

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: P732475

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

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-RDP-B2750-W2D-CP187-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

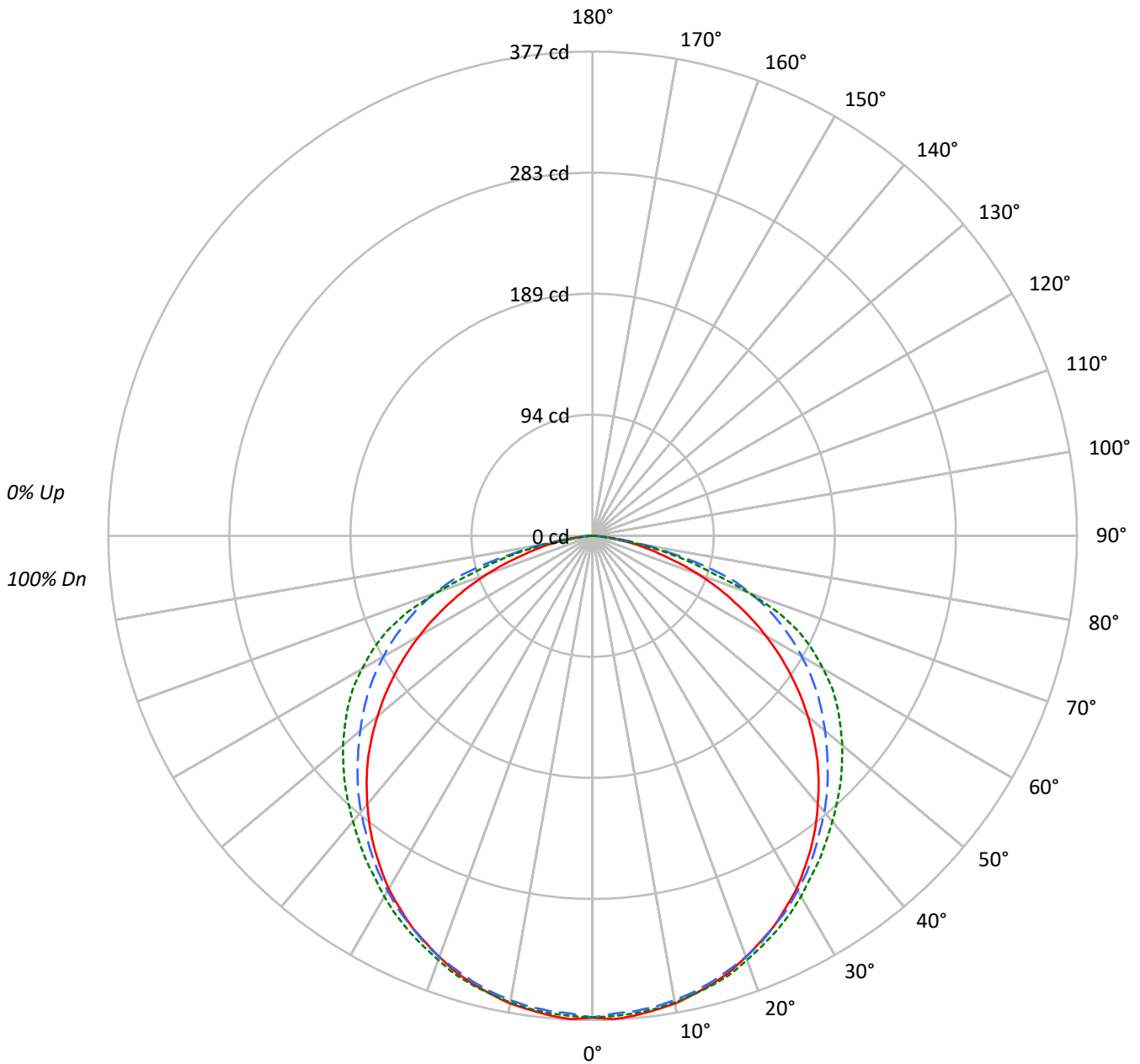
Lumens per Lamp: N/A
Luminaire Lumens: 1120.0 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1059	1059	1059
5°	1063	1053	1058
10°	1060	1053	1058
15°	1055	1050	1058
20°	1048	1048	1056
25°	1043	1043	1056
30°	1035	1040	1057
35°	1022	1037	1061
40°	1005	1034	1070
45°	988	1033	1089
50°	960	1037	1114
55°	925	1050	1145
60°	878	1061	1170
65°	812	1075	1186
70°	722	1083	1061
75°	582	973	848
80°	455	683	554
85°	311	198	143



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.5	3.2
10°-20°	101.9	9.1
20°-30°	155.1	13.8
30°-40°	188.9	16.9
40°-50°	200.4	17.9
50°-60°	189.2	16.9
60°-70°	152.7	13.6
70°-80°	82.9	7.4
80°-90°	13.4	1.2
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°	292.5	26.1
0°-40°	481.4	43.0
0°-60°	871.0	77.8
0°-90°	1120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	375	375	375	375	375	
5°	375	374	372	374	373	36
15°	361	360	359	362	362	102
25°	335	334	335	338	339	154
35°	296	298	301	307	308	185
45°	248	251	259	268	273	191
55°	188	196	213	227	233	168
65°	122	136	161	174	178	120
75°	53	78	89	80	78	58
85°	10	10	6	5	4	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	375.1	375.1	375.1	375.1	375.1
2.5°	376.8	375.1	372.4	375.1	374.3
5°	375.1	374.3	371.6	374.3	373.4
7.5°	372.4	372.4	369.9	371.6	371.6
10°	369.9	369.0	367.3	369.9	369.0
12.5°	365.5	364.6	363.8	366.3	365.5
15°	361.1	360.2	359.4	362.0	362.0
17.5°	355.8	355.0	354.1	357.7	357.7
20°	348.9	348.9	348.9	352.4	351.5
22.5°	341.9	341.9	342.8	346.3	345.4
25°	334.9	334.1	334.9	338.4	339.2
27.5°	326.1	327.0	327.9	331.4	332.2
30°	317.5	318.3	319.2	323.6	324.4
32.5°	307.0	308.7	310.4	315.6	315.6
35°	296.5	298.2	300.8	307.0	307.8
37.5°	285.1	286.8	290.3	297.3	299.0
40°	272.8	275.4	280.7	287.7	290.3
42.5°	260.5	264.1	270.2	278.0	281.6
45°	247.5	250.9	258.8	268.5	272.8
47.5°	233.4	237.8	247.5	259.7	263.2
50°	218.6	224.8	236.1	249.2	253.6
52.5°	203.7	210.7	224.8	238.7	243.1
55°	188.0	195.8	213.4	227.3	232.6
57.5°	172.2	181.0	201.1	216.0	221.2
60°	155.6	166.1	188.0	202.9	207.3
62.5°	139.0	151.2	174.9	189.7	193.2
65°	121.5	136.4	160.9	174.1	177.5
67.5°	104.9	122.4	146.9	156.5	156.5
70°	87.5	106.6	131.2	133.8	128.5
72.5°	70.0	91.9	113.7	104.1	99.7
75°	53.4	77.8	89.2	80.5	77.8
77.5°	40.2	62.9	62.9	57.7	55.9
80°	28.0	48.1	42.0	36.8	34.1
82.5°	18.3	27.1	21.9	17.5	14.9
85°	9.6	10.5	6.1	5.3	4.4
87.5°	3.5	1.7	0.9	1.7	0.9
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)