

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: P734057

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734057
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-CP375-3000K
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

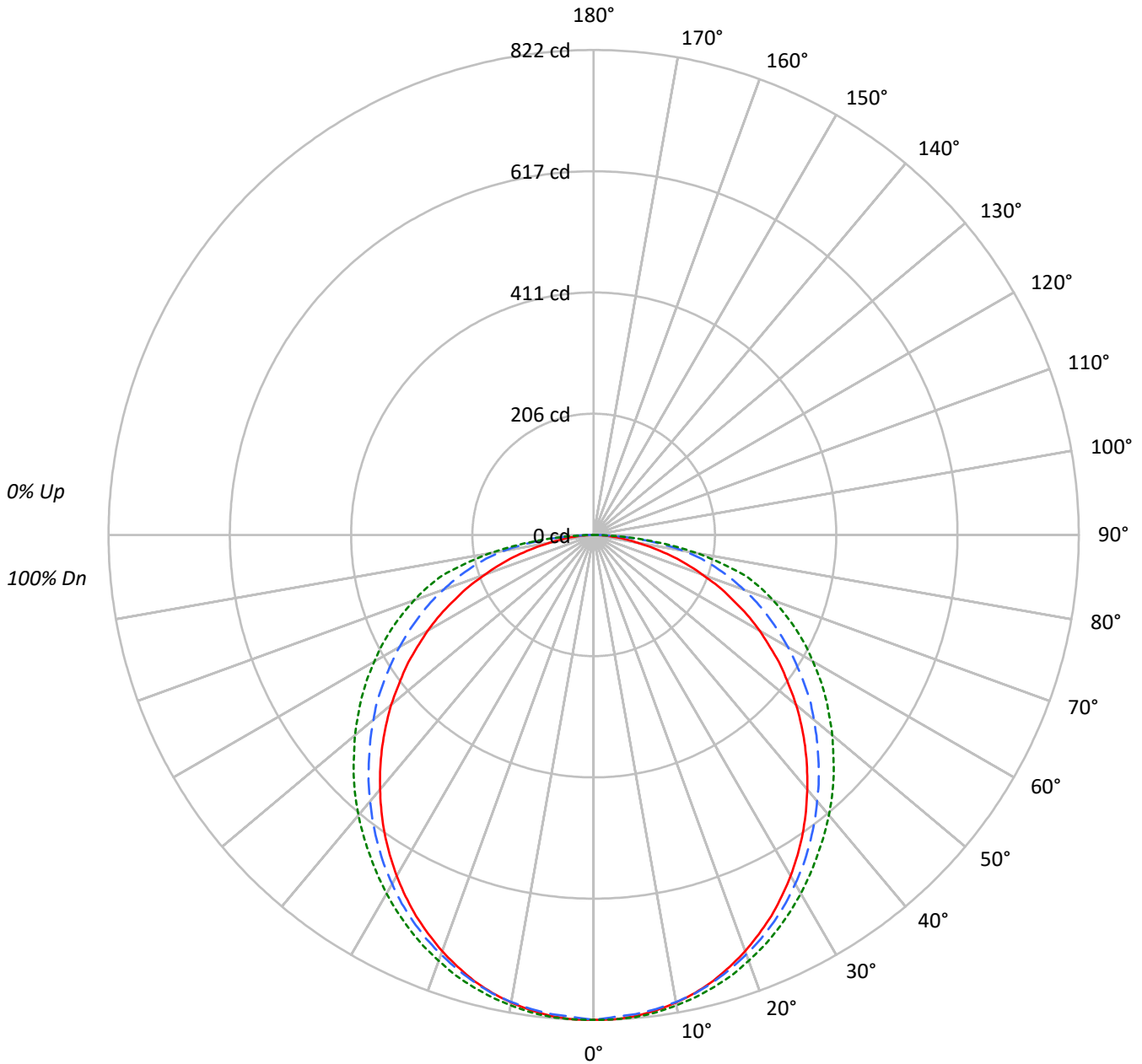
Lumens per Lamp: N/A
Luminaire Lumens: 2448.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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				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°	1160	1160	1160
5°	1160	1155	1162
10°	1153	1152	1160
15°	1144	1146	1158
20°	1128	1136	1153
25°	1109	1126	1149
30°	1088	1113	1144
35°	1064	1099	1140
40°	1037	1085	1142
45°	1011	1075	1148
50°	983	1069	1159
55°	953	1068	1180
60°	916	1072	1211
65°	868	1088	1263
70°	806	1116	1335
75°	735	1172	1448
80°	604	1261	1448
85°	463	1164	1244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.2
10°-20°	221.9	9.1
20°-30°	334.0	13.6
30°-40°	400.2	16.3
40°-50°	417.1	17.0
50°-60°	388.0	15.9
60°-70°	319.6	13.1
70°-80°	217.6	8.9
80°-90°	71.9	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°	633.6	25.9
0°-40°	1033.8	42.2
0°-60°	1838.9	75.1
0°-90°	2448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2448.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	819	819	815	820	820	78
15°	783	784	784	792	792	221
25°	712	716	723	735	738	328
35°	618	625	638	655	662	386
45°	506	517	538	565	575	391
55°	387	400	434	468	480	345
65°	260	282	326	364	378	258
75°	135	165	215	253	266	142
85°	29	56	72	77	77	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	821.9	821.9	821.9	821.9	821.9
2.5°	821.9	821.9	817.8	821.9	821.9
5°	818.6	818.6	815.3	819.5	820.3
7.5°	812.9	813.8	810.5	815.3	816.2
10°	804.7	805.6	803.9	808.8	809.6
12.5°	795.0	795.8	795.8	801.5	802.3
15°	782.7	783.5	784.3	791.7	792.5
17.5°	767.2	769.7	771.2	780.3	781.9
20°	750.8	753.3	756.6	766.3	768.0
22.5°	732.0	735.3	741.0	751.6	754.1
25°	712.4	715.7	723.1	735.3	737.8
27.5°	690.4	695.3	704.3	717.4	720.6
30°	667.5	672.4	683.0	696.9	701.8
32.5°	643.0	649.5	661.7	677.3	682.2
35°	617.6	625.0	638.1	655.2	661.7
37.5°	590.7	598.9	614.4	633.2	641.3
40°	563.0	572.7	589.1	611.1	620.1
42.5°	535.1	544.2	564.5	588.3	598.0
45°	506.5	517.2	538.4	565.3	575.2
47.5°	477.1	487.7	513.0	541.7	550.7
50°	447.8	458.4	486.9	517.2	527.8
52.5°	415.8	429.7	462.4	492.7	503.3
55°	387.3	400.3	433.9	468.1	479.6
57.5°	354.6	370.1	406.9	442.8	455.0
60°	324.4	340.7	379.9	416.6	428.9
62.5°	293.3	311.3	352.9	390.5	404.4
65°	259.8	281.8	325.9	364.3	378.2
67.5°	229.5	252.5	299.1	338.3	350.5
70°	195.3	223.0	270.4	309.7	323.6
72.5°	165.8	193.6	243.4	281.8	295.7
75°	134.8	165.0	214.9	253.3	265.5
77.5°	103.8	137.3	187.1	216.5	220.6
80°	74.3	109.5	155.2	172.4	178.1
82.5°	52.3	84.2	114.4	125.8	129.1
85°	28.6	55.5	71.9	76.8	76.8
87.5°	12.2	23.7	28.6	29.4	30.2
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)