

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: P732467

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732467
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-CA125-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

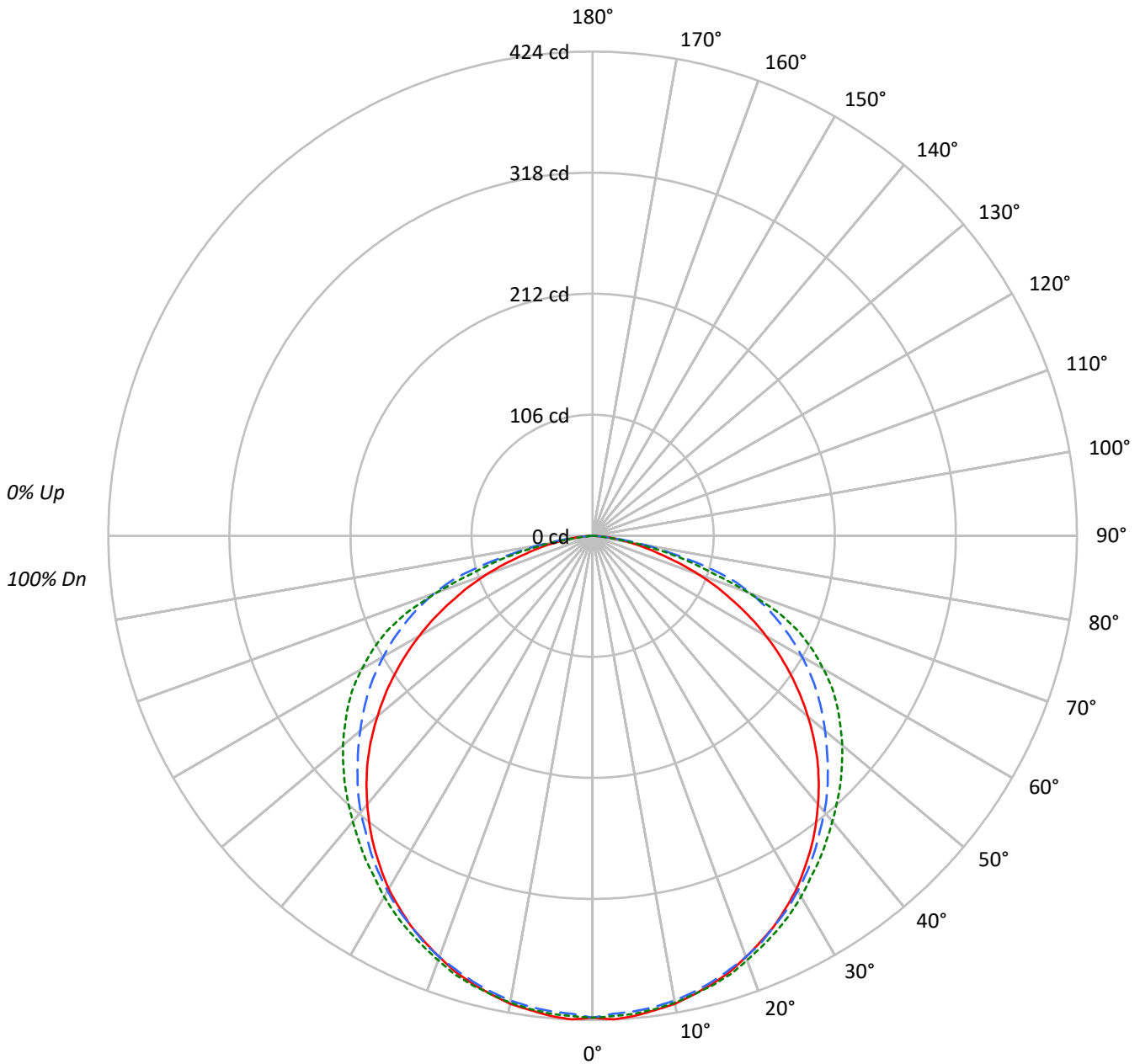
Lumens per Lamp: N/A
Luminaire Lumens: 1260.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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°	1191	1191	1191
5°	1196	1184	1190
10°	1193	1184	1190
15°	1187	1181	1190
20°	1179	1179	1188
25°	1174	1174	1188
30°	1164	1170	1190
35°	1149	1166	1193
40°	1131	1164	1203
45°	1111	1162	1225
50°	1080	1166	1253
55°	1041	1182	1287
60°	989	1194	1316
65°	913	1209	1334
70°	812	1218	1193
75°	654	1094	954
80°	512	769	623
85°	353	223	159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	3.2
10°-20°	114.6	9.1
20°-30°	174.5	13.8
30°-40°	212.6	16.9
40°-50°	225.5	17.9
50°-60°	212.8	16.9
60°-70°	171.8	13.6
70°-80°	93.2	7.4
80°-90°	15.1	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°	329.0	26.1
0°-40°	541.6	43.0
0°-60°	979.9	77.8
0°-90°	1260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1260.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	422	422	422	422	422	
5°	422	421	418	421	420	40
15°	406	405	404	407	407	115
25°	377	376	377	381	382	173
35°	334	335	338	345	346	209
45°	278	282	291	302	307	214
55°	212	220	240	256	262	189
65°	137	154	181	196	200	135
75°	60	88	100	91	88	66
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°	422.0	422.0	422.0	422.0	422.0
2.5°	423.9	422.0	419.0	422.0	421.0
5°	422.0	421.0	418.0	421.0	420.1
7.5°	419.0	419.0	416.1	418.0	418.0
10°	416.1	415.1	413.2	416.1	415.1
12.5°	411.2	410.2	409.2	412.1	411.2
15°	406.2	405.3	404.3	407.3	407.3
17.5°	400.3	399.3	398.4	402.4	402.4
20°	392.5	392.5	392.5	396.4	395.5
22.5°	384.6	384.6	385.6	389.6	388.6
25°	376.8	375.8	376.8	380.7	381.6
27.5°	366.9	367.9	368.8	372.8	373.8
30°	357.1	358.1	359.1	364.0	365.0
32.5°	345.3	347.3	349.2	355.1	355.1
35°	333.5	335.4	338.5	345.3	346.3
37.5°	320.7	322.7	326.6	334.5	336.4
40°	306.9	309.9	315.8	323.6	326.6
42.5°	293.1	297.1	304.0	312.8	316.7
45°	278.4	282.3	291.2	302.0	306.9
47.5°	262.6	267.6	278.4	292.2	296.1
50°	246.0	252.8	265.6	280.3	285.3
52.5°	229.2	237.0	252.8	268.5	273.5
55°	211.5	220.3	240.1	255.7	261.6
57.5°	193.8	203.6	226.2	243.0	248.9
60°	175.1	186.9	211.5	228.2	233.2
62.5°	156.4	170.1	196.8	213.4	217.4
65°	136.7	153.5	181.0	195.8	199.7
67.5°	118.0	137.7	165.3	176.0	176.0
70°	98.4	120.0	147.6	150.5	144.6
72.5°	78.7	103.3	127.9	117.1	112.1
75°	60.0	87.5	100.3	90.6	87.5
77.5°	45.2	70.8	70.8	64.9	62.9
80°	31.5	54.1	47.3	41.4	38.3
82.5°	20.6	30.5	24.6	19.7	16.8
85°	10.9	11.8	6.9	5.9	4.9
87.5°	4.0	1.9	1.0	1.9	1.0
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)