

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: P732581

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-HRP-B2750-W2D-CP375-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

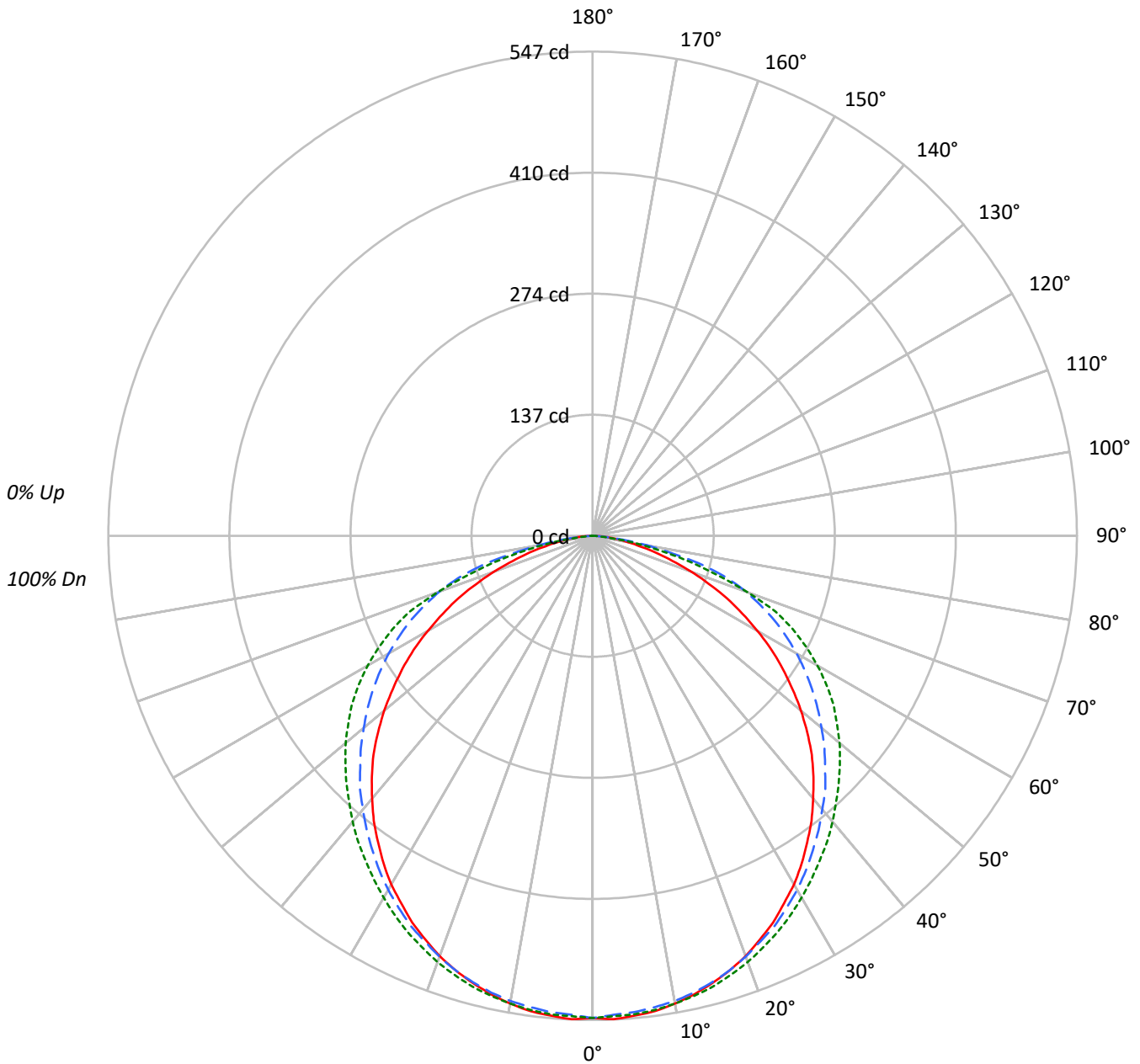
Lumens per Lamp: N/A
Luminaire Lumens: 1604.0 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732581

CATALOG NUMBER: 14FCZ2-25-HRP-B2750-W2D-CP375-2700K

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	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1538	1538	1538
5°	1542	1531	1538
10°	1538	1530	1538
15°	1529	1526	1540
20°	1518	1520	1539
25°	1502	1514	1539
30°	1483	1505	1538
35°	1456	1494	1542
40°	1427	1487	1553
45°	1397	1482	1570
50°	1349	1482	1599
55°	1291	1489	1633
60°	1213	1501	1655
65°	1119	1516	1664
70°	975	1519	1532
75°	804	1415	1238
80°	631	1016	827
85°	492	392	194



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	3.2
10°-20°	148.0	9.2
20°-30°	224.7	14.0
30°-40°	272.3	17.0
40°-50°	286.9	17.9
50°-60°	267.9	16.7
60°-70°	214.1	13.3
70°-80°	117.8	7.3
80°-90°	20.8	1.3
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°	424.2	26.4
0°-40°	696.5	43.4
0°-60°	1251.3	78.0
0°-90°	1604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	545	545	545	545	545	
5°	544	543	540	544	543	52
15°	523	523	522	527	527	148
25°	482	483	486	493	494	222
35°	423	427	434	445	447	264
45°	350	357	371	388	393	269
55°	262	275	303	324	332	234
65°	168	189	227	246	249	165
75°	74	105	130	116	114	79
85°	15	19	12	8	6	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	544.7	544.7	544.7	544.7	544.7
2.5°	546.7	545.2	541.7	544.7	543.3
5°	544.3	542.7	540.2	543.8	542.7
7.5°	541.7	539.7	537.1	541.2	540.2
10°	536.6	535.1	533.7	537.1	536.6
12.5°	530.6	530.1	528.6	532.7	532.2
15°	523.1	523.1	522.1	527.0	527.0
17.5°	514.9	514.4	514.9	520.5	520.0
20°	505.3	505.3	505.9	512.5	512.5
22.5°	493.7	494.2	495.8	503.8	503.3
25°	482.2	483.1	486.2	493.2	494.2
27.5°	468.1	470.6	474.1	482.6	483.6
30°	454.9	456.5	461.9	470.1	472.0
32.5°	439.4	442.3	448.4	457.5	460.0
35°	422.6	426.7	433.7	444.8	447.4
37.5°	406.0	409.6	419.2	430.7	435.3
40°	387.4	393.4	403.5	416.6	421.6
42.5°	369.2	375.3	388.9	402.5	407.1
45°	350.0	356.6	371.2	387.9	393.4
47.5°	328.8	336.5	355.1	372.7	378.7
50°	307.1	316.7	337.4	357.2	364.2
52.5°	284.5	296.5	320.3	340.9	347.6
55°	262.3	275.3	302.6	323.8	331.9
57.5°	239.6	253.8	284.5	308.6	313.2
60°	214.8	232.1	265.8	286.9	293.1
62.5°	190.7	210.4	246.6	266.8	271.9
65°	167.5	188.7	227.0	245.6	249.2
67.5°	142.2	167.5	205.3	222.5	223.4
70°	118.1	147.3	184.1	192.1	185.6
72.5°	94.3	125.6	159.4	152.8	147.3
75°	73.7	105.4	129.7	116.5	113.5
77.5°	54.5	86.3	92.8	85.8	80.2
80°	38.8	68.0	62.5	53.5	50.9
82.5°	26.7	42.9	34.3	26.7	23.2
85°	15.2	19.1	12.1	7.5	6.0
87.5°	6.5	4.6	2.6	2.0	2.0
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)