483.9	490.3	503.4	521.9	528.5
45°	459.9	467.5	483.9	504.5	513.1
47.5°	436.0	444.7	463.2	487.0	496.9
50°	408.8	419.7	442.5	469.7	480.6
52.5°	382.7	395.8	420.8	451.2	465.4
55°	355.5	368.5	401.2	432.8	448.0
57.5°	325.1	342.4	378.4	414.3	430.5
60°	296.8	313.1	356.6	395.8	412.0
62.5°	266.4	288.2	334.8	376.1	392.5
65°	234.8	258.8	312.0	353.3	369.7
67.5°	206.6	232.7	289.2	330.5	346.9
70°	172.9	205.4	264.2	305.5	321.9
72.5°	141.3	177.2	238.1	278.3	293.5
75°	110.9	151.2	210.9	246.9	254.5
77.5°	82.6	125.1	182.6	197.8	192.5
80°	58.7	100.0	142.4	134.8	138.0
82.5°	38.0	76.2	88.1	100.0	103.3
85°	21.8	44.6	54.4	58.7	60.8
87.5°	9.8	16.3	21.8	21.8	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)