

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: P732459

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732459
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-CP375-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

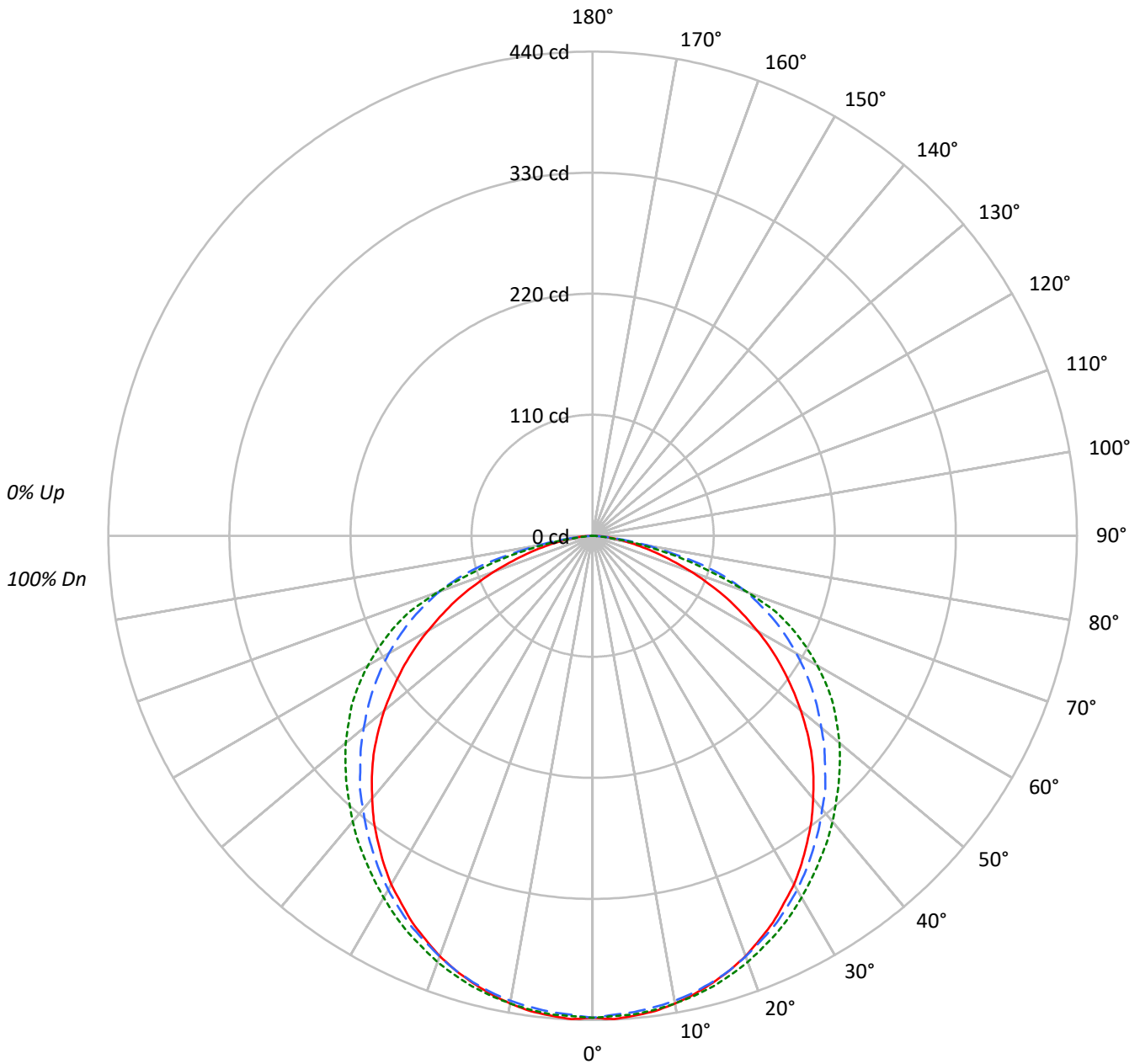
Lumens per Lamp: N/A
Luminaire Lumens: 1290.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1236	1236	1236
5°	1240	1231	1237
10°	1237	1230	1237
15°	1229	1227	1239
20°	1221	1222	1238
25°	1208	1218	1238
30°	1193	1211	1237
35°	1171	1202	1240
40°	1148	1196	1249
45°	1124	1192	1263
50°	1085	1191	1286
55°	1038	1198	1313
60°	976	1206	1331
65°	900	1219	1338
70°	784	1221	1232
75°	646	1137	996
80°	507	818	666
85°	395	317	155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	3.2
10°-20°	119.0	9.2
20°-30°	180.7	14.0
30°-40°	219.0	17.0
40°-50°	230.8	17.9
50°-60°	215.4	16.7
60°-70°	172.2	13.3
70°-80°	94.7	7.3
80°-90°	16.7	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°	341.2	26.4
0°-40°	560.2	43.4
0°-60°	1006.4	78.0
0°-90°	1290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	438	438	438	438	438	
5°	438	436	434	437	436	42
15°	421	421	420	424	424	119
25°	388	389	391	397	398	179
35°	340	343	349	358	360	213
45°	282	287	298	312	316	217
55°	211	221	243	260	267	188
65°	135	152	182	198	200	133
75°	59	85	104	94	91	64
85°	12	15	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°	438.0	438.0	438.0	438.0	438.0
2.5°	439.7	438.4	435.7	438.0	436.9
5°	437.7	436.5	434.4	437.3	436.5
7.5°	435.7	434.0	432.0	435.3	434.4
10°	431.6	430.3	429.2	432.0	431.6
12.5°	426.7	426.3	425.1	428.4	428.0
15°	420.7	420.7	419.9	423.9	423.9
17.5°	414.1	413.7	414.1	418.6	418.2
20°	406.4	406.4	406.8	412.2	412.2
22.5°	397.1	397.5	398.7	405.2	404.8
25°	387.8	388.6	391.0	396.7	397.5
27.5°	376.4	378.5	381.3	388.1	389.0
30°	365.9	367.1	371.5	378.1	379.6
32.5°	353.3	355.7	360.6	367.9	370.0
35°	339.9	343.2	348.8	357.8	359.8
37.5°	326.6	329.4	337.1	346.4	350.1
40°	311.6	316.4	324.5	335.1	339.1
42.5°	296.9	301.8	312.8	323.7	327.4
45°	281.5	286.8	298.5	312.0	316.4
47.5°	264.4	270.6	285.6	299.8	304.6
50°	247.0	254.7	271.3	287.2	292.9
52.5°	228.8	238.5	257.6	274.2	279.5
55°	211.0	221.4	243.4	260.4	266.9
57.5°	192.7	204.1	228.8	248.2	251.9
60°	172.8	186.6	213.7	230.8	235.7
62.5°	153.4	169.2	198.3	214.6	218.7
65°	134.7	151.7	182.5	197.5	200.4
67.5°	114.4	134.7	165.1	178.9	179.7
70°	95.0	118.5	148.0	154.5	149.3
72.5°	75.9	101.0	128.2	122.9	118.5
75°	59.2	84.8	104.3	93.7	91.3
77.5°	43.8	69.4	74.6	69.0	64.5
80°	31.2	54.7	50.3	43.0	41.0
82.5°	21.5	34.5	27.6	21.5	18.7
85°	12.2	15.4	9.8	6.1	4.8
87.5°	5.2	3.7	2.1	1.6	1.6
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)