

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: P732468

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732468
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-CA125-3500K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

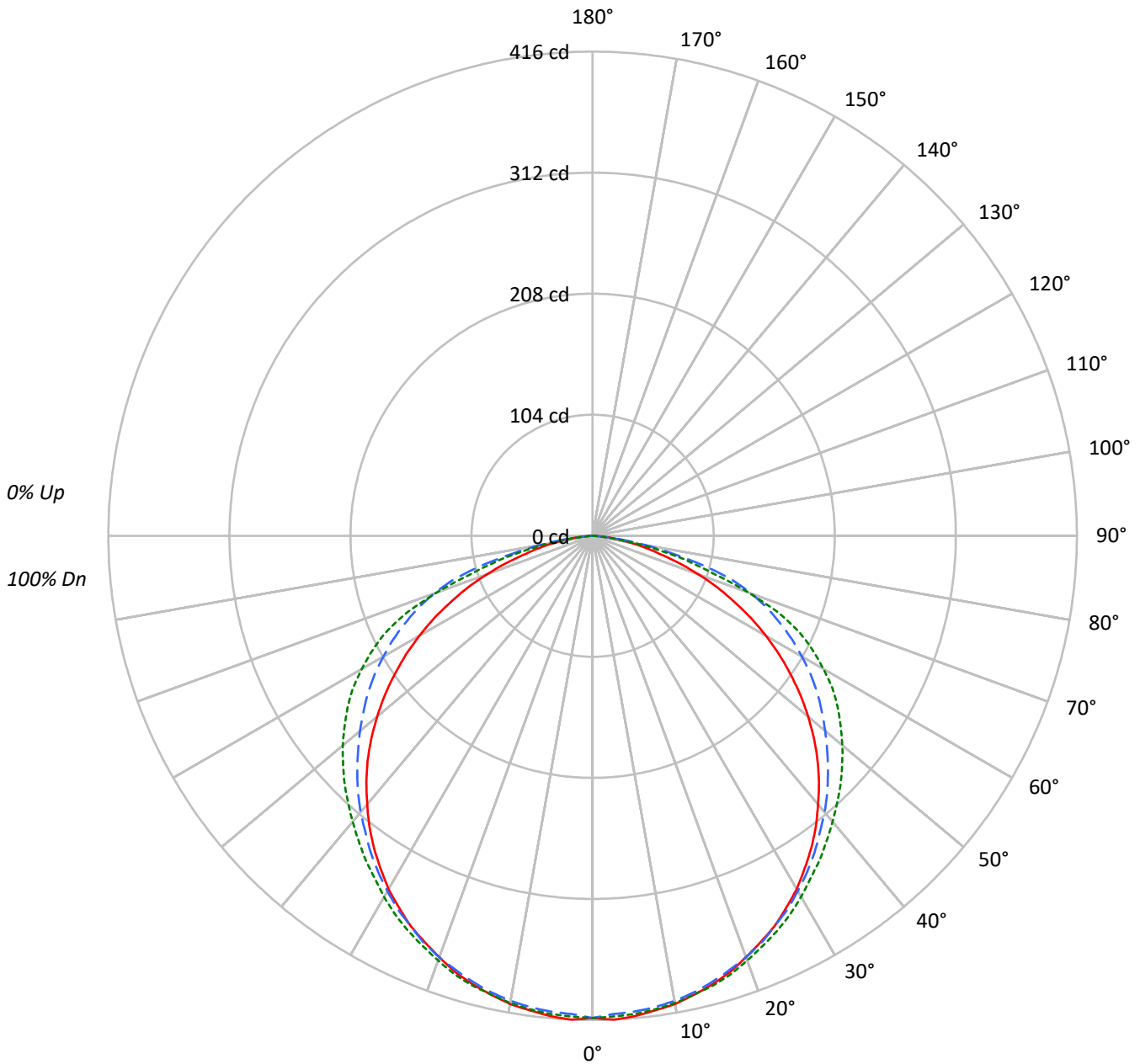
Lumens per Lamp: N/A
Luminaire Lumens: 1237.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1169	1169	1169
5°	1174	1163	1169
10°	1171	1163	1168
15°	1165	1160	1169
20°	1157	1157	1166
25°	1152	1152	1167
30°	1143	1149	1168
35°	1128	1145	1172
40°	1110	1142	1182
45°	1091	1141	1203
50°	1061	1145	1230
55°	1022	1160	1264
60°	970	1172	1292
65°	896	1187	1309
70°	797	1196	1171
75°	642	1074	937
80°	502	754	611
85°	347	217	159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	3.2
10°-20°	112.5	9.1
20°-30°	171.3	13.8
30°-40°	208.7	16.9
40°-50°	221.4	17.9
50°-60°	208.9	16.9
60°-70°	168.7	13.6
70°-80°	91.5	7.4
80°-90°	14.8	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°	323.0	26.1
0°-40°	531.7	43.0
0°-60°	962.0	77.8
0°-90°	1237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	414	414	414	414	414	
5°	414	413	410	413	412	39
15°	399	398	397	400	400	113
25°	370	369	370	374	375	170
35°	327	329	332	339	340	205
45°	273	277	286	296	301	210
55°	208	216	236	251	257	185
65°	134	151	178	192	196	133
75°	59	86	98	89	86	64
85°	11	12	7	6	5	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	414.3	414.3	414.3	414.3	414.3
2.5°	416.2	414.3	411.3	414.3	413.4
5°	414.3	413.4	410.4	413.4	412.4
7.5°	411.3	411.3	408.5	410.4	410.4
10°	408.5	407.6	405.7	408.5	407.6
12.5°	403.7	402.7	401.8	404.6	403.7
15°	398.8	397.9	396.9	399.9	399.9
17.5°	393.0	392.1	391.1	395.0	395.0
20°	385.3	385.3	385.3	389.2	388.3
22.5°	377.6	377.6	378.6	382.5	381.5
25°	369.9	369.0	369.9	373.7	374.7
27.5°	360.2	361.2	362.1	366.0	367.0
30°	350.6	351.6	352.5	357.4	358.3
32.5°	339.0	340.9	342.8	348.6	348.6
35°	327.4	329.3	332.3	339.0	340.0
37.5°	314.9	316.8	320.7	328.4	330.3
40°	301.3	304.2	310.0	317.7	320.7
42.5°	287.8	291.7	298.4	307.1	311.0
45°	273.3	277.1	285.9	296.5	301.3
47.5°	257.8	262.7	273.3	286.8	290.7
50°	241.5	248.2	260.8	275.2	280.1
52.5°	225.0	232.7	248.2	263.6	268.5
55°	207.6	216.3	235.7	251.1	256.9
57.5°	190.2	199.9	222.1	238.5	244.3
60°	171.9	183.5	207.6	224.1	228.9
62.5°	153.5	167.0	193.2	209.5	213.4
65°	134.2	150.7	177.7	192.2	196.0
67.5°	115.9	135.2	162.3	172.8	172.8
70°	96.6	117.8	144.9	147.7	141.9
72.5°	77.3	101.4	125.6	114.9	110.1
75°	58.9	85.9	98.5	88.9	85.9
77.5°	44.4	69.5	69.5	63.7	61.8
80°	30.9	53.1	46.4	40.6	37.6
82.5°	20.2	29.9	24.1	19.3	16.5
85°	10.7	11.6	6.7	5.8	4.9
87.5°	3.9	1.9	0.9	1.9	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)