

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: P734317

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734317
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-CA125-3000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

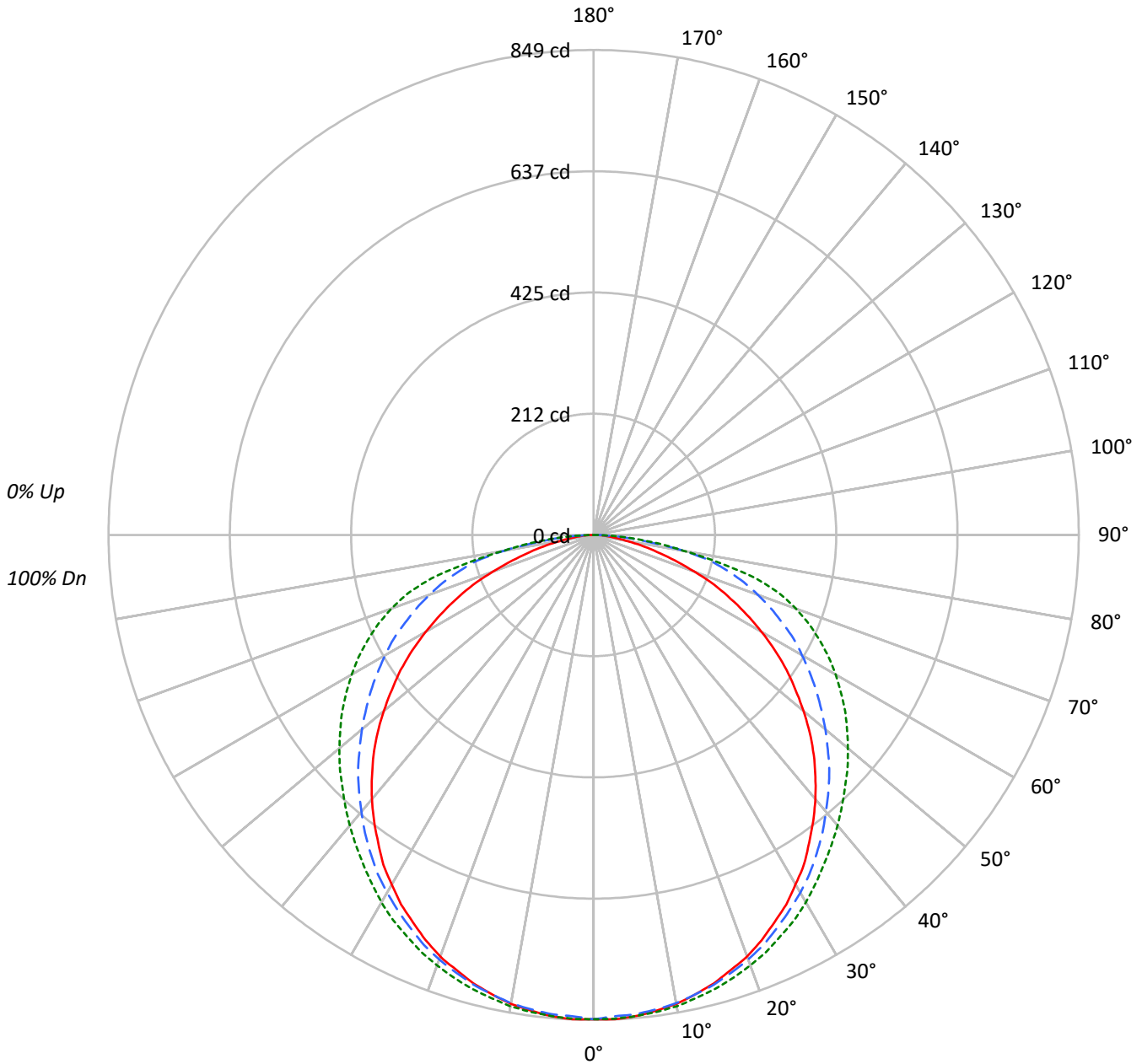
Lumens per Lamp: N/A
Luminaire Lumens: 2613.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1197	1197	1197
5°	1198	1193	1198
10°	1195	1193	1201
15°	1188	1191	1202
20°	1180	1188	1204
25°	1165	1182	1206
30°	1152	1178	1210
35°	1133	1172	1212
40°	1112	1165	1223
45°	1087	1164	1242
50°	1052	1163	1275
55°	1015	1171	1322
60°	957	1189	1380
65°	884	1217	1457
70°	772	1259	1553
75°	627	1324	1604
80°	462	1299	1299
85°	355	957	1080



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.1
10°-20°	230.6	8.8
20°-30°	351.1	13.4
30°-40°	426.3	16.3
40°-50°	450.4	17.2
50°-60°	425.0	16.3
60°-70°	353.4	13.5
70°-80°	232.5	8.9
80°-90°	63.4	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°	662.0	25.3
0°-40°	1088.3	41.7
0°-60°	1963.7	75.2
0°-90°	2613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	846	846	842	846	846	80
15°	813	814	815	823	823	229
25°	748	753	759	772	774	345
35°	658	665	680	698	703	412
45°	545	556	583	612	622	420
55°	412	430	476	521	537	367
65°	265	295	364	418	436	262
75°	115	167	243	288	294	124
85°	22	48	59	66	67	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	847.8	847.8	847.8	847.8	847.8
2.5°	848.9	847.8	843.4	847.8	847.8
5°	845.7	845.7	842.3	845.7	845.7
7.5°	840.1	840.1	837.9	842.3	842.3
10°	833.6	833.6	832.4	837.9	837.9
12.5°	823.7	824.8	823.7	830.2	830.2
15°	812.8	813.9	814.9	822.7	822.7
17.5°	798.6	800.7	802.9	811.7	812.8
20°	785.5	786.5	790.9	800.7	801.8
22.5°	767.9	771.3	776.7	786.5	789.8
25°	748.3	752.6	759.2	772.3	774.5
27.5°	729.6	733.0	741.6	755.8	760.3
30°	706.7	712.1	723.1	737.3	742.7
32.5°	684.8	690.2	703.3	718.8	723.1
35°	657.5	665.1	680.5	697.9	703.3
37.5°	631.2	638.8	657.5	677.1	683.7
40°	603.8	612.6	632.3	655.3	664.0
42.5°	574.3	586.3	608.2	633.4	643.3
45°	544.8	555.7	583.1	611.5	622.4
47.5°	513.0	526.1	555.7	589.6	602.7
50°	479.2	495.5	529.5	566.7	580.9
52.5°	445.2	463.8	502.0	543.7	559.0
55°	412.3	429.9	475.8	520.7	537.1
57.5°	376.4	398.1	448.5	496.6	513.0
60°	339.2	363.2	421.1	471.5	488.9
62.5°	302.0	329.3	394.9	445.2	463.8
65°	264.8	295.3	364.3	417.9	436.4
67.5°	228.6	262.6	335.8	389.5	408.0
70°	187.1	229.7	305.2	357.7	376.4
72.5°	148.8	198.1	275.7	325.0	341.3
75°	114.9	167.3	242.8	287.7	294.2
77.5°	84.3	136.8	208.9	224.3	225.4
80°	56.8	109.4	159.8	157.5	159.8
82.5°	37.2	82.0	100.7	112.7	113.8
85°	21.9	48.2	59.1	65.6	66.7
87.5°	11.0	16.4	20.8	21.9	24.1
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)