

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: P732449

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732449
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-CP187-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

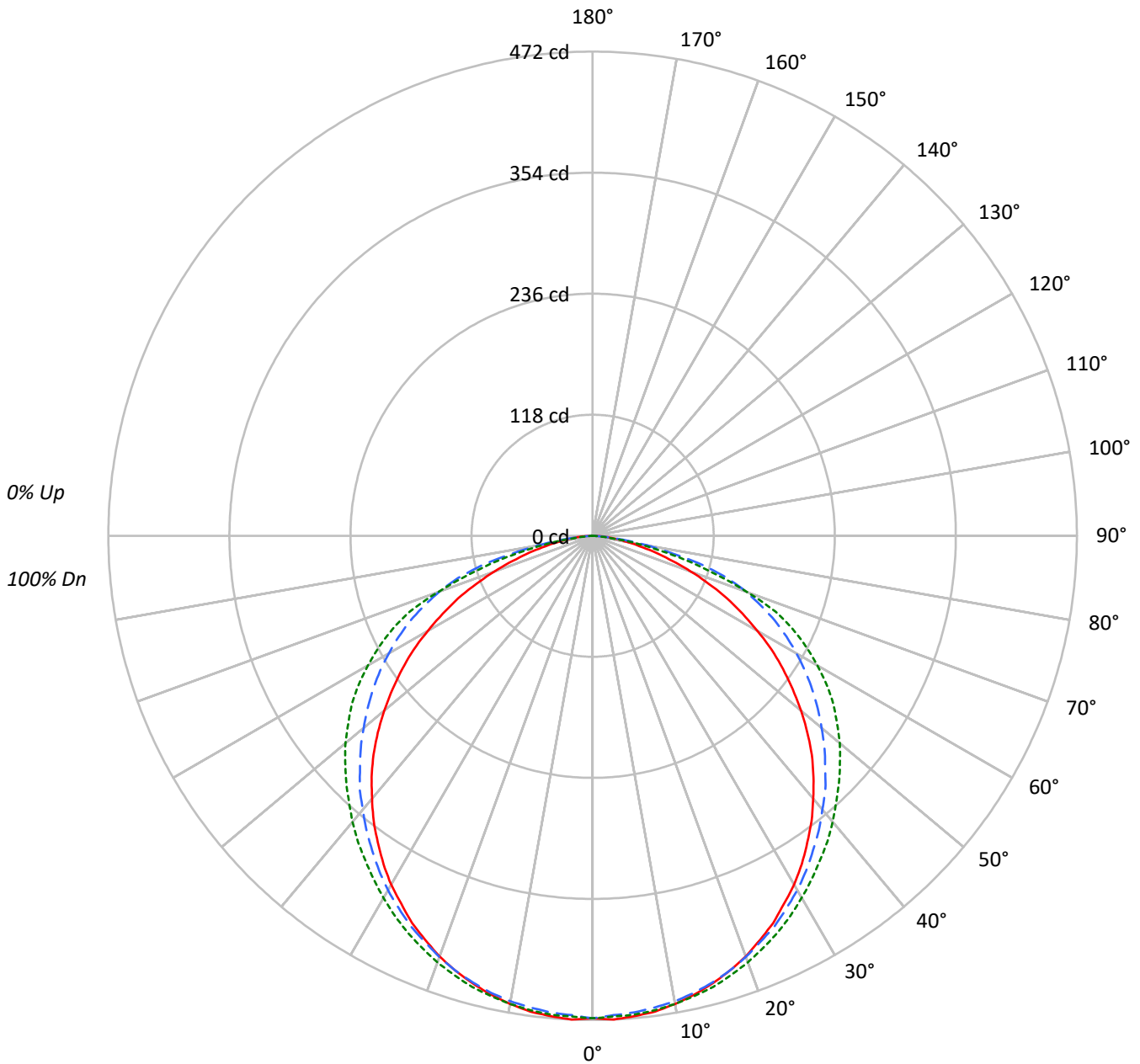
Lumens per Lamp: N/A
Luminaire Lumens: 1385.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1328	1328	1328
5°	1332	1322	1328
10°	1328	1321	1328
15°	1320	1317	1330
20°	1311	1312	1329
25°	1297	1307	1329
30°	1280	1300	1329
35°	1257	1290	1331
40°	1233	1284	1341
45°	1206	1279	1356
50°	1165	1279	1381
55°	1115	1286	1410
60°	1047	1296	1429
65°	966	1309	1437
70°	842	1311	1323
75°	694	1221	1069
80°	545	878	715
85°	424	340	168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	3.2
10°-20°	127.8	9.2
20°-30°	194.0	14.0
30°-40°	235.1	17.0
40°-50°	247.7	17.9
50°-60°	231.3	16.7
60°-70°	184.8	13.3
70°-80°	101.7	7.3
80°-90°	18.0	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°	366.3	26.5
0°-40°	601.4	43.4
0°-60°	1080.5	78.0
0°-90°	1385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	470	470	470	470	470	
5°	470	469	466	470	469	45
15°	452	452	451	455	455	127
25°	416	417	420	426	427	192
35°	365	368	374	384	386	228
45°	302	308	320	335	340	233
55°	226	238	261	280	287	202
65°	145	163	196	212	215	142
75°	64	91	112	101	98	68
85°	13	16	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°	470.3	470.3	470.3	470.3	470.3
2.5°	472.1	470.7	467.8	470.3	469.1
5°	470.0	468.6	466.4	469.5	468.6
7.5°	467.8	466.0	463.8	467.3	466.4
10°	463.4	462.0	460.8	463.8	463.4
12.5°	458.2	457.7	456.4	459.9	459.5
15°	451.7	451.7	450.8	455.1	455.1
17.5°	444.6	444.2	444.6	449.5	449.0
20°	436.4	436.4	436.8	442.5	442.5
22.5°	426.3	426.8	428.1	435.0	434.6
25°	416.4	417.2	419.8	425.9	426.8
27.5°	404.2	406.4	409.3	416.7	417.6
30°	392.8	394.1	398.9	405.9	407.6
32.5°	379.4	381.9	387.2	395.0	397.2
35°	364.9	368.5	374.5	384.1	386.3
37.5°	350.6	353.7	362.0	371.9	375.8
40°	334.5	339.7	348.4	359.7	364.0
42.5°	318.7	324.0	335.8	347.5	351.5
45°	302.2	307.9	320.5	335.0	339.7
47.5°	283.9	290.5	306.6	321.8	327.0
50°	265.2	273.4	291.3	308.4	314.5
52.5°	245.7	256.0	276.5	294.4	300.1
55°	226.5	237.7	261.3	279.6	286.6
57.5°	206.9	219.1	245.7	266.5	270.5
60°	185.5	200.4	229.5	247.8	253.1
62.5°	164.7	181.6	212.9	230.4	234.8
65°	144.6	162.9	196.0	212.1	215.1
67.5°	122.8	144.6	177.2	192.1	192.9
70°	102.0	127.2	158.9	165.9	160.3
72.5°	81.5	108.5	137.7	131.9	127.2
75°	63.6	91.0	112.0	100.6	98.0
77.5°	47.1	74.5	80.1	74.1	69.2
80°	33.5	58.7	54.0	46.2	44.0
82.5°	23.0	37.0	29.6	23.0	20.1
85°	13.1	16.5	10.5	6.5	5.2
87.5°	5.6	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)