

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: P732457

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CP375-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732457
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-CP375-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

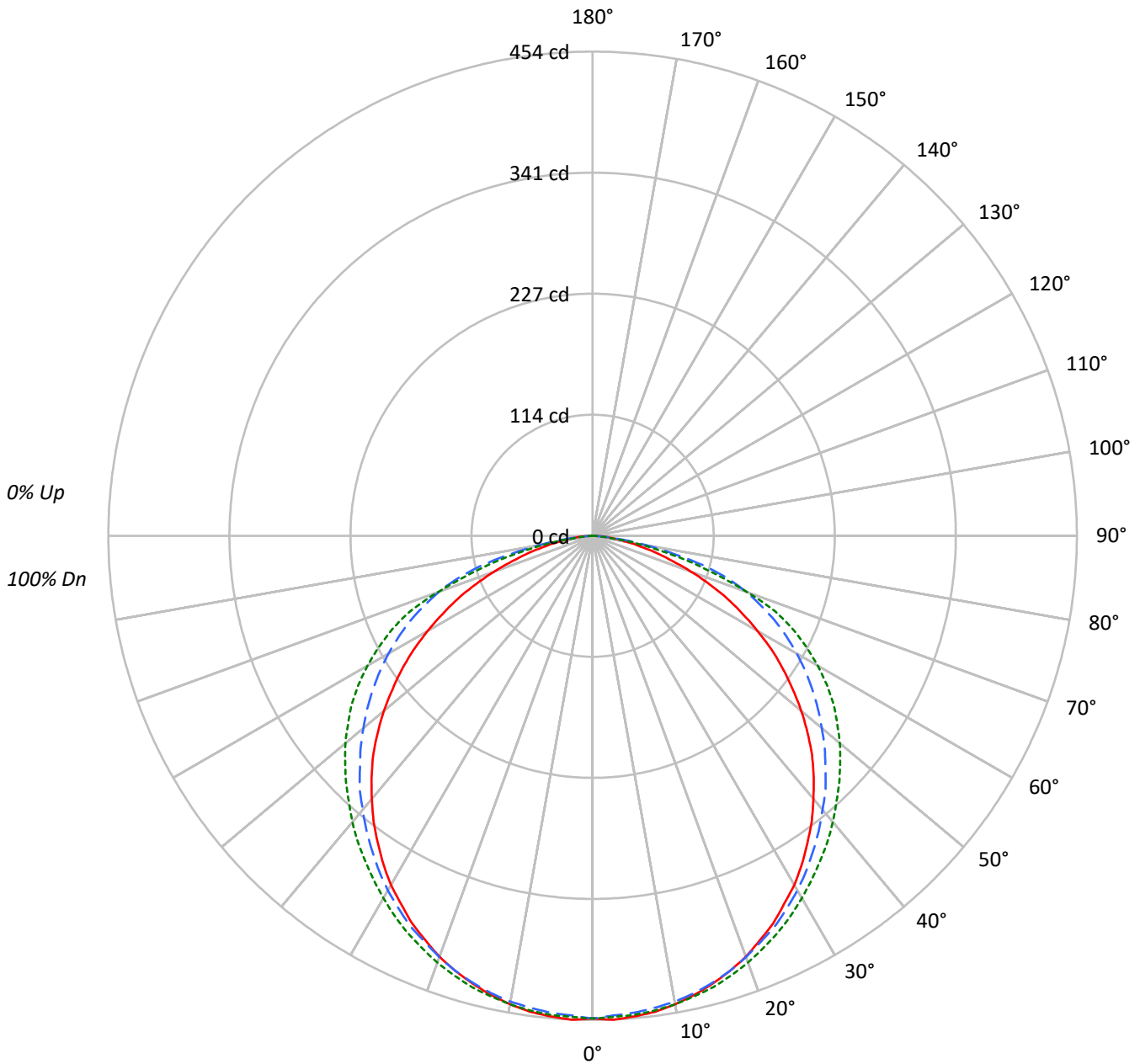
Lumens per Lamp: N/A
Luminaire Lumens: 1333.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1278	1278	1278
5°	1282	1272	1278
10°	1278	1271	1278
15°	1270	1268	1280
20°	1262	1263	1279
25°	1248	1259	1279
30°	1232	1251	1279
35°	1210	1242	1281
40°	1186	1235	1291
45°	1161	1231	1305
50°	1121	1231	1329
55°	1073	1238	1357
60°	1008	1247	1375
65°	930	1260	1383
70°	810	1263	1273
75°	667	1176	1028
80°	523	845	688
85°	408	327	162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	3.2
10°-20°	123.0	9.2
20°-30°	186.7	14.0
30°-40°	226.3	17.0
40°-50°	238.5	17.9
50°-60°	222.6	16.7
60°-70°	177.9	13.3
70°-80°	97.9	7.3
80°-90°	17.3	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°	352.6	26.5
0°-40°	578.9	43.4
0°-60°	1039.9	78.0
0°-90°	1333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	453	453	453	453	453	
5°	452	451	449	452	451	43
15°	435	435	434	438	438	123
25°	401	402	404	410	411	184
35°	351	355	360	370	372	220
45°	291	296	308	322	327	224
55°	218	229	252	269	276	195
65°	139	157	189	204	207	137
75°	61	88	108	97	94	66
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°	452.6	452.6	452.6	452.6	452.6
2.5°	454.3	453.1	450.2	452.6	451.5
5°	452.3	451.0	448.9	451.9	451.0
7.5°	450.2	448.5	446.4	449.8	448.9
10°	446.0	444.7	443.5	446.4	446.0
12.5°	441.0	440.5	439.3	442.7	442.2
15°	434.7	434.7	433.9	438.0	438.0
17.5°	427.9	427.5	427.9	432.6	432.2
20°	420.0	420.0	420.4	425.9	425.9
22.5°	410.3	410.7	412.0	418.7	418.3
25°	400.8	401.5	404.1	409.9	410.7
27.5°	389.0	391.1	394.0	401.1	401.9
30°	378.1	379.3	383.9	390.7	392.3
32.5°	365.1	367.6	372.7	380.2	382.3
35°	351.2	354.6	360.5	369.7	371.8
37.5°	337.4	340.4	348.4	357.9	361.7
40°	322.0	326.9	335.3	346.2	350.4
42.5°	306.8	311.9	323.2	334.5	338.3
45°	290.9	296.4	308.5	322.4	326.9
47.5°	273.3	279.6	295.1	309.8	314.7
50°	255.2	263.2	280.4	296.8	302.6
52.5°	236.5	246.4	266.2	283.3	288.9
55°	218.0	228.8	251.5	269.1	275.8
57.5°	199.1	210.9	236.5	256.5	260.3
60°	178.5	192.9	220.9	238.5	243.6
62.5°	158.5	174.8	204.9	221.7	225.9
65°	139.2	156.8	188.6	204.1	207.1
67.5°	118.2	139.2	170.6	184.9	185.6
70°	98.1	122.4	153.0	159.6	154.2
72.5°	78.4	104.4	132.5	127.0	122.4
75°	61.2	87.6	107.8	96.9	94.3
77.5°	45.3	71.7	77.1	71.3	66.6
80°	32.2	56.5	52.0	44.4	42.3
82.5°	22.2	35.6	28.5	22.2	19.3
85°	12.6	15.9	10.1	6.3	5.0
87.5°	5.4	3.8	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)