

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: P732604

Luminaire Tested: **14FCZ2-25-RDP-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732604
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-CP250-4000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RDP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

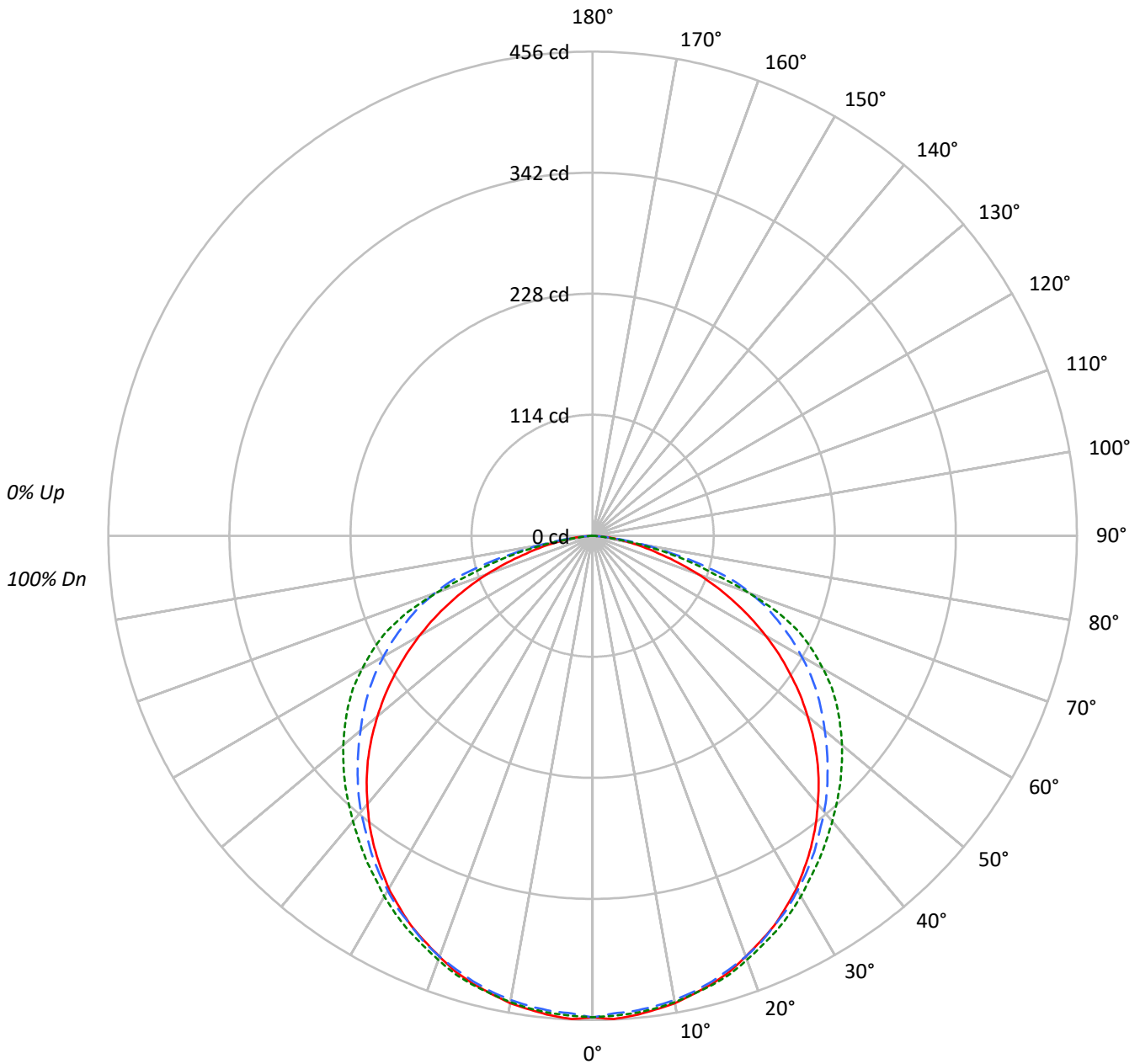
Lumens per Lamp: N/A
Luminaire Lumens: 1354.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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°	1280	1280	1280
5°	1285	1273	1279
10°	1281	1273	1279
15°	1276	1269	1279
20°	1267	1267	1277
25°	1261	1261	1277
30°	1251	1258	1278
35°	1235	1253	1282
40°	1215	1250	1293
45°	1194	1249	1317
50°	1161	1253	1346
55°	1119	1270	1384
60°	1062	1283	1415
65°	981	1299	1433
70°	872	1309	1283
75°	703	1176	1026
80°	549	826	670
85°	379	240	172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	3.2
10°-20°	123.1	9.1
20°-30°	187.5	13.8
30°-40°	228.4	16.9
40°-50°	242.3	17.9
50°-60°	228.7	16.9
60°-70°	184.6	13.6
70°-80°	100.2	7.4
80°-90°	16.2	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°	353.6	26.1
0°-40°	582.0	43.0
0°-60°	1053.0	77.8
0°-90°	1354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	454	452	449	452	451	43
15°	436	436	434	438	438	123
25°	405	404	405	409	410	186
35°	358	360	364	371	372	224
45°	299	303	313	325	330	230
55°	227	237	258	275	281	203
65°	147	165	194	210	215	146
75°	64	94	108	97	94	70
85°	12	13	7	6	5	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	453.5	453.5	453.5	453.5	453.5
2.5°	455.6	453.5	450.3	453.5	452.5
5°	453.5	452.5	449.2	452.5	451.4
7.5°	450.3	450.3	447.1	449.2	449.2
10°	447.1	446.1	444.0	447.1	446.1
12.5°	441.8	440.8	439.8	442.9	441.8
15°	436.5	435.5	434.4	437.7	437.7
17.5°	430.2	429.1	428.1	432.4	432.4
20°	421.7	421.7	421.7	426.0	425.0
22.5°	413.3	413.3	414.4	418.6	417.6
25°	404.9	403.9	404.9	409.1	410.1
27.5°	394.3	395.3	396.4	400.6	401.7
30°	383.8	384.8	385.9	391.2	392.2
32.5°	371.1	373.2	375.2	381.6	381.6
35°	358.4	360.5	363.7	371.1	372.1
37.5°	344.7	346.7	351.0	359.4	361.5
40°	329.8	333.0	339.3	347.8	351.0
42.5°	315.0	319.3	326.6	336.1	340.4
45°	299.2	303.3	312.9	324.6	329.8
47.5°	282.2	287.5	299.2	313.9	318.2
50°	264.3	271.7	285.4	301.2	306.6
52.5°	246.3	254.7	271.7	288.6	293.9
55°	227.3	236.7	258.0	274.8	281.2
57.5°	208.2	218.8	243.1	261.1	267.4
60°	188.1	200.8	227.3	245.3	250.6
62.5°	168.1	182.8	211.5	229.3	233.6
65°	146.9	164.9	194.5	210.4	214.6
67.5°	126.8	148.0	177.6	189.2	189.2
70°	105.7	128.9	158.6	161.7	155.4
72.5°	84.6	111.0	137.5	125.8	120.5
75°	64.5	94.1	107.8	97.3	94.1
77.5°	48.6	76.1	76.1	69.7	67.6
80°	33.8	58.2	50.8	44.4	41.2
82.5°	22.2	32.8	26.4	21.1	18.0
85°	11.7	12.7	7.4	6.3	5.3
87.5°	4.3	2.1	1.0	2.1	1.0
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)