

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: P732638

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732638
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-CA08-3500K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SQR LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

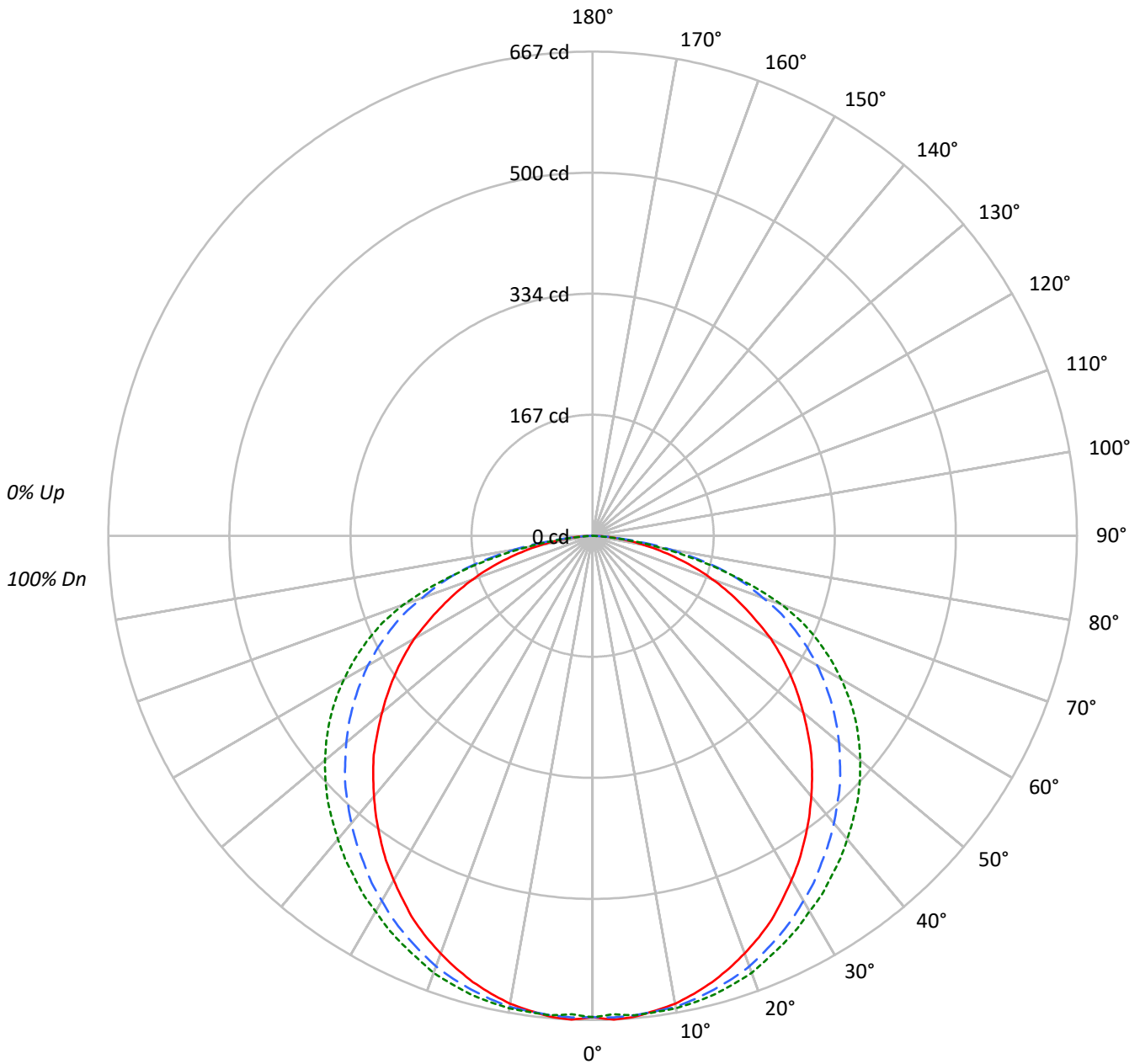
Lumens per Lamp: N/A
Luminaire Lumens: 2098.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1871	1871	1871
5°	1885	1879	1879
10°	1876	1888	1894
15°	1860	1891	1910
20°	1839	1896	1925
25°	1818	1894	1933
30°	1785	1892	1947
35°	1756	1895	1975
40°	1726	1905	2010
45°	1701	1924	2060
50°	1663	1945	2113
55°	1634	1977	2175
60°	1599	2018	2232
65°	1525	2055	2289
70°	1448	2059	2286
75°	1326	2053	2018
80°	1133	1752	1564
85°	891	991	583



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	3.0
10°-20°	182.0	8.7
20°-30°	278.3	13.3
30°-40°	341.2	16.3
40°-50°	366.9	17.5
50°-60°	352.6	16.8
60°-70°	293.6	14.0
70°-80°	180.2	8.6
80°-90°	40.1	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°	523.4	24.9
0°-40°	864.5	41.2
0°-60°	1584.0	75.5
0°-90°	2098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	663	663	663	663	663	
5°	665	659	663	663	663	63
15°	636	634	647	651	654	179
25°	584	589	608	615	621	268
35°	510	522	550	565	573	319
45°	426	445	482	504	516	328
55°	332	360	402	429	442	297
65°	228	263	308	333	343	226
75°	122	159	188	187	185	129
85°	28	41	31	21	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	663.0	663.0	663.0	663.0	663.0
2.5°	667.2	660.9	664.1	663.0	659.8
5°	665.1	658.8	663.0	663.0	663.0
7.5°	659.8	654.6	660.9	661.9	661.9
10°	654.6	650.3	658.8	659.8	660.9
12.5°	646.1	642.8	653.5	655.6	657.6
15°	636.5	634.5	647.1	651.3	653.5
17.5°	625.0	626.0	639.8	645.0	647.1
20°	612.2	615.4	631.3	636.5	640.8
22.5°	598.5	602.7	619.7	626.0	630.2
25°	583.7	588.9	608.0	615.4	620.7
27.5°	565.6	574.1	595.4	604.9	610.2
30°	547.8	557.3	580.6	592.1	597.4
32.5°	529.7	540.3	566.8	578.4	586.9
35°	509.7	522.4	549.8	564.6	573.1
37.5°	489.6	504.4	534.0	550.8	560.4
40°	468.4	484.3	517.0	536.0	545.6
42.5°	447.3	465.3	499.1	520.2	530.8
45°	426.2	445.2	482.1	504.4	516.0
47.5°	401.8	425.1	462.1	487.4	499.1
50°	378.6	403.9	443.0	469.5	481.1
52.5°	355.3	381.8	422.9	450.5	462.1
55°	332.0	360.5	401.8	429.2	442.0
57.5°	307.7	337.2	379.6	408.1	419.7
60°	283.3	314.1	357.4	383.8	395.4
62.5°	254.8	290.8	333.1	359.5	370.1
65°	228.4	263.3	307.7	333.1	342.7
67.5°	202.0	237.9	281.3	304.6	312.9
70°	175.5	211.5	249.5	271.8	277.0
72.5°	149.1	185.0	221.1	233.7	231.6
75°	121.6	158.7	188.2	187.2	185.0
77.5°	95.2	131.1	149.1	141.7	138.6
80°	69.7	104.7	107.8	100.5	96.2
82.5°	47.6	75.0	67.7	59.2	54.9
85°	27.5	41.2	30.6	21.1	18.0
87.5°	11.6	10.6	3.2	3.2	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)