

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: P732450

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732450
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-CP187-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

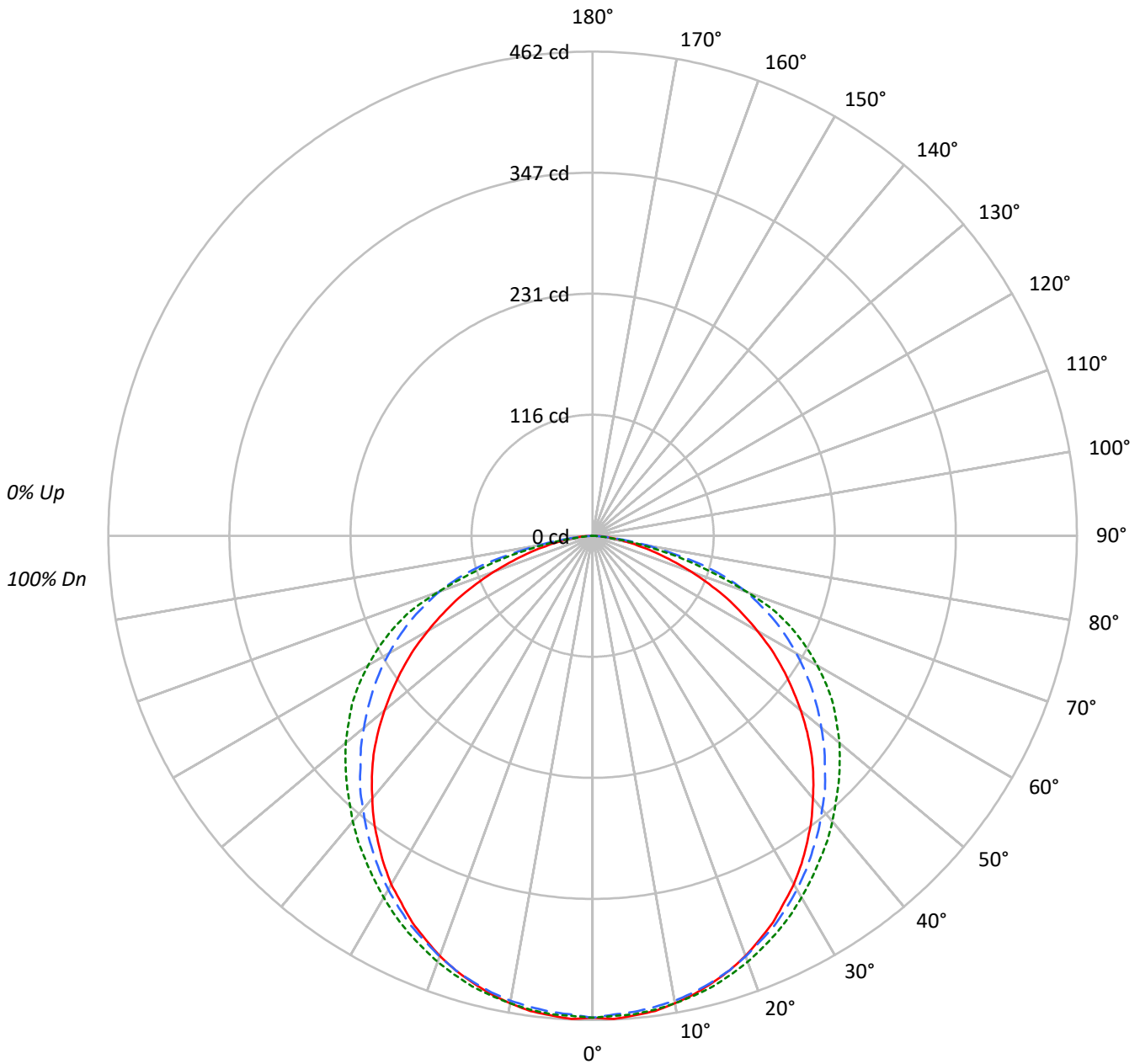
Lumens per Lamp: N/A
Luminaire Lumens: 1354.0 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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°	1298	1298	1298
5°	1302	1292	1298
10°	1298	1291	1298
15°	1290	1288	1300
20°	1281	1283	1299
25°	1268	1278	1299
30°	1252	1271	1299
35°	1229	1262	1301
40°	1205	1255	1311
45°	1180	1251	1326
50°	1138	1251	1350
55°	1090	1257	1379
60°	1024	1266	1397
65°	944	1280	1405
70°	823	1283	1293
75°	678	1194	1045
80°	533	858	699
85°	415	330	165



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	3.2
10°-20°	124.9	9.2
20°-30°	189.7	14.0
30°-40°	229.8	17.0
40°-50°	242.2	17.9
50°-60°	226.1	16.7
60°-70°	180.7	13.3
70°-80°	99.4	7.3
80°-90°	17.6	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°	358.1	26.4
0°-40°	588.0	43.4
0°-60°	1056.3	78.0
0°-90°	1354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	460	460	460	460	460	
5°	459	458	456	459	458	44
15°	442	442	441	445	445	125
25°	407	408	410	416	417	187
35°	357	360	366	376	378	223
45°	296	301	313	328	332	227
55°	221	232	256	273	280	198
65°	141	159	192	207	210	139
75°	62	89	110	98	96	67
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°	459.8	459.8	459.8	459.8	459.8
2.5°	461.5	460.2	457.3	459.8	458.6
5°	459.4	458.2	456.0	459.0	458.2
7.5°	457.3	455.6	453.4	456.9	456.0
10°	453.0	451.7	450.5	453.4	453.0
12.5°	447.9	447.5	446.2	449.6	449.2
15°	441.6	441.6	440.7	444.9	444.9
17.5°	434.7	434.2	434.7	439.4	439.0
20°	426.6	426.6	427.0	432.6	432.6
22.5°	416.8	417.2	418.5	425.3	424.9
25°	407.1	407.8	410.4	416.3	417.2
27.5°	395.1	397.3	400.2	407.4	408.3
30°	384.0	385.3	389.9	396.8	398.5
32.5°	370.9	373.4	378.5	386.2	388.3
35°	356.8	360.2	366.1	375.5	377.7
37.5°	342.8	345.8	353.9	363.5	367.4
40°	327.0	332.1	340.6	351.7	355.9
42.5°	311.6	316.8	328.3	339.7	343.6
45°	295.5	301.1	313.3	327.5	332.1
47.5°	277.6	284.0	299.8	314.6	319.7
50°	259.2	267.3	284.8	301.5	307.4
52.5°	240.2	250.3	270.3	287.8	293.4
55°	221.4	232.4	255.5	273.4	280.2
57.5°	202.2	214.2	240.2	260.5	264.4
60°	181.3	195.9	224.3	242.2	247.4
62.5°	161.0	177.6	208.2	225.2	229.5
65°	141.4	159.3	191.6	207.3	210.3
67.5°	120.0	141.4	173.3	187.8	188.6
70°	99.7	124.3	155.4	162.2	156.7
72.5°	79.6	106.0	134.6	129.0	124.3
75°	62.2	89.0	109.5	98.4	95.8
77.5°	46.0	72.8	78.3	72.4	67.7
80°	32.8	57.4	52.8	45.1	43.0
82.5°	22.5	36.2	29.0	22.5	19.6
85°	12.8	16.2	10.2	6.4	5.1
87.5°	5.5	3.9	2.2	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)