

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: P732461

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732461
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-CA08-2700K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

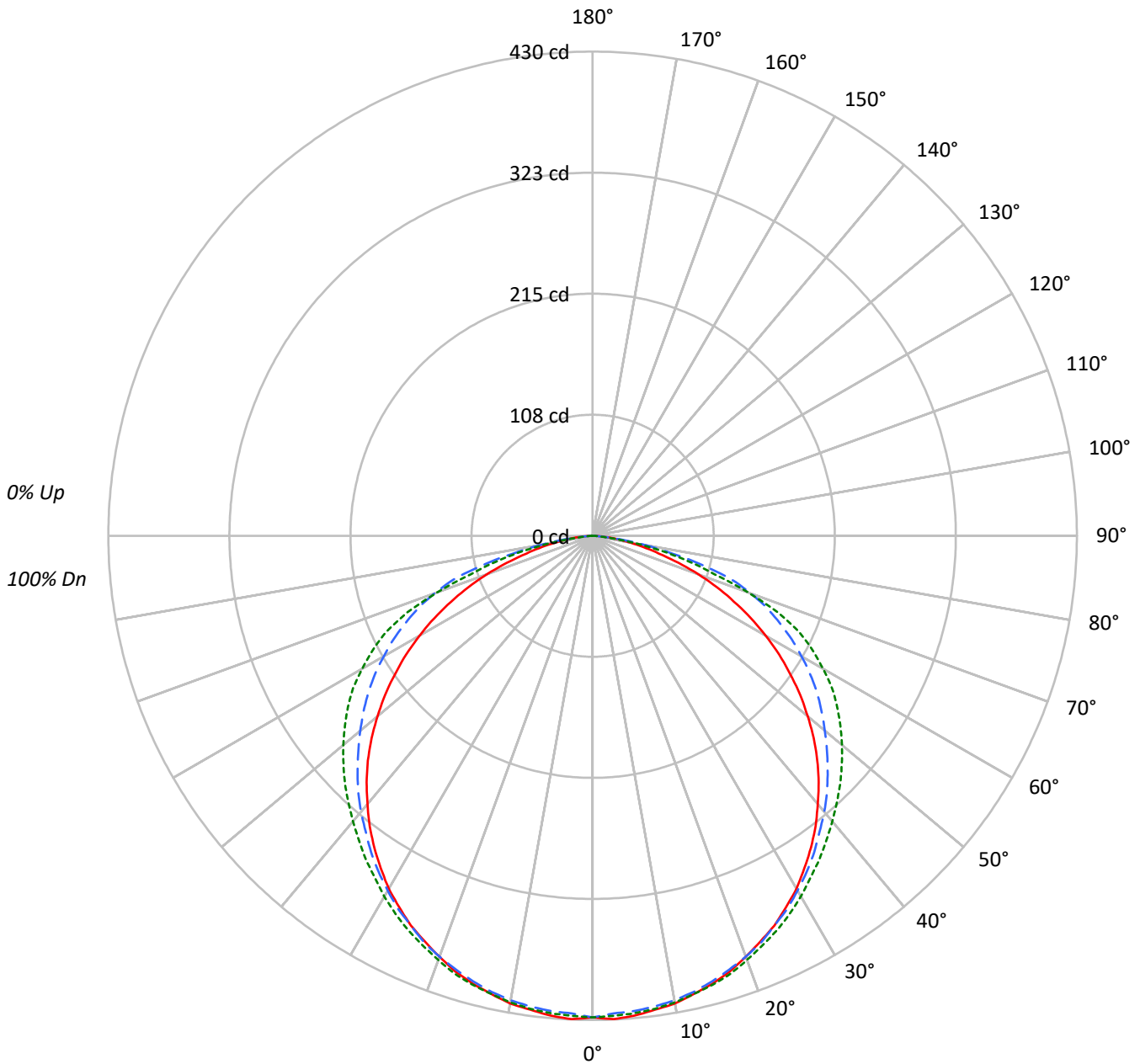
Lumens per Lamp: N/A
Luminaire Lumens: 1277.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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°	1207	1207	1207
5°	1212	1201	1206
10°	1209	1200	1206
15°	1203	1197	1206
20°	1195	1195	1204
25°	1189	1189	1205
30°	1180	1186	1206
35°	1165	1182	1209
40°	1146	1179	1220
45°	1127	1178	1241
50°	1095	1182	1270
55°	1055	1197	1305
60°	1001	1210	1334
65°	926	1225	1352
70°	823	1235	1209
75°	664	1109	967
80°	519	779	632
85°	356	227	162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	3.2
10°-20°	116.1	9.1
20°-30°	176.9	13.8
30°-40°	215.4	16.9
40°-50°	228.5	17.9
50°-60°	215.7	16.9
60°-70°	174.1	13.6
70°-80°	94.5	7.4
80°-90°	15.3	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°	333.5	26.1
0°-40°	548.9	43.0
0°-60°	993.1	77.8
0°-90°	1277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	428	428	428	428	428	
5°	428	427	424	427	426	41
15°	412	411	410	413	413	116
25°	382	381	382	386	387	176
35°	338	340	343	350	351	211
45°	282	286	295	306	311	217
55°	214	223	243	259	265	191
65°	139	156	183	198	202	137
75°	61	89	102	92	89	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°	427.7	427.7	427.7	427.7	427.7
2.5°	429.7	427.7	424.6	427.7	426.7
5°	427.7	426.7	423.7	426.7	425.7
7.5°	424.6	424.6	421.7	423.7	423.7
10°	421.7	420.7	418.8	421.7	420.7
12.5°	416.7	415.7	414.8	417.7	416.7
15°	411.7	410.7	409.7	412.8	412.8
17.5°	405.7	404.7	403.8	407.8	407.8
20°	397.8	397.8	397.8	401.8	400.8
22.5°	389.8	389.8	390.8	394.8	393.9
25°	381.9	380.9	381.9	385.8	386.8
27.5°	371.9	372.8	373.8	377.8	378.8
30°	362.0	362.9	363.9	368.9	369.9
32.5°	350.0	351.9	353.9	359.9	359.9
35°	338.0	340.0	343.0	350.0	351.0
37.5°	325.1	327.0	331.0	339.0	340.9
40°	311.0	314.1	320.0	328.0	331.0
42.5°	297.1	301.1	308.1	317.0	321.0
45°	282.2	286.1	295.1	306.1	311.0
47.5°	266.2	271.2	282.2	296.1	300.1
50°	249.3	256.3	269.2	284.1	289.1
52.5°	232.3	240.2	256.3	272.1	277.2
55°	214.3	223.3	243.3	259.2	265.2
57.5°	196.4	206.4	229.2	246.2	252.2
60°	177.4	189.4	214.3	231.3	236.3
62.5°	158.5	172.4	199.4	216.3	220.3
65°	138.6	155.6	183.4	198.5	202.4
67.5°	119.6	139.6	167.5	178.4	178.4
70°	99.7	121.6	149.6	152.5	146.5
72.5°	79.8	104.7	129.7	118.7	113.6
75°	60.9	88.7	101.7	91.8	88.7
77.5°	45.8	71.7	71.7	65.7	63.8
80°	31.9	54.9	47.9	41.9	38.9
82.5°	20.9	30.9	24.9	19.9	17.0
85°	11.0	12.0	7.0	6.0	5.0
87.5°	4.0	2.0	1.0	2.0	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)