

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: P733932

Luminaire Tested: **24FCZ2-30-B2750-W2D-CP375-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733932
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: 24FCZ2-30-B2750-W2D-CP375-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

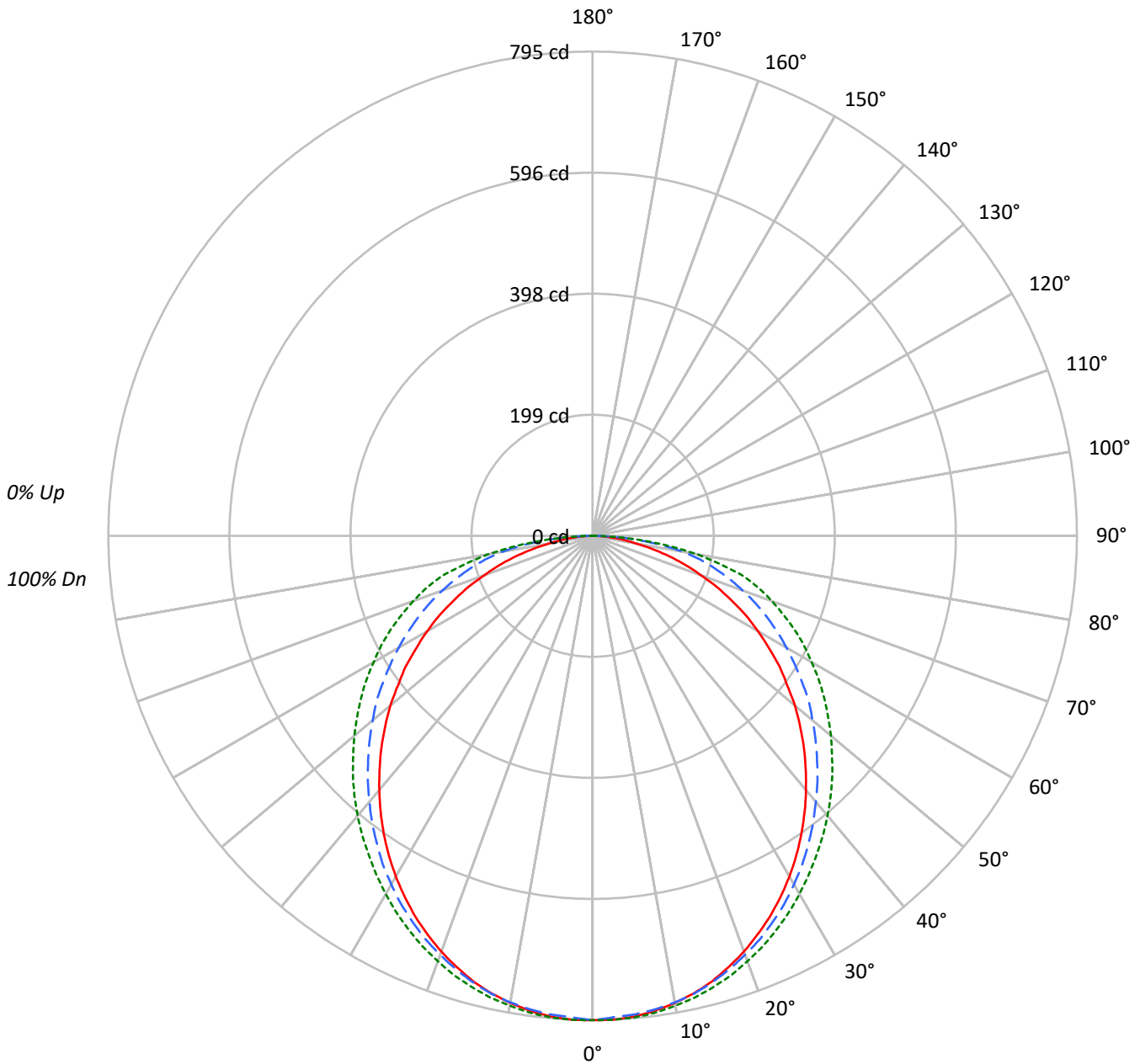
Lumens per Lamp: N/A
Luminaire Lumens: 2369.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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°	1123	1123	1123
5°	1122	1118	1125
10°	1116	1115	1123
15°	1107	1109	1121
20°	1091	1100	1116
25°	1074	1090	1112
30°	1053	1077	1107
35°	1030	1064	1103
40°	1004	1050	1106
45°	978	1040	1111
50°	951	1035	1122
55°	922	1033	1142
60°	886	1038	1172
65°	840	1053	1222
70°	780	1080	1292
75°	712	1134	1401
80°	584	1221	1401
85°	447	1127	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	3.2
10°-20°	214.8	9.1
20°-30°	323.2	13.6
30°-40°	387.3	16.3
40°-50°	403.6	17.0
50°-60°	375.5	15.9
60°-70°	309.3	13.1
70°-80°	210.6	8.9
80°-90°	69.5	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°	613.2	25.9
0°-40°	1000.5	42.2
0°-60°	1779.6	75.1
0°-90°	2369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	792	792	789	793	794	75
15°	757	758	759	766	767	213
25°	690	693	700	712	714	317
35°	598	605	618	634	640	374
45°	490	500	521	547	557	378
55°	375	387	420	453	464	334
65°	251	273	315	353	366	250
75°	130	160	208	245	257	138
85°	28	54	70	74	74	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.4	795.4	795.4	795.4	795.4
2.5°	795.4	795.4	791.4	795.4	795.4
5°	792.2	792.2	789.0	793.0	793.8
7.5°	786.7	787.5	784.4	789.0	789.9
10°	778.7	779.6	778.0	782.7	783.5
12.5°	769.3	770.1	770.1	775.6	776.5
15°	757.4	758.3	759.0	766.2	766.9
17.5°	742.4	744.8	746.3	755.1	756.6
20°	726.6	729.0	732.1	741.6	743.2
22.5°	708.4	711.6	717.1	727.4	729.8
25°	689.5	692.6	699.7	711.6	713.9
27.5°	668.1	672.9	681.5	694.2	697.4
30°	646.0	650.7	661.0	674.4	679.2
32.5°	622.3	628.6	640.4	655.4	660.2
35°	597.7	604.8	617.5	634.1	640.4
37.5°	571.7	579.6	594.5	612.7	620.7
40°	544.8	554.2	570.0	591.4	600.1
42.5°	517.8	526.6	546.3	569.3	578.7
45°	490.2	500.5	521.1	547.1	556.6
47.5°	461.7	472.0	496.5	524.2	532.9
50°	433.3	443.6	471.2	500.5	510.8
52.5°	402.4	415.9	447.5	476.8	487.0
55°	374.8	387.4	419.9	453.0	464.1
57.5°	343.2	358.1	393.8	428.5	440.4
60°	313.9	329.7	367.6	403.2	415.1
62.5°	283.9	301.2	341.5	377.9	391.4
65°	251.4	272.7	315.4	352.6	366.0
67.5°	222.1	244.3	289.4	327.3	339.2
70°	189.0	215.8	261.7	299.7	313.1
72.5°	160.5	187.3	235.6	272.7	286.2
75°	130.5	159.7	207.9	245.1	256.9
77.5°	100.4	132.8	181.1	209.6	213.5
80°	71.9	106.0	150.2	166.9	172.4
82.5°	50.6	81.5	110.7	121.8	124.9
85°	27.6	53.7	69.6	74.3	74.3
87.5°	11.8	23.0	27.6	28.5	29.3
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)