

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: P734080

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734080
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-CP250-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

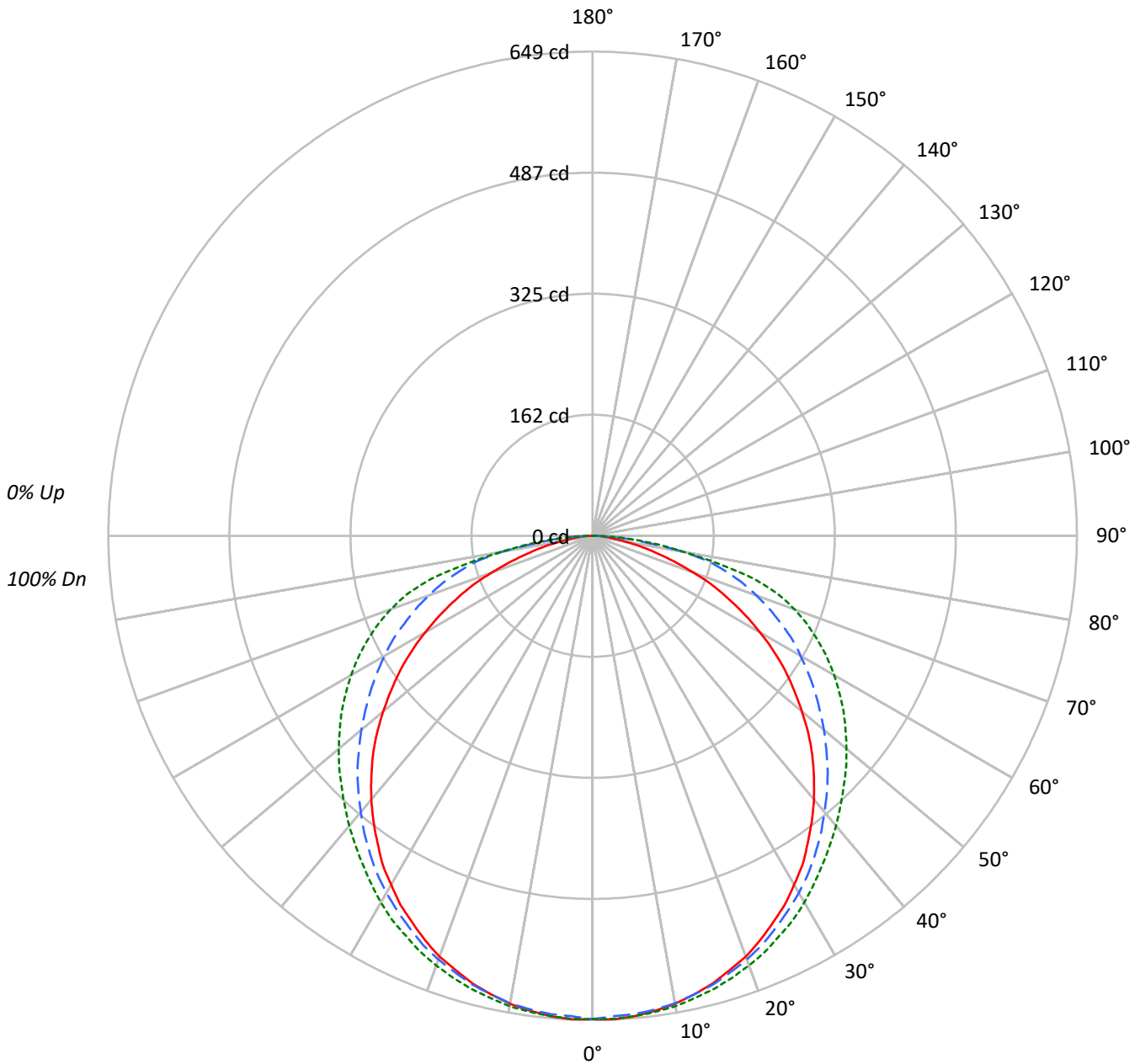
Lumens per Lamp: N/A
Luminaire Lumens: 1997.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	915	915	915
5°	916	912	916
10°	913	912	918
15°	908	910	919
20°	902	908	920
25°	891	904	922
30°	880	901	925
35°	866	896	926
40°	850	890	935
45°	831	889	949
50°	804	889	975
55°	775	895	1010
60°	732	909	1055
65°	676	930	1114
70°	590	963	1187
75°	479	1012	1226
80°	353	992	992
85°	270	732	826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	3.1
10°-20°	176.3	8.8
20°-30°	268.3	13.4
30°-40°	325.8	16.3
40°-50°	344.2	17.2
50°-60°	324.8	16.3
60°-70°	270.1	13.5
70°-80°	177.7	8.9
80°-90°	48.4	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°	506.0	25.3
0°-40°	831.8	41.7
0°-60°	1500.8	75.2
0°-90°	1997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1997.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	646	646	644	646	646	61
15°	621	622	623	629	629	175
25°	572	575	580	590	592	264
35°	502	508	520	533	538	315
45°	416	425	446	467	476	321
55°	315	329	364	398	410	281
65°	202	226	278	319	334	200
75°	88	128	186	220	225	95
85°	17	37	45	50	51	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	648.0	648.0	648.0	648.0	648.0
2.5°	648.8	648.0	644.5	648.0	648.0
5°	646.3	646.3	643.7	646.3	646.3
7.5°	642.1	642.1	640.4	643.7	643.7
10°	637.1	637.1	636.2	640.4	640.4
12.5°	629.5	630.4	629.5	634.5	634.5
15°	621.2	622.0	622.8	628.7	628.7
17.5°	610.3	612.0	613.6	620.3	621.2
20°	600.3	601.1	604.4	612.0	612.8
22.5°	586.8	589.4	593.6	601.1	603.6
25°	571.9	575.2	580.2	590.3	591.9
27.5°	557.6	560.2	566.8	577.6	581.1
30°	540.1	544.3	552.6	563.5	567.6
32.5°	523.4	527.5	537.5	549.3	552.6
35°	502.5	508.3	520.1	533.4	537.5
37.5°	482.4	488.2	502.5	517.5	522.5
40°	461.4	468.2	483.3	500.8	507.4
42.5°	438.9	448.1	464.8	484.1	491.6
45°	416.4	424.7	445.6	467.3	475.7
47.5°	392.1	402.1	424.7	450.6	460.6
50°	366.2	378.7	404.7	433.1	444.0
52.5°	340.3	354.4	383.7	415.5	427.2
55°	315.1	328.6	363.6	398.0	410.5
57.5°	287.6	304.3	342.7	379.5	392.1
60°	259.2	277.6	321.9	360.3	373.7
62.5°	230.8	251.7	301.8	340.3	354.4
65°	202.3	225.7	278.4	319.4	333.5
67.5°	174.7	200.7	256.6	297.7	311.8
70°	143.0	175.6	233.3	273.4	287.6
72.5°	113.7	151.4	210.7	248.3	260.9
75°	87.8	127.9	185.6	219.9	224.9
77.5°	64.4	104.5	159.6	171.4	172.2
80°	43.4	83.6	122.1	120.3	122.1
82.5°	28.4	62.7	76.9	86.1	87.0
85°	16.7	36.8	45.2	50.1	51.0
87.5°	8.4	12.5	15.9	16.7	18.4
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)