

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: P734346

Luminaire Tested: **24FCZ2-35HE-RDP-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734346
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-CP187-2700K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

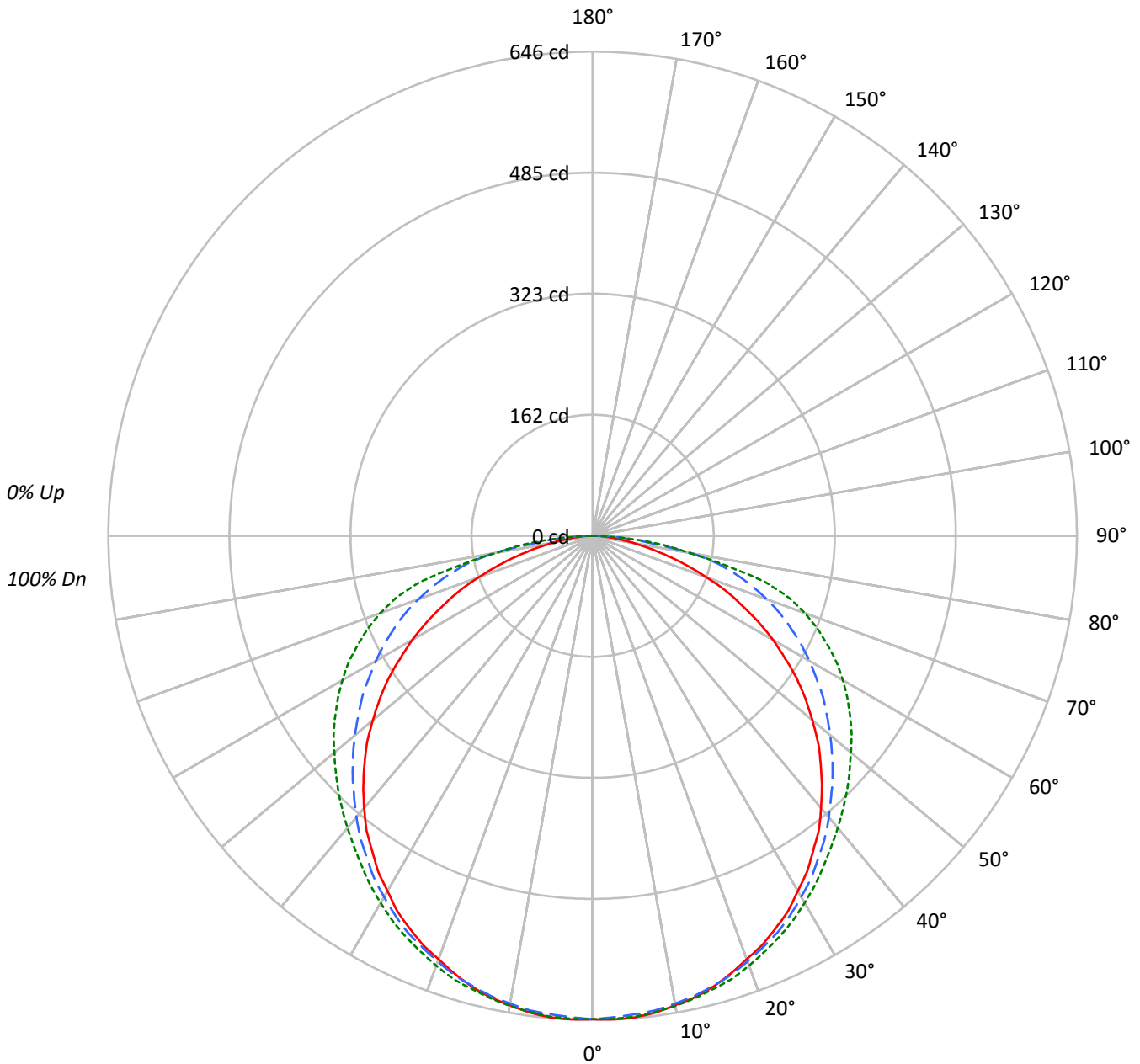
Lumens per Lamp: N/A
Luminaire Lumens: 2051.0 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
Input Voltage (V): NR
Input Current (Ain): 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°	910	910	910
5°	914	908	912
10°	911	908	913
15°	910	908	914
20°	903	908	917
25°	900	909	919
30°	892	907	922
35°	884	904	926
40°	873	903	937
45°	859	904	958
50°	840	909	987
55°	819	924	1031
60°	784	942	1088
65°	734	975	1155
70°	668	1020	1242
75°	566	1076	1298
80°	447	1083	1050
85°	330	824	921



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	3.0
10°-20°	176.1	8.6
20°-30°	269.3	13.1
30°-40°	329.2	16.0
40°-50°	350.8	17.1
50°-60°	335.4	16.4
60°-70°	284.1	13.9
70°-80°	191.0	9.3
80°-90°	53.9	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°	506.5	24.7
0°-40°	835.7	40.7
0°-60°	1522.0	74.2
0°-90°	2051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	645	645	645	645	645	
5°	645	644	641	644	644	61
15°	623	623	622	627	626	176
25°	578	580	584	589	590	266
35°	513	517	525	535	537	321
45°	430	437	453	472	480	332
55°	333	345	375	405	419	296
65°	220	242	292	331	346	218
75°	104	141	197	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°	645.0	645.0	645.0	645.0	645.0
2.5°	646.0	646.0	642.9	645.0	645.0
5°	645.0	644.0	640.9	644.0	644.0
7.5°	641.9	640.9	638.9	641.9	640.9
10°	635.8	635.8	633.8	636.9	636.9
12.5°	630.8	629.8	628.7	632.7	631.7
15°	622.7	622.7	621.6	626.7	625.6
17.5°	612.5	613.5	614.4	618.5	619.6
20°	601.2	603.3	604.3	610.4	610.4
22.5°	591.0	592.1	594.1	600.2	600.2
25°	577.9	579.9	583.9	589.1	590.0
27.5°	564.6	565.6	570.8	577.9	578.9
30°	547.3	550.4	556.4	564.6	565.6
32.5°	532.0	535.1	542.2	550.4	552.4
35°	512.8	516.8	524.9	535.1	537.2
37.5°	495.5	498.5	508.7	519.9	522.9
40°	474.1	480.1	490.3	503.6	508.7
42.5°	452.8	458.8	471.0	488.3	494.5
45°	430.3	437.4	452.8	472.0	480.1
47.5°	408.0	416.1	433.4	455.7	464.9
50°	382.5	392.7	414.0	439.5	449.7
52.5°	358.1	370.3	393.8	422.2	435.5
55°	332.7	344.8	375.4	404.9	419.2
57.5°	304.2	320.4	354.0	387.6	402.8
60°	277.7	292.9	333.7	370.3	385.5
62.5°	249.3	269.6	313.3	351.9	367.3
65°	219.7	242.1	291.9	330.6	345.9
67.5°	193.3	217.7	270.6	309.2	324.6
70°	161.8	192.2	247.2	285.8	301.1
72.5°	132.2	165.8	222.8	260.4	274.7
75°	103.8	141.4	197.4	231.0	238.1
77.5°	77.3	117.0	170.9	185.1	180.1
80°	55.0	93.6	133.2	126.1	129.2
82.5°	35.6	71.3	82.4	93.6	96.7
85°	20.4	41.7	50.9	55.0	56.9
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)