

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: P734059

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734059
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: 24FCZ2-30HE-B2750-W2D-CP375-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

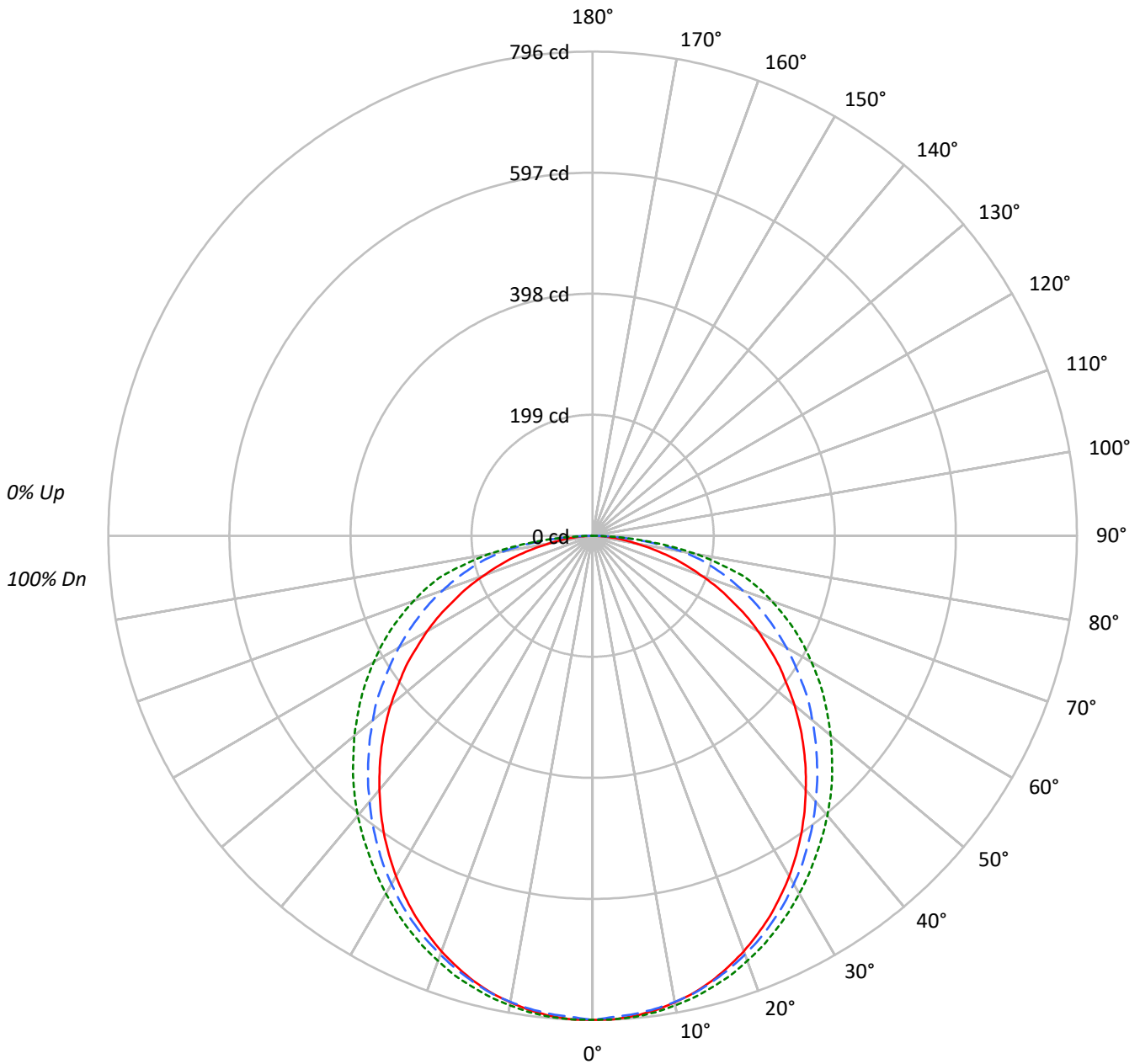
Lumens per Lamp: N/A
Luminaire Lumens: 2370.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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°	1123	1123	1123
5°	1123	1118	1125
10°	1117	1115	1123
15°	1107	1109	1121
20°	1092	1100	1117
25°	1074	1090	1112
30°	1053	1078	1107
35°	1030	1064	1104
40°	1004	1051	1106
45°	979	1040	1111
50°	952	1035	1122
55°	923	1033	1142
60°	886	1038	1172
65°	840	1054	1223
70°	780	1080	1293
75°	712	1134	1401
80°	585	1221	1402
85°	447	1127	1205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	3.2
10°-20°	214.9	9.1
20°-30°	323.3	13.6
30°-40°	387.5	16.3
40°-50°	403.8	17.0
50°-60°	375.7	15.9
60°-70°	309.4	13.1
70°-80°	210.7	8.9
80°-90°	69.6	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°	613.4	25.9
0°-40°	1000.9	42.2
0°-60°	1780.3	75.1
0°-90°	2370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	792	792	789	793	794	75
15°	758	759	759	766	767	213
25°	690	693	700	712	714	318
35°	598	605	618	634	641	374
45°	490	501	521	547	557	378
55°	375	388	420	453	464	334
65°	252	273	316	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°	795.8	795.8	795.8	795.8	795.8
2.5°	795.8	795.8	791.8	795.8	795.8
5°	792.5	792.5	789.4	793.4	794.1
7.5°	787.0	787.8	784.7	789.4	790.2
10°	779.1	779.9	778.3	783.1	783.8
12.5°	769.6	770.4	770.4	775.9	776.8
15°	757.7	758.6	759.3	766.5	767.3
17.5°	742.8	745.1	746.7	755.4	757.0
20°	726.9	729.3	732.5	741.9	743.5
22.5°	708.7	711.9	717.4	727.7	730.1
25°	689.7	692.9	700.0	711.9	714.2
27.5°	668.4	673.2	681.8	694.5	697.7
30°	646.3	650.9	661.2	674.7	679.4
32.5°	622.5	628.8	640.6	655.7	660.5
35°	597.9	605.1	617.8	634.4	640.6
37.5°	571.9	579.8	594.8	613.0	620.9
40°	545.0	554.5	570.3	591.6	600.3
42.5°	518.0	526.8	546.6	569.5	579.0
45°	490.4	500.7	521.3	547.3	556.8
47.5°	461.9	472.2	496.7	524.4	533.1
50°	433.5	443.8	471.4	500.7	511.0
52.5°	402.6	416.0	447.7	477.0	487.3
55°	375.0	387.5	420.0	453.2	464.3
57.5°	343.3	358.3	393.9	428.7	440.5
60°	314.0	329.9	367.8	403.4	415.3
62.5°	284.0	301.4	341.7	378.1	391.5
65°	251.5	272.8	315.6	352.7	366.2
67.5°	222.2	244.4	289.5	327.5	339.3
70°	189.0	215.9	261.8	299.8	313.3
72.5°	160.5	187.4	235.7	272.8	286.3
75°	130.5	159.8	208.0	245.2	257.0
77.5°	100.5	132.9	181.1	209.6	213.5
80°	72.0	106.0	150.2	166.9	172.5
82.5°	50.6	81.5	110.8	121.8	125.0
85°	27.6	53.8	69.6	74.4	74.4
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)