

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: P732621

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-S-B2750-W2D-CP187-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SMOOTH LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

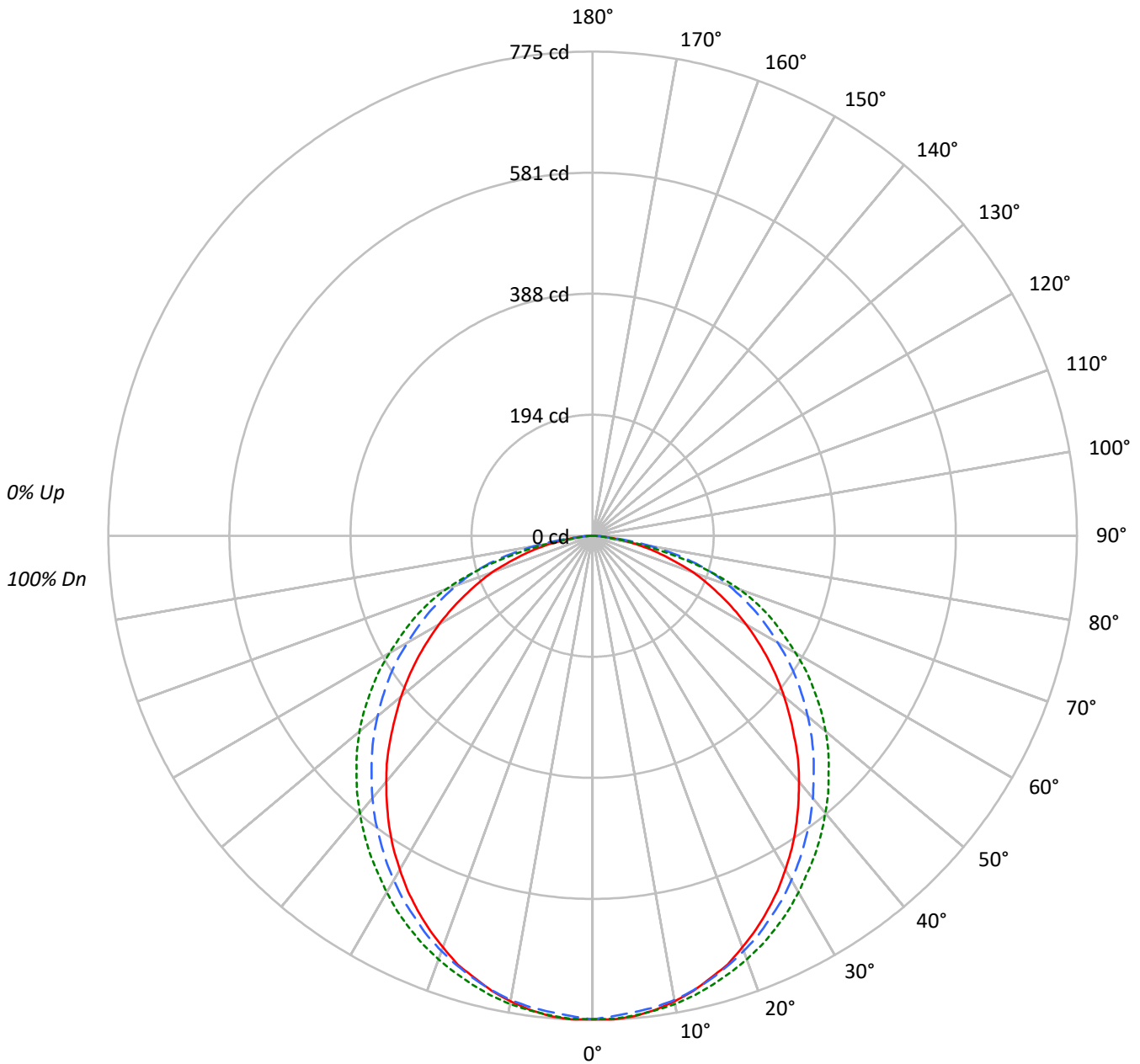
Lumens per Lamp: N/A
Luminaire Lumens: 2168.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2184	2184	2184
5°	2187	2169	2184
10°	2169	2163	2181
15°	2139	2146	2174
20°	2105	2125	2167
25°	2062	2099	2159
30°	2011	2074	2148
35°	1956	2045	2141
40°	1893	2020	2135
45°	1823	1996	2132
50°	1756	1973	2138
55°	1682	1958	2132
60°	1602	1930	2118
65°	1508	1924	2119
70°	1420	1908	2057
75°	1231	1865	1758
80°	995	1504	1170
85°	661	521	350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	3.4
10°-20°	208.0	9.6
20°-30°	311.9	14.4
30°-40°	372.1	17.2
40°-50°	384.7	17.7
50°-60°	351.2	16.2
60°-70°	276.4	12.7
70°-80°	160.9	7.4
80°-90°	29.6	1.4
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°	593.0	27.4
0°-40°	965.1	44.5
0°-60°	1701.1	78.5
0°-90°	2168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	772	770	765	772	771	73
15°	732	733	734	744	744	207
25°	662	665	674	690	693	305
35°	568	575	593	616	621	355
45°	457	472	500	528	534	353
55°	342	360	398	427	433	306
65°	226	249	288	311	317	224
75°	113	140	171	168	161	120
85°	20	29	16	13	11	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.9	773.9	773.9	773.9	773.9
2.5°	775.0	772.9	769.6	775.0	773.9
5°	771.8	769.6	765.4	771.8	770.7
7.5°	765.4	763.1	761.0	767.5	766.4
10°	756.7	755.6	754.6	762.1	761.0
12.5°	746.0	746.0	745.0	753.5	753.5
15°	732.1	733.1	734.2	743.8	743.8
17.5°	719.2	718.1	721.3	732.1	733.1
20°	700.8	703.0	707.3	720.2	721.3
22.5°	682.5	684.8	692.3	705.2	708.4
25°	662.1	665.4	674.0	690.0	693.3
27.5°	640.7	645.0	656.7	674.0	677.1
30°	616.9	623.4	636.3	655.7	659.0
32.5°	593.4	599.8	615.9	635.3	639.6
35°	567.6	575.1	593.4	615.9	621.3
37.5°	540.7	550.3	571.9	594.4	600.9
40°	513.8	524.6	548.2	571.9	579.4
42.5°	486.9	497.7	523.4	550.3	557.9
45°	456.8	471.9	499.9	527.8	534.2
47.5°	427.8	444.0	475.1	503.0	511.7
50°	399.9	416.0	449.3	478.4	486.9
52.5°	370.9	388.0	423.5	453.6	461.1
55°	341.8	360.1	397.8	426.8	433.2
57.5°	312.8	332.2	370.9	398.8	406.3
60°	283.8	304.3	341.8	369.7	375.1
62.5°	254.7	276.2	314.9	339.7	345.1
65°	225.8	249.3	288.1	310.7	317.2
67.5°	197.8	221.4	259.1	280.5	285.9
70°	172.0	193.5	231.2	247.2	249.3
72.5°	139.7	166.6	203.1	211.8	206.4
75°	112.9	139.7	171.0	167.7	161.2
77.5°	86.0	112.9	133.3	122.5	113.9
80°	61.2	88.1	92.5	76.3	72.0
82.5°	39.8	61.2	51.6	39.8	32.3
85°	20.4	29.0	16.1	12.9	10.8
87.5°	6.5	4.3	2.1	2.1	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)