

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: P732525

Luminaire Tested: **14FCZ2-20-SQR-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-SQR-B2750-W2D-CP187-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SQR LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

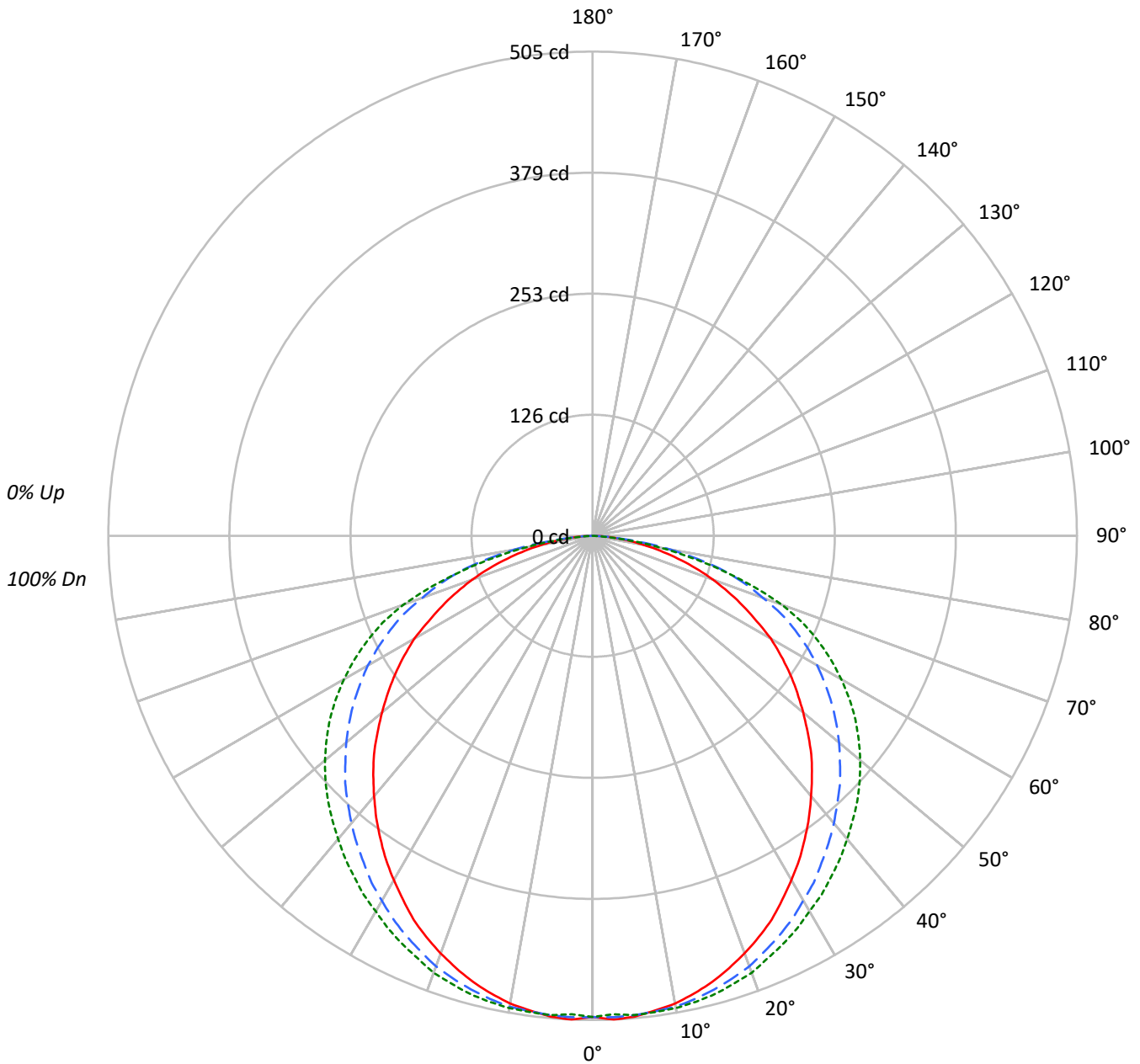
Lumens per Lamp: N/A
Luminaire Lumens: 1588.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48																			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41																			
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35																			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1417	1417	1417
5°	1426	1422	1422
10°	1420	1429	1434
15°	1408	1431	1446
20°	1392	1435	1457
25°	1376	1433	1463
30°	1351	1432	1474
35°	1329	1434	1495
40°	1306	1442	1521
45°	1288	1457	1559
50°	1258	1472	1599
55°	1237	1497	1646
60°	1211	1528	1690
65°	1155	1556	1733
70°	1096	1558	1731
75°	1003	1554	1528
80°	858	1326	1183
85°	674	751	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	3.0
10°-20°	137.8	8.7
20°-30°	210.7	13.3
30°-40°	258.2	16.3
40°-50°	277.7	17.5
50°-60°	266.9	16.8
60°-70°	222.2	14.0
70°-80°	136.4	8.6
80°-90°	30.4	1.9
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°	396.1	24.9
0°-40°	654.4	41.2
0°-60°	1199.0	75.5
0°-90°	1588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1588.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	502	502	502	502	502	
5°	503	499	502	502	502	48
15°	482	480	490	493	495	136
25°	442	446	460	466	470	203
35°	386	395	416	427	434	241
45°	323	337	365	382	390	248
55°	251	273	304	325	334	224
65°	173	199	233	252	259	171
75°	92	120	142	142	140	97
85°	21	31	23	16	14	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	501.9	501.9	501.9	501.9	501.9
2.5°	505.0	500.2	502.6	501.9	499.4
5°	503.4	498.7	501.9	501.9	501.9
7.5°	499.4	495.4	500.2	501.0	501.0
10°	495.4	492.2	498.7	499.4	500.2
12.5°	489.0	486.6	494.7	496.2	497.8
15°	481.8	480.2	489.8	493.0	494.7
17.5°	473.0	473.8	484.2	488.2	489.8
20°	463.4	465.8	477.8	481.8	485.0
22.5°	453.0	456.2	469.0	473.8	477.0
25°	441.8	445.8	460.2	465.8	469.8
27.5°	428.1	434.6	450.6	457.8	461.8
30°	414.6	421.8	439.4	448.2	452.2
32.5°	401.0	409.0	429.0	437.8	444.2
35°	385.8	395.4	416.2	427.4	433.8
37.5°	370.6	381.8	404.2	416.9	424.1
40°	354.5	366.6	391.3	405.7	412.9
42.5°	338.5	352.2	377.8	393.8	401.7
45°	322.6	337.0	364.9	381.8	390.5
47.5°	304.2	321.8	349.7	368.9	377.8
50°	286.5	305.7	335.3	355.4	364.2
52.5°	268.9	289.0	320.1	341.0	349.7
55°	251.3	272.9	304.2	324.9	334.5
57.5°	232.9	255.3	287.3	308.9	317.7
60°	214.5	237.7	270.6	290.5	299.3
62.5°	192.8	220.1	252.2	272.1	280.1
65°	172.9	199.3	232.9	252.2	259.4
67.5°	152.9	180.1	212.9	230.5	236.9
70°	132.8	160.1	188.8	205.7	209.7
72.5°	112.9	140.1	167.3	176.9	175.3
75°	92.0	120.1	142.5	141.7	140.1
77.5°	72.1	99.2	112.9	107.2	104.9
80°	52.8	79.3	81.6	76.1	72.8
82.5°	36.0	56.8	51.2	44.8	41.6
85°	20.8	31.2	23.2	16.0	13.6
87.5°	8.8	8.0	2.4	2.4	1.6
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)