

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: P732472

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732472
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-CP187-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

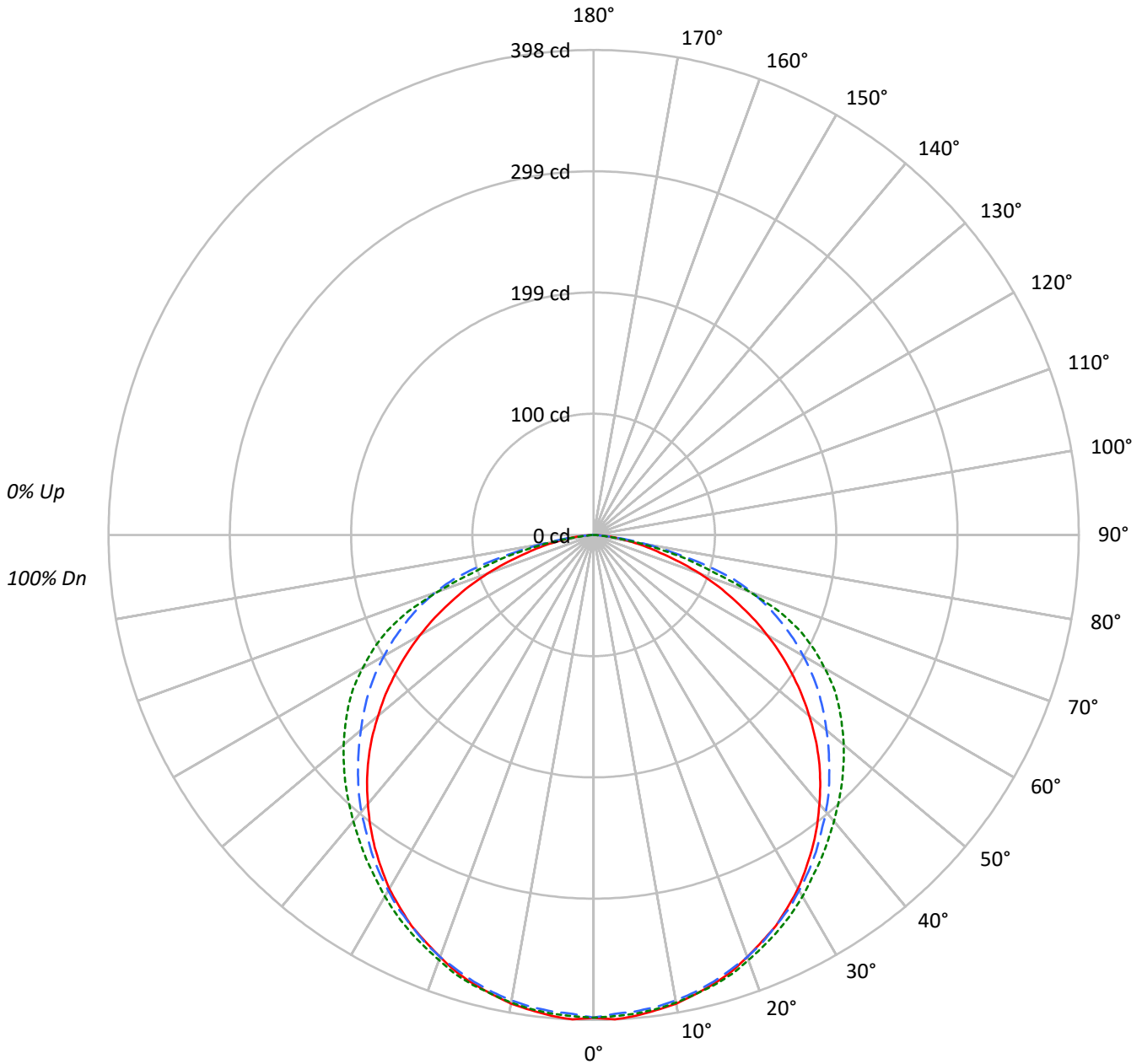
Lumens per Lamp: N/A
Luminaire Lumens: 1183.0 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1118	1118	1118
5°	1123	1112	1118
10°	1120	1112	1117
15°	1115	1109	1117
20°	1107	1107	1115
25°	1102	1102	1116
30°	1093	1099	1117
35°	1079	1095	1120
40°	1062	1093	1130
45°	1043	1091	1150
50°	1014	1095	1176
55°	977	1109	1209
60°	928	1121	1236
65°	858	1135	1252
70°	763	1144	1120
75°	615	1027	896
80°	480	722	585
85°	330	211	149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	3.2
10°-20°	107.6	9.1
20°-30°	163.8	13.8
30°-40°	199.5	16.9
40°-50°	211.7	17.9
50°-60°	199.8	16.9
60°-70°	161.3	13.6
70°-80°	87.5	7.4
80°-90°	14.2	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°	308.9	26.1
0°-40°	508.5	43.0
0°-60°	920.0	77.8
0°-90°	1183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	396	396	396	396	396	
5°	396	395	392	395	394	38
15°	381	380	380	382	382	108
25°	354	353	354	357	358	163
35°	313	315	318	324	325	196
45°	261	265	273	284	288	201
55°	199	207	225	240	246	177
65°	128	144	170	184	188	127
75°	56	82	94	85	82	62
85°	10	11	6	6	5	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	396.2	396.2	396.2	396.2	396.2
2.5°	398.0	396.2	393.4	396.2	395.3
5°	396.2	395.3	392.5	395.3	394.4
7.5°	393.4	393.4	390.7	392.5	392.5
10°	390.7	389.8	388.0	390.7	389.8
12.5°	386.0	385.1	384.2	386.9	386.0
15°	381.4	380.5	379.6	382.4	382.4
17.5°	375.8	374.9	374.0	377.8	377.8
20°	368.5	368.5	368.5	372.2	371.3
22.5°	361.1	361.1	362.0	365.8	364.9
25°	353.8	352.9	353.8	357.4	358.3
27.5°	344.5	345.4	346.3	350.0	350.9
30°	335.3	336.2	337.1	341.8	342.7
32.5°	324.2	326.0	327.8	333.4	333.4
35°	313.1	314.9	317.8	324.2	325.1
37.5°	301.1	302.9	306.7	314.0	315.8
40°	288.1	290.9	296.5	303.8	306.7
42.5°	275.2	278.9	285.4	293.7	297.4
45°	261.4	265.0	273.4	283.6	288.1
47.5°	246.6	251.2	261.4	274.3	278.0
50°	230.9	237.4	249.4	263.2	267.8
52.5°	215.2	222.6	237.4	252.1	256.8
55°	198.6	206.8	225.4	240.1	245.7
57.5°	181.9	191.2	212.4	228.1	233.7
60°	164.4	175.5	198.6	214.3	218.9
62.5°	146.8	159.7	184.8	200.4	204.1
65°	128.4	144.1	169.9	183.8	187.5
67.5°	110.8	129.3	155.2	165.3	165.3
70°	92.4	112.6	138.6	141.3	135.7
72.5°	73.9	97.0	120.1	109.9	105.3
75°	56.4	82.2	94.2	85.0	82.2
77.5°	42.5	66.5	66.5	60.9	59.1
80°	29.5	50.8	44.4	38.8	36.0
82.5°	19.4	28.6	23.1	18.5	15.7
85°	10.2	11.1	6.5	5.5	4.6
87.5°	3.7	1.8	0.9	1.8	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)