

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: P732600

Luminaire Tested: **14FCZ2-25-RDP-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732600
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-CP187-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

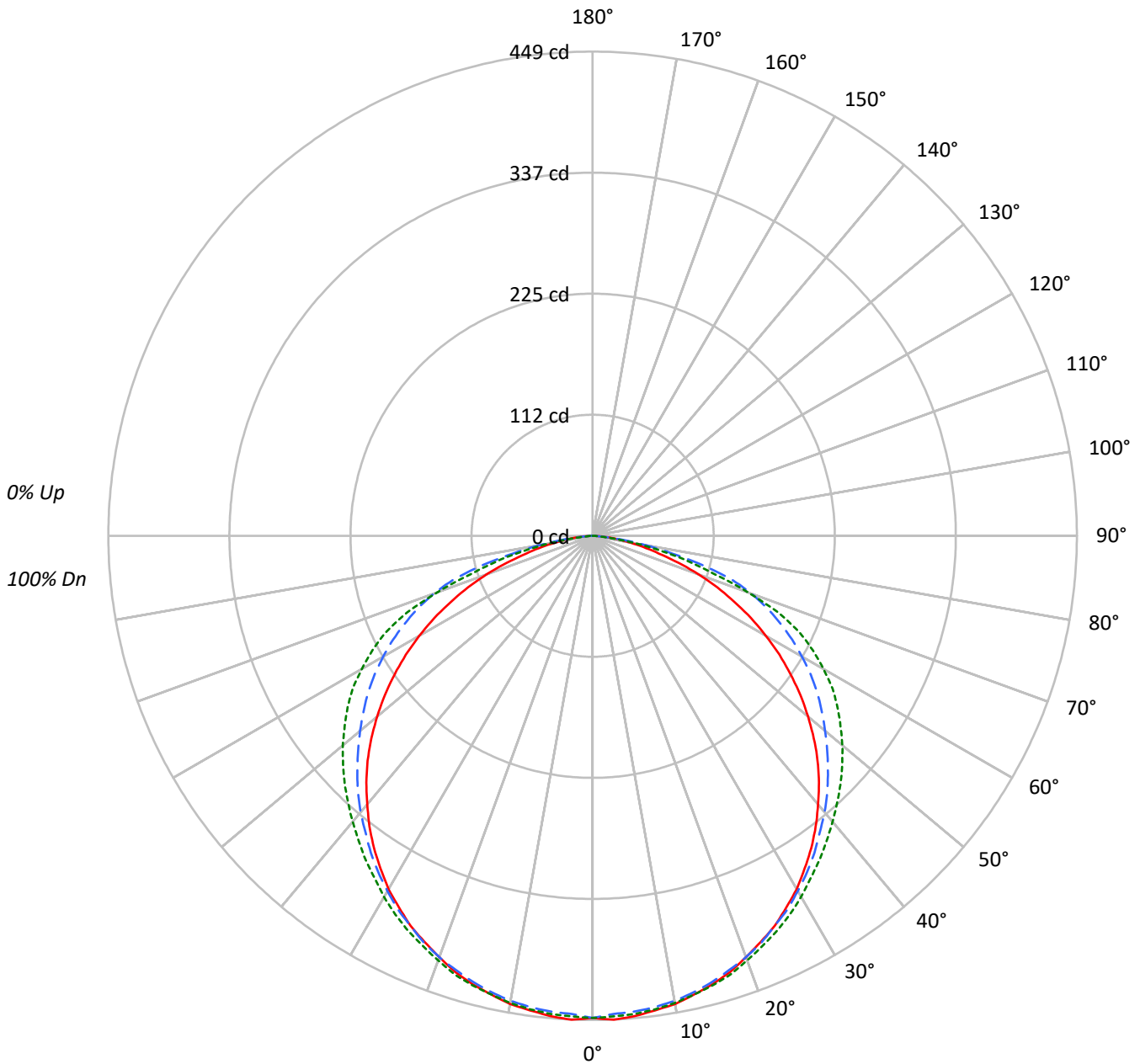
Lumens per Lamp: N/A
Luminaire Lumens: 1335.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1262	1262	1262
5°	1267	1255	1261
10°	1264	1255	1261
15°	1258	1252	1261
20°	1249	1249	1259
25°	1243	1243	1259
30°	1233	1240	1260
35°	1218	1236	1264
40°	1198	1233	1275
45°	1178	1231	1298
50°	1144	1236	1327
55°	1103	1252	1364
60°	1047	1265	1395
65°	968	1281	1413
70°	860	1291	1264
75°	694	1159	1011
80°	541	814	660
85°	372	236	168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	3.2
10°-20°	121.4	9.1
20°-30°	184.9	13.8
30°-40°	225.2	16.9
40°-50°	238.9	17.9
50°-60°	225.5	16.9
60°-70°	182.1	13.6
70°-80°	98.7	7.4
80°-90°	16.0	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°	348.6	26.1
0°-40°	573.8	43.0
0°-60°	1038.2	77.8
0°-90°	1335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	447	447	447	447	447	
5°	447	446	443	446	445	42
15°	430	429	428	432	432	121
25°	399	398	399	403	404	184
35°	353	355	359	366	367	221
45°	295	299	308	320	325	227
55°	224	233	254	271	277	200
65°	145	163	192	208	212	144
75°	64	93	106	96	93	69
85°	12	12	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°	447.1	447.1	447.1	447.1	447.1
2.5°	449.2	447.1	443.9	447.1	446.1
5°	447.1	446.1	442.9	446.1	445.1
7.5°	443.9	443.9	440.9	442.9	442.9
10°	440.9	439.8	437.8	440.9	439.8
12.5°	435.6	434.6	433.6	436.7	435.6
15°	430.4	429.4	428.4	431.5	431.5
17.5°	424.1	423.1	422.1	426.3	426.3
20°	415.8	415.8	415.8	420.0	419.0
22.5°	407.5	407.5	408.5	412.8	411.7
25°	399.2	398.2	399.2	403.3	404.3
27.5°	388.7	389.8	390.8	395.0	396.0
30°	378.4	379.4	380.4	385.7	386.7
32.5°	365.9	367.9	370.0	376.2	376.2
35°	353.4	355.4	358.6	365.9	366.9
37.5°	339.8	341.9	346.1	354.4	356.4
40°	325.1	328.3	334.6	342.9	346.1
42.5°	310.6	314.8	322.1	331.4	335.6
45°	295.0	299.1	308.5	320.0	325.1
47.5°	278.2	283.5	295.0	309.5	313.8
50°	260.6	267.9	281.4	297.0	302.3
52.5°	242.9	251.2	267.9	284.5	289.7
55°	224.1	233.4	254.4	271.0	277.2
57.5°	205.3	215.8	239.7	257.4	263.7
60°	185.5	198.0	224.1	241.8	247.1
62.5°	165.7	180.3	208.5	226.1	230.3
65°	144.9	162.6	191.8	207.5	211.6
67.5°	125.1	145.9	175.1	186.5	186.5
70°	104.2	127.1	156.4	159.4	153.2
72.5°	83.4	109.5	135.5	124.0	118.8
75°	63.6	92.7	106.3	95.9	92.7
77.5°	47.9	75.0	75.0	68.7	66.7
80°	33.3	57.4	50.1	43.8	40.6
82.5°	21.8	32.3	26.1	20.8	17.8
85°	11.5	12.5	7.3	6.3	5.2
87.5°	4.2	2.0	1.0	2.0	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)