

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: P732479

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732479
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-CP250-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RDP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

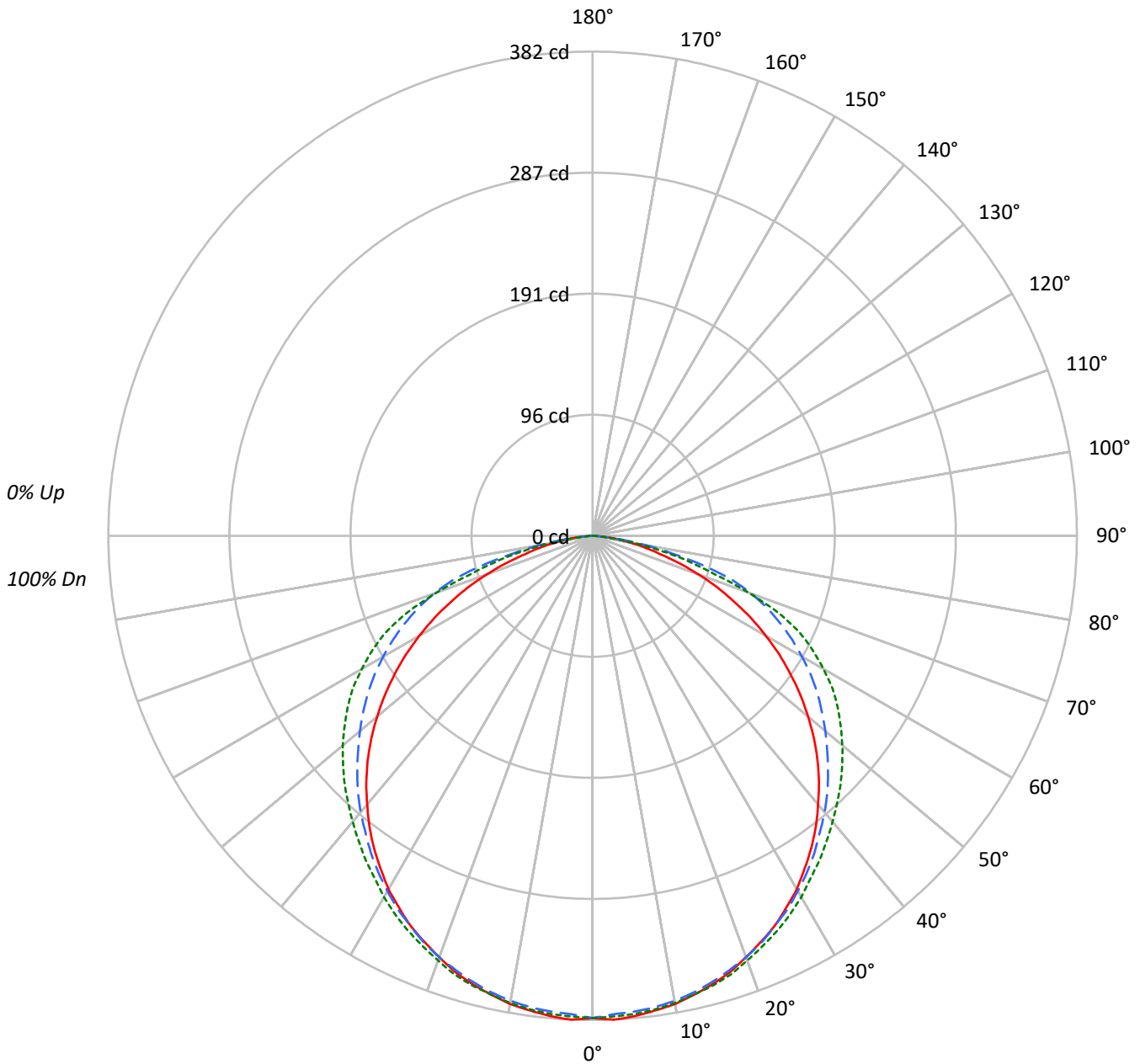
Lumens per Lamp: N/A
Luminaire Lumens: 1136.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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°	1074	1074	1074
5°	1078	1068	1073
10°	1075	1068	1073
15°	1070	1065	1073
20°	1063	1063	1071
25°	1058	1058	1072
30°	1050	1055	1073
35°	1036	1051	1076
40°	1020	1049	1085
45°	1002	1048	1105
50°	974	1052	1129
55°	938	1065	1161
60°	891	1077	1187
65°	824	1090	1202
70°	732	1098	1075
75°	590	986	860
80°	462	692	562
85°	317	201	146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.0	3.2
10°-20°	103.3	9.1
20°-30°	157.3	13.8
30°-40°	191.6	16.9
40°-50°	203.3	17.9
50°-60°	191.9	16.9
60°-70°	154.9	13.6
70°-80°	84.0	7.4
80°-90°	13.6	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°	296.7	26.1
0°-40°	488.3	43.0
0°-60°	883.5	77.8
0°-90°	1136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	380	380	380	380	380	
5°	380	380	377	380	379	36
15°	366	365	364	367	367	103
25°	340	339	340	343	344	156
35°	301	302	305	311	312	188
45°	251	254	262	272	277	193
55°	191	199	216	231	236	170
65°	123	138	163	176	180	122
75°	54	79	90	82	79	59
85°	10	11	6	5	4	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	380.5	380.5	380.5	380.5	380.5
2.5°	382.2	380.5	377.8	380.5	379.6
5°	380.5	379.6	376.9	379.6	378.7
7.5°	377.8	377.8	375.2	376.9	376.9
10°	375.2	374.3	372.5	375.2	374.3
12.5°	370.7	369.8	369.0	371.6	370.7
15°	366.2	365.4	364.5	367.2	367.2
17.5°	360.9	360.0	359.2	362.8	362.8
20°	353.8	353.8	353.8	357.4	356.6
22.5°	346.8	346.8	347.6	351.2	350.4
25°	339.7	338.8	339.7	343.2	344.1
27.5°	330.8	331.7	332.5	336.1	337.0
30°	322.0	322.9	323.7	328.2	329.1
32.5°	311.3	313.1	314.8	320.1	320.1
35°	300.7	302.4	305.1	311.3	312.2
37.5°	289.2	290.9	294.5	301.6	303.3
40°	276.7	279.4	284.7	291.8	294.5
42.5°	264.3	267.9	274.1	282.0	285.6
45°	251.0	254.5	262.5	272.3	276.7
47.5°	236.8	241.2	251.0	263.4	267.0
50°	221.8	228.0	239.5	252.7	257.2
52.5°	206.7	213.7	228.0	242.1	246.6
55°	190.7	198.6	216.4	230.6	235.9
57.5°	174.7	183.6	203.9	219.0	224.4
60°	157.8	168.5	190.7	205.8	210.2
62.5°	141.0	153.4	177.4	192.4	196.0
65°	123.3	138.4	163.2	176.5	180.0
67.5°	106.4	124.1	149.0	158.7	158.7
70°	88.7	108.2	133.1	135.7	130.3
72.5°	71.0	93.2	115.3	105.6	101.1
75°	54.1	78.9	90.4	81.6	78.9
77.5°	40.8	63.8	63.8	58.5	56.7
80°	28.4	48.8	42.6	37.3	34.6
82.5°	18.6	27.5	22.2	17.7	15.1
85°	9.8	10.7	6.2	5.3	4.5
87.5°	3.6	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)