

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: P732616

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732616
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-CA125-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

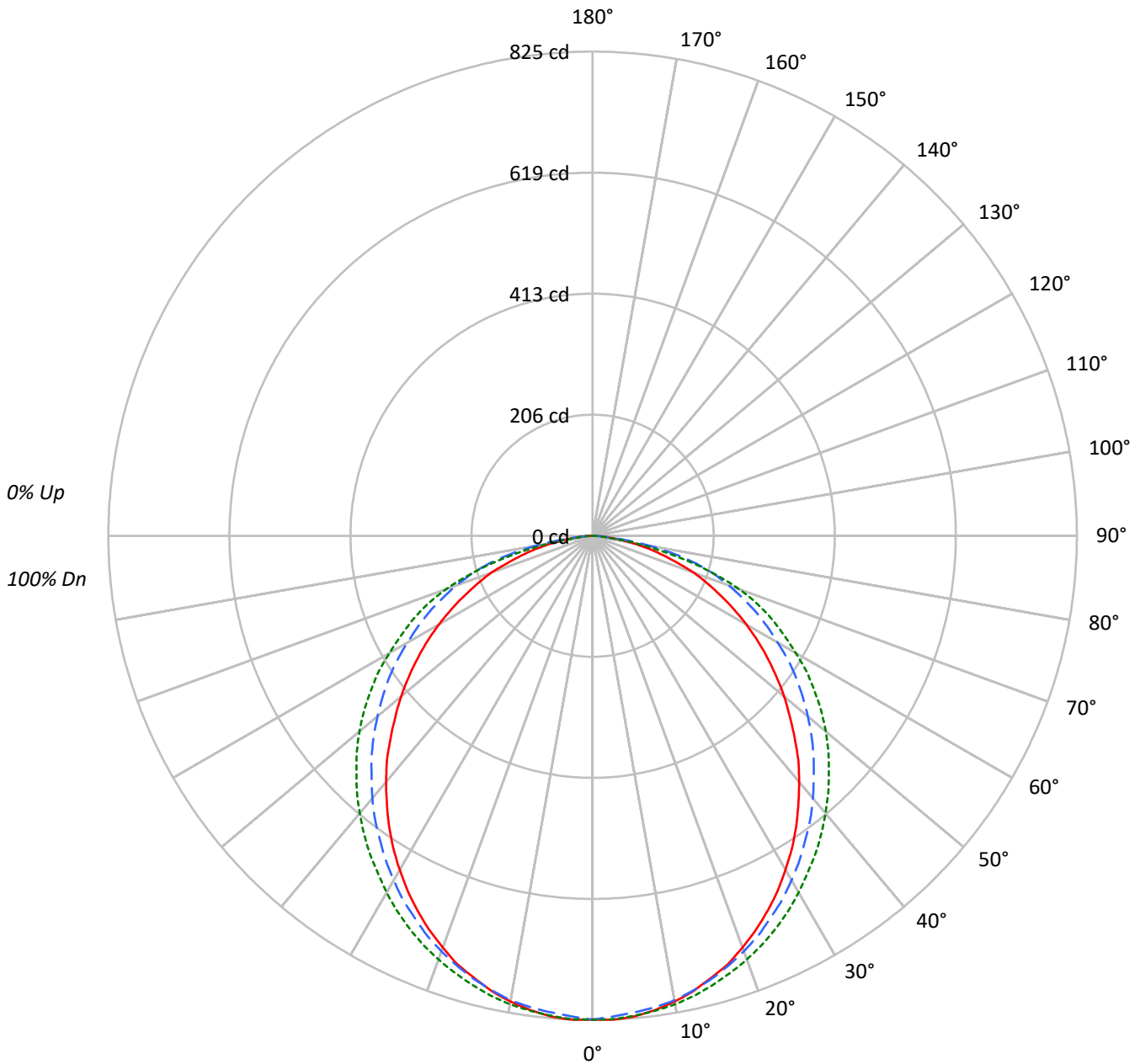
Lumens per Lamp: N/A
Luminaire Lumens: 2309.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732616

CATALOG NUMBER: 14FCZ2-25-S-B2750-W2D-CA125-2700K

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°	2327	2327	2327
5°	2329	2310	2326
10°	2310	2304	2323
15°	2278	2285	2315
20°	2242	2263	2308
25°	2196	2236	2300
30°	2142	2209	2287
35°	2083	2178	2280
40°	2016	2151	2274
45°	1942	2125	2271
50°	1870	2101	2277
55°	1791	2085	2271
60°	1707	2055	2255
65°	1606	2049	2256
70°	1512	2032	2191
75°	1311	1986	1873
80°	1060	1601	1247
85°	703	554	372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	3.4
10°-20°	221.5	9.6
20°-30°	332.2	14.4
30°-40°	396.3	17.2
40°-50°	409.7	17.7
50°-60°	374.1	16.2
60°-70°	294.4	12.7
70°-80°	171.4	7.4
80°-90°	31.6	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°	631.6	27.4
0°-40°	1027.9	44.5
0°-60°	1811.7	78.5
0°-90°	2309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	822	820	815	822	821	78
15°	780	781	782	792	792	220
25°	705	709	718	735	738	325
35°	604	612	632	656	662	378
45°	486	503	532	562	569	376
55°	364	384	424	454	461	326
65°	240	266	307	331	338	239
75°	120	149	182	179	172	128
85°	22	31	17	14	12	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	824.3	824.3	824.3	824.3	824.3
2.5°	825.4	823.2	819.7	825.4	824.3
5°	822.0	819.7	815.2	822.0	820.8
7.5°	815.2	812.8	810.5	817.4	816.3
10°	805.9	804.8	803.7	811.7	810.5
12.5°	794.5	794.5	793.4	802.5	802.5
15°	779.7	780.8	781.9	792.2	792.2
17.5°	765.9	764.8	768.2	779.7	780.8
20°	746.4	748.7	753.3	767.0	768.2
22.5°	726.9	729.3	737.3	751.1	754.4
25°	705.2	708.7	717.8	734.9	738.4
27.5°	682.3	686.9	699.4	717.8	721.2
30°	657.1	663.9	677.7	698.3	701.8
32.5°	632.0	638.8	655.9	676.6	681.2
35°	604.5	612.5	632.0	655.9	661.7
37.5°	575.8	586.1	609.1	633.1	640.0
40°	547.2	558.7	583.8	609.1	617.1
42.5°	518.6	530.1	557.5	586.1	594.2
45°	486.5	502.6	532.4	562.1	569.0
47.5°	455.6	472.9	506.0	535.7	545.0
50°	425.9	443.0	478.5	509.5	518.6
52.5°	395.0	413.3	451.0	483.1	491.1
55°	364.0	383.5	423.6	454.5	461.4
57.5°	333.2	353.8	395.0	424.8	432.8
60°	302.3	324.0	364.0	393.8	399.5
62.5°	271.3	294.2	335.4	361.8	367.5
65°	240.4	265.5	306.8	330.9	337.8
67.5°	210.7	235.8	275.9	298.8	304.5
70°	183.2	206.1	246.2	263.3	265.5
72.5°	148.8	177.5	216.3	225.6	219.8
75°	120.2	148.8	182.1	178.6	171.7
77.5°	91.6	120.2	142.0	130.5	121.3
80°	65.2	93.8	98.5	81.2	76.7
82.5°	42.4	65.2	55.0	42.4	34.4
85°	21.7	30.9	17.1	13.7	11.5
87.5°	6.9	4.6	2.2	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)