

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: P734130

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-S-B2750-W2D-CP250-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

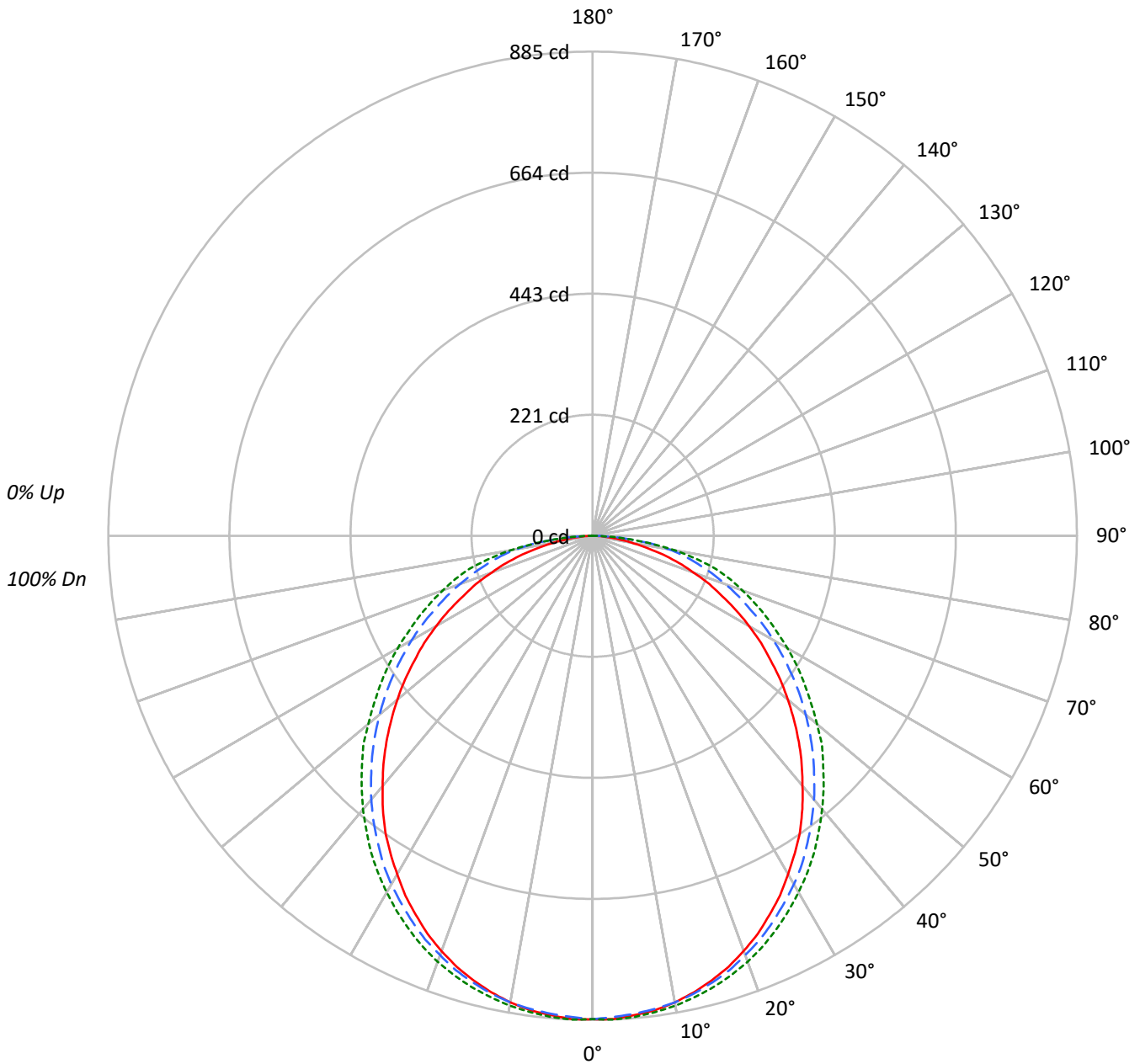
Lumens per Lamp: N/A
Luminaire Lumens: 2515.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83								
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69								
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58								
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49								
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42								
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37								
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33								
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29								
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26								
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1247	1247	1247
5°	1246	1243	1251
10°	1241	1241	1250
15°	1229	1235	1248
20°	1213	1225	1244
25°	1191	1213	1237
30°	1164	1199	1226
35°	1138	1180	1217
40°	1100	1160	1203
45°	1063	1137	1190
50°	1023	1116	1175
55°	977	1095	1164
60°	931	1078	1161
65°	872	1059	1168
70°	808	1065	1200
75°	723	1085	1267
80°	584	1149	1240
85°	439	1009	983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	3.3
10°-20°	239.0	9.5
20°-30°	359.3	14.3
30°-40°	428.0	17.0
40°-50°	438.0	17.4
50°-60°	394.3	15.7
60°-70°	309.7	12.3
70°-80°	201.0	8.0
80°-90°	62.2	2.5
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°	681.9	27.1
0°-40°	1109.9	44.1
0°-60°	1942.2	77.2
0°-90°	2515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2515.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	880	881	877	882	883	84
15°	841	844	845	852	854	237
25°	764	771	779	792	794	352
35°	661	669	685	701	706	412
45°	533	546	570	591	596	411
55°	397	415	445	468	473	356
65°	261	281	317	344	350	260
75°	133	158	199	226	232	140
85°	27	50	62	61	61	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	883.6	883.6	883.6	883.6	<i>883.6</i>
2.5°	<i>884.3</i>	<i>884.3</i>	<i>880.3</i>	<i>884.3</i>	<i>885.1</i>
5°	879.5	881.2	877.1	881.9	<i>882.7</i>
7.5°	874.7	874.7	872.3	877.1	<i>878.0</i>
10°	866.0	866.7	866.0	871.5	<i>872.3</i>
12.5°	854.8	856.3	857.2	862.8	<i>863.6</i>
15°	841.2	843.6	845.2	852.4	<i>854.0</i>
17.5°	826.0	828.4	832.4	840.4	<i>842.0</i>
20°	807.6	810.8	815.6	826.0	<i>828.4</i>
22.5°	787.7	790.9	798.9	808.4	<i>812.4</i>
25°	764.5	770.9	778.9	791.7	<i>794.1</i>
27.5°	741.3	746.9	757.3	770.9	<i>774.1</i>
30°	714.2	722.9	735.7	749.3	<i>752.5</i>
32.5°	687.8	696.6	711.8	726.2	<i>730.2</i>
35°	660.7	668.7	684.6	701.4	<i>706.2</i>
37.5°	629.5	639.9	657.5	674.2	<i>679.0</i>
40°	596.8	609.6	629.5	647.1	<i>652.7</i>
42.5°	565.6	579.1	599.2	618.3	<i>624.7</i>
45°	532.8	545.6	569.6	591.2	<i>596.0</i>
47.5°	499.2	513.7	539.2	560.8	<i>568.7</i>
50°	465.8	481.0	508.1	530.4	<i>535.2</i>
52.5°	432.2	448.1	476.9	500.9	<i>503.3</i>
55°	397.0	414.6	445.0	468.2	<i>473.0</i>
57.5°	365.1	380.3	413.0	437.0	<i>442.6</i>
60°	329.9	346.7	381.8	404.3	<i>411.4</i>
62.5°	296.4	314.0	350.7	373.1	<i>379.4</i>
65°	261.2	281.2	317.1	343.5	<i>349.9</i>
67.5°	230.9	250.1	288.4	314.0	<i>320.3</i>
70°	195.7	217.3	258.0	284.4	<i>290.8</i>
72.5°	165.4	187.7	228.5	254.0	<i>263.6</i>
75°	132.6	158.1	198.9	226.1	<i>232.4</i>
77.5°	100.7	130.2	171.7	192.5	<i>192.5</i>
80°	71.9	103.1	141.4	151.0	<i>152.6</i>
82.5°	47.2	77.5	104.6	103.9	<i>103.9</i>
85°	27.1	50.3	62.3	60.7	<i>60.7</i>
87.5°	10.4	20.8	22.3	22.3	<i>21.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)