

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: P734318

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734318
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-CA125-3500K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

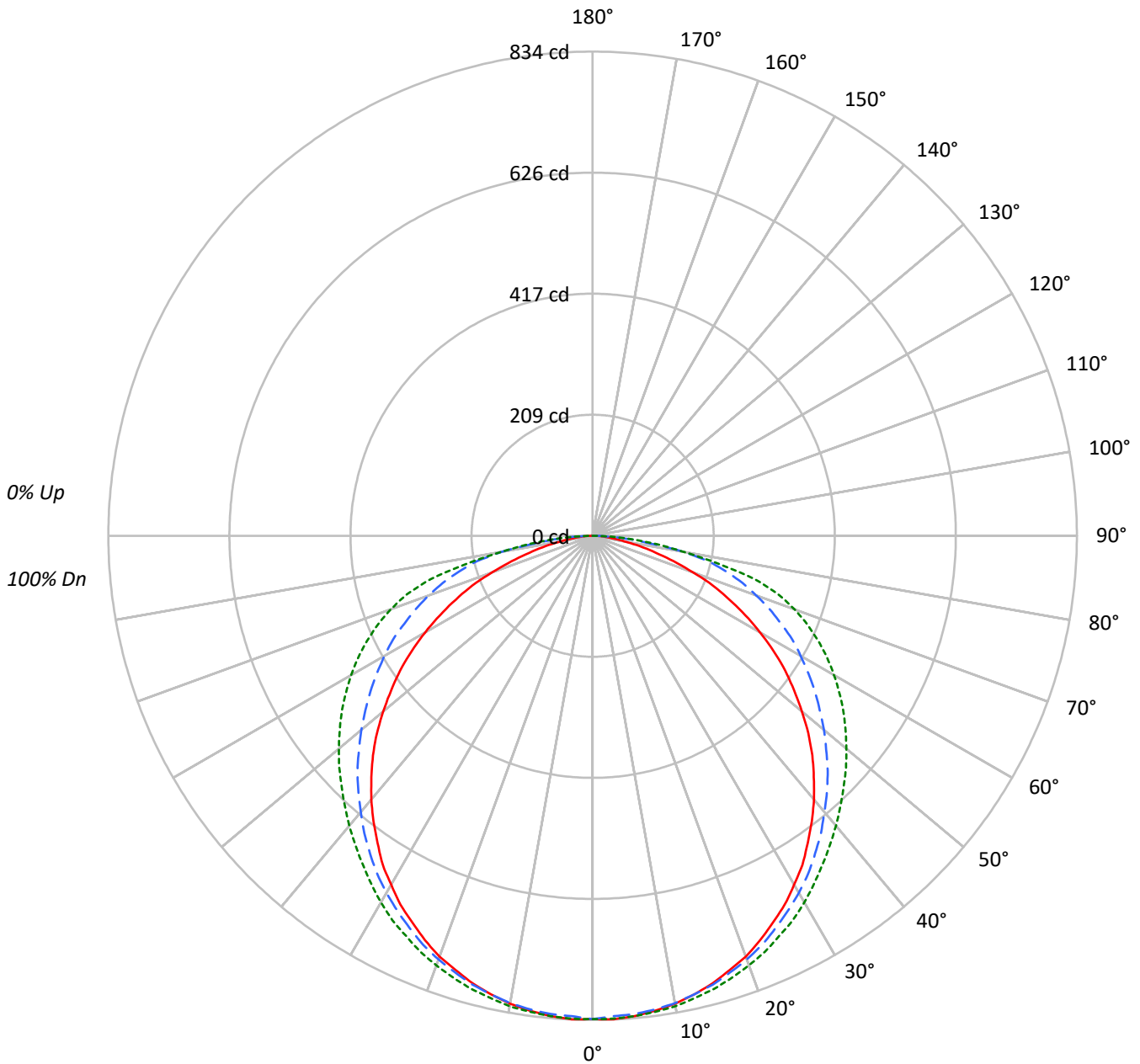
Lumens per Lamp: N/A
Luminaire Lumens: 2566.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1175	1175	1175
5°	1176	1172	1176
10°	1173	1171	1179
15°	1166	1169	1180
20°	1158	1166	1183
25°	1144	1161	1184
30°	1131	1157	1189
35°	1112	1151	1190
40°	1092	1144	1201
45°	1068	1143	1220
50°	1033	1142	1253
55°	996	1150	1298
60°	940	1167	1355
65°	868	1195	1431
70°	758	1237	1525
75°	615	1301	1575
80°	454	1275	1275
85°	348	941	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	3.1
10°-20°	226.5	8.8
20°-30°	344.8	13.4
30°-40°	418.6	16.3
40°-50°	442.3	17.2
50°-60°	417.3	16.3
60°-70°	347.0	13.5
70°-80°	228.3	8.9
80°-90°	62.2	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°	650.1	25.3
0°-40°	1068.8	41.7
0°-60°	1928.4	75.2
0°-90°	2566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	830	830	827	830	830	79
15°	798	799	800	808	808	225
25°	735	739	746	758	761	339
35°	646	653	668	685	691	404
45°	535	546	573	600	611	412
55°	405	422	467	511	527	361
65°	260	290	358	410	429	257
75°	113	164	238	283	289	122
85°	22	47	58	64	66	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	832.6	832.6	832.6	832.6	832.6
2.5°	833.6	832.6	828.2	832.6	832.6
5°	830.4	830.4	827.1	830.4	830.4
7.5°	825.0	825.0	822.9	827.1	827.1
10°	818.6	818.6	817.4	822.9	822.9
12.5°	808.9	810.0	808.9	815.3	815.3
15°	798.2	799.2	800.3	807.9	807.9
17.5°	784.2	786.3	788.5	797.1	798.2
20°	771.3	772.4	776.6	786.3	787.4
22.5°	754.1	757.4	762.7	772.4	775.6
25°	734.8	739.0	745.6	758.4	760.6
27.5°	716.5	719.8	728.3	742.2	746.6
30°	694.0	699.3	710.1	724.0	729.3
32.5°	672.5	677.8	690.7	705.8	710.1
35°	645.7	653.1	668.2	685.4	690.7
37.5°	619.9	627.3	645.7	664.9	671.4
40°	592.9	601.5	620.9	643.5	652.0
42.5°	563.9	575.8	597.3	622.0	631.7
45°	535.0	545.7	572.6	600.5	611.2
47.5°	503.8	516.7	545.7	579.0	591.8
50°	470.6	486.6	520.0	556.5	570.5
52.5°	437.2	455.4	493.0	533.9	548.9
55°	404.9	422.2	467.2	511.3	527.4
57.5°	369.6	391.0	440.4	487.7	503.8
60°	333.1	356.7	413.6	463.0	480.1
62.5°	296.5	323.4	387.8	437.2	455.4
65°	260.0	290.0	357.8	410.4	428.6
67.5°	224.5	257.9	329.7	382.5	400.7
70°	183.7	225.6	299.7	351.3	369.6
72.5°	146.1	194.5	270.7	319.1	335.2
75°	112.8	164.3	238.5	282.6	288.9
77.5°	82.8	134.3	205.1	220.3	221.3
80°	55.8	107.5	156.9	154.6	156.9
82.5°	36.5	80.5	98.8	110.7	111.7
85°	21.5	47.3	58.1	64.4	65.5
87.5°	10.8	16.1	20.5	21.5	23.6
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)