

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: P732465

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732465
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-CA08-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

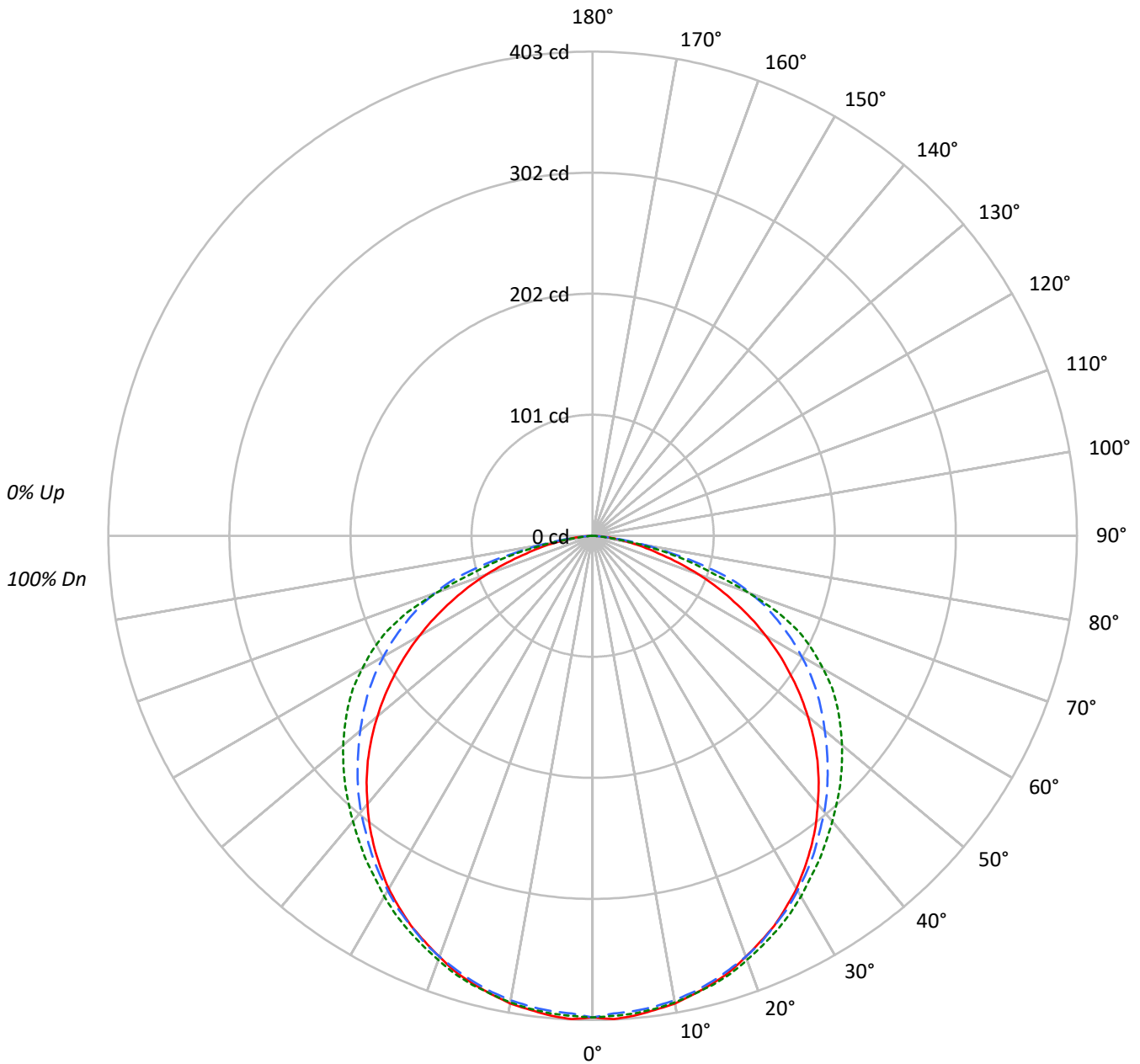
Lumens per Lamp: N/A
Luminaire Lumens: 1197.0 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1132	1132	1132
5°	1136	1125	1131
10°	1133	1125	1130
15°	1128	1122	1131
20°	1120	1120	1129
25°	1115	1115	1129
30°	1106	1112	1130
35°	1092	1108	1134
40°	1074	1105	1143
45°	1056	1104	1164
50°	1026	1108	1190
55°	989	1123	1223
60°	939	1134	1250
65°	868	1148	1267
70°	772	1157	1133
75°	622	1039	907
80°	486	730	592
85°	334	211	152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	3.2
10°-20°	108.9	9.1
20°-30°	165.8	13.8
30°-40°	201.9	16.9
40°-50°	214.2	17.9
50°-60°	202.2	16.9
60°-70°	163.2	13.6
70°-80°	88.5	7.4
80°-90°	14.3	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°	312.6	26.1
0°-40°	514.5	43.0
0°-60°	930.9	77.8
0°-90°	1197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	401	401	401	401	401	
5°	401	400	397	400	399	38
15°	386	385	384	387	387	109
25°	358	357	358	362	362	165
35°	317	319	322	328	329	198
45°	264	268	277	287	292	204
55°	201	209	228	243	249	179
65°	130	146	172	186	190	129
75°	57	83	95	86	83	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°	400.9	400.9	400.9	400.9	400.9
2.5°	402.7	400.9	398.0	400.9	400.0
5°	400.9	400.0	397.1	400.0	399.1
7.5°	398.0	398.0	395.3	397.1	397.1
10°	395.3	394.4	392.5	395.3	394.4
12.5°	390.6	389.7	388.8	391.5	390.6
15°	385.9	385.0	384.1	386.9	386.9
17.5°	380.3	379.4	378.5	382.2	382.2
20°	372.8	372.8	372.8	376.6	375.7
22.5°	365.4	365.4	366.3	370.1	369.2
25°	358.0	357.0	358.0	361.6	362.5
27.5°	348.6	349.5	350.4	354.2	355.1
30°	339.3	340.2	341.1	345.8	346.7
32.5°	328.1	329.9	331.7	337.3	337.3
35°	316.8	318.7	321.5	328.1	329.0
37.5°	304.7	306.5	310.3	317.7	319.6
40°	291.5	294.4	300.0	307.4	310.3
42.5°	278.5	282.2	288.8	297.1	300.9
45°	264.5	268.2	276.6	286.9	291.5
47.5°	249.5	254.2	264.5	277.5	281.3
50°	233.7	240.2	252.3	266.3	271.0
52.5°	217.8	225.2	240.2	255.1	259.8
55°	200.9	209.3	228.1	243.0	248.6
57.5°	184.1	193.5	214.9	230.8	236.4
60°	166.3	177.5	200.9	216.8	221.5
62.5°	148.6	161.6	186.9	202.7	206.5
65°	129.9	145.8	171.9	186.0	189.7
67.5°	112.1	130.8	157.0	167.2	167.2
70°	93.5	114.0	140.2	143.0	137.3
72.5°	74.8	98.2	121.5	111.2	106.5
75°	57.0	83.2	95.3	86.0	83.2
77.5°	43.0	67.2	67.2	61.6	59.8
80°	29.9	51.4	44.9	39.3	36.4
82.5°	19.6	29.0	23.4	18.7	15.9
85°	10.3	11.2	6.5	5.6	4.7
87.5°	3.8	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)