

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: P734345

Luminaire Tested: **24FCZ2-35HE-RDP-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734345
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-CA125-5000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

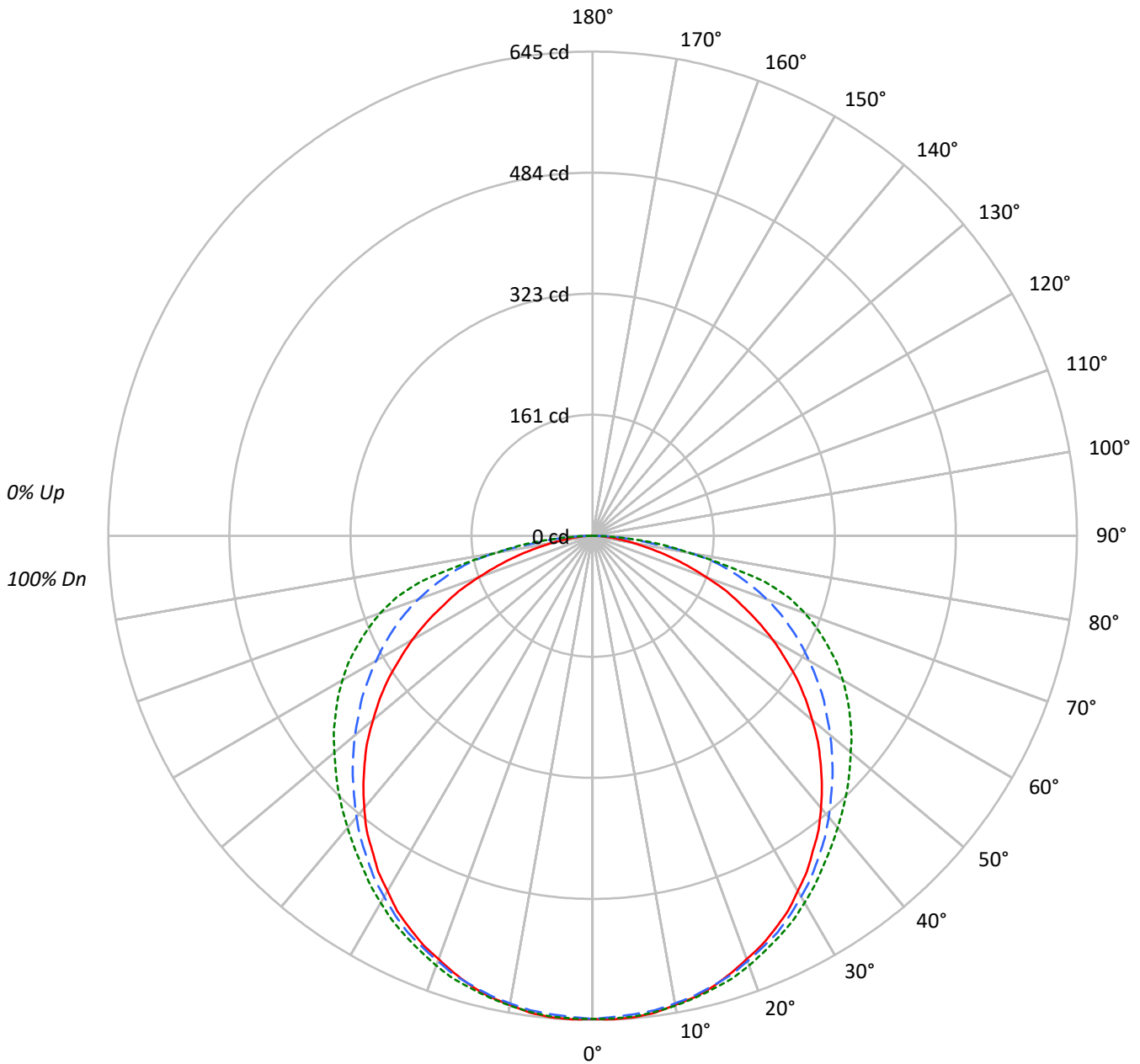
Lumens per Lamp: N/A
Luminaire Lumens: 2047.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	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°	908	908	908
5°	912	906	911
10°	909	907	911
15°	908	906	912
20°	901	906	915
25°	898	908	917
30°	890	905	920
35°	882	903	924
40°	872	901	935
45°	857	902	956
50°	838	907	985
55°	817	922	1029
60°	782	940	1086
65°	732	973	1153
70°	666	1018	1240
75°	565	1074	1296
80°	445	1081	1048
85°	329	823	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	3.0
10°-20°	175.7	8.6
20°-30°	268.7	13.1
30°-40°	328.5	16.0
40°-50°	350.2	17.1
50°-60°	334.8	16.4
60°-70°	283.6	13.9
70°-80°	190.6	9.3
80°-90°	53.8	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°	505.5	24.7
0°-40°	834.1	40.7
0°-60°	1519.0	74.2
0°-90°	2047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	644	644	644	644	644	
5°	644	643	640	643	643	61
15°	621	621	620	626	624	175
25°	577	579	583	588	589	266
35°	512	516	524	534	536	321
45°	430	437	452	471	479	331
55°	332	344	375	404	418	296
65°	219	242	291	330	345	218
75°	104	141	197	230	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°	643.7	643.7	643.7	643.7	643.7
2.5°	644.7	644.7	641.6	643.7	643.7
5°	643.7	642.7	639.7	642.7	642.7
7.5°	640.7	639.7	637.6	640.7	639.7
10°	634.5	634.5	632.6	635.6	635.6
12.5°	629.5	628.5	627.4	631.5	630.5
15°	621.4	621.4	620.3	625.5	624.4
17.5°	611.3	612.3	613.2	617.3	618.4
20°	600.0	602.1	603.1	609.2	609.2
22.5°	589.9	591.0	592.9	599.0	599.0
25°	576.8	578.7	582.8	587.9	588.9
27.5°	563.5	564.5	569.7	576.8	577.7
30°	546.3	549.3	555.3	563.5	564.5
32.5°	531.0	534.0	541.1	549.3	551.3
35°	511.8	515.8	523.9	534.0	536.1
37.5°	494.5	497.5	507.7	518.9	521.9
40°	473.2	479.2	489.3	502.6	507.7
42.5°	451.9	457.9	470.1	487.4	493.5
45°	429.5	436.6	451.9	471.1	479.2
47.5°	407.2	415.3	432.5	454.8	464.0
50°	381.7	391.9	413.2	438.7	448.8
52.5°	357.4	369.6	393.0	421.4	434.6
55°	332.0	344.1	374.6	404.1	418.3
57.5°	303.6	319.8	353.3	386.9	402.1
60°	277.2	292.4	333.0	369.6	384.8
62.5°	248.8	269.1	312.7	351.2	366.6
65°	219.3	241.7	291.4	329.9	345.2
67.5°	192.9	217.3	270.1	308.6	323.9
70°	161.5	191.8	246.7	285.3	300.6
72.5°	132.0	165.5	222.3	259.9	274.1
75°	103.6	141.2	197.0	230.5	237.6
77.5°	77.1	116.8	170.5	184.7	179.7
80°	54.8	93.4	133.0	125.9	128.9
82.5°	35.5	71.1	82.3	93.4	96.5
85°	20.3	41.6	50.8	54.8	56.8
87.5°	9.2	15.2	20.3	20.3	19.3
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)