

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: P732484

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

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732484
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-CP375-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RDP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

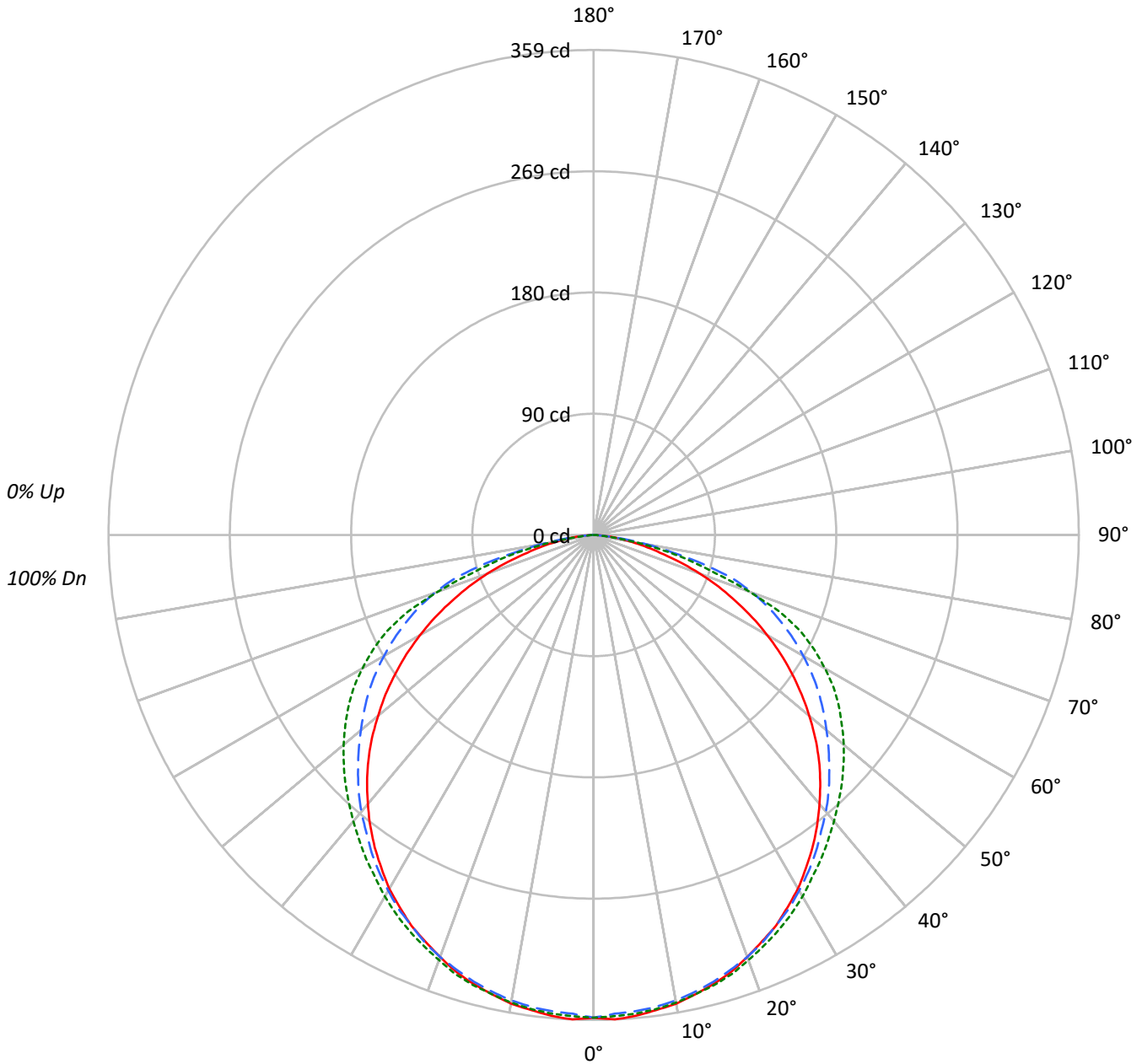
Lumens per Lamp: N/A
Luminaire Lumens: 1067.0 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732484

CATALOG NUMBER: 14FCZ2-20-RDP-B2750-W2D-CP375-4000K

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°	1009	1009	1009
5°	1013	1003	1008
10°	1010	1003	1007
15°	1005	1001	1008
20°	998	998	1006
25°	994	994	1007
30°	986	991	1007
35°	973	988	1010
40°	958	985	1019
45°	941	984	1037
50°	915	988	1061
55°	881	1000	1091
60°	837	1011	1115
65°	773	1024	1129
70°	687	1032	1010
75°	554	927	808
80°	432	650	528
85°	298	188	136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.8	3.2
10°-20°	97.0	9.1
20°-30°	147.8	13.8
30°-40°	180.0	16.9
40°-50°	191.0	17.9
50°-60°	180.2	16.9
60°-70°	145.5	13.6
70°-80°	78.9	7.4
80°-90°	12.8	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°	278.6	26.1
0°-40°	458.6	43.0
0°-60°	829.8	77.8
0°-90°	1067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	357	357	357	357	357	
5°	357	357	354	357	356	34
15°	344	343	342	345	345	97
25°	319	318	319	322	323	147
35°	282	284	287	292	293	177
45°	236	239	247	256	260	182
55°	179	186	203	217	222	160
65°	116	130	153	166	169	115
75°	51	74	85	77	74	56
85°	9	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°	357.4	357.4	357.4	357.4	357.4
2.5°	359.0	357.4	354.8	357.4	356.6
5°	357.4	356.6	354.0	356.6	355.7
7.5°	354.8	354.8	352.4	354.0	354.0
10°	352.4	351.5	349.9	352.4	351.5
12.5°	348.2	347.4	346.5	349.0	348.2
15°	344.0	343.2	342.4	344.9	344.9
17.5°	339.0	338.2	337.4	340.7	340.7
20°	332.4	332.4	332.4	335.7	334.9
22.5°	325.7	325.7	326.5	329.9	329.1
25°	319.1	318.3	319.1	322.3	323.2
27.5°	310.7	311.5	312.3	315.7	316.5
30°	302.4	303.3	304.1	308.3	309.1
32.5°	292.4	294.1	295.7	300.7	300.7
35°	282.4	284.1	286.6	292.4	293.2
37.5°	271.6	273.2	276.6	283.2	284.9
40°	259.9	262.4	267.4	274.1	276.6
42.5°	248.2	251.6	257.4	264.9	268.2
45°	235.8	239.0	246.6	255.8	259.9
47.5°	222.4	226.6	235.8	247.4	250.8
50°	208.3	214.1	224.9	237.4	241.6
52.5°	194.1	200.7	214.1	227.4	231.6
55°	179.1	186.5	203.3	216.6	221.6
57.5°	164.1	172.5	191.5	205.7	210.7
60°	148.3	158.3	179.1	193.3	197.5
62.5°	132.4	144.1	166.6	180.7	184.1
65°	115.8	130.0	153.3	165.8	169.1
67.5°	100.0	116.6	140.0	149.1	149.1
70°	83.3	101.6	125.0	127.4	122.4
72.5°	66.7	87.5	108.3	99.1	95.0
75°	50.8	74.1	85.0	76.7	74.1
77.5°	38.3	59.9	59.9	54.9	53.3
80°	26.6	45.8	40.0	35.0	32.5
82.5°	17.5	25.8	20.8	16.6	14.2
85°	9.2	10.0	5.8	5.0	4.2
87.5°	3.4	1.6	0.8	1.6	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)