

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: P732482

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

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732482
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-CP375-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RDP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

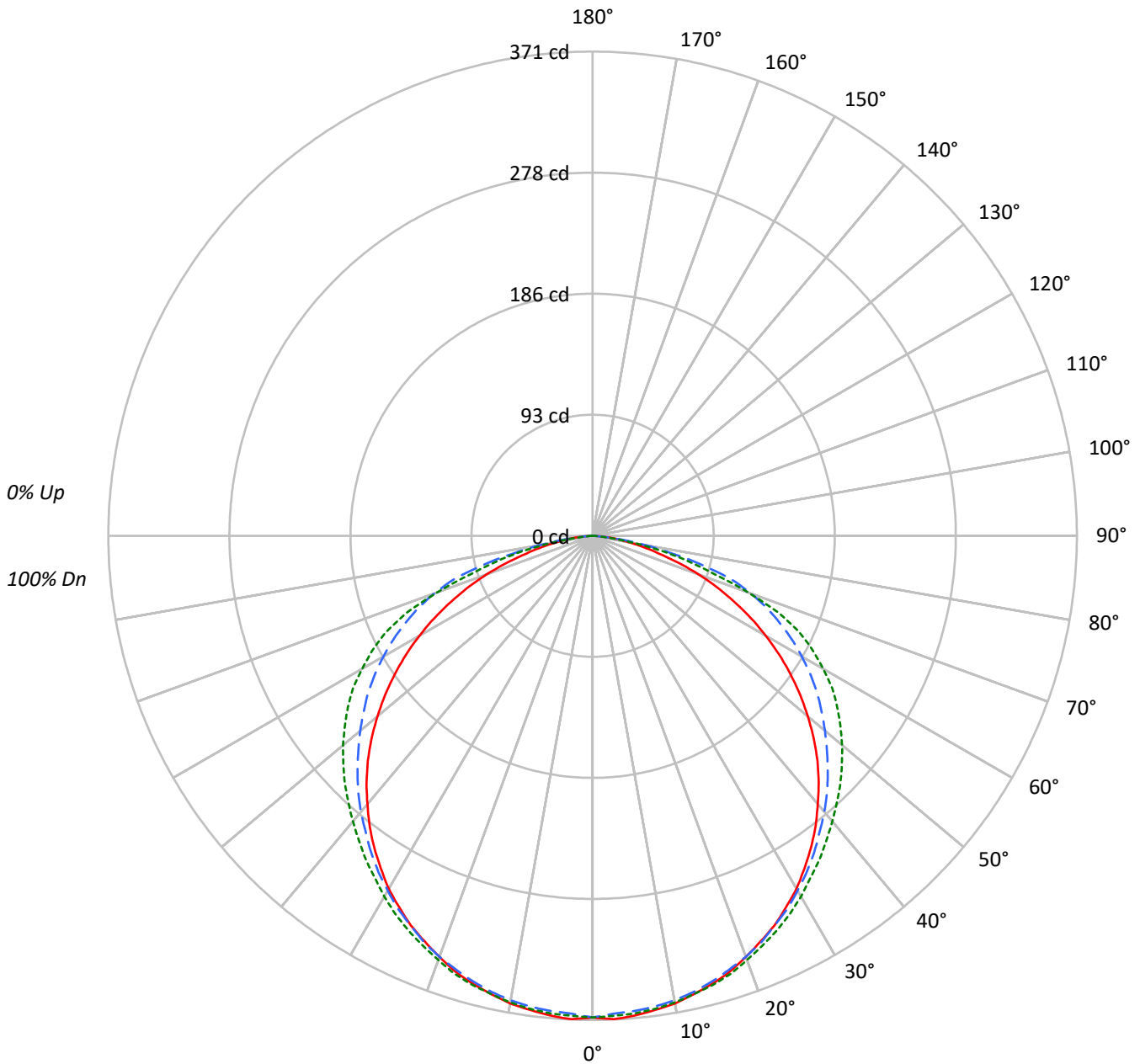
Lumens per Lamp: N/A
Luminaire Lumens: 1102.0 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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				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	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°	1042	1042	1042
5°	1046	1036	1041
10°	1043	1036	1041
15°	1038	1033	1041
20°	1031	1031	1039
25°	1026	1026	1040
30°	1018	1023	1040
35°	1005	1020	1044
40°	989	1018	1053
45°	972	1017	1071
50°	945	1020	1096
55°	910	1033	1126
60°	864	1044	1151
65°	799	1057	1166
70°	711	1065	1043
75°	573	956	835
80°	447	671	545
85°	308	194	139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	3.2
10°-20°	100.2	9.1
20°-30°	152.6	13.8
30°-40°	185.9	16.9
40°-50°	197.2	17.9
50°-60°	186.1	16.9
60°-70°	150.3	13.6
70°-80°	81.5	7.4
80°-90°	13.2	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°	287.8	26.1
0°-40°	473.7	43.0
0°-60°	857.0	77.8
0°-90°	1102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	369	369	369	369	369	
5°	369	368	366	368	367	35
15°	355	354	354	356	356	100
25°	330	329	330	333	334	152
35°	292	293	296	302	303	182
45°	244	247	255	264	268	188
55°	185	193	210	224	229	165
65°	120	134	158	171	175	118
75°	52	77	88	79	77	57
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°	369.1	369.1	369.1	369.1	369.1
2.5°	370.8	369.1	366.5	369.1	368.2
5°	369.1	368.2	365.6	368.2	367.4
7.5°	366.5	366.5	363.9	365.6	365.6
10°	363.9	363.1	361.4	363.9	363.1
12.5°	359.6	358.8	357.9	360.4	359.6
15°	355.3	354.4	353.6	356.2	356.2
17.5°	350.1	349.3	348.4	351.9	351.9
20°	343.3	343.3	343.3	346.7	345.9
22.5°	336.4	336.4	337.2	340.7	339.9
25°	329.5	328.7	329.5	332.9	333.8
27.5°	320.9	321.7	322.6	326.1	326.9
30°	312.4	313.2	314.0	318.4	319.2
32.5°	302.0	303.7	305.4	310.6	310.6
35°	291.7	293.4	296.0	302.0	302.9
37.5°	280.5	282.2	285.7	292.5	294.2
40°	268.4	271.0	276.2	283.0	285.7
42.5°	256.4	259.8	265.9	273.5	277.0
45°	243.5	246.9	254.7	264.2	268.4
47.5°	229.7	234.0	243.5	255.5	259.0
50°	215.1	221.1	232.3	245.2	249.5
52.5°	200.5	207.3	221.1	234.8	239.2
55°	185.0	192.7	210.0	223.7	228.8
57.5°	169.5	178.1	197.8	212.5	217.7
60°	153.1	163.5	185.0	199.6	203.9
62.5°	136.8	148.8	172.1	186.7	190.1
65°	119.6	134.2	158.3	171.3	174.6
67.5°	103.2	120.4	144.6	154.0	154.0
70°	86.1	104.9	129.1	131.6	126.4
72.5°	68.9	90.4	111.9	102.4	98.1
75°	52.5	76.6	87.7	79.2	76.6
77.5°	39.5	61.9	61.9	56.7	55.0
80°	27.5	47.3	41.3	36.2	33.5
82.5°	18.0	26.7	21.5	17.2	14.7
85°	9.5	10.3	6.0	5.2	4.3
87.5°	3.5	1.7	0.8	1.7	0.8
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)