

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: P732598

Luminaire Tested: **14FCZ2-25-RDP-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732598
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: 14FCZ2-25-RDP-B2750-W2D-CP187-3500K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

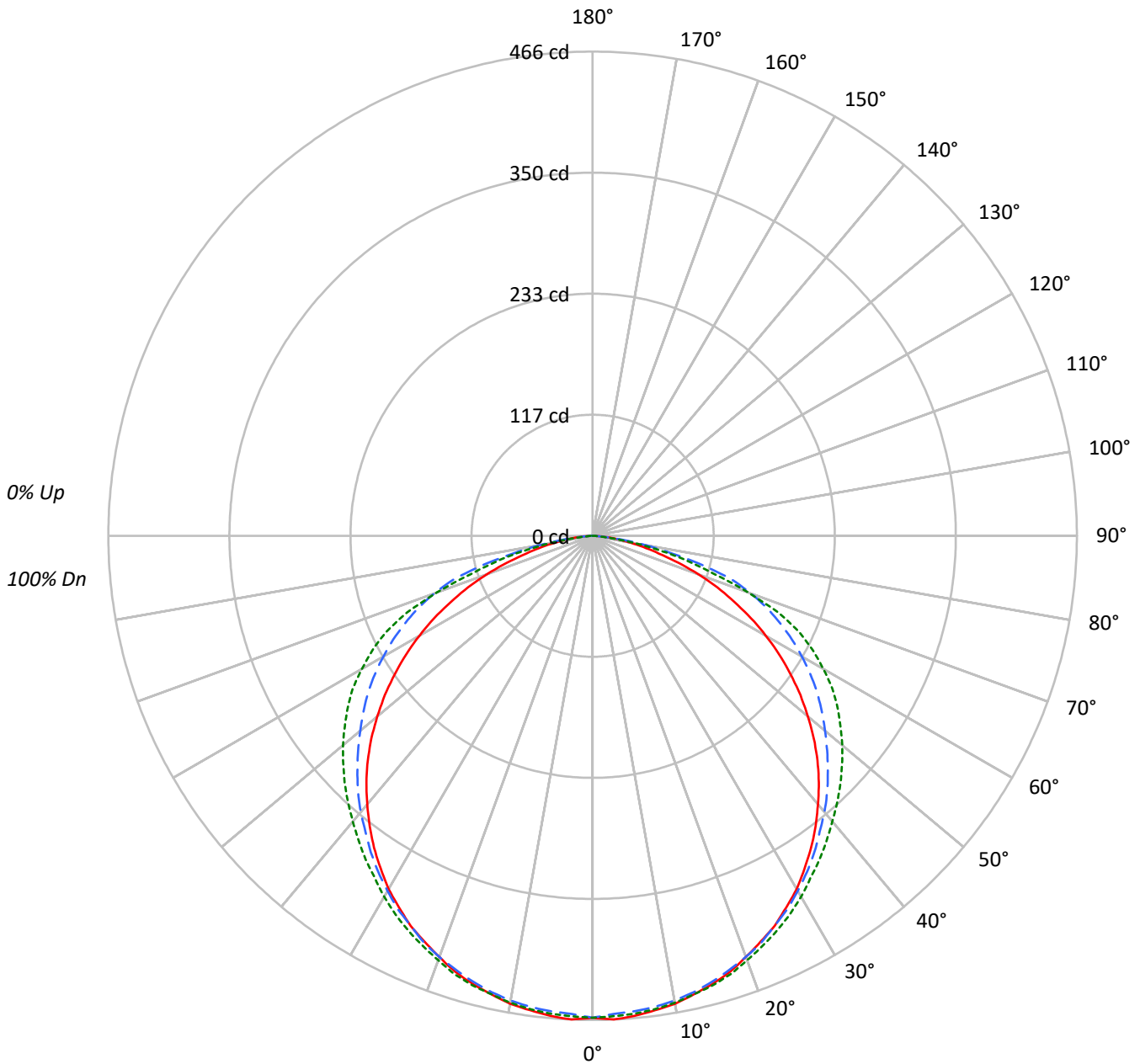
Lumens per Lamp: N/A
Luminaire Lumens: 1385.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
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°	1309	1309	1309
5°	1314	1302	1308
10°	1311	1302	1308
15°	1305	1299	1308
20°	1296	1296	1306
25°	1290	1290	1307
30°	1280	1286	1308
35°	1263	1282	1311
40°	1243	1279	1323
45°	1222	1278	1346
50°	1187	1282	1377
55°	1144	1299	1415
60°	1086	1313	1447
65°	1004	1328	1466
70°	892	1339	1311
75°	720	1203	1049
80°	562	845	684
85°	385	246	175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	3.2
10°-20°	126.0	9.1
20°-30°	191.8	13.8
30°-40°	233.6	16.9
40°-50°	247.9	17.9
50°-60°	233.9	16.9
60°-70°	188.9	13.6
70°-80°	102.5	7.4
80°-90°	16.6	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°	361.7	26.1
0°-40°	595.3	43.0
0°-60°	1077.1	77.8
0°-90°	1385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	464	464	464	464	464	
5°	464	463	460	463	462	44
15°	446	446	444	448	448	126
25°	414	413	414	418	420	191
35°	367	369	372	380	381	229
45°	306	310	320	332	337	236
55°	232	242	264	281	288	208
65°	150	169	199	215	220	149
75°	66	96	110	100	96	72
85°	12	13	8	6	5	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	463.9	463.9	463.9	463.9	463.9
2.5°	466.0	463.9	460.6	463.9	462.8
5°	463.9	462.8	459.5	462.8	461.8
7.5°	460.6	460.6	457.4	459.5	459.5
10°	457.4	456.3	454.2	457.4	456.3
12.5°	451.9	450.9	449.8	453.0	451.9
15°	446.5	445.5	444.4	447.7	447.7
17.5°	440.0	439.0	437.9	442.3	442.3
20°	431.4	431.4	431.4	435.8	434.7
22.5°	422.8	422.8	423.9	428.2	427.2
25°	414.2	413.1	414.2	418.4	419.5
27.5°	403.3	404.4	405.4	409.8	410.9
30°	392.6	393.6	394.7	400.1	401.2
32.5°	379.6	381.7	383.8	390.3	390.3
35°	366.6	368.7	372.0	379.6	380.6
37.5°	352.5	354.7	359.0	367.7	369.8
40°	337.3	340.6	347.1	355.7	359.0
42.5°	322.2	326.6	334.1	343.8	348.2
45°	306.0	310.3	320.1	332.0	337.3
47.5°	288.7	294.1	306.0	321.1	325.5
50°	270.4	277.9	292.0	308.1	313.6
52.5°	252.0	260.6	277.9	295.2	300.6
55°	232.5	242.1	263.9	281.1	287.6
57.5°	213.0	223.9	248.6	267.1	273.6
60°	192.4	205.4	232.5	250.9	256.3
62.5°	171.9	187.0	216.3	234.6	239.0
65°	150.3	168.7	198.9	215.2	219.5
67.5°	129.8	151.4	181.7	193.5	193.5
70°	108.1	131.9	162.2	165.4	158.9
72.5°	86.5	113.6	140.6	128.7	123.3
75°	66.0	96.2	110.3	99.5	96.2
77.5°	49.7	77.8	77.8	71.3	69.2
80°	34.6	59.5	52.0	45.5	42.1
82.5°	22.7	33.5	27.0	21.6	18.4
85°	11.9	13.0	7.6	6.5	5.4
87.5°	4.4	2.1	1.1	2.1	1.1
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)