

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: P734307

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CP375-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734307
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-CP375-3000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

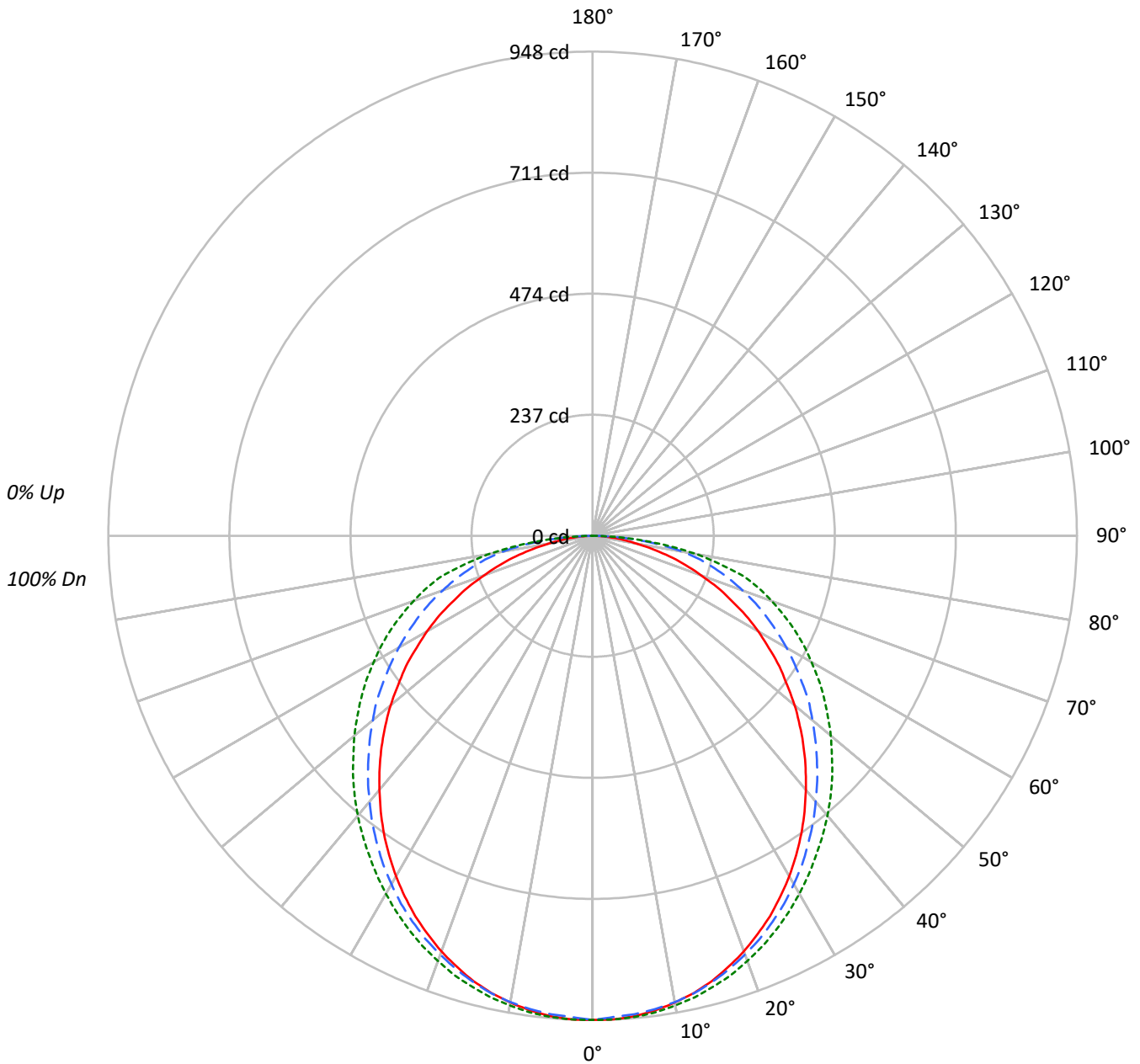
Lumens per Lamp: N/A
Luminaire Lumens: 2823.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
Input Voltage (V): NR
Input Current (Ain): 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°	1338	1338	1338
5°	1337	1332	1340
10°	1330	1329	1338
15°	1319	1322	1335
20°	1301	1310	1330
25°	1279	1298	1325
30°	1255	1284	1319
35°	1227	1268	1315
40°	1196	1252	1317
45°	1166	1239	1324
50°	1134	1233	1336
55°	1099	1231	1361
60°	1056	1237	1396
65°	1001	1255	1457
70°	929	1287	1540
75°	848	1351	1669
80°	697	1455	1669
85°	533	1342	1435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	3.2
10°-20°	255.9	9.1
20°-30°	385.1	13.6
30°-40°	461.5	16.3
40°-50°	480.9	17.0
50°-60°	447.5	15.9
60°-70°	368.6	13.1
70°-80°	251.0	8.9
80°-90°	82.9	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°	730.7	25.9
0°-40°	1192.2	42.2
0°-60°	2120.6	75.1
0°-90°	2823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2823.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	944	944	940	945	946	90
15°	902	904	904	913	914	254
25°	822	825	834	848	851	378
35°	712	721	736	756	763	445
45°	584	596	621	652	663	451
55°	447	462	500	540	553	398
65°	300	325	376	420	436	297
75°	156	190	248	292	306	164
85°	33	64	83	89	89	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.9	947.9	947.9	947.9	947.9
2.5°	947.9	947.9	943.1	947.9	947.9
5°	944.0	944.0	940.2	945.0	945.9
7.5°	937.4	938.4	934.7	940.2	941.3
10°	928.0	929.0	927.1	932.8	933.7
12.5°	916.7	917.7	917.7	924.2	925.3
15°	902.5	903.6	904.5	913.0	913.9
17.5°	884.7	887.6	889.4	899.8	901.6
20°	865.9	868.7	872.5	883.7	885.6
22.5°	844.2	847.9	854.5	866.8	869.6
25°	821.6	825.3	833.8	847.9	850.8
27.5°	796.1	801.8	812.2	827.3	831.0
30°	769.8	775.4	787.6	803.6	809.3
32.5°	741.5	749.0	763.1	781.0	786.7
35°	712.2	720.7	735.8	755.6	763.1
37.5°	681.2	690.7	708.5	730.2	739.6
40°	649.2	660.4	679.3	704.7	715.1
42.5°	617.1	627.5	651.0	678.4	689.6
45°	584.1	596.4	620.9	651.9	663.3
47.5°	550.2	562.4	591.6	624.7	635.0
50°	516.3	528.6	561.5	596.4	608.7
52.5°	479.5	495.6	533.3	568.1	580.4
55°	446.6	461.6	500.3	539.8	553.0
57.5°	408.9	426.7	469.2	510.7	524.7
60°	374.1	392.9	438.1	480.5	494.7
62.5°	338.3	359.0	407.0	450.4	466.4
65°	299.6	325.0	375.9	420.2	436.2
67.5°	264.7	291.2	344.9	390.1	404.1
70°	225.2	257.2	311.8	357.1	373.1
72.5°	191.2	223.3	280.7	325.0	341.0
75°	155.5	190.3	247.8	292.1	306.1
77.5°	119.7	158.3	215.8	249.7	254.4
80°	85.7	126.3	179.0	198.8	205.4
82.5°	60.3	97.1	132.0	145.1	148.9
85°	32.9	64.0	82.9	88.6	88.6
87.5°	14.1	27.4	32.9	34.0	34.9
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)