

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: P734306

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734306
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-CP375-2700K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

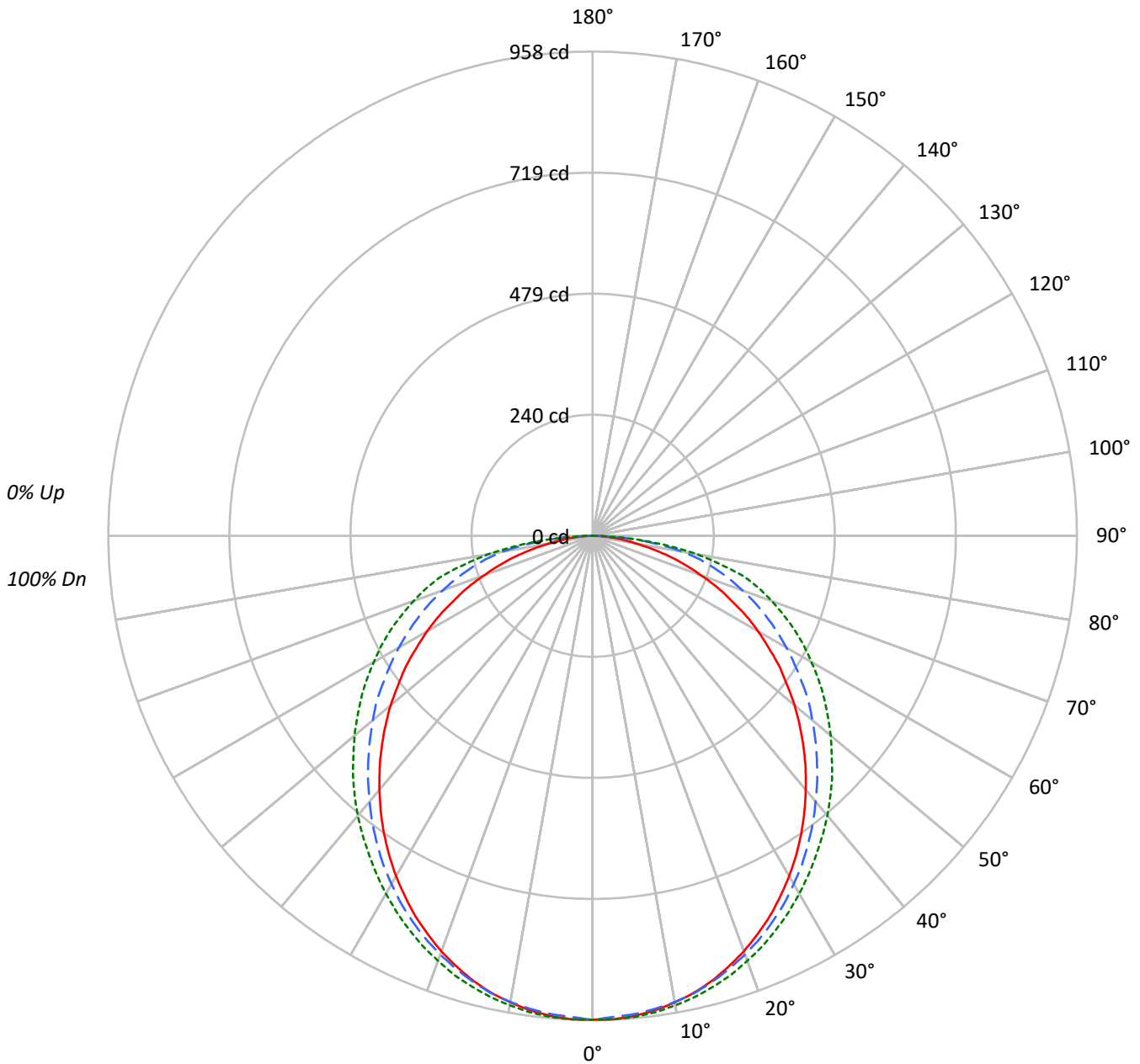
Lumens per Lamp: N/A
Luminaire Lumens: 2852.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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				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			
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°	1351	1351	1351
5°	1351	1346	1354
10°	1344	1342	1352
15°	1332	1335	1349
20°	1314	1324	1344
25°	1293	1312	1338
30°	1267	1297	1332
35°	1240	1281	1328
40°	1208	1264	1331
45°	1178	1252	1337
50°	1145	1246	1350
55°	1110	1244	1375
60°	1067	1249	1410
65°	1011	1268	1472
70°	939	1300	1556
75°	857	1365	1687
80°	704	1469	1686
85°	539	1355	1449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	3.2
10°-20°	258.6	9.1
20°-30°	389.1	13.6
30°-40°	466.3	16.3
40°-50°	485.9	17.0
50°-60°	452.1	15.9
60°-70°	372.3	13.1
70°-80°	253.6	8.9
80°-90°	83.7	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°	738.2	25.9
0°-40°	1204.4	42.2
0°-60°	2142.4	75.1
0°-90°	2852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	954	954	950	955	956	91
15°	912	913	914	922	923	257
25°	830	834	842	857	860	382
35°	720	728	743	763	771	450
45°	590	602	627	659	670	455
55°	451	466	506	545	559	402
65°	303	328	380	424	441	300
75°	157	192	250	295	309	166
85°	33	65	84	90	90	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	957.6	957.6	957.6	957.6	957.6
2.5°	957.6	957.6	952.8	957.6	957.6
5°	953.7	953.7	949.9	954.7	955.6
7.5°	947.0	948.1	944.3	949.9	950.9
10°	937.5	938.5	936.6	942.3	943.3
12.5°	926.2	927.1	927.1	933.7	934.8
15°	911.8	912.9	913.8	922.4	923.3
17.5°	893.8	896.7	898.5	909.1	910.9
20°	874.8	877.6	881.4	892.8	894.7
22.5°	852.9	856.6	863.3	875.7	878.5
25°	830.0	833.8	842.4	856.6	859.5
27.5°	804.3	810.1	820.5	835.8	839.5
30°	777.7	783.3	795.7	811.9	817.6
32.5°	749.1	756.7	770.9	789.1	794.8
35°	719.5	728.1	743.4	763.4	770.9
37.5°	688.2	697.7	715.8	737.7	747.2
40°	655.9	667.2	686.3	712.0	722.4
42.5°	623.4	634.0	657.7	685.4	696.7
45°	590.1	602.5	627.3	658.6	670.1
47.5°	555.8	568.2	597.7	631.1	641.5
50°	521.6	534.0	567.3	602.5	614.9
52.5°	484.5	500.7	538.7	574.0	586.3
55°	451.2	466.3	505.5	545.4	558.7
57.5°	413.1	431.1	474.0	515.9	530.1
60°	377.9	396.9	442.6	485.4	499.7
62.5°	341.8	362.6	411.2	455.0	471.2
65°	302.6	328.3	379.7	424.5	440.7
67.5°	267.4	294.1	348.4	394.1	408.3
70°	227.5	259.8	315.0	360.8	377.0
72.5°	193.2	225.5	283.6	328.3	344.5
75°	157.1	192.3	250.3	295.1	309.3
77.5°	120.9	159.9	218.0	252.3	257.0
80°	86.6	127.6	180.8	200.9	207.5
82.5°	60.9	98.1	133.3	146.6	150.4
85°	33.3	64.7	83.7	89.5	89.5
87.5°	14.2	27.6	33.3	34.3	35.2
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)