

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: P734097

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734097
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-CP187-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

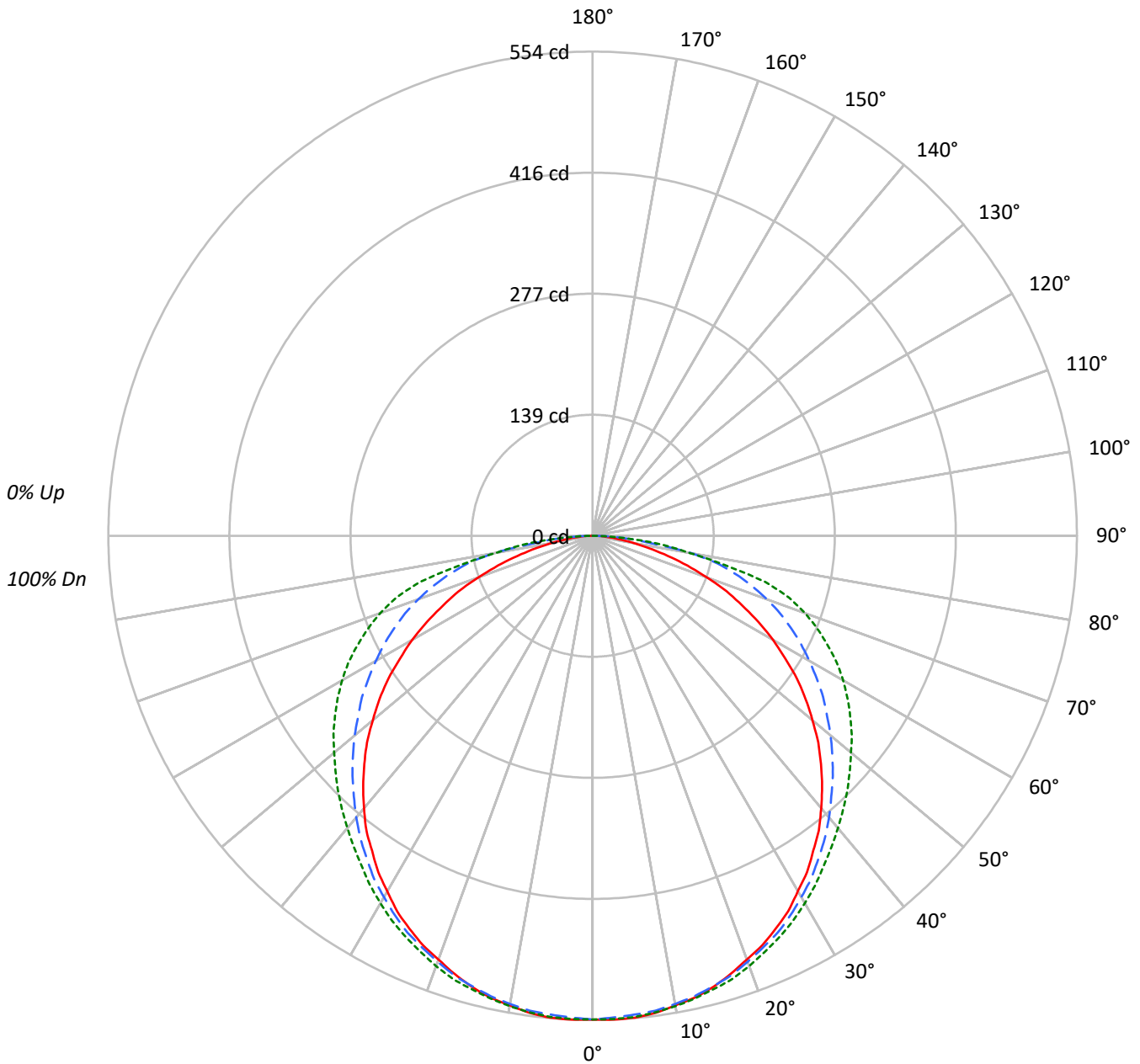
Lumens per Lamp: N/A
Luminaire Lumens: 1760.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	67	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°	781	781	781
5°	784	779	783
10°	782	779	783
15°	781	779	784
20°	775	779	787
25°	772	780	788
30°	765	778	791
35°	758	776	794
40°	749	775	804
45°	737	775	822
50°	721	780	847
55°	703	793	885
60°	673	808	934
65°	629	837	991
70°	573	875	1066
75°	486	924	1114
80°	384	929	901
85°	283	708	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	3.0
10°-20°	151.1	8.6
20°-30°	231.1	13.1
30°-40°	282.5	16.0
40°-50°	301.1	17.1
50°-60°	287.9	16.4
60°-70°	243.8	13.9
70°-80°	163.9	9.3
80°-90°	46.2	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°	434.7	24.7
0°-40°	717.1	40.7
0°-60°	1306.1	74.2
0°-90°	1760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	554	554	554	554	554	
5°	554	553	550	553	553	53
15°	534	534	533	538	537	151
25°	496	498	501	506	506	229
35°	440	444	450	459	461	276
45°	369	375	388	405	412	285
55°	286	296	322	348	360	254
65°	188	208	250	284	297	187
75°	89	121	169	198	204	95
85°	18	36	44	47	49	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	553.5	553.5	553.5	553.5	553.5
2.5°	554.3	554.3	551.7	553.5	553.5
5°	553.5	552.6	550.0	552.6	552.6
7.5°	550.8	550.0	548.2	550.8	550.0
10°	545.6	545.6	543.9	546.5	546.5
12.5°	541.3	540.4	539.5	542.9	542.1
15°	534.3	534.3	533.4	537.8	536.8
17.5°	525.6	526.4	527.3	530.7	531.7
20°	515.9	517.7	518.5	523.8	523.8
22.5°	507.2	508.1	509.8	515.1	515.1
25°	495.9	497.6	501.1	505.5	506.3
27.5°	484.5	485.4	489.8	495.9	496.7
30°	469.7	472.3	477.5	484.5	485.4
32.5°	456.5	459.2	465.3	472.3	474.0
35°	440.0	443.5	450.4	459.2	460.9
37.5°	425.2	427.8	436.5	446.1	448.7
40°	406.8	412.0	420.7	432.1	436.5
42.5°	388.5	393.7	404.2	419.1	424.3
45°	369.3	375.4	388.5	405.1	412.0
47.5°	350.1	357.1	371.9	391.1	398.9
50°	328.2	336.9	355.3	377.2	385.9
52.5°	307.3	317.8	337.9	362.3	373.7
55°	285.5	295.9	322.1	347.5	359.7
57.5°	261.1	274.9	303.8	332.6	345.7
60°	238.3	251.4	286.3	317.8	330.8
62.5°	213.9	231.4	268.8	302.0	315.2
65°	188.5	207.8	250.5	283.7	296.8
67.5°	165.9	186.8	232.2	265.4	278.5
70°	138.8	164.9	212.1	245.3	258.4
72.5°	113.5	142.3	191.2	223.5	235.7
75°	89.1	121.4	169.4	198.2	204.3
77.5°	66.3	100.4	146.6	158.8	154.5
80°	47.2	80.3	114.3	108.2	110.8
82.5°	30.5	61.2	70.7	80.3	82.9
85°	17.5	35.8	43.7	47.2	48.8
87.5°	7.9	13.1	17.5	17.5	16.6
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)