

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: P734344

Luminaire Tested: **24FCZ2-35HE-RDP-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734344
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-CA125-4000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

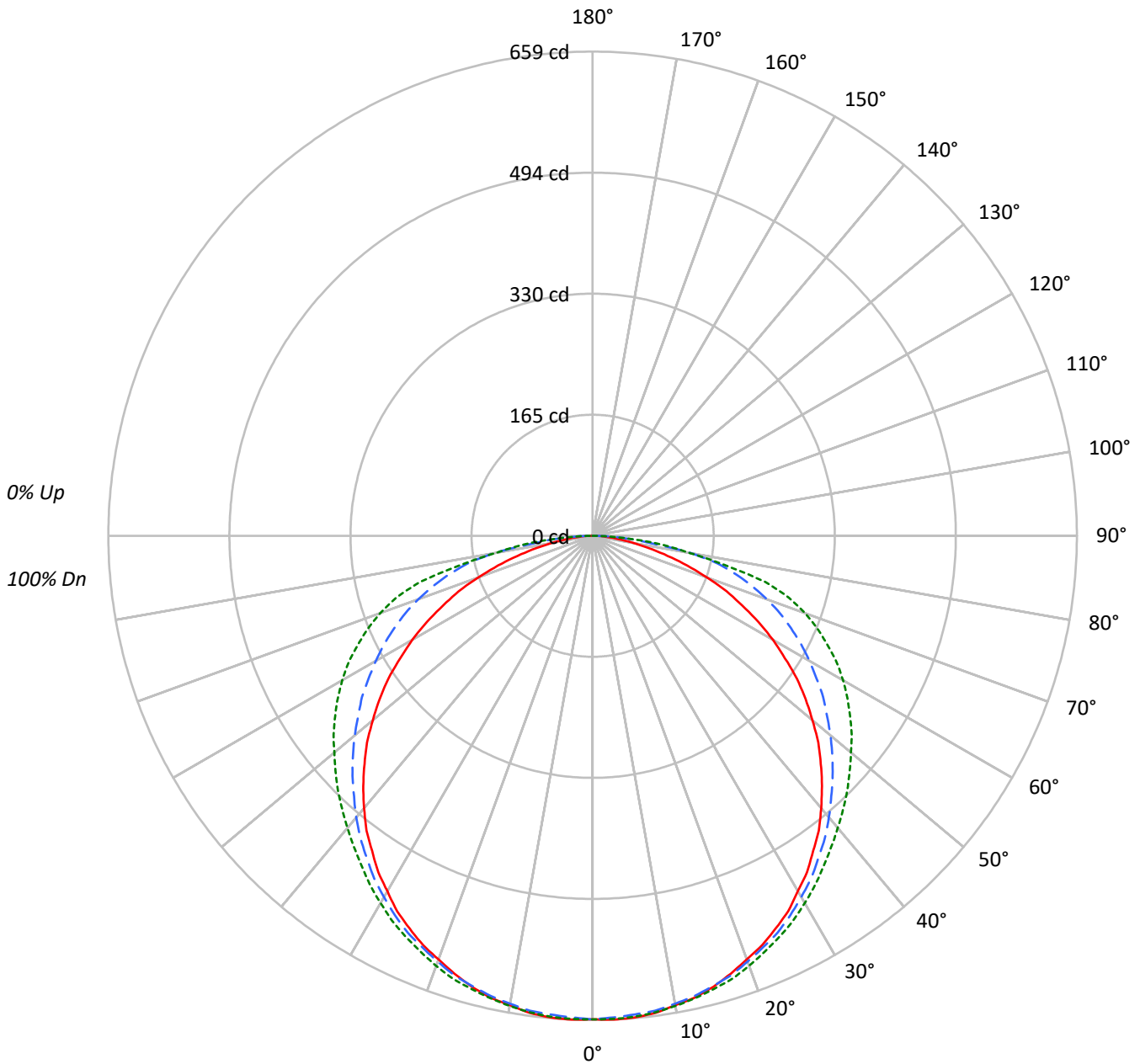
Lumens per Lamp: N/A
Luminaire Lumens: 2093.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	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°	929	929	929
5°	932	927	931
10°	930	927	931
15°	928	927	933
20°	921	926	936
25°	918	928	938
30°	910	925	941
35°	902	923	945
40°	891	922	956
45°	876	922	978
50°	857	928	1008
55°	835	943	1052
60°	800	961	1110
65°	749	995	1179
70°	681	1041	1268
75°	577	1098	1325
80°	456	1105	1071
85°	337	840	941



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	3.0
10°-20°	179.7	8.6
20°-30°	274.8	13.1
30°-40°	335.9	16.0
40°-50°	358.0	17.1
50°-60°	342.3	16.4
60°-70°	290.0	13.9
70°-80°	194.9	9.3
80°-90°	55.0	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°	516.9	24.7
0°-40°	852.8	40.7
0°-60°	1553.2	74.2
0°-90°	2093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	658	657	654	657	657	63
15°	635	635	634	640	638	179
25°	590	592	596	601	602	272
35°	523	527	536	546	548	328
45°	439	446	462	482	490	339
55°	340	352	383	413	428	302
65°	224	247	298	337	353	223
75°	106	144	201	236	243	113
85°	21	43	52	56	58	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	658.2	658.2	658.2	658.2	658.2
2.5°	659.2	659.2	656.1	658.2	658.2
5°	658.2	657.2	654.1	657.2	657.2
7.5°	655.1	654.1	651.9	655.1	654.1
10°	648.8	648.8	646.8	649.9	649.9
12.5°	643.7	642.7	641.5	645.7	644.7
15°	635.4	635.4	634.3	639.5	638.4
17.5°	625.0	626.0	627.0	631.2	632.3
20°	613.5	615.6	616.6	622.9	622.9
22.5°	603.1	604.2	606.2	612.5	612.5
25°	589.7	591.7	595.9	601.1	602.1
27.5°	576.2	577.2	582.5	589.7	590.7
30°	558.6	561.7	567.8	576.2	577.2
32.5°	542.9	546.0	553.3	561.7	563.7
35°	523.3	527.4	535.6	546.0	548.2
37.5°	505.6	508.7	519.1	530.5	533.6
40°	483.8	490.0	500.3	513.9	519.1
42.5°	462.0	468.2	480.7	498.3	504.6
45°	439.1	446.4	462.0	481.7	490.0
47.5°	416.3	424.6	442.3	465.0	474.4
50°	390.3	400.7	422.5	448.5	458.9
52.5°	365.4	377.9	401.8	430.9	444.4
55°	339.5	351.9	383.1	413.2	427.7
57.5°	310.4	327.0	361.3	395.6	411.1
60°	283.4	298.9	340.5	377.9	393.4
62.5°	254.4	275.1	319.7	359.1	374.8
65°	224.2	247.1	297.9	337.4	353.0
67.5°	197.3	222.2	276.1	315.6	331.2
70°	165.1	196.2	252.2	291.7	307.3
72.5°	134.9	169.2	227.3	265.8	280.3
75°	105.9	144.3	201.4	235.7	243.0
77.5°	78.9	119.4	174.4	188.9	183.8
80°	56.1	95.5	135.9	128.7	131.8
82.5°	36.3	72.7	84.1	95.5	98.6
85°	20.8	42.6	51.9	56.1	58.1
87.5°	9.4	15.5	20.8	20.8	19.8
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)