

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: P732637

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732637
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: 14FCZ2-25-SQR-B2750-W2D-CA08-3000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SQR LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

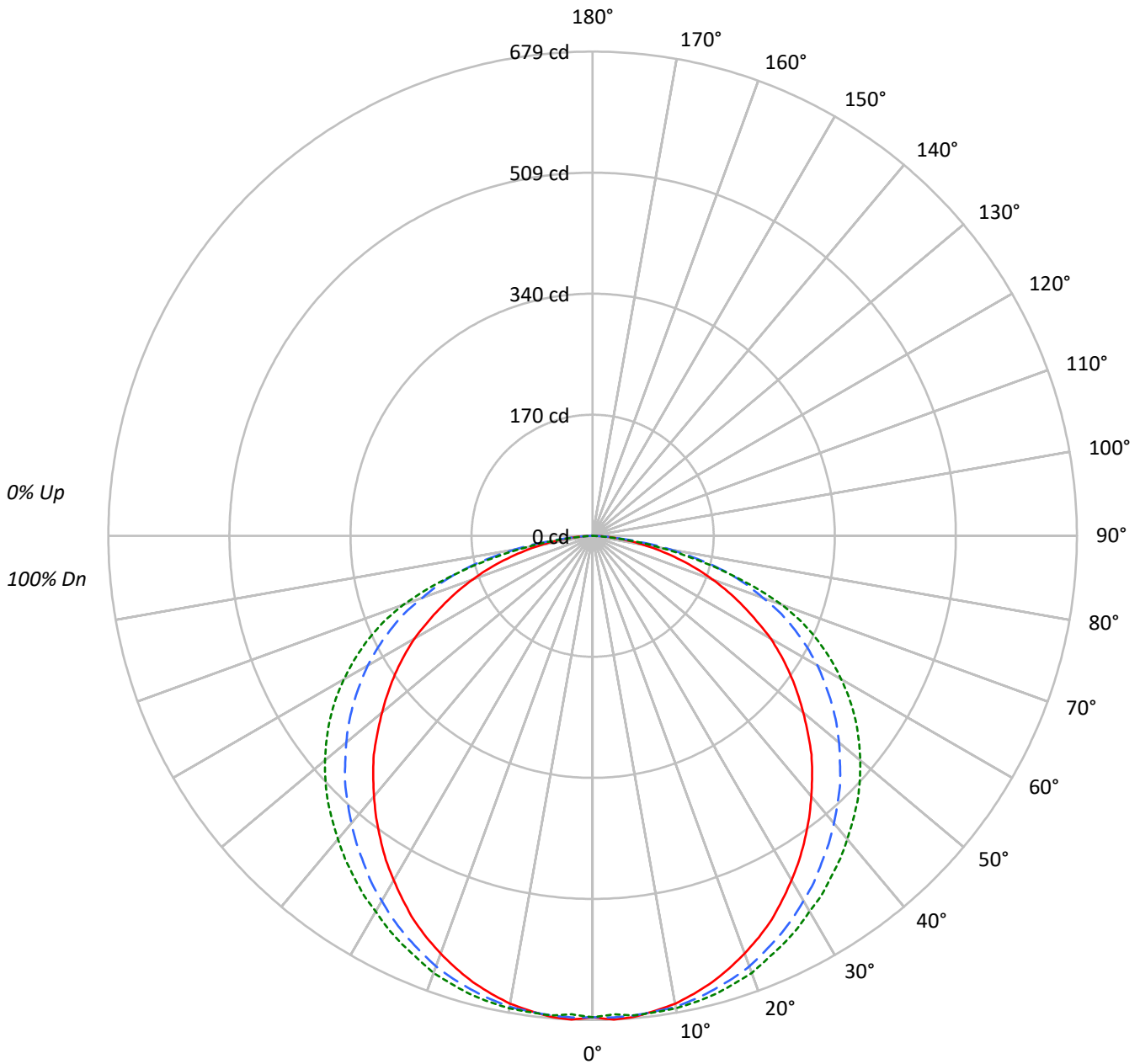
Lumens per Lamp: N/A
Luminaire Lumens: 2136.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	1906	1906	1906
5°	1919	1913	1913
10°	1910	1922	1928
15°	1894	1925	1944
20°	1872	1931	1960
25°	1851	1928	1968
30°	1818	1927	1982
35°	1788	1929	2011
40°	1757	1940	2047
45°	1732	1960	2097
50°	1692	1980	2151
55°	1663	2013	2215
60°	1629	2054	2273
65°	1553	2092	2330
70°	1475	2096	2327
75°	1350	2091	2055
80°	1154	1785	1593
85°	907	1010	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	3.0
10°-20°	185.3	8.7
20°-30°	283.4	13.3
30°-40°	347.4	16.3
40°-50°	373.6	17.5
50°-60°	359.0	16.8
60°-70°	298.9	14.0
70°-80°	183.5	8.6
80°-90°	40.9	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°	532.8	24.9
0°-40°	880.2	41.2
0°-60°	1612.7	75.5
0°-90°	2136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	677	671	675	675	675	64
15°	648	646	659	663	665	183
25°	594	600	619	627	632	273
35°	519	532	560	575	584	325
45°	434	453	491	514	525	334
55°	338	367	409	437	450	302
65°	232	268	313	339	349	230
75°	124	162	192	191	188	131
85°	28	42	31	22	18	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	675.1	675.1	675.1	675.1	675.1
2.5°	679.2	672.8	676.1	675.1	671.8
5°	677.1	670.7	675.1	675.1	675.1
7.5°	671.8	666.4	672.8	673.9	673.9
10°	666.4	662.1	670.7	671.8	672.8
12.5°	657.8	654.5	665.4	667.5	669.6
15°	648.1	646.0	658.8	663.1	665.4
17.5°	636.3	637.3	651.3	656.7	658.8
20°	623.3	626.6	642.7	648.1	652.4
22.5°	609.3	613.6	630.9	637.3	641.6
25°	594.2	599.6	619.0	626.6	632.0
27.5°	575.9	584.5	606.1	615.8	621.2
30°	557.7	567.4	591.1	602.9	608.2
32.5°	539.3	550.1	577.1	588.9	597.5
35°	518.9	531.9	559.8	574.8	583.5
37.5°	498.5	513.5	543.7	560.8	570.5
40°	476.8	493.1	526.4	545.8	555.4
42.5°	455.4	473.7	508.2	529.6	540.4
45°	433.9	453.3	490.9	513.5	525.3
47.5°	409.1	432.8	470.4	496.2	508.2
50°	385.4	411.2	451.0	478.0	489.8
52.5°	361.7	388.7	430.6	458.6	470.4
55°	338.0	367.1	409.1	437.0	450.0
57.5°	313.2	343.4	386.5	415.5	427.3
60°	288.5	319.8	363.9	390.8	402.6
62.5°	259.4	296.1	339.2	366.0	376.8
65°	232.5	268.0	313.2	339.2	348.9
67.5°	205.7	242.2	286.4	310.1	318.6
70°	178.7	215.4	254.0	276.7	282.0
72.5°	151.8	188.4	225.1	237.9	235.8
75°	123.8	161.5	191.7	190.6	188.4
77.5°	96.9	133.5	151.8	144.2	141.1
80°	71.0	106.6	109.8	102.3	98.0
82.5°	48.5	76.4	68.9	60.3	55.9
85°	28.0	41.9	31.2	21.5	18.3
87.5°	11.8	10.7	3.3	3.3	2.1
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)