

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: P734340

Luminaire Tested: **24FCZ2-35HE-RDP-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734340
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-CA08-5000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

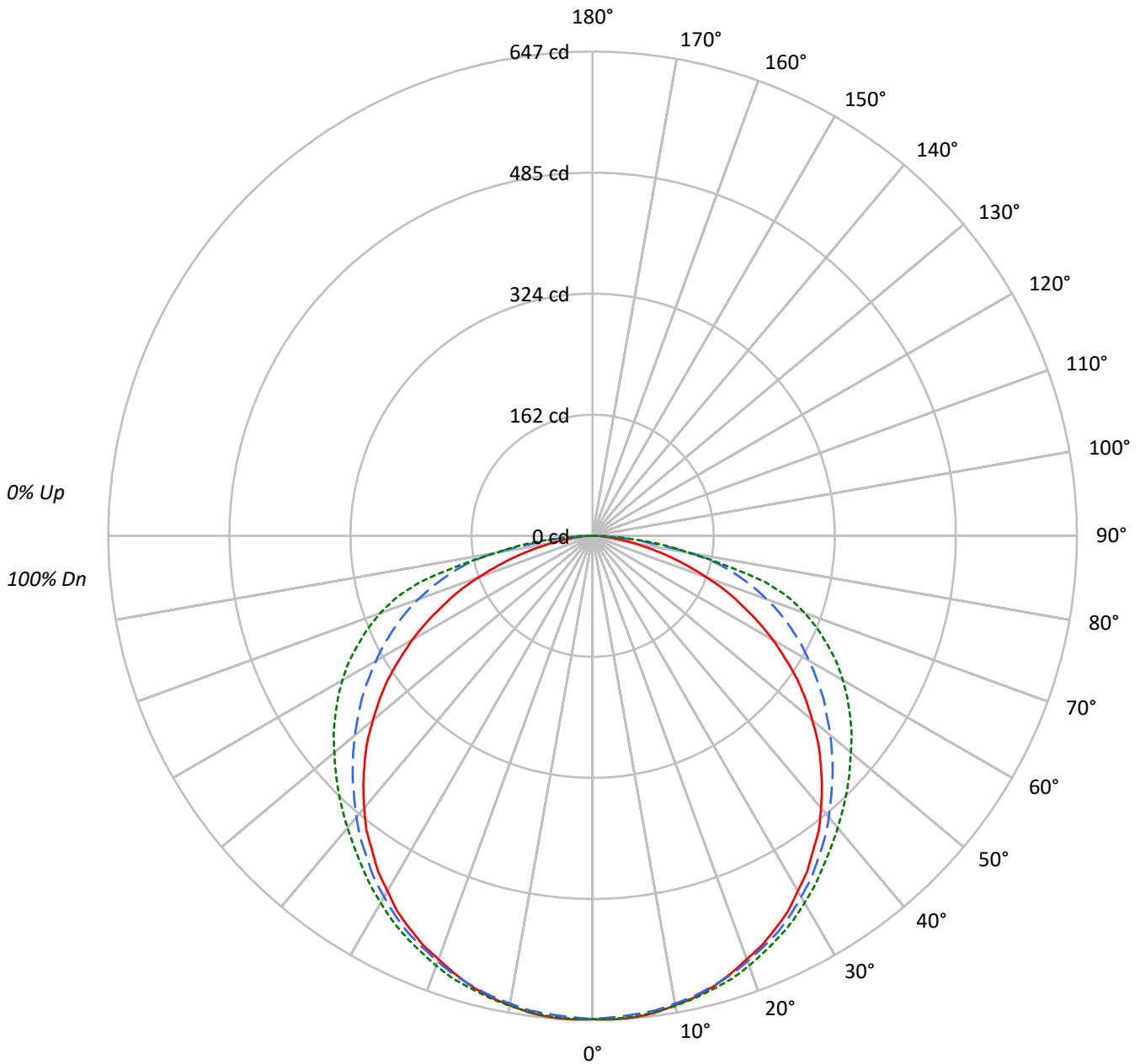
Lumens per Lamp: N/A
Luminaire Lumens: 2054.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P734340

CATALOG NUMBER: 24FCZ2-35HE-RDP-B2750-W2D-CA08-5000K

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	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	68	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°	912	912	912
5°	915	909	914
10°	912	910	914
15°	911	910	915
20°	904	909	918
25°	901	911	920
30°	893	908	923
35°	885	906	927
40°	875	905	939
45°	860	905	960
50°	841	910	989
55°	820	925	1033
60°	785	943	1090
65°	735	976	1157
70°	668	1021	1245
75°	567	1078	1300
80°	447	1084	1052
85°	330	826	923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	3.0
10°-20°	176.3	8.6
20°-30°	269.7	13.1
30°-40°	329.7	16.0
40°-50°	351.3	17.1
50°-60°	335.9	16.4
60°-70°	284.6	13.9
70°-80°	191.2	9.3
80°-90°	54.0	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°	507.3	24.7
0°-40°	836.9	40.7
0°-60°	1524.2	74.2
0°-90°	2054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	646	646	646	646	646	
5°	646	645	642	645	645	61
15°	624	624	622	628	626	176
25°	579	581	585	590	591	267
35°	514	518	526	536	538	322
45°	431	438	453	473	481	332
55°	333	345	376	406	420	297
65°	220	242	292	331	346	218
75°	104	142	198	231	238	111
85°	20	42	51	55	57	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	645.9	645.9	645.9	645.9	645.9
2.5°	646.9	646.9	643.8	645.9	645.9
5°	645.9	644.9	641.9	644.9	644.9
7.5°	642.9	641.9	639.8	642.9	641.9
10°	636.7	636.7	634.8	637.8	637.8
12.5°	631.7	630.7	629.6	633.6	632.7
15°	623.6	623.6	622.5	627.6	626.5
17.5°	613.4	614.4	615.3	619.4	620.5
20°	602.1	604.2	605.1	611.3	611.3
22.5°	591.9	593.0	594.9	601.1	601.1
25°	578.7	580.7	584.8	589.9	590.9
27.5°	565.5	566.4	571.6	578.7	579.7
30°	548.1	551.2	557.2	565.5	566.4
32.5°	532.8	535.9	543.0	551.2	553.2
35°	513.5	517.6	525.7	535.9	537.9
37.5°	496.2	499.3	509.4	520.6	523.7
40°	474.8	480.8	491.0	504.3	509.4
42.5°	453.4	459.4	471.7	489.1	495.2
45°	430.9	438.1	453.4	472.7	480.8
47.5°	408.6	416.7	434.0	456.4	465.6
50°	383.0	393.2	414.6	440.2	450.4
52.5°	358.6	370.9	394.3	422.8	436.1
55°	333.2	345.3	375.9	405.5	419.8
57.5°	304.7	320.9	354.5	388.2	403.4
60°	278.1	293.4	334.1	370.9	386.1
62.5°	249.6	270.0	313.8	352.4	367.8
65°	220.0	242.5	292.4	331.1	346.4
67.5°	193.6	218.1	271.0	309.7	325.1
70°	162.0	192.5	247.5	286.2	301.6
72.5°	132.4	166.1	223.1	260.8	275.1
75°	103.9	141.6	197.7	231.3	238.4
77.5°	77.4	117.2	171.1	185.4	180.3
80°	55.0	93.7	133.4	126.3	129.4
82.5°	35.6	71.4	82.6	93.7	96.8
85°	20.4	41.8	51.0	55.0	57.0
87.5°	9.2	15.2	20.4	20.4	19.4
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)