

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: P732453

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732453
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-CP250-3500K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

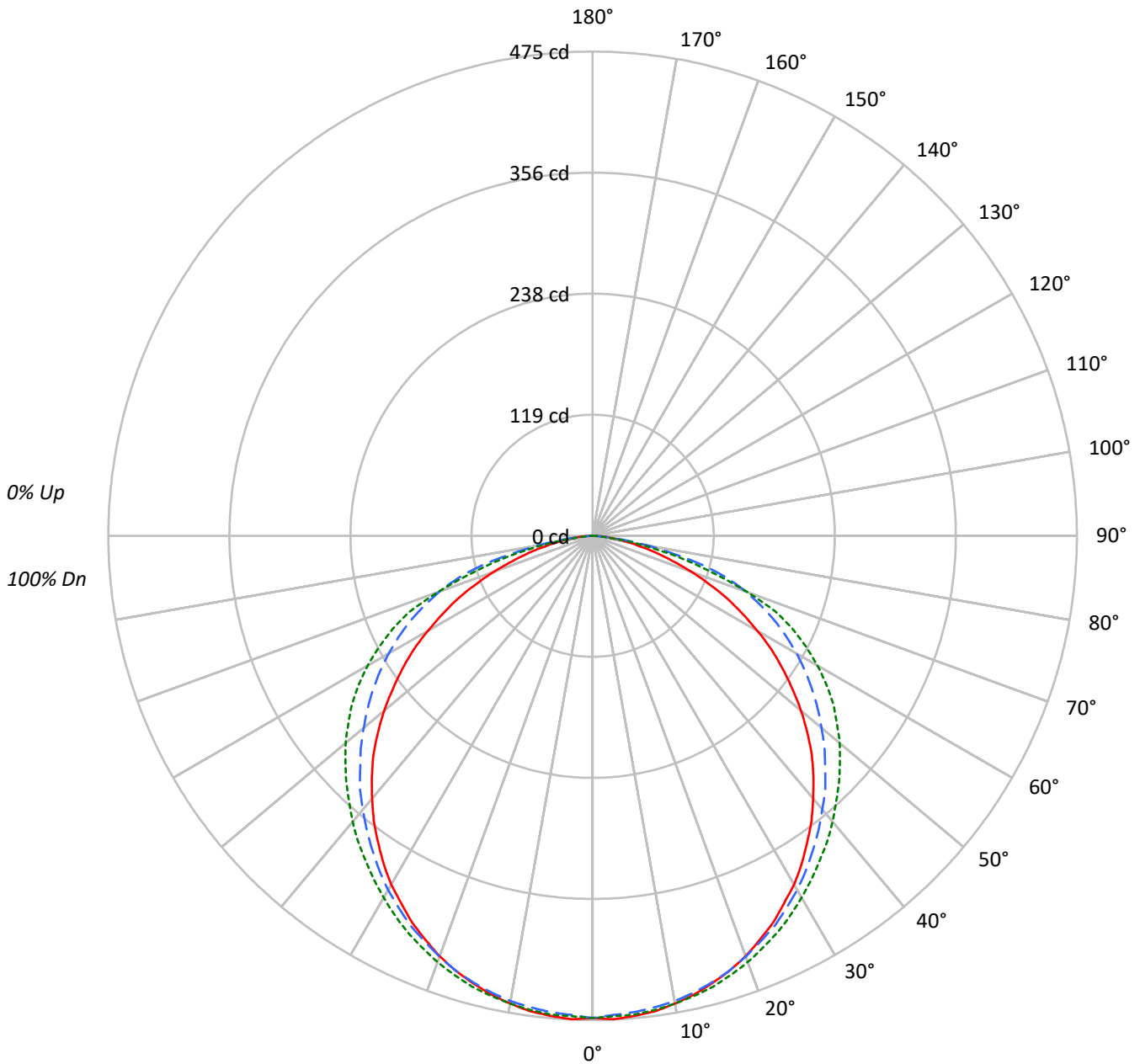
Lumens per Lamp: N/A
Luminaire Lumens: 1393.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	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°	1335	1335	1335
5°	1339	1329	1336
10°	1336	1328	1336
15°	1328	1325	1338
20°	1318	1320	1337
25°	1304	1315	1337
30°	1288	1308	1336
35°	1265	1298	1339
40°	1240	1291	1349
45°	1214	1287	1364
50°	1171	1287	1389
55°	1121	1293	1418
60°	1053	1303	1437
65°	971	1316	1445
70°	846	1320	1330
75°	698	1228	1074
80°	548	883	718
85°	428	340	168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	3.2
10°-20°	128.5	9.2
20°-30°	195.1	14.0
30°-40°	236.5	17.0
40°-50°	249.2	17.9
50°-60°	232.6	16.7
60°-70°	185.9	13.3
70°-80°	102.3	7.3
80°-90°	18.1	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°	368.4	26.5
0°-40°	604.9	43.4
0°-60°	1086.7	78.0
0°-90°	1393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	473	473	473	473	473	
5°	473	471	469	472	471	45
15°	454	454	453	458	458	128
25°	419	420	422	428	429	193
35°	367	371	377	386	388	230
45°	304	310	322	337	342	234
55°	228	239	263	281	288	203
65°	145	164	197	213	216	143
75°	64	92	113	101	98	69
85°	13	17	10	6	5	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	473.0	473.0	473.0	473.0	473.0
2.5°	474.8	473.5	470.5	473.0	471.8
5°	472.7	471.4	469.1	472.2	471.4
7.5°	470.5	468.7	466.5	470.0	469.1
10°	466.0	464.7	463.5	466.5	466.0
12.5°	460.8	460.4	459.0	462.6	462.2
15°	454.3	454.3	453.4	457.7	457.7
17.5°	447.2	446.7	447.2	452.1	451.6
20°	438.9	438.9	439.3	445.1	445.1
22.5°	428.8	429.2	430.6	437.5	437.1
25°	418.8	419.6	422.2	428.3	429.2
27.5°	406.5	408.7	411.7	419.1	420.0
30°	395.1	396.4	401.2	408.3	409.9
32.5°	381.6	384.1	389.4	397.3	399.5
35°	367.0	370.6	376.7	386.3	388.5
37.5°	352.6	355.7	364.0	374.0	378.0
40°	336.4	341.7	350.4	361.8	366.2
42.5°	320.6	325.9	337.8	349.5	353.5
45°	304.0	309.7	322.4	336.9	341.7
47.5°	285.6	292.2	308.4	323.7	328.9
50°	266.7	275.0	293.0	310.2	316.3
52.5°	247.1	257.5	278.1	296.1	301.9
55°	227.8	239.1	262.8	281.2	288.2
57.5°	208.1	220.4	247.1	268.0	272.0
60°	186.6	201.5	230.8	249.2	254.5
62.5°	165.6	182.7	214.2	231.7	236.1
65°	145.4	163.8	197.1	213.3	216.4
67.5°	123.5	145.4	178.3	193.2	194.0
70°	102.5	127.9	159.9	166.8	161.2
72.5°	81.9	109.1	138.5	132.7	127.9
75°	64.0	91.6	112.6	101.2	98.5
77.5°	47.3	74.9	80.6	74.5	69.6
80°	33.7	59.1	54.3	46.4	44.2
82.5°	23.2	37.2	29.8	23.2	20.2
85°	13.2	16.6	10.5	6.5	5.2
87.5°	5.7	4.0	2.2	1.8	1.8
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)