

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: P732476

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-RDP-B2750-W2D-CP250-2700K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

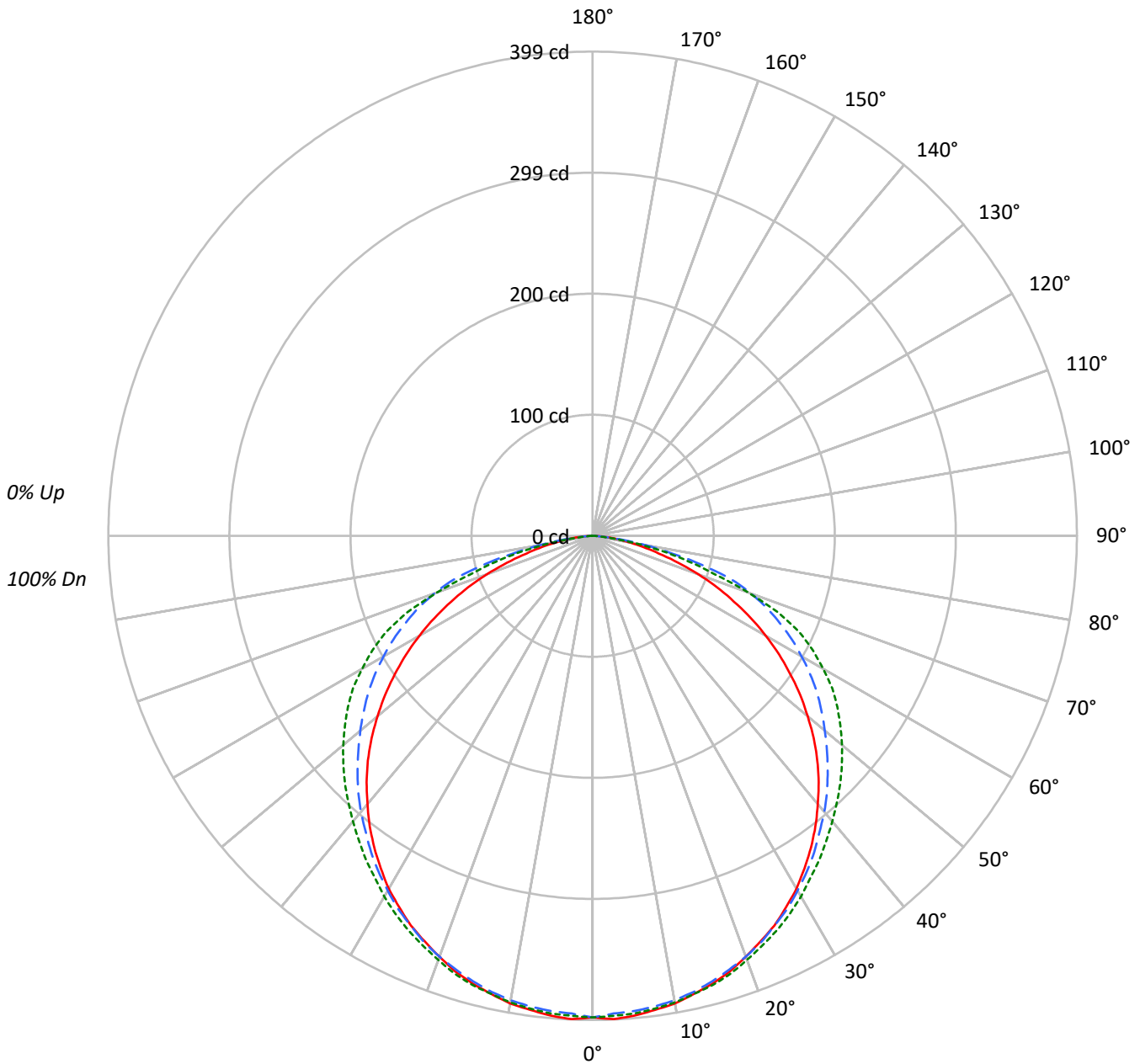
Lumens per Lamp: N/A
Luminaire Lumens: 1185.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1120	1120	1120
5°	1125	1114	1120
10°	1122	1114	1119
15°	1116	1111	1120
20°	1109	1109	1117
25°	1104	1104	1118
30°	1095	1101	1119
35°	1081	1097	1122
40°	1063	1094	1132
45°	1045	1093	1152
50°	1016	1097	1178
55°	979	1111	1211
60°	930	1123	1238
65°	859	1137	1254
70°	763	1146	1122
75°	616	1028	898
80°	481	723	587
85°	330	211	149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	3.2
10°-20°	107.8	9.1
20°-30°	164.1	13.8
30°-40°	199.9	16.9
40°-50°	212.1	17.9
50°-60°	200.1	16.9
60°-70°	161.6	13.6
70°-80°	87.7	7.4
80°-90°	14.2	1.2
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°	309.5	26.1
0°-40°	509.4	43.0
0°-60°	921.6	77.8
0°-90°	1185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	397	397	397	397	397	
5°	397	396	393	396	395	38
15°	382	381	380	383	383	108
25°	354	354	354	358	359	163
35°	314	316	318	325	326	196
45°	262	266	274	284	289	202
55°	199	207	226	240	246	178
65°	129	144	170	184	188	127
75°	56	82	94	85	82	62
85°	10	11	6	6	5	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	396.9	396.9	396.9	396.9	396.9
2.5°	398.7	396.9	394.1	396.9	396.0
5°	396.9	396.0	393.1	396.0	395.1
7.5°	394.1	394.1	391.3	393.1	393.1
10°	391.3	390.4	388.6	391.3	390.4
12.5°	386.7	385.8	384.9	387.6	386.7
15°	382.0	381.1	380.2	383.1	383.1
17.5°	376.5	375.6	374.7	378.4	378.4
20°	369.1	369.1	369.1	372.9	371.9
22.5°	361.7	361.7	362.6	366.4	365.5
25°	354.4	353.5	354.4	358.0	358.9
27.5°	345.1	346.0	346.9	350.6	351.5
30°	335.9	336.8	337.7	342.3	343.3
32.5°	324.8	326.6	328.4	334.0	334.0
35°	313.7	315.5	318.3	324.8	325.7
37.5°	301.6	303.5	307.2	314.6	316.4
40°	288.6	291.4	297.0	304.4	307.2
42.5°	275.7	279.4	285.9	294.2	297.9
45°	261.8	265.5	273.9	284.1	288.6
47.5°	247.0	251.6	261.8	274.8	278.5
50°	231.3	237.8	249.8	263.6	268.3
52.5°	215.6	222.9	237.8	252.5	257.2
55°	198.9	207.2	225.8	240.5	246.1
57.5°	182.2	191.5	212.7	228.5	234.1
60°	164.7	175.8	198.9	214.7	219.3
62.5°	147.1	160.0	185.1	200.7	204.5
65°	128.6	144.4	170.2	184.2	187.8
67.5°	111.0	129.5	155.5	165.6	165.6
70°	92.5	112.8	138.8	141.5	136.0
72.5°	74.0	97.2	120.3	110.1	105.5
75°	56.5	82.3	94.3	85.2	82.3
77.5°	42.5	66.6	66.6	61.0	59.2
80°	29.6	50.9	44.5	38.9	36.1
82.5°	19.4	28.7	23.1	18.5	15.8
85°	10.2	11.1	6.5	5.6	4.6
87.5°	3.7	1.8	0.9	1.8	0.9
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)