

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: P734184

Luminaire Tested: **24FCZ2-35-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734184
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: 24FCZ2-35-B2750-W2D-CP375-4000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

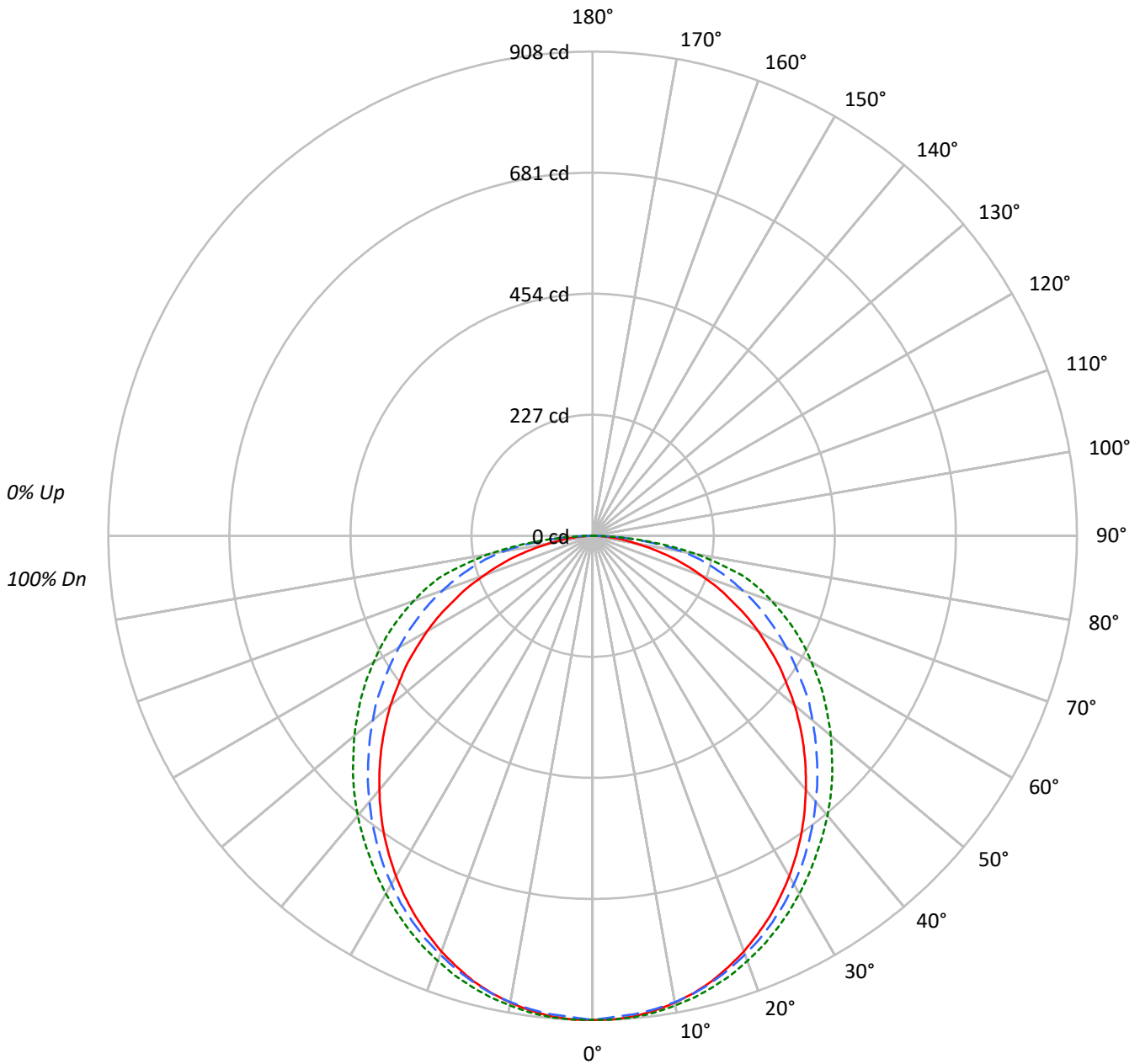
Lumens per Lamp: N/A
Luminaire Lumens: 2704.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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

TEST NUMBER: P734184

CATALOG NUMBER: 24FCZ2-35-B2750-W2D-CP375-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P734184

CATALOG NUMBER: 24FCZ2-35-B2750-W2D-CP375-4000K

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°	1281	1281	1281
5°	1281	1276	1284
10°	1274	1273	1282
15°	1263	1266	1279
20°	1246	1255	1274
25°	1225	1244	1269
30°	1202	1229	1263
35°	1175	1214	1259
40°	1146	1199	1262
45°	1117	1187	1268
50°	1086	1181	1280
55°	1053	1179	1303
60°	1011	1184	1337
65°	958	1202	1395
70°	890	1233	1475
75°	812	1294	1599
80°	667	1393	1600
85°	510	1286	1373



TEST NUMBER: P734184

CATALOG NUMBER: 24FCZ2-35-B2750-W2D-CP375-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.2
10°-20°	245.1	9.1
20°-30°	368.9	13.6
30°-40°	442.1	16.3
40°-50°	460.7	17.0
50°-60°	428.6	15.9
60°-70°	353.0	13.1
70°-80°	240.4	8.9
80°-90°	79.4	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°	699.9	25.9
0°-40°	1141.9	42.2
0°-60°	2031.2	75.1
0°-90°	2704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	904	904	901	905	906	86
15°	864	866	866	874	875	244
25°	787	790	799	812	815	362
35°	682	690	705	724	731	426
45°	560	571	595	624	635	432
55°	428	442	479	517	530	381
65°	287	311	360	402	418	285
75°	149	182	237	280	293	157
85°	32	61	79	85	85	39
90°	0	0	0	0	0	



TEST NUMBER: P734184

CATALOG NUMBER: 24FCZ2-35-B2750-W2D-CP375-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.9	907.9	907.9	907.9	907.9
2.5°	907.9	907.9	903.3	907.9	907.9
5°	904.2	904.2	900.6	905.2	906.1
7.5°	897.9	898.9	895.3	900.6	901.6
10°	888.9	889.8	888.0	893.4	894.3
12.5°	878.1	879.0	879.0	885.3	886.3
15°	864.5	865.5	866.4	874.5	875.4
17.5°	847.4	850.1	851.9	861.9	863.6
20°	829.4	832.1	835.7	846.4	848.3
22.5°	808.6	812.2	818.5	830.2	833.0
25°	786.9	790.5	798.7	812.2	814.9
27.5°	762.6	768.0	777.9	792.4	796.0
30°	737.3	742.7	754.4	769.8	775.2
32.5°	710.3	717.4	730.9	748.1	753.6
35°	682.2	690.4	704.8	723.8	730.9
37.5°	652.5	661.5	678.6	699.4	708.4
40°	621.8	632.6	650.7	675.0	684.9
42.5°	591.1	601.1	623.6	649.8	660.6
45°	559.5	571.3	594.8	624.4	635.3
47.5°	527.0	538.7	566.7	598.3	608.2
50°	494.6	506.3	537.9	571.3	583.0
52.5°	459.3	474.7	510.8	544.2	555.9
55°	427.8	442.1	479.2	517.1	529.7
57.5°	391.7	408.8	449.4	489.1	502.6
60°	358.3	376.3	419.6	460.2	473.8
62.5°	324.0	343.8	389.8	431.4	446.7
65°	286.9	311.3	360.0	402.4	417.8
67.5°	253.5	278.9	330.3	373.6	387.1
70°	215.7	246.4	298.7	342.1	357.4
72.5°	183.2	213.8	268.9	311.3	326.6
75°	148.9	182.3	237.3	279.8	293.2
77.5°	114.6	151.6	206.7	239.2	243.6
80°	82.1	121.0	171.4	190.5	196.8
82.5°	57.8	93.0	126.4	139.0	142.6
85°	31.5	61.3	79.4	84.8	84.8
87.5°	13.5	26.2	31.5	32.5	33.4
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)