

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: P734310

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272053)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-35HE-B2750-W2D-CP375-5000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

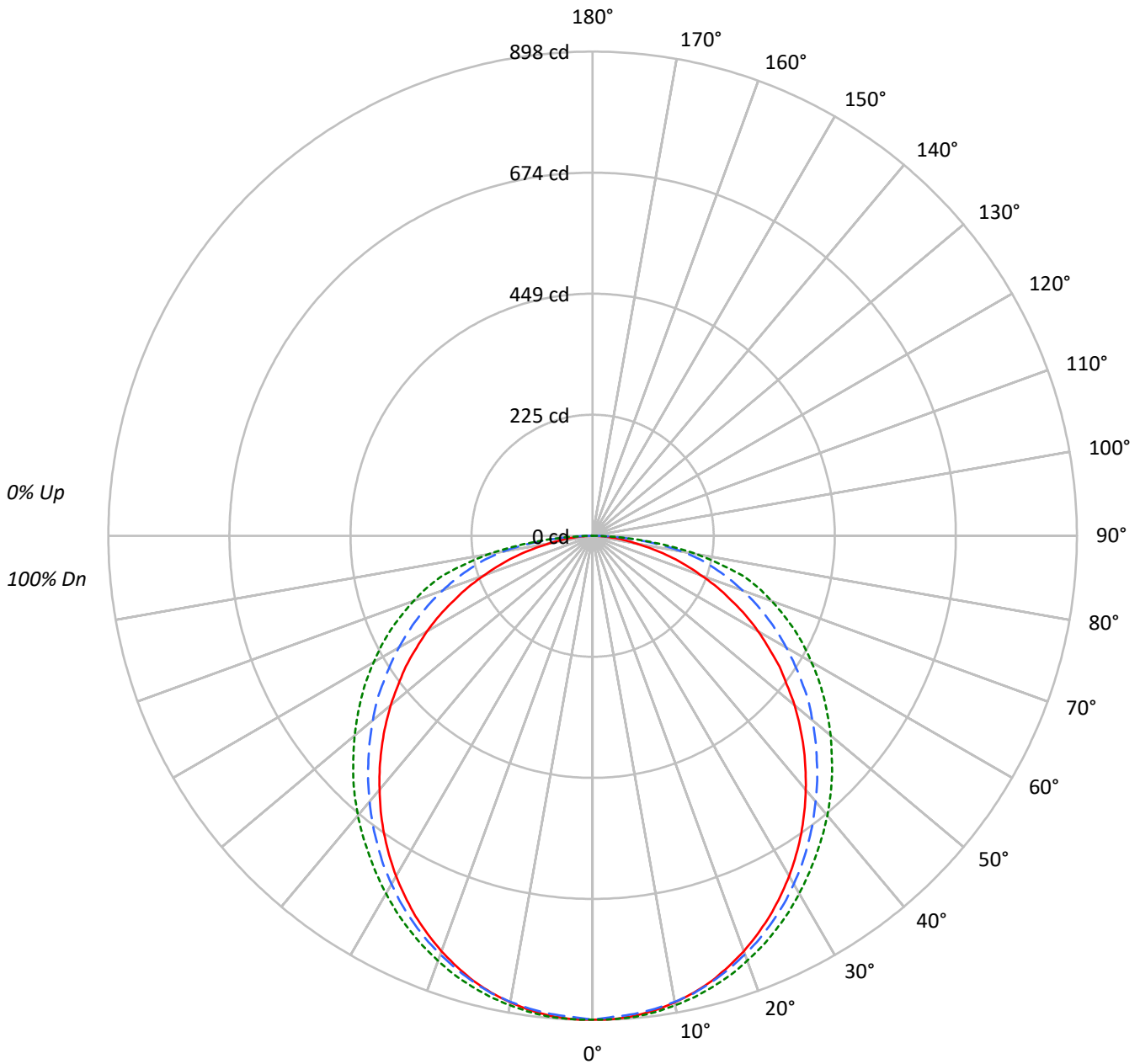
Lumens per Lamp: N/A
Luminaire Lumens: 2673.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	100	96	92	96	93	89	92	89	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	60	68	63	58	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	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	39	50	44	38	49	43	38	36																			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25																			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1267	1267	1267
5°	1266	1261	1269
10°	1259	1258	1267
15°	1249	1251	1264
20°	1231	1241	1260
25°	1211	1229	1255
30°	1188	1215	1249
35°	1162	1200	1245
40°	1133	1185	1247
45°	1104	1173	1253
50°	1073	1167	1265
55°	1041	1166	1288
60°	1000	1171	1322
65°	947	1189	1379
70°	880	1219	1458
75°	803	1279	1581
80°	660	1378	1581
85°	505	1271	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	3.2
10°-20°	242.3	9.1
20°-30°	364.7	13.6
30°-40°	437.0	16.3
40°-50°	455.4	17.0
50°-60°	423.7	15.9
60°-70°	348.9	13.1
70°-80°	237.7	8.9
80°-90°	78.5	2.9
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°	691.8	25.9
0°-40°	1128.8	42.2
0°-60°	2007.9	75.1
0°-90°	2673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	894	894	890	895	896	85
15°	855	856	856	864	865	241
25°	778	782	790	803	806	358
35°	674	682	697	716	723	422
45°	553	565	588	617	628	427
55°	423	437	474	511	524	377
65°	284	308	356	398	413	282
75°	147	180	235	276	290	155
85°	31	61	78	84	84	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	897.5	897.5	897.5	897.5	897.5
2.5°	897.5	897.5	893.0	897.5	897.5
5°	893.8	893.8	890.3	894.8	895.7
7.5°	887.6	888.6	885.0	890.3	891.3
10°	878.7	879.6	877.8	883.2	884.1
12.5°	868.0	868.9	868.9	875.1	876.1
15°	854.6	855.6	856.4	864.5	865.3
17.5°	837.7	840.4	842.1	852.0	853.7
20°	819.9	822.5	826.1	836.7	838.6
22.5°	799.3	802.9	809.1	820.7	823.4
25°	777.9	781.5	789.5	802.9	805.6
27.5°	753.8	759.2	769.0	783.3	786.9
30°	728.9	734.2	745.8	760.9	766.3
32.5°	702.1	709.2	722.6	739.5	744.9
35°	674.4	682.4	696.7	715.5	722.6
37.5°	645.0	654.0	670.8	691.4	700.3
40°	614.7	625.4	643.2	667.3	677.1
42.5°	584.3	594.2	616.4	642.3	653.0
45°	553.1	564.7	587.9	617.3	628.0
47.5°	520.9	532.6	560.2	591.5	601.3
50°	488.9	500.5	531.7	564.7	576.3
52.5°	454.1	469.2	504.9	537.9	549.5
55°	422.9	437.1	473.7	511.2	523.6
57.5°	387.2	404.1	444.3	483.5	496.9
60°	354.2	372.0	414.8	454.9	468.4
62.5°	320.3	339.9	385.4	426.4	441.6
65°	283.6	307.7	355.9	397.8	413.0
67.5°	250.6	275.7	326.5	369.3	382.7
70°	213.2	243.5	295.3	338.2	353.3
72.5°	181.1	211.4	265.8	307.7	322.9
75°	147.2	180.2	234.6	276.5	289.9
77.5°	113.3	149.9	204.3	236.4	240.9
80°	81.2	119.6	169.5	188.3	194.5
82.5°	57.1	91.9	124.9	137.4	141.0
85°	31.2	60.6	78.5	83.9	83.9
87.5°	13.3	25.9	31.2	32.1	33.0
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)