

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: P732460

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732460
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-CP375-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

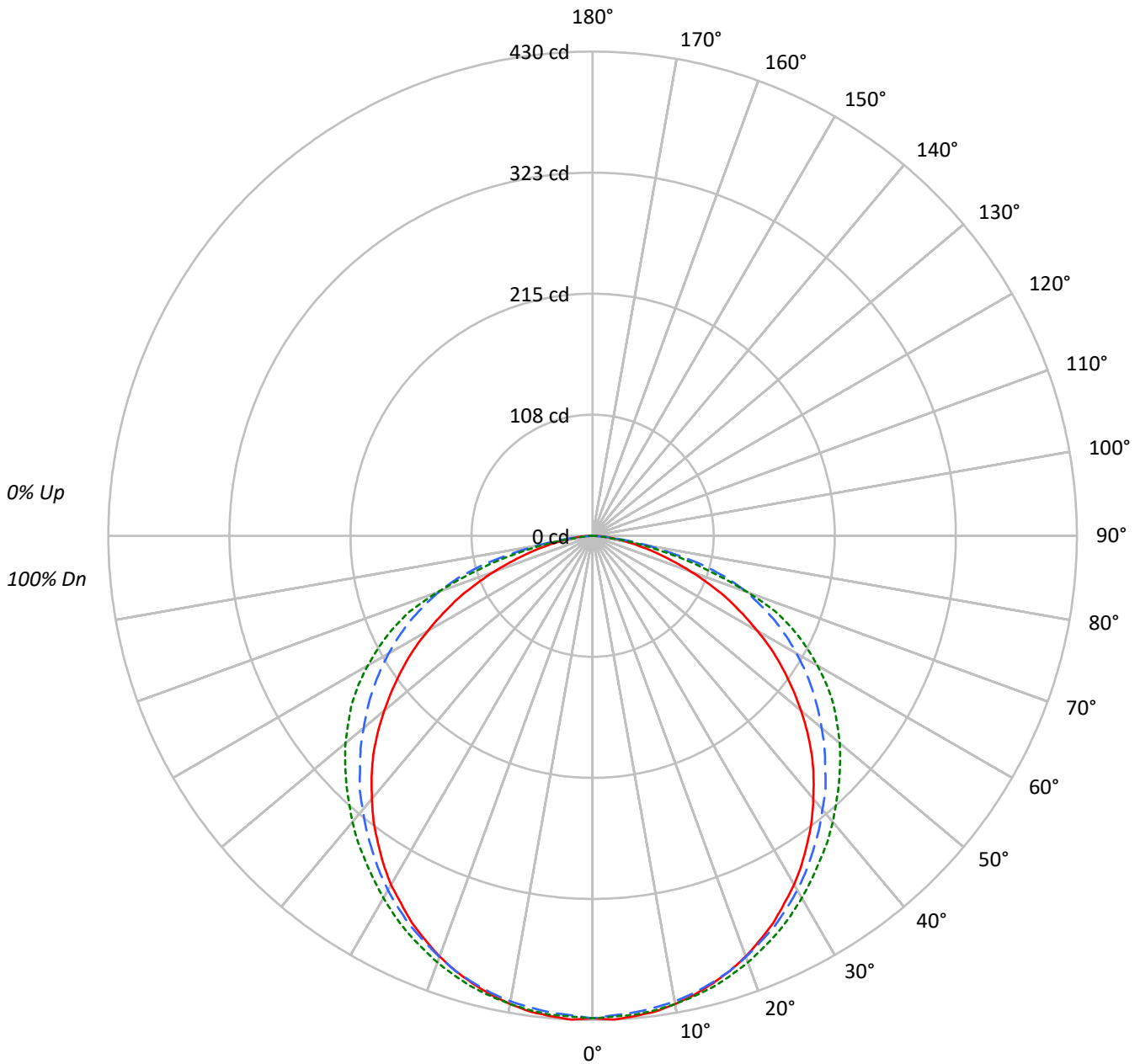
Lumens per Lamp: N/A
Luminaire Lumens: 1262.0 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1210	1210	1210
5°	1213	1204	1210
10°	1210	1204	1210
15°	1203	1200	1212
20°	1194	1196	1211
25°	1182	1191	1211
30°	1167	1185	1211
35°	1146	1176	1213
40°	1123	1170	1222
45°	1099	1166	1235
50°	1061	1165	1258
55°	1016	1172	1285
60°	954	1180	1302
65°	880	1193	1309
70°	767	1195	1205
75°	631	1112	974
80°	496	800	652
85°	389	308	152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	3.2
10°-20°	116.4	9.2
20°-30°	176.8	14.0
30°-40°	214.2	17.0
40°-50°	225.8	17.9
50°-60°	210.8	16.7
60°-70°	168.4	13.3
70°-80°	92.7	7.3
80°-90°	16.4	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°	333.8	26.5
0°-40°	548.0	43.4
0°-60°	984.5	78.0
0°-90°	1262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1262.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	428	428	428	428	428	
5°	428	427	425	428	427	41
15°	412	412	411	415	415	116
25°	379	380	382	388	389	175
35°	332	336	341	350	352	208
45°	275	281	292	305	310	212
55°	206	217	238	255	261	184
65°	132	148	179	193	196	130
75°	58	83	102	92	89	62
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°	428.5	428.5	428.5	428.5	428.5
2.5°	430.1	428.9	426.2	428.5	427.4
5°	428.2	427.0	425.0	427.8	427.0
7.5°	426.2	424.6	422.6	425.8	425.0
10°	422.2	421.0	419.9	422.6	422.2
12.5°	417.5	417.1	415.9	419.1	418.7
15°	411.6	411.6	410.8	414.7	414.7
17.5°	405.1	404.7	405.1	409.5	409.1
20°	397.6	397.6	398.0	403.2	403.2
22.5°	388.5	388.9	390.1	396.4	396.0
25°	379.4	380.1	382.5	388.1	388.9
27.5°	368.3	370.3	373.0	379.7	380.5
30°	357.9	359.1	363.5	369.9	371.4
32.5°	345.7	348.0	352.8	359.9	361.9
35°	332.5	335.7	341.3	350.0	352.0
37.5°	319.5	322.3	329.8	338.8	342.5
40°	304.8	309.5	317.5	327.8	331.7
42.5°	290.4	295.3	306.0	316.7	320.3
45°	275.4	280.6	292.0	305.2	309.5
47.5°	258.7	264.7	279.4	293.3	298.0
50°	241.6	249.2	265.4	281.0	286.5
52.5°	223.9	233.3	252.0	268.2	273.5
55°	206.4	216.6	238.1	254.8	261.1
57.5°	188.5	199.7	223.9	242.8	246.5
60°	169.0	182.6	209.1	225.8	230.6
62.5°	150.0	165.5	194.0	209.9	213.9
65°	131.8	148.4	178.6	193.2	196.0
67.5°	111.9	131.8	161.5	175.0	175.8
70°	92.9	115.9	144.8	151.1	146.0
72.5°	74.2	98.8	125.4	120.2	115.9
75°	57.9	83.0	102.0	91.7	89.3
77.5°	42.9	67.9	73.0	67.5	63.1
80°	30.5	53.5	49.2	42.1	40.1
82.5°	21.0	33.7	27.0	21.0	18.3
85°	12.0	15.1	9.5	5.9	4.7
87.5°	5.1	3.6	2.0	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)