

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: P734316

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-35HE-HRP-B2750-W2D-CA125-2700K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

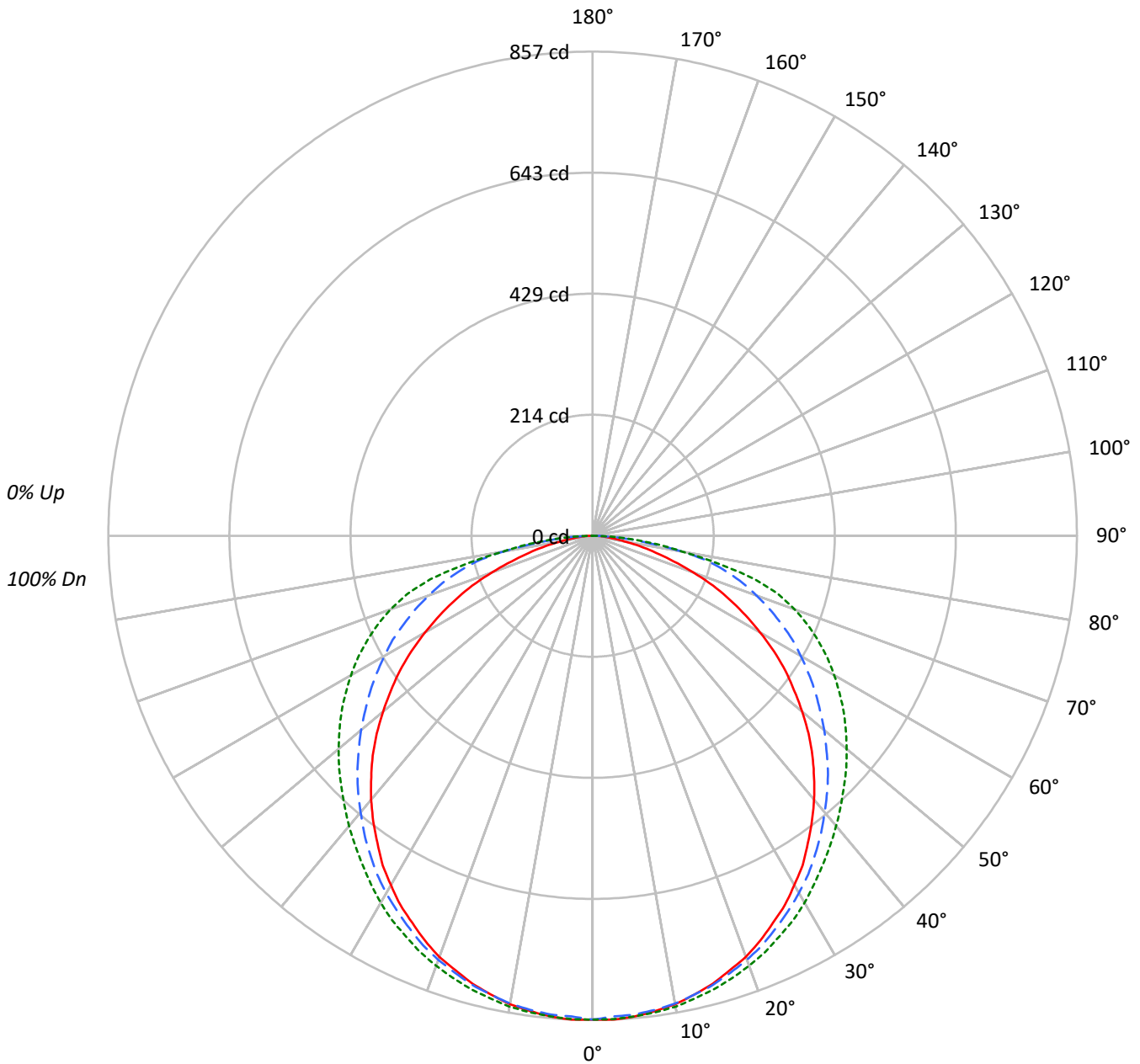
Lumens per Lamp: N/A
Luminaire Lumens: 2639.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1209	1209	1209
5°	1210	1205	1210
10°	1207	1205	1213
15°	1199	1203	1214
20°	1191	1200	1216
25°	1177	1194	1218
30°	1163	1190	1222
35°	1144	1184	1224
40°	1123	1177	1235
45°	1098	1175	1255
50°	1062	1174	1288
55°	1025	1182	1335
60°	967	1200	1394
65°	893	1229	1472
70°	780	1272	1568
75°	633	1338	1621
80°	467	1312	1312
85°	358	967	1091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	3.1
10°-20°	232.9	8.8
20°-30°	354.6	13.4
30°-40°	430.6	16.3
40°-50°	454.9	17.2
50°-60°	429.2	16.3
60°-70°	356.9	13.5
70°-80°	234.8	8.9
80°-90°	64.0	2.4
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°	668.6	25.3
0°-40°	1099.2	41.7
0°-60°	1983.3	75.2
0°-90°	2639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	854	854	851	854	854	81
15°	821	822	823	831	831	232
25°	756	760	767	780	782	349
35°	664	672	687	705	710	416
45°	550	561	589	618	629	424
55°	416	434	480	526	542	371
65°	267	298	368	422	441	264
75°	116	169	245	291	297	125
85°	22	49	60	66	67	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.3	856.3	856.3	856.3	856.3
2.5°	857.4	856.3	851.7	856.3	856.3
5°	854.1	854.1	850.7	854.1	854.1
7.5°	848.5	848.5	846.3	850.7	850.7
10°	841.9	841.9	840.7	846.3	846.3
12.5°	831.9	833.0	831.9	838.5	838.5
15°	820.9	822.0	823.1	830.8	830.8
17.5°	806.5	808.7	810.9	819.8	820.9
20°	793.3	794.4	798.7	808.7	809.8
22.5°	775.5	778.9	784.4	794.4	797.6
25°	755.7	760.1	766.8	780.0	782.2
27.5°	736.8	740.3	749.0	763.4	767.9
30°	713.8	719.2	730.3	744.6	750.1
32.5°	691.6	697.1	710.3	725.9	730.3
35°	664.0	671.7	687.2	704.9	710.3
37.5°	637.5	645.2	664.0	683.8	690.5
40°	609.8	618.7	638.6	661.8	670.6
42.5°	580.0	592.2	614.3	639.7	649.7
45°	550.2	561.3	588.9	617.6	628.6
47.5°	518.1	531.4	561.3	595.4	608.7
50°	483.9	500.5	534.8	572.3	586.7
52.5°	449.6	468.4	507.0	549.1	564.6
55°	416.4	434.2	480.5	525.9	542.4
57.5°	380.1	402.1	452.9	501.6	518.1
60°	342.5	366.9	425.3	476.2	493.8
62.5°	305.0	332.6	398.8	449.6	468.4
65°	267.4	298.3	367.9	422.0	440.8
67.5°	230.9	265.2	339.1	393.4	412.1
70°	189.0	232.0	308.2	361.2	380.1
72.5°	150.3	200.0	278.5	328.2	344.7
75°	116.0	169.0	245.3	290.6	297.2
77.5°	85.1	138.1	211.0	226.5	227.6
80°	57.4	110.5	161.4	159.0	161.4
82.5°	37.6	82.8	101.7	113.8	114.9
85°	22.1	48.6	59.7	66.3	67.4
87.5°	11.1	16.5	21.0	22.1	24.3
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)