

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: P732596

Luminaire Tested: **14FCZ2-25-RDP-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732596
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-CP187-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

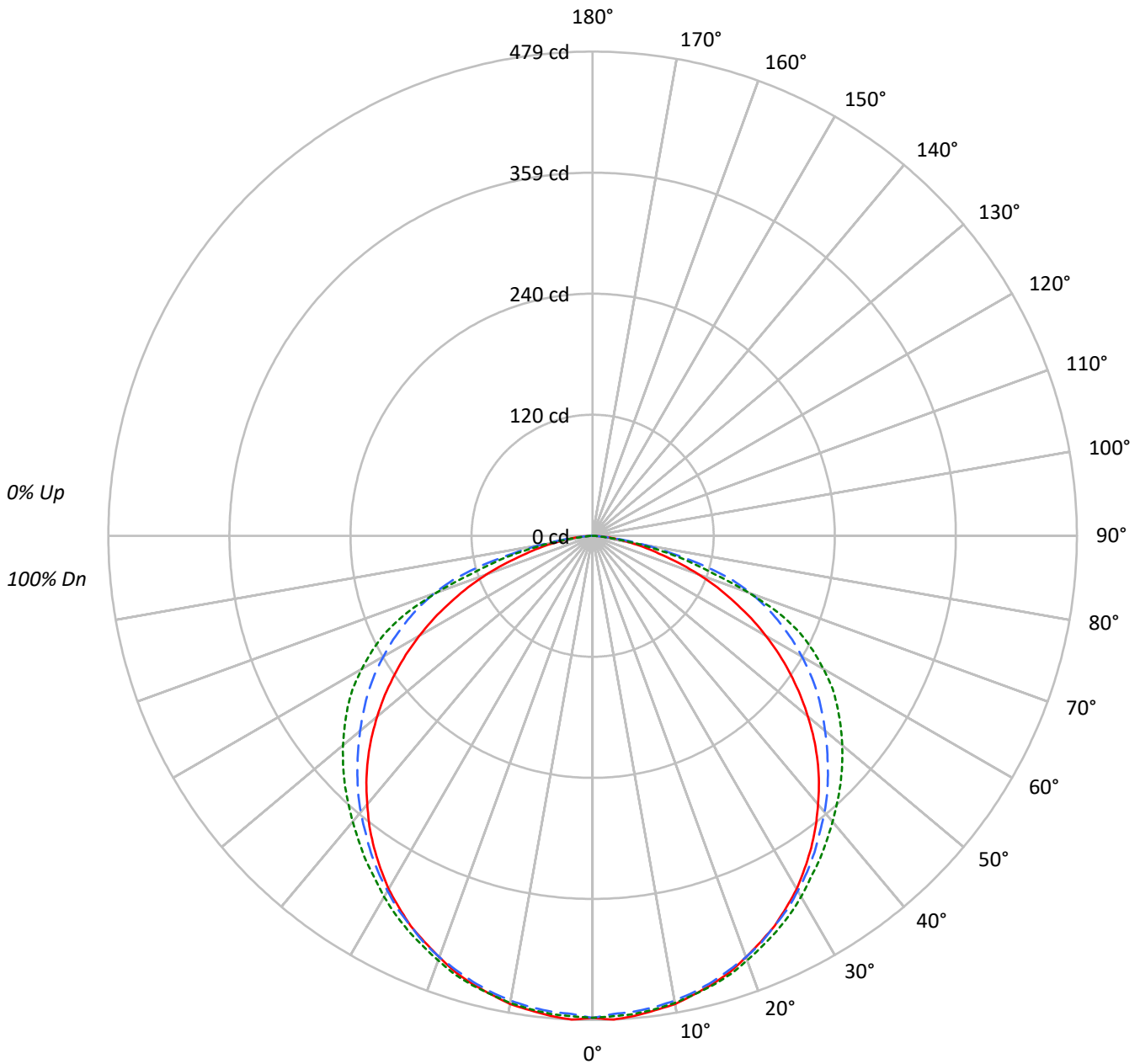
Lumens per Lamp: N/A
Luminaire Lumens: 1424.0 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732596

CATALOG NUMBER: 14FCZ2-25-RDP-B2750-W2D-CP187-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P732596

CATALOG NUMBER: 14FCZ2-25-RDP-B2750-W2D-CP187-2700K

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°	1346	1346	1346
5°	1351	1339	1345
10°	1348	1339	1345
15°	1342	1335	1345
20°	1333	1333	1343
25°	1326	1326	1343
30°	1315	1323	1344
35°	1299	1318	1349
40°	1278	1315	1360
45°	1256	1314	1384
50°	1221	1318	1416
55°	1176	1335	1455
60°	1117	1349	1488
65°	1032	1366	1507
70°	918	1377	1349
75°	741	1237	1079
80°	579	868	704
85°	398	253	181



TEST NUMBER: P732596

CATALOG NUMBER: 14FCZ2-25-RDP-B2750-W2D-CP187-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	3.2
10°-20°	129.5	9.1
20°-30°	197.2	13.8
30°-40°	240.2	16.9
40°-50°	254.8	17.9
50°-60°	240.5	16.9
60°-70°	194.2	13.6
70°-80°	105.3	7.4
80°-90°	17.1	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°	371.9	26.1
0°-40°	612.1	43.0
0°-60°	1107.4	77.8
0°-90°	1424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	477	477	477	477	477	
5°	477	476	472	476	475	45
15°	459	458	457	460	460	130
25°	426	425	426	430	431	196
35°	377	379	382	390	391	236
45°	315	319	329	341	347	242
55°	239	249	271	289	296	214
65°	154	174	204	221	226	153
75°	68	99	113	102	99	74
85°	12	13	8	7	6	16
90°	0	0	0	0	0	



TEST NUMBER: P732596

CATALOG NUMBER: 14FCZ2-25-RDP-B2750-W2D-CP187-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	476.9	476.9	476.9	476.9	476.9
2.5°	479.1	476.9	473.5	476.9	475.8
5°	476.9	475.8	472.4	475.8	474.8
7.5°	473.5	473.5	470.3	472.4	472.4
10°	470.3	469.2	467.0	470.3	469.2
12.5°	464.7	463.6	462.5	465.8	464.7
15°	459.1	458.0	456.9	460.3	460.3
17.5°	452.4	451.3	450.2	454.7	454.7
20°	443.6	443.6	443.6	448.0	447.0
22.5°	434.7	434.7	435.8	440.3	439.2
25°	425.8	424.7	425.8	430.2	431.3
27.5°	414.7	415.8	416.8	421.3	422.4
30°	403.6	404.7	405.8	411.4	412.5
32.5°	390.3	392.5	394.6	401.3	401.3
35°	376.9	379.1	382.5	390.3	391.4
37.5°	362.5	364.7	369.2	378.0	380.2
40°	346.8	350.2	356.9	365.7	369.2
42.5°	331.3	335.8	343.5	353.5	358.0
45°	314.6	319.0	329.1	341.4	346.8
47.5°	296.8	302.4	314.6	330.2	334.7
50°	278.0	285.8	300.2	316.8	322.4
52.5°	259.0	267.9	285.8	303.5	309.1
55°	239.0	249.0	271.3	289.0	295.7
57.5°	219.0	230.2	255.6	274.6	281.3
60°	197.9	211.2	239.0	258.0	263.5
62.5°	176.7	192.3	222.4	241.2	245.7
65°	154.5	173.5	204.5	221.3	225.7
67.5°	133.4	155.6	186.8	199.0	199.0
70°	111.2	135.6	166.8	170.1	163.4
72.5°	89.0	116.8	144.6	132.3	126.7
75°	67.9	98.9	113.4	102.3	98.9
77.5°	51.1	80.0	80.0	73.3	71.1
80°	35.6	61.2	53.4	46.7	43.3
82.5°	23.3	34.5	27.8	22.2	18.9
85°	12.3	13.4	7.8	6.7	5.6
87.5°	4.5	2.2	1.1	2.2	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)