

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: P734095

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-RDP-B2750-W2D-CA125-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

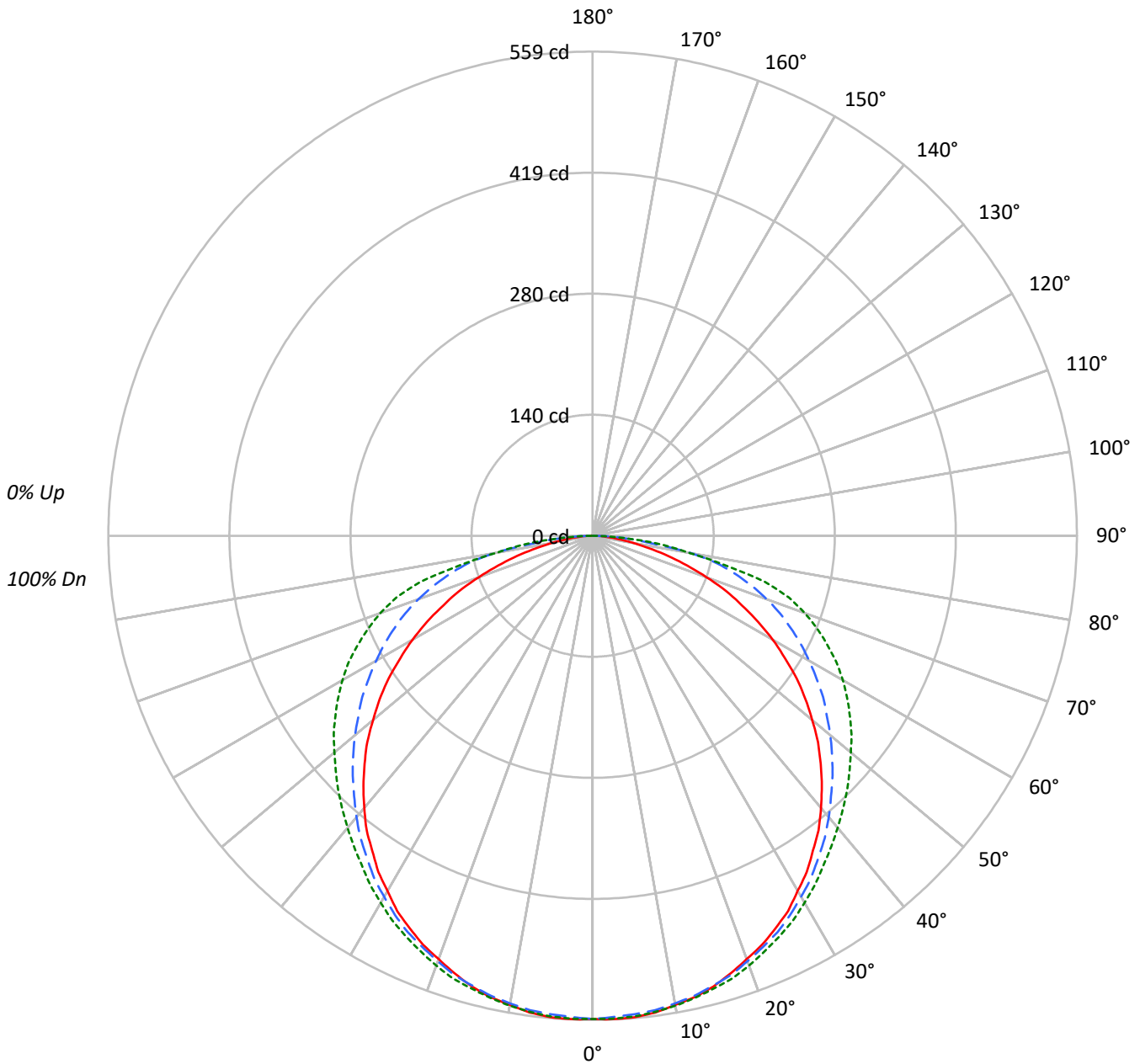
Lumens per Lamp: N/A
Luminaire Lumens: 1774.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	787	787	787
5°	790	785	789
10°	788	786	790
15°	787	786	791
20°	781	785	793
25°	778	786	795
30°	771	784	797
35°	764	782	800
40°	756	781	811
45°	743	782	829
50°	726	786	854
55°	708	799	892
60°	678	815	941
65°	635	843	999
70°	577	882	1075
75°	490	931	1123
80°	386	936	908
85°	285	713	797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	3.0
10°-20°	152.3	8.6
20°-30°	232.9	13.1
30°-40°	284.7	16.0
40°-50°	303.5	17.1
50°-60°	290.1	16.4
60°-70°	245.8	13.9
70°-80°	165.2	9.3
80°-90°	46.6	2.6
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°	438.1	24.7
0°-40°	722.8	40.7
0°-60°	1316.4	74.2
0°-90°	1774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	558	558	558	558	558	
5°	558	557	554	557	557	53
15°	539	539	538	542	541	152
25°	500	502	505	510	510	230
35°	444	447	454	463	465	278
45°	372	378	392	408	415	287
55°	288	298	325	350	362	256
65°	190	209	252	286	299	189
75°	90	122	171	200	206	96
85°	18	36	44	48	49	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	557.9	557.9	557.9	557.9	557.9
2.5°	558.7	558.7	556.1	557.9	557.9
5°	557.9	557.0	554.4	557.0	557.0
7.5°	555.2	554.4	552.6	555.2	554.4
10°	549.9	549.9	548.2	550.9	550.9
12.5°	545.6	544.7	543.8	547.3	546.4
15°	538.6	538.6	537.6	542.1	541.1
17.5°	529.8	530.6	531.5	535.0	535.9
20°	520.0	521.8	522.7	528.0	528.0
22.5°	511.2	512.1	513.8	519.2	519.2
25°	499.8	501.5	505.0	509.5	510.3
27.5°	488.4	489.2	493.7	499.8	500.7
30°	473.4	476.1	481.3	488.4	489.2
32.5°	460.2	462.8	469.0	476.1	477.8
35°	443.5	447.0	454.0	462.8	464.6
37.5°	428.5	431.2	440.0	449.7	452.3
40°	410.1	415.3	424.1	435.5	440.0
42.5°	391.6	396.8	407.4	422.4	427.7
45°	372.2	378.4	391.6	408.3	415.3
47.5°	352.9	359.9	374.9	394.2	402.1
50°	330.8	339.6	358.1	380.2	389.0
52.5°	309.7	320.3	340.6	365.2	376.7
55°	287.7	298.2	324.7	350.2	362.5
57.5°	263.1	277.1	306.2	335.3	348.4
60°	240.2	253.4	288.6	320.3	333.5
62.5°	215.6	233.2	271.0	304.4	317.7
65°	190.0	209.4	252.5	285.9	299.2
67.5°	167.2	188.3	234.1	267.5	280.7
70°	139.9	166.3	213.8	247.2	260.5
72.5°	114.4	143.4	192.7	225.3	237.6
75°	89.8	122.3	170.7	199.8	205.9
77.5°	66.8	101.2	147.8	160.1	155.8
80°	47.5	81.0	115.2	109.1	111.7
82.5°	30.8	61.6	71.3	81.0	83.6
85°	17.6	36.1	44.0	47.5	49.2
87.5°	8.0	13.2	17.6	17.6	16.8
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)