

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: P732466

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732466
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-CA125-2700K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

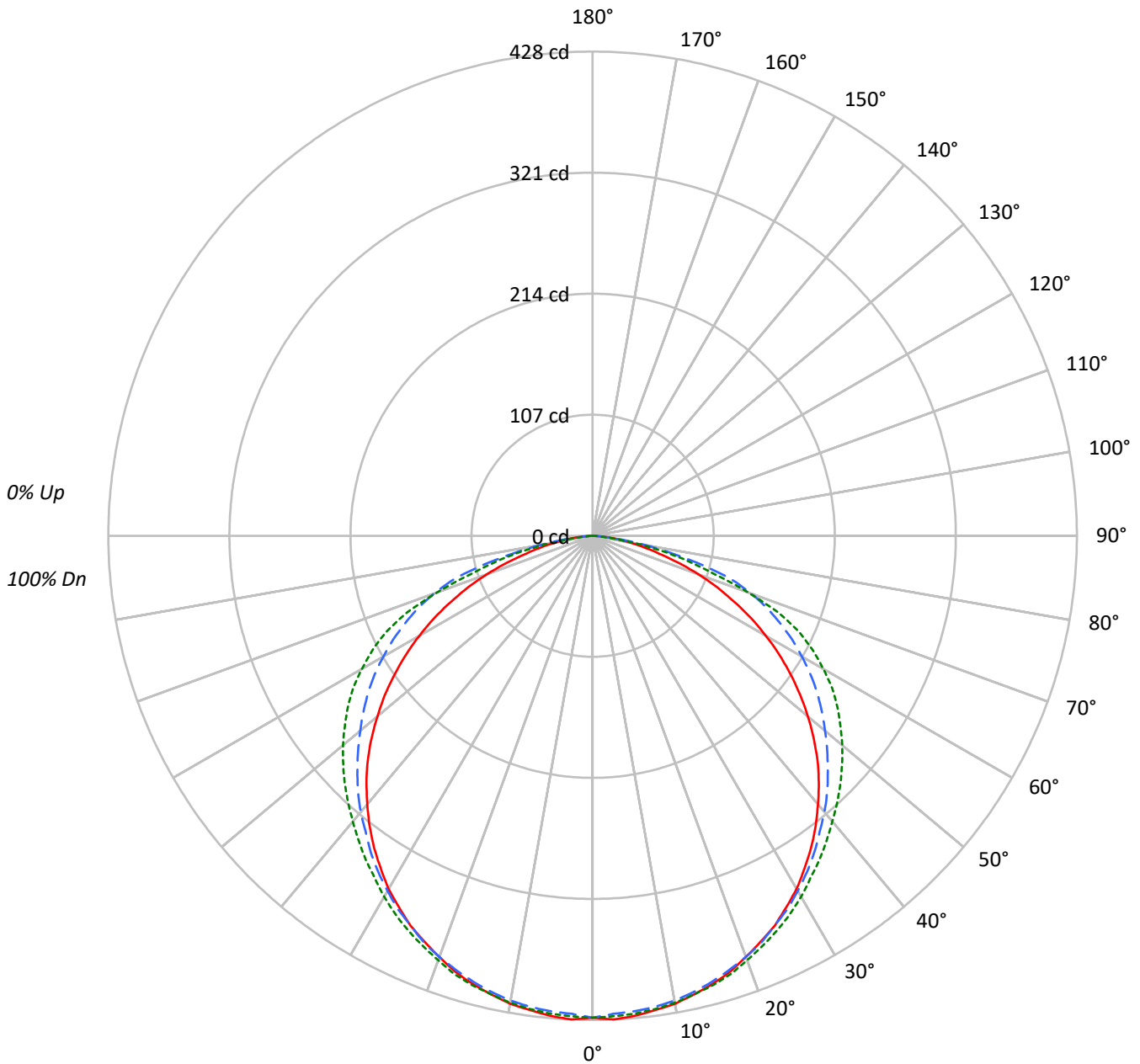
Lumens per Lamp: N/A
Luminaire Lumens: 1272.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1202	1202	1202
5°	1207	1196	1202
10°	1204	1196	1201
15°	1198	1193	1202
20°	1190	1190	1199
25°	1185	1185	1200
30°	1175	1182	1201
35°	1160	1177	1205
40°	1142	1175	1215
45°	1122	1174	1237
50°	1090	1178	1265
55°	1051	1192	1300
60°	998	1205	1329
65°	922	1220	1346
70°	820	1230	1204
75°	661	1105	964
80°	517	775	629
85°	356	223	162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	3.2
10°-20°	115.7	9.1
20°-30°	176.2	13.8
30°-40°	214.6	16.9
40°-50°	227.6	17.9
50°-60°	214.8	16.9
60°-70°	173.5	13.6
70°-80°	94.1	7.4
80°-90°	15.2	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°	332.2	26.1
0°-40°	546.7	43.0
0°-60°	989.2	77.8
0°-90°	1272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	426	426	426	426	426	
5°	426	425	422	425	424	40
15°	410	409	408	411	411	116
25°	380	379	380	384	385	175
35°	337	339	342	349	350	210
45°	281	285	294	305	310	216
55°	214	222	242	258	264	191
65°	138	155	183	198	202	137
75°	61	88	101	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°	426.0	426.0	426.0	426.0	426.0
2.5°	428.0	426.0	423.0	426.0	425.1
5°	426.0	425.1	422.0	425.1	424.1
7.5°	423.0	423.0	420.1	422.0	422.0
10°	420.1	419.1	417.1	420.1	419.1
12.5°	415.1	414.1	413.1	416.0	415.1
15°	410.1	409.1	408.1	411.2	411.2
17.5°	404.1	403.1	402.2	406.2	406.2
20°	396.2	396.2	396.2	400.2	399.3
22.5°	388.3	388.3	389.3	393.3	392.3
25°	380.4	379.4	380.4	384.3	385.3
27.5°	370.4	371.4	372.3	376.4	377.3
30°	360.5	361.5	362.5	367.5	368.5
32.5°	348.6	350.6	352.5	358.5	358.5
35°	336.7	338.6	341.7	348.6	349.6
37.5°	323.8	325.7	329.7	337.7	339.6
40°	309.8	312.8	318.8	326.7	329.7
42.5°	295.9	299.9	306.9	315.7	319.8
45°	281.1	285.0	294.0	304.9	309.8
47.5°	265.1	270.1	281.1	294.9	299.0
50°	248.3	255.3	268.2	283.0	288.0
52.5°	231.4	239.3	255.3	271.1	276.1
55°	213.5	222.4	242.3	258.2	264.1
57.5°	195.6	205.6	228.4	245.3	251.2
60°	176.7	188.7	213.5	230.4	235.4
62.5°	157.9	171.8	198.7	215.4	219.5
65°	138.0	155.0	182.7	197.7	201.6
67.5°	119.2	139.0	166.9	177.7	177.7
70°	99.3	121.1	149.0	151.9	145.9
72.5°	79.5	104.3	129.1	118.2	113.2
75°	60.6	88.4	101.3	91.4	88.4
77.5°	45.6	71.5	71.5	65.5	63.5
80°	31.8	54.7	47.7	41.8	38.7
82.5°	20.8	30.8	24.8	19.8	16.9
85°	11.0	11.9	6.9	6.0	5.0
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)