

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: P732456

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-HRP-B2750-W2D-CP375-2700K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

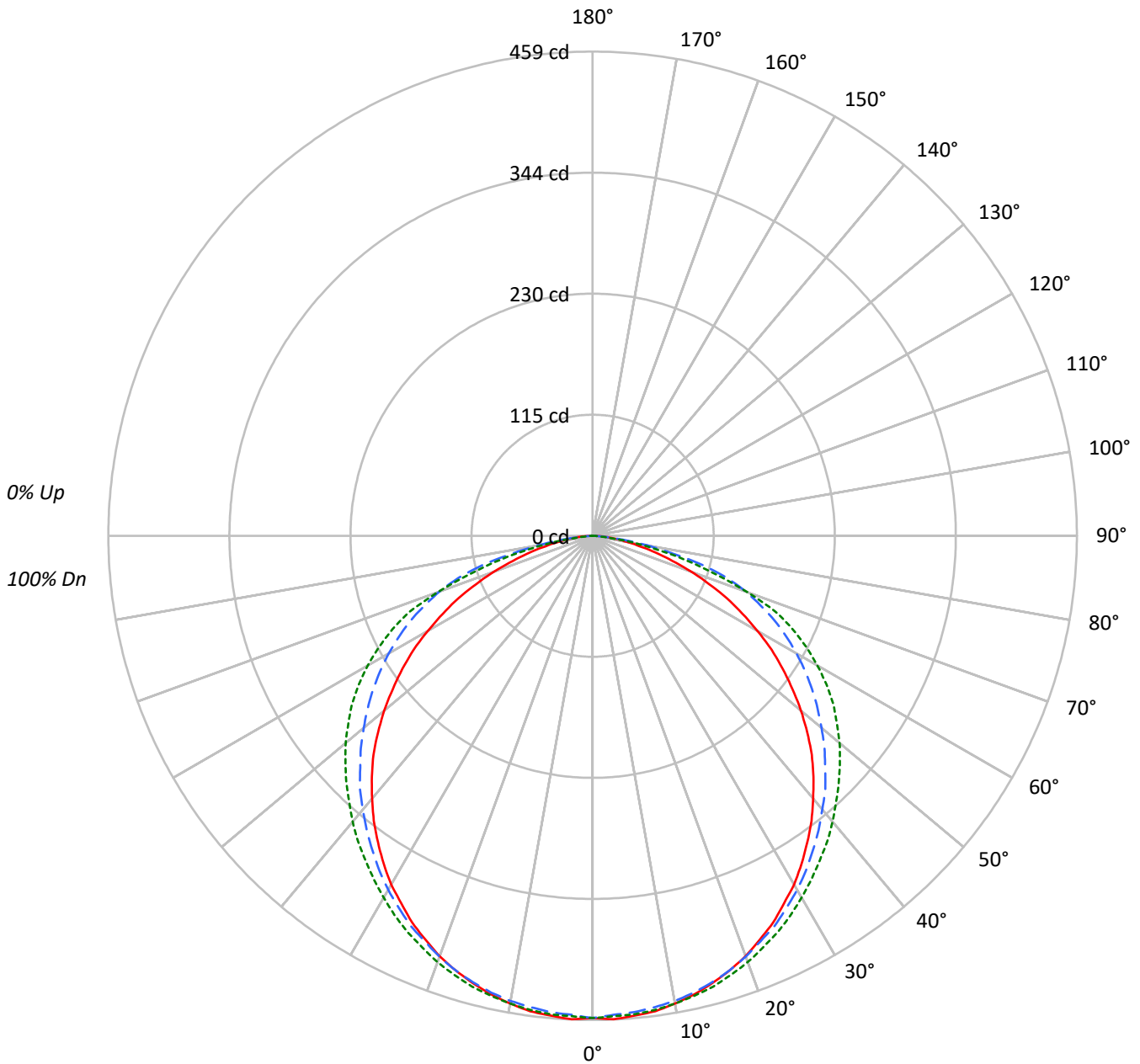
Lumens per Lamp: N/A
Luminaire Lumens: 1346.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69								
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58								
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49								
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42								
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37								
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33								
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29								
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26								
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1290	1290	1290
5°	1294	1284	1290
10°	1291	1283	1291
15°	1283	1280	1293
20°	1274	1275	1292
25°	1260	1271	1292
30°	1244	1263	1291
35°	1222	1254	1294
40°	1198	1248	1304
45°	1172	1243	1318
50°	1132	1243	1342
55°	1083	1250	1371
60°	1018	1259	1388
65°	938	1272	1397
70°	818	1275	1285
75°	674	1187	1038
80°	530	853	694
85°	411	330	162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	3.2
10°-20°	124.2	9.2
20°-30°	188.6	14.0
30°-40°	228.5	17.0
40°-50°	240.8	17.9
50°-60°	224.8	16.7
60°-70°	179.6	13.3
70°-80°	98.9	7.3
80°-90°	17.5	1.3
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°	356.0	26.5
0°-40°	584.5	43.4
0°-60°	1050.1	78.0
0°-90°	1346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	457	457	457	457	457	
5°	457	455	453	456	455	43
15°	439	439	438	442	442	124
25°	405	405	408	414	415	186
35°	355	358	364	373	375	222
45°	294	299	312	326	330	226
55°	220	231	254	272	278	196
65°	140	158	190	206	209	138
75°	62	88	109	98	95	67
85°	13	16	10	6	5	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	457.1	457.1	457.1	457.1	457.1
2.5°	458.8	457.5	454.6	457.1	455.9
5°	456.7	455.4	453.3	456.3	455.4
7.5°	454.6	452.9	450.7	454.2	453.3
10°	450.3	449.0	447.8	450.7	450.3
12.5°	445.3	444.8	443.6	447.0	446.6
15°	439.0	439.0	438.1	442.3	442.3
17.5°	432.1	431.7	432.1	436.8	436.4
20°	424.1	424.1	424.5	430.1	430.1
22.5°	414.3	414.7	416.0	422.8	422.3
25°	404.7	405.4	408.0	413.9	414.7
27.5°	392.8	394.9	397.8	405.0	405.9
30°	381.8	383.0	387.6	394.5	396.1
32.5°	368.7	371.1	376.3	383.9	386.0
35°	354.7	358.1	364.0	373.3	375.4
37.5°	340.7	343.7	351.8	361.4	365.3
40°	325.1	330.1	338.6	349.6	353.8
42.5°	309.8	314.9	326.4	337.7	341.6
45°	293.7	299.3	311.5	325.5	330.1
47.5°	275.9	282.4	298.0	312.8	317.8
50°	257.7	265.7	283.1	299.7	305.6
52.5°	238.8	248.8	268.7	286.1	291.7
55°	220.1	231.0	254.0	271.7	278.5
57.5°	201.1	212.9	238.8	259.0	262.9
60°	180.3	194.7	223.0	240.8	245.9
62.5°	160.0	176.5	206.9	223.9	228.2
65°	140.5	158.3	190.4	206.1	209.1
67.5°	119.3	140.5	172.2	186.7	187.4
70°	99.1	123.6	154.5	161.2	155.7
72.5°	79.2	105.4	133.8	128.2	123.6
75°	61.8	88.5	108.8	97.8	95.2
77.5°	45.7	72.4	77.9	72.0	67.3
80°	32.6	57.1	52.5	44.9	42.7
82.5°	22.4	36.0	28.8	22.4	19.5
85°	12.7	16.1	10.2	6.3	5.0
87.5°	5.5	3.9	2.1	1.7	1.7
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)