

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: P734076

Luminaire Tested: **24FCZ2-30HE-HRP-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-HRP-B2750-W2D-CP250-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

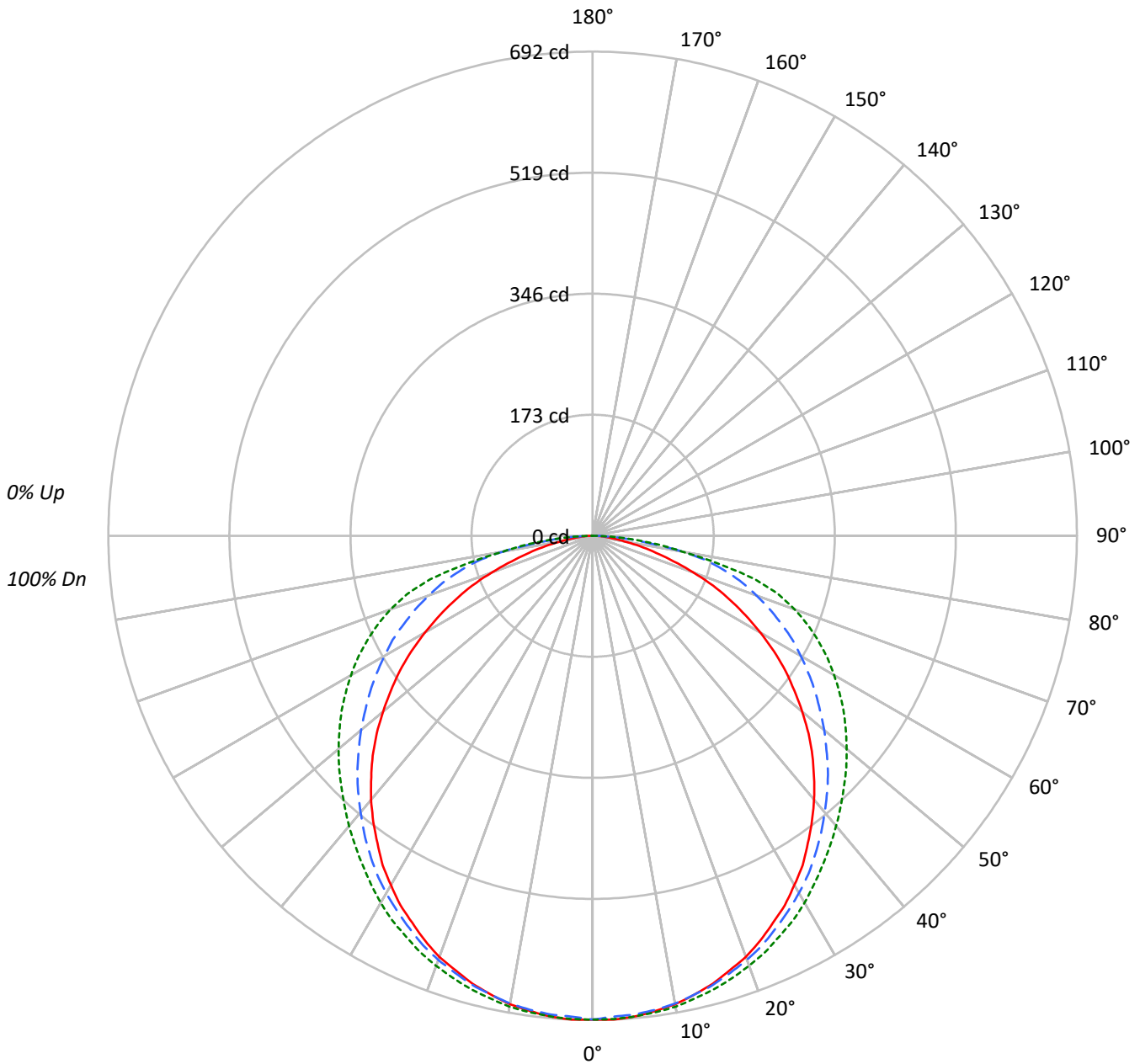
Lumens per Lamp: N/A
Luminaire Lumens: 2131.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	101	96	93	96	93	90	92	90	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	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	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	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	976	976	976
5°	977	973	977
10°	974	973	979
15°	969	971	980
20°	962	969	982
25°	950	964	984
30°	939	961	987
35°	924	956	988
40°	907	950	998
45°	887	949	1013
50°	858	948	1040
55°	827	955	1078
60°	781	970	1125
65°	721	992	1189
70°	630	1027	1266
75°	511	1080	1309
80°	376	1059	1059
85°	290	781	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	3.1
10°-20°	188.1	8.8
20°-30°	286.3	13.4
30°-40°	347.7	16.3
40°-50°	367.3	17.2
50°-60°	346.6	16.3
60°-70°	288.2	13.5
70°-80°	189.6	8.9
80°-90°	51.7	2.4
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°	539.9	25.3
0°-40°	887.6	41.7
0°-60°	1601.5	75.2
0°-90°	2131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	691	691	691	691	691	
5°	690	690	687	690	690	66
15°	663	664	665	671	671	187
25°	610	614	619	630	632	281
35°	536	542	555	569	574	336
45°	444	453	476	499	508	342
55°	336	351	388	425	438	300
65°	216	241	297	341	356	213
75°	94	136	198	235	240	101
85°	18	39	48	54	54	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.4	691.4	691.4	691.4	691.4
2.5°	692.3	691.4	687.8	691.4	691.4
5°	689.7	689.7	686.9	689.7	689.7
7.5°	685.1	685.1	683.4	686.9	686.9
10°	679.8	679.8	678.9	683.4	683.4
12.5°	671.8	672.7	671.8	677.1	677.1
15°	662.9	663.7	664.6	670.9	670.9
17.5°	651.3	653.0	654.8	662.0	662.9
20°	640.6	641.5	645.0	653.0	653.9
22.5°	626.2	629.0	633.4	641.5	644.1
25°	610.2	613.8	619.2	629.9	631.6
27.5°	595.0	597.8	604.8	616.4	620.0
30°	576.4	580.8	589.7	601.3	605.7
32.5°	558.5	562.9	573.6	586.2	589.7
35°	536.2	542.4	555.0	569.2	573.6
37.5°	514.8	521.0	536.2	552.2	557.6
40°	492.4	499.6	515.7	534.4	541.5
42.5°	468.3	478.2	496.0	516.6	524.6
45°	444.3	453.2	475.5	498.7	507.6
47.5°	418.4	429.1	453.2	480.8	491.5
50°	390.8	404.1	431.8	462.2	473.8
52.5°	363.1	378.2	409.4	443.4	455.9
55°	336.3	350.6	388.0	424.7	438.0
57.5°	306.9	324.7	365.7	405.0	418.4
60°	276.6	296.2	343.5	384.5	398.7
62.5°	246.3	268.5	322.1	363.1	378.2
65°	215.9	240.8	297.1	340.8	355.9
67.5°	186.5	214.1	273.8	317.6	332.8
70°	152.6	187.3	248.9	291.7	306.9
72.5°	121.4	161.5	224.9	265.0	278.4
75°	93.7	136.5	198.0	234.7	240.0
77.5°	68.7	111.5	170.3	182.9	183.8
80°	46.3	89.3	130.3	128.4	130.3
82.5°	30.3	66.9	82.1	91.9	92.8
85°	17.9	39.3	48.2	53.5	54.4
87.5°	8.9	13.3	17.0	17.9	19.6
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)