

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: P732447

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732447
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-CP187-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

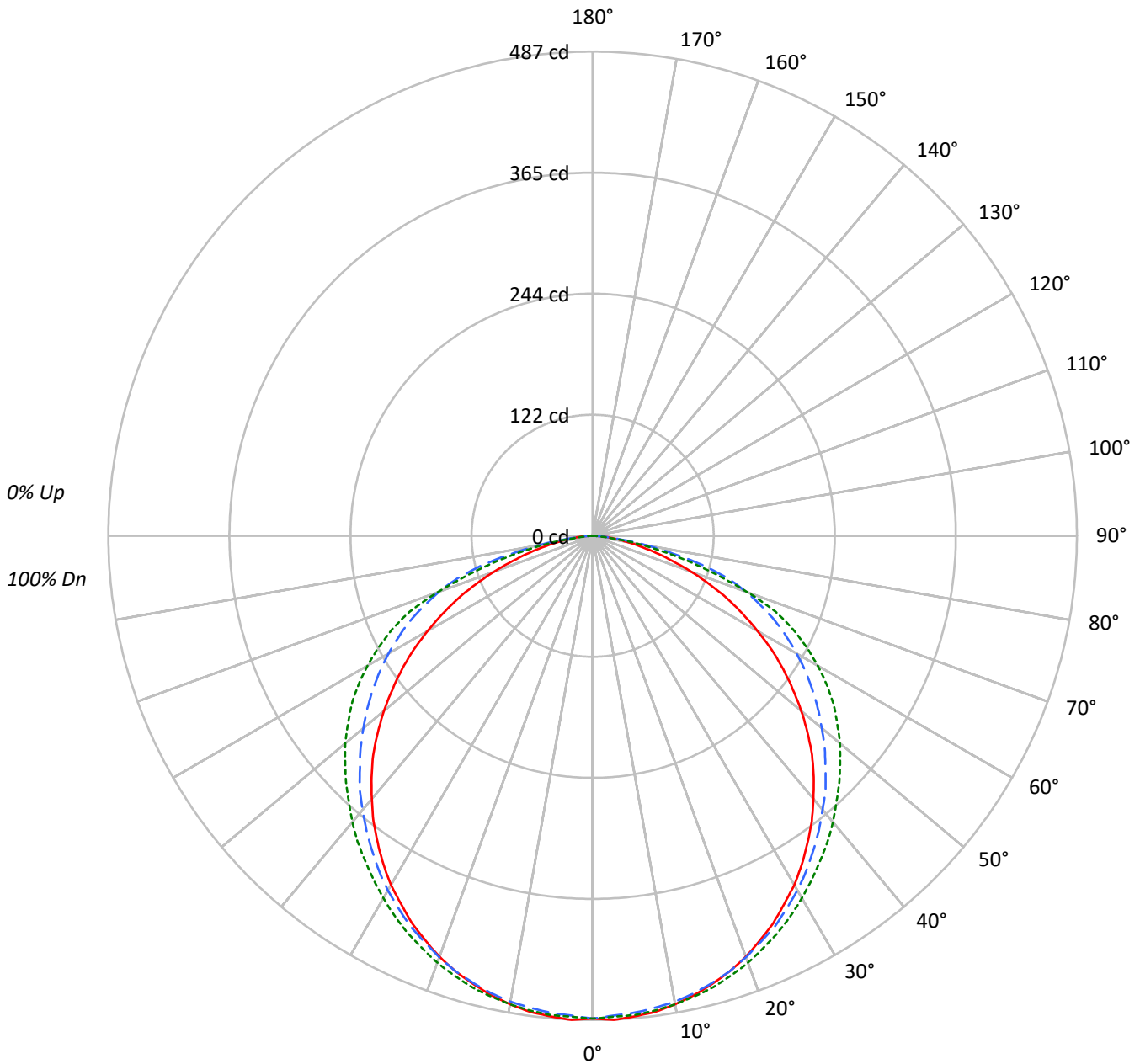
Lumens per Lamp: N/A
Luminaire Lumens: 1430.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1371	1371	1371
5°	1375	1365	1371
10°	1371	1364	1371
15°	1363	1360	1373
20°	1353	1355	1372
25°	1339	1350	1372
30°	1322	1342	1372
35°	1298	1333	1375
40°	1273	1325	1385
45°	1245	1321	1400
50°	1202	1321	1426
55°	1151	1328	1456
60°	1081	1337	1475
65°	997	1351	1483
70°	869	1354	1366
75°	717	1261	1104
80°	562	907	738
85°	437	350	172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	3.2
10°-20°	131.9	9.2
20°-30°	200.3	14.0
30°-40°	242.8	17.0
40°-50°	255.8	17.9
50°-60°	238.8	16.7
60°-70°	190.8	13.3
70°-80°	105.0	7.3
80°-90°	18.5	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°	378.2	26.4
0°-40°	621.0	43.4
0°-60°	1115.6	78.0
0°-90°	1430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	486	486	486	486	486	
5°	485	484	482	485	484	46
15°	466	466	465	470	470	132
25°	430	431	434	440	441	198
35°	377	380	387	397	399	236
45°	312	318	331	346	351	240
55°	234	246	270	289	296	209
65°	149	168	202	219	222	147
75°	66	94	116	104	101	71
85°	14	17	11	7	5	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	485.6	485.6	485.6	485.6	485.6
2.5°	487.4	486.0	483.0	485.6	484.3
5°	485.2	483.9	481.6	484.8	483.9
7.5°	483.0	481.1	478.9	482.5	481.6
10°	478.4	477.0	475.8	478.9	478.4
12.5°	473.1	472.6	471.2	474.9	474.4
15°	466.3	466.3	465.4	469.9	469.9
17.5°	459.1	458.6	459.1	464.1	463.6
20°	450.5	450.5	451.0	456.9	456.9
22.5°	440.2	440.6	442.0	449.2	448.7
25°	429.9	430.7	433.5	439.7	440.6
27.5°	417.3	419.6	422.6	430.3	431.2
30°	405.6	406.9	411.8	419.1	420.8
32.5°	391.7	394.3	399.8	407.9	410.1
35°	376.8	380.4	386.7	396.6	398.9
37.5°	362.0	365.2	373.7	384.0	388.1
40°	345.4	350.7	359.7	371.4	375.9
42.5°	329.1	334.6	346.7	358.8	362.9
45°	312.0	318.0	330.9	345.8	350.7
47.5°	293.1	300.0	316.6	332.3	337.6
50°	273.8	282.3	300.8	318.4	324.7
52.5°	253.7	264.4	285.5	304.0	309.9
55°	233.9	245.5	269.8	288.7	295.9
57.5°	213.6	226.2	253.7	275.2	279.3
60°	191.5	206.9	236.9	255.8	261.3
62.5°	170.0	187.5	219.9	237.8	242.4
65°	149.3	168.2	202.3	218.9	222.1
67.5°	126.8	149.3	183.0	198.4	199.1
70°	105.3	131.3	164.1	171.3	165.5
72.5°	84.1	112.0	142.1	136.2	131.3
75°	65.7	94.0	115.6	103.9	101.2
77.5°	48.6	76.9	82.7	76.5	71.5
80°	34.6	60.7	55.8	47.7	45.4
82.5°	23.8	38.2	30.6	23.8	20.7
85°	13.5	17.1	10.8	6.7	5.3
87.5°	5.8	4.1	2.3	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)