

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: P734319

Luminaire Tested: **24FCZ2-35HE-HRP-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734319
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-CA125-4000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

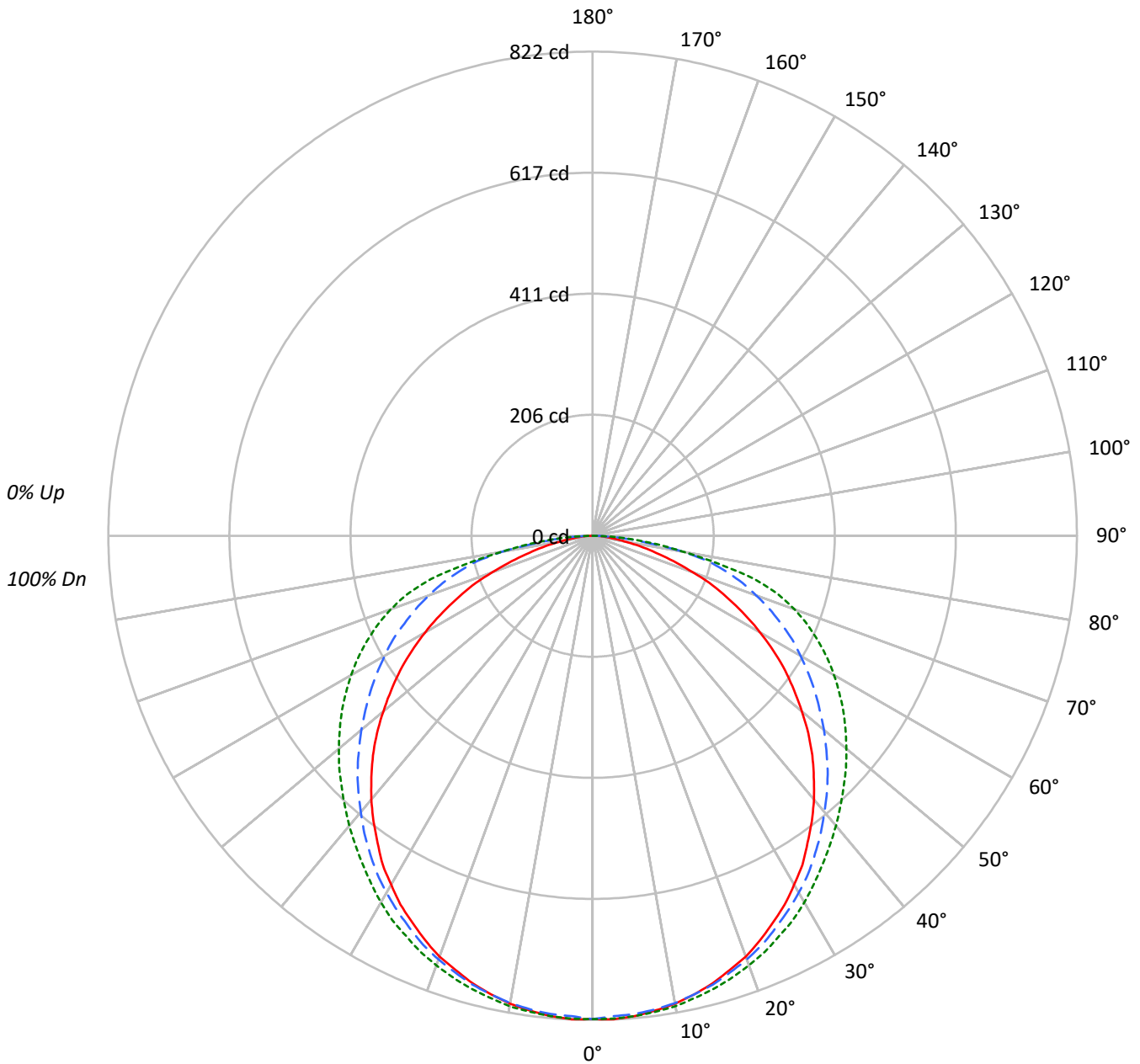
Lumens per Lamp: N/A
Luminaire Lumens: 2529.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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				20				20	
RC	80				70				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				100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82				82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67				67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56				56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48				48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36				36
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28				28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25				25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23				23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1158	1158	1158
5°	1160	1155	1160
10°	1156	1155	1162
15°	1149	1153	1163
20°	1142	1150	1165
25°	1128	1144	1167
30°	1115	1140	1171
35°	1096	1135	1173
40°	1077	1128	1184
45°	1052	1126	1202
50°	1018	1125	1234
55°	982	1133	1279
60°	927	1151	1336
65°	856	1178	1411
70°	747	1219	1503
75°	606	1281	1553
80°	447	1257	1257
85°	343	926	1046



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.1
10°-20°	223.2	8.8
20°-30°	339.8	13.4
30°-40°	412.6	16.3
40°-50°	435.9	17.2
50°-60°	411.3	16.3
60°-70°	342.0	13.5
70°-80°	225.0	8.9
80°-90°	61.3	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°	640.8	25.3
0°-40°	1053.4	41.7
0°-60°	1900.6	75.2
0°-90°	2529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	818	818	815	818	818	78
15°	787	788	789	796	796	222
25°	724	728	735	748	750	334
35°	636	644	659	676	681	398
45°	527	538	564	592	602	406
55°	399	416	460	504	520	356
65°	256	286	353	404	422	253
75°	111	162	235	278	285	120
85°	21	47	57	64	65	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.6	820.6	820.6	820.6	820.6
2.5°	821.6	820.6	816.2	820.6	820.6
5°	818.5	818.5	815.2	818.5	818.5
7.5°	813.1	813.1	811.0	815.2	815.2
10°	806.8	806.8	805.6	811.0	811.0
12.5°	797.3	798.3	797.3	803.5	803.5
15°	786.7	787.7	788.8	796.2	796.2
17.5°	772.9	775.0	777.1	785.6	786.7
20°	760.2	761.3	765.4	775.0	776.0
22.5°	743.2	746.5	751.7	761.3	764.4
25°	724.2	728.4	734.8	747.5	749.6
27.5°	706.1	709.4	717.8	731.5	735.9
30°	684.0	689.2	699.8	713.6	718.8
32.5°	662.8	668.0	680.7	695.7	699.8
35°	636.3	643.7	658.6	675.5	680.7
37.5°	610.9	618.3	636.3	655.3	661.7
40°	584.4	592.9	612.0	634.2	642.6
42.5°	555.8	567.5	588.7	613.0	622.6
45°	527.3	537.9	564.3	591.8	602.4
47.5°	496.5	509.2	537.9	570.6	583.3
50°	463.8	479.6	512.5	548.5	562.2
52.5°	430.9	448.8	485.9	526.2	541.0
55°	399.1	416.1	460.5	504.0	519.8
57.5°	364.3	385.3	434.0	480.7	496.5
60°	328.3	351.6	407.6	456.3	473.2
62.5°	292.2	318.7	382.2	430.9	448.8
65°	256.2	285.8	352.6	404.5	422.4
67.5°	221.3	254.1	325.0	377.0	394.9
70°	181.1	222.3	295.4	346.2	364.3
72.5°	144.0	191.7	266.8	314.5	330.3
75°	111.2	162.0	235.0	278.5	284.8
77.5°	81.6	132.4	202.2	217.1	218.1
80°	55.0	105.9	154.6	152.4	154.6
82.5°	36.0	79.3	97.4	109.1	110.1
85°	21.2	46.6	57.2	63.5	64.6
87.5°	10.6	15.8	20.2	21.2	23.3
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)