

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: P732469

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732469
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-CA125-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

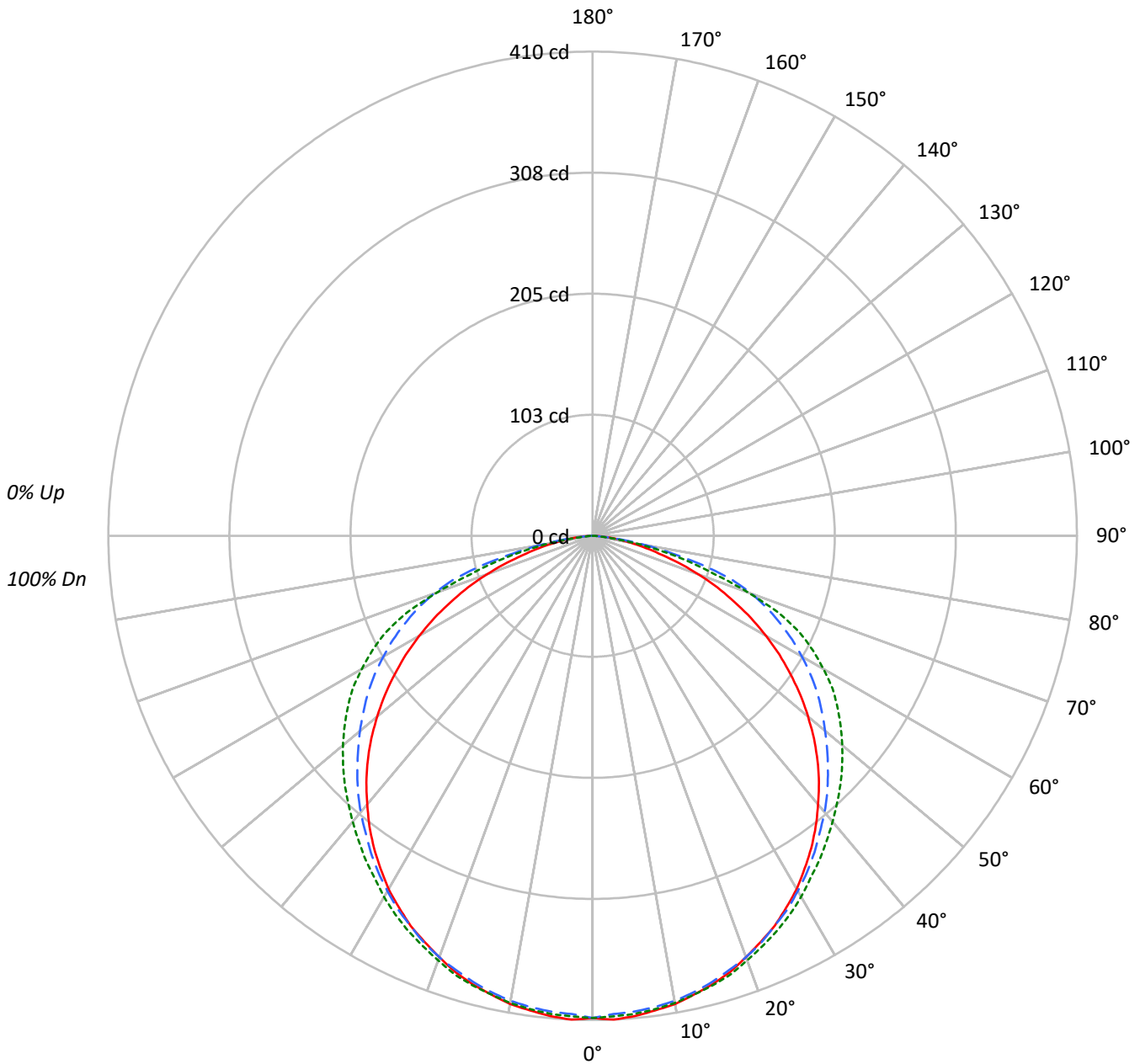
Lumens per Lamp: N/A
Luminaire Lumens: 1219.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1152	1152	1152
5°	1157	1146	1152
10°	1154	1146	1151
15°	1148	1143	1151
20°	1141	1141	1149
25°	1135	1135	1150
30°	1126	1132	1151
35°	1112	1128	1154
40°	1094	1126	1164
45°	1075	1125	1185
50°	1045	1129	1212
55°	1007	1143	1246
60°	956	1155	1274
65°	884	1169	1290
70°	786	1179	1155
75°	634	1059	924
80°	494	743	603
85°	340	214	155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	3.2
10°-20°	110.9	9.1
20°-30°	168.8	13.8
30°-40°	205.6	16.9
40°-50°	218.1	17.9
50°-60°	205.9	16.9
60°-70°	166.2	13.6
70°-80°	90.2	7.4
80°-90°	14.6	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°	318.3	26.1
0°-40°	524.0	43.0
0°-60°	948.0	77.8
0°-90°	1219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1219.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	408	408	408	408	408	
5°	408	407	404	407	406	39
15°	393	392	391	394	394	111
25°	364	364	364	368	369	168
35°	323	324	327	334	335	202
45°	269	273	282	292	297	207
55°	205	213	232	247	253	183
65°	132	148	175	189	193	131
75°	58	85	97	88	85	63
85°	10	11	7	6	5	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	408.3	408.3	408.3	408.3	408.3
2.5°	410.1	408.3	405.4	408.3	407.3
5°	408.3	407.3	404.4	407.3	406.4
7.5°	405.4	405.4	402.6	404.4	404.4
10°	402.6	401.6	399.8	402.6	401.6
12.5°	397.8	396.8	395.9	398.7	397.8
15°	393.0	392.1	391.1	394.0	394.0
17.5°	387.3	386.3	385.4	389.3	389.3
20°	379.7	379.7	379.7	383.5	382.6
22.5°	372.1	372.1	373.0	376.9	376.0
25°	364.5	363.6	364.5	368.3	369.2
27.5°	355.0	355.9	356.8	360.7	361.6
30°	345.5	346.5	347.4	352.2	353.1
32.5°	334.1	336.0	337.8	343.5	343.5
35°	322.7	324.5	327.4	334.1	335.0
37.5°	310.3	312.2	316.0	323.6	325.5
40°	296.9	299.8	305.5	313.1	316.0
42.5°	283.6	287.4	294.1	302.6	306.4
45°	269.3	273.1	281.7	292.2	296.9
47.5°	254.1	258.8	269.3	282.6	286.5
50°	238.0	244.6	257.0	271.2	276.0
52.5°	221.8	229.3	244.6	259.8	264.6
55°	204.6	213.1	232.3	247.4	253.1
57.5°	187.5	197.0	218.8	235.1	240.8
60°	169.4	180.8	204.6	220.8	225.6
62.5°	151.3	164.6	190.4	206.5	210.3
65°	132.3	148.5	175.1	189.4	193.2
67.5°	114.2	133.2	159.9	170.3	170.3
70°	95.2	116.1	142.8	145.6	139.9
72.5°	76.2	100.0	123.8	113.3	108.5
75°	58.1	84.7	97.1	87.6	84.7
77.5°	43.7	68.5	68.5	62.8	60.9
80°	30.4	52.4	45.7	40.0	37.1
82.5°	19.9	29.5	23.8	19.0	16.2
85°	10.5	11.4	6.6	5.7	4.8
87.5°	3.8	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)