

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: P732463

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732463
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-CA08-3500K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

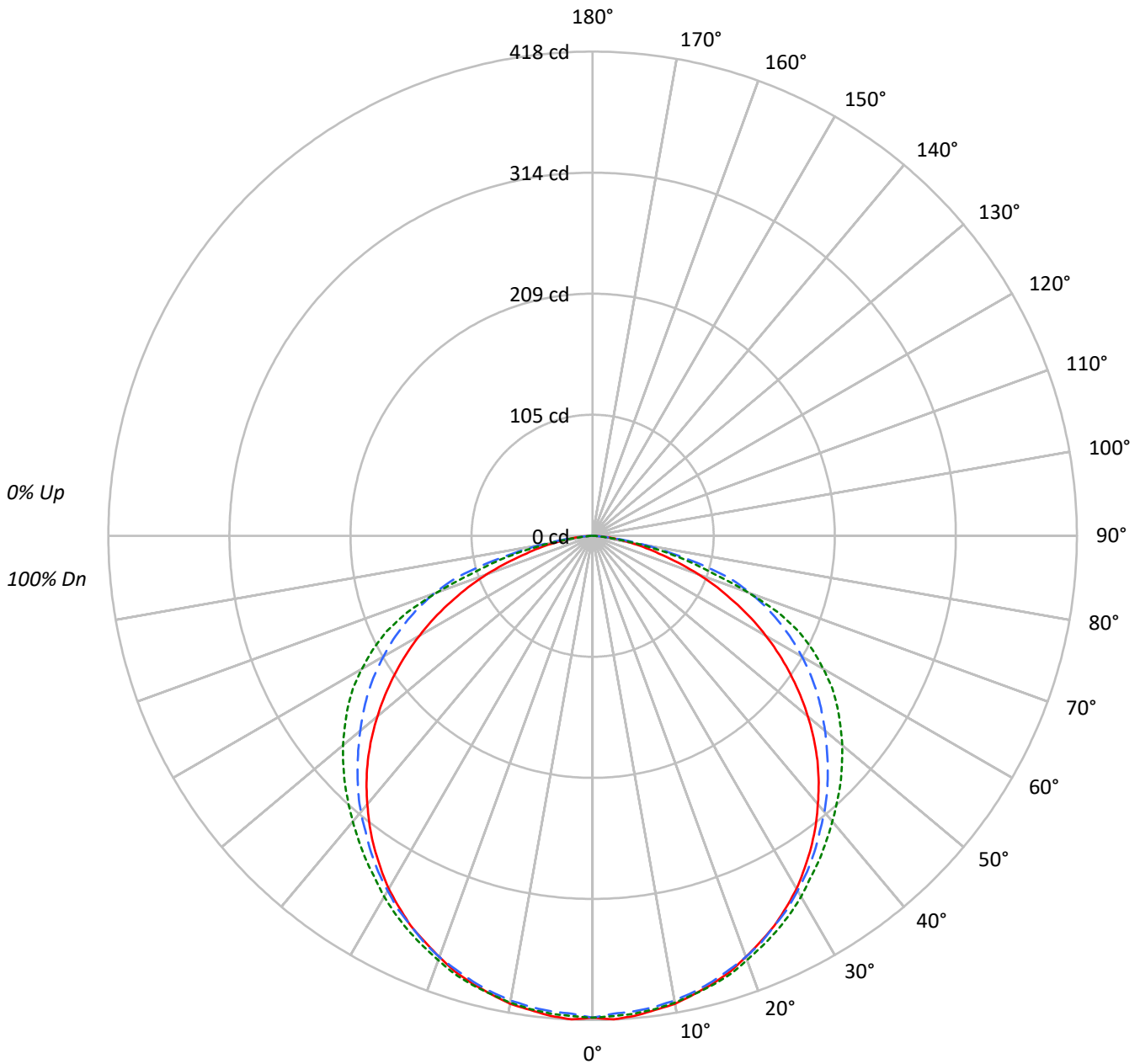
Lumens per Lamp: N/A
Luminaire Lumens: 1242.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1174	1174	1174
5°	1179	1168	1173
10°	1176	1167	1173
15°	1170	1165	1173
20°	1162	1162	1171
25°	1157	1157	1172
30°	1147	1153	1173
35°	1133	1150	1176
40°	1115	1147	1186
45°	1095	1146	1208
50°	1065	1150	1235
55°	1026	1164	1269
60°	974	1177	1298
65°	900	1192	1314
70°	801	1201	1176
75°	646	1079	941
80°	504	757	614
85°	347	220	159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	3.2
10°-20°	113.0	9.1
20°-30°	172.0	13.8
30°-40°	209.5	16.9
40°-50°	222.3	17.9
50°-60°	209.8	16.9
60°-70°	169.4	13.6
70°-80°	91.9	7.4
80°-90°	14.9	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°	324.3	26.1
0°-40°	533.8	43.0
0°-60°	965.9	77.8
0°-90°	1242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1242.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	416	415	412	415	414	40
15°	400	400	398	402	402	113
25°	371	370	371	375	376	171
35°	329	331	334	340	341	206
45°	274	278	287	298	302	211
55°	208	217	237	252	258	186
65°	135	151	178	193	197	134
75°	59	86	99	89	86	65
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°	416.0	416.0	416.0	416.0	416.0
2.5°	417.9	416.0	413.0	416.0	415.0
5°	416.0	415.0	412.1	415.0	414.1
7.5°	413.0	413.0	410.2	412.1	412.1
10°	410.2	409.2	407.3	410.2	409.2
12.5°	405.3	404.3	403.4	406.2	405.3
15°	400.4	399.5	398.5	401.5	401.5
17.5°	394.6	393.6	392.7	396.6	396.6
20°	386.9	386.9	386.9	390.8	389.8
22.5°	379.1	379.1	380.1	384.0	383.1
25°	371.4	370.5	371.4	375.2	376.2
27.5°	361.7	362.6	363.6	367.5	368.4
30°	352.0	353.0	353.9	358.8	359.8
32.5°	340.4	342.3	344.2	350.0	350.0
35°	328.7	330.6	333.6	340.4	341.3
37.5°	316.1	318.0	322.0	329.7	331.6
40°	302.5	305.4	311.3	319.0	322.0
42.5°	288.9	292.9	299.6	308.3	312.2
45°	274.4	278.2	287.0	297.7	302.5
47.5°	258.9	263.7	274.4	288.0	291.9
50°	242.5	249.2	261.8	276.3	281.2
52.5°	225.9	233.7	249.2	264.7	269.6
55°	208.5	217.1	236.6	252.1	257.9
57.5°	191.0	200.7	223.0	239.5	245.3
60°	172.6	184.2	208.5	225.0	229.9
62.5°	154.2	167.7	194.0	210.4	214.3
65°	134.8	151.3	178.4	193.0	196.8
67.5°	116.4	135.7	162.9	173.5	173.5
70°	97.0	118.3	145.5	148.3	142.5
72.5°	77.6	101.9	126.1	115.4	110.5
75°	59.2	86.3	98.9	89.3	86.3
77.5°	44.6	69.8	69.8	63.9	62.0
80°	31.0	53.4	46.6	40.8	37.8
82.5°	20.3	30.1	24.2	19.4	16.5
85°	10.7	11.6	6.8	5.8	4.9
87.5°	3.9	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)