

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: P734338

Luminaire Tested: **24FCZ2-35HE-RDP-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734338
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-CA08-3500K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

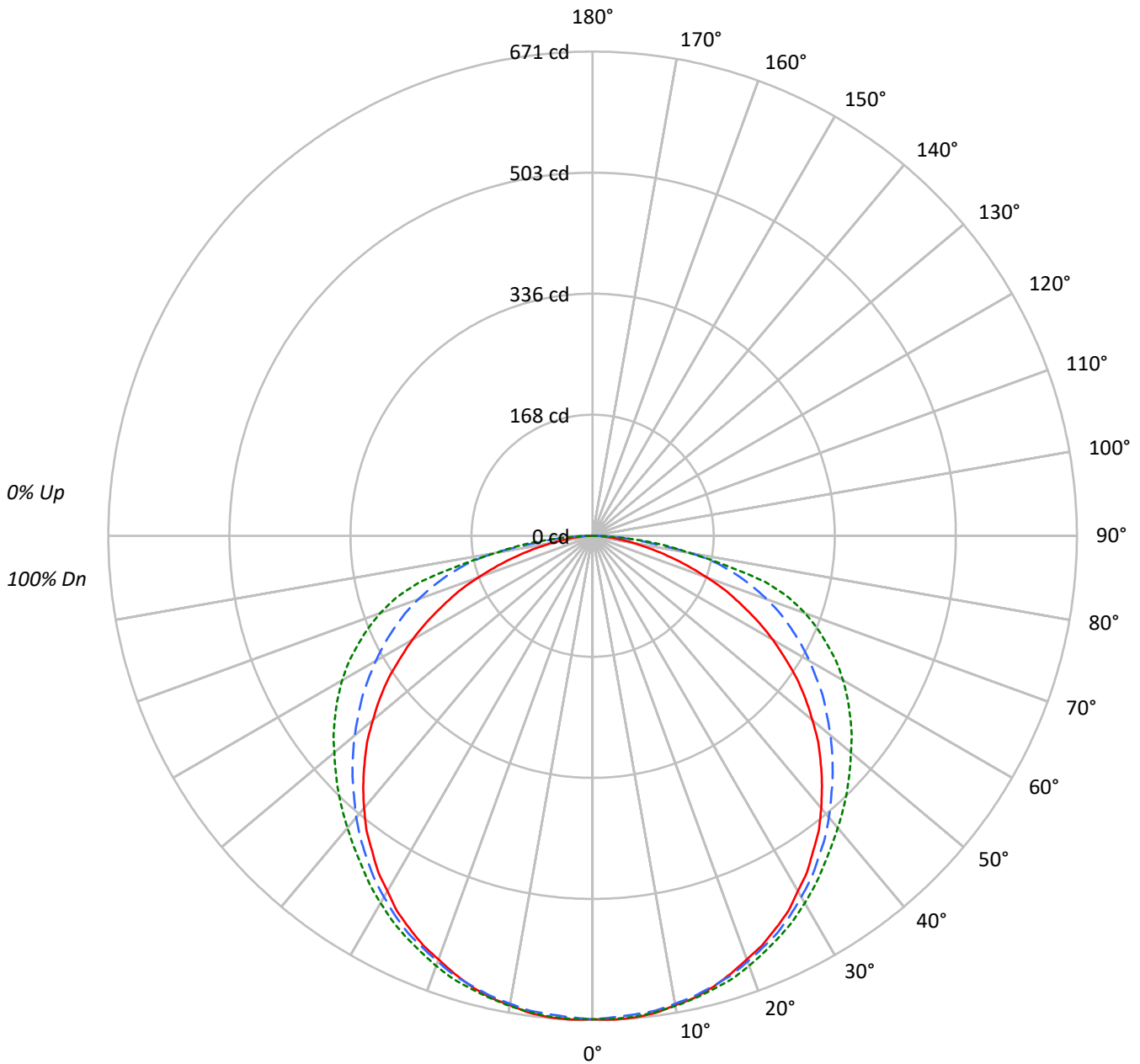
Lumens per Lamp: N/A
Luminaire Lumens: 2131.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P734338

CATALOG NUMBER: 24FCZ2-35HE-RDP-B2750-W2D-CA08-3500K

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°	946	946	946
5°	949	943	948
10°	947	944	948
15°	945	944	950
20°	938	943	953
25°	935	945	955
30°	927	942	958
35°	918	940	962
40°	908	939	974
45°	892	939	996
50°	873	945	1026
55°	851	960	1072
60°	815	979	1131
65°	762	1013	1200
70°	694	1060	1291
75°	588	1118	1349
80°	464	1125	1091
85°	343	857	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	3.0
10°-20°	183.0	8.6
20°-30°	279.8	13.1
30°-40°	342.0	16.0
40°-50°	364.5	17.1
50°-60°	348.5	16.4
60°-70°	295.2	13.9
70°-80°	198.4	9.3
80°-90°	56.0	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°	526.3	24.7
0°-40°	868.3	40.7
0°-60°	1581.4	74.2
0°-90°	2131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	670	669	666	669	669	64
15°	647	647	646	651	650	182
25°	600	602	607	612	613	277
35°	533	537	545	556	558	334
45°	447	454	470	490	499	345
55°	346	358	390	421	436	308
65°	228	252	303	344	359	227
75°	108	147	205	240	247	115
85°	21	43	53	57	59	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	670.1	670.1	670.1	670.1	670.1
2.5°	671.2	671.2	668.0	670.1	670.1
5°	670.1	669.1	665.9	669.1	669.1
7.5°	667.0	665.9	663.8	667.0	665.9
10°	660.6	660.6	658.5	661.7	661.7
12.5°	655.4	654.3	653.2	657.4	656.4
15°	646.9	646.9	645.8	651.2	650.0
17.5°	636.4	637.4	638.4	642.6	643.8
20°	624.6	626.8	627.8	634.2	634.2
22.5°	614.1	615.2	617.3	623.6	623.6
25°	600.4	602.5	606.7	612.0	613.0
27.5°	586.7	587.7	593.0	600.4	601.4
30°	568.7	571.9	578.1	586.7	587.7
32.5°	552.8	555.9	563.3	571.9	573.9
35°	532.8	537.0	545.4	555.9	558.1
37.5°	514.8	518.0	528.5	540.1	543.3
40°	492.6	498.8	509.4	523.2	528.5
42.5°	470.4	476.7	489.4	507.4	513.8
45°	447.1	454.5	470.4	490.4	498.8
47.5°	423.9	432.3	450.3	473.5	483.0
50°	397.4	408.0	430.2	456.7	467.2
52.5°	372.0	384.8	409.1	438.7	452.5
55°	345.7	358.3	390.0	420.7	435.5
57.5°	316.1	332.9	367.8	402.7	418.6
60°	288.6	304.4	346.7	384.8	400.6
62.5°	259.0	280.1	325.5	365.7	381.6
65°	228.3	251.6	303.3	343.5	359.4
67.5°	200.9	226.2	281.2	321.3	337.2
70°	168.1	199.7	256.8	297.0	312.9
72.5°	137.4	172.3	231.5	270.6	285.4
75°	107.8	147.0	205.1	240.0	247.4
77.5°	80.3	121.6	177.5	192.3	187.1
80°	57.1	97.2	138.4	131.0	134.2
82.5°	37.0	74.0	85.6	97.2	100.4
85°	21.2	43.3	52.9	57.1	59.1
87.5°	9.6	15.8	21.2	21.2	20.1
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)