

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: P733954

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733954
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: 24FCZ2-30-HRP-B2750-W2D-CP250-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

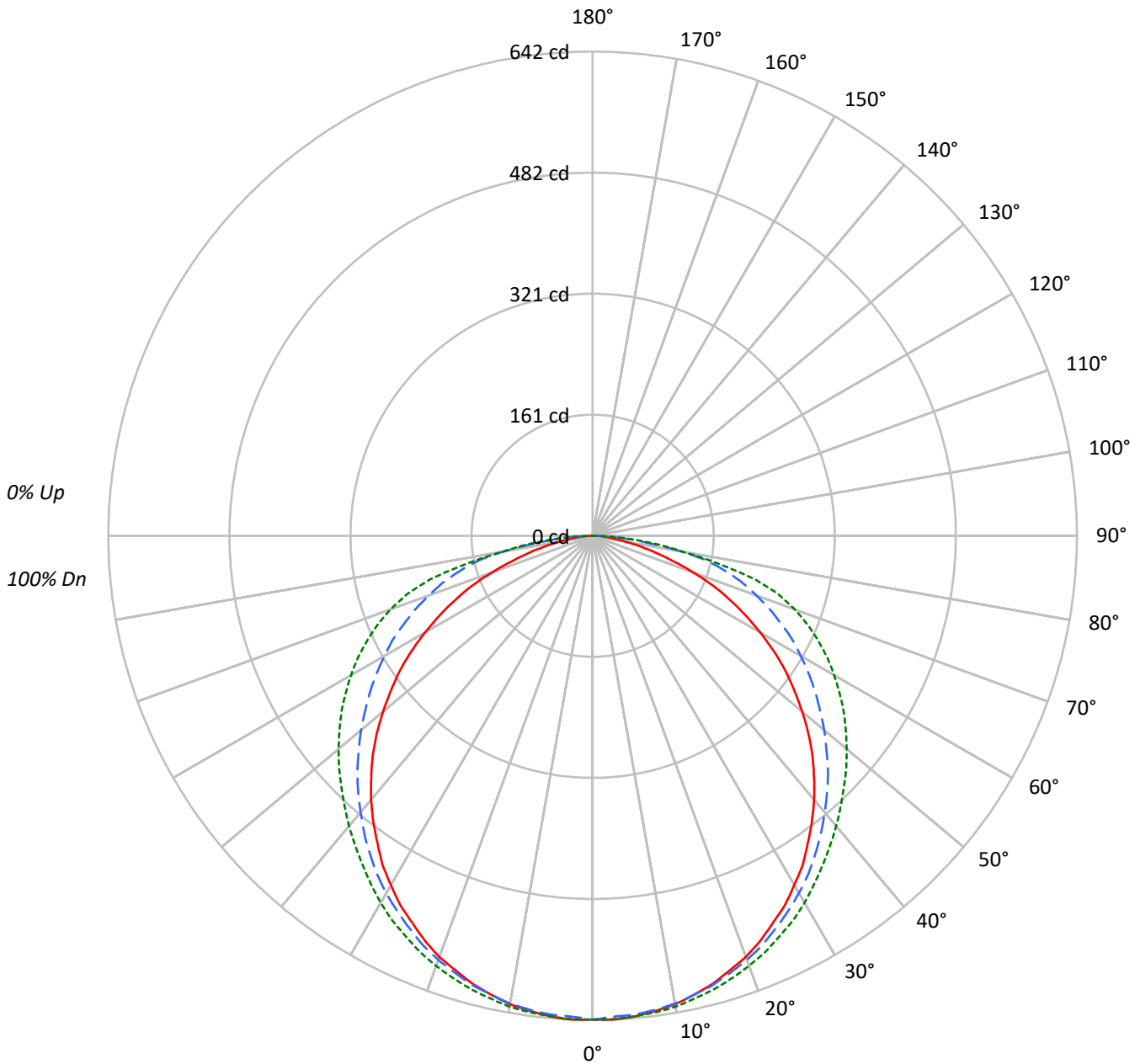
Lumens per Lamp: N/A
Luminaire Lumens: 1977.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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°	905	905	905
5°	906	903	906
10°	904	903	909
15°	899	901	909
20°	893	899	911
25°	882	894	913
30°	871	892	916
35°	857	887	917
40°	842	881	926
45°	823	881	940
50°	796	880	965
55°	768	886	1000
60°	724	899	1044
65°	669	920	1103
70°	584	953	1175
75°	474	1002	1214
80°	349	983	983
85°	269	724	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	3.1
10°-20°	174.5	8.8
20°-30°	265.6	13.4
30°-40°	322.5	16.3
40°-50°	340.8	17.2
50°-60°	321.5	16.3
60°-70°	267.4	13.5
70°-80°	175.9	8.9
80°-90°	48.0	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°	500.9	25.3
0°-40°	823.4	41.7
0°-60°	1485.8	75.2
0°-90°	1977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	642	642	642	642	642	
5°	640	640	637	640	640	61
15°	615	616	617	622	622	173
25°	566	569	574	584	586	261
35°	497	503	515	528	532	311
45°	412	420	441	463	471	317
55°	312	325	360	394	406	278
65°	200	223	276	316	330	198
75°	87	127	184	218	223	94
85°	17	36	45	50	50	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	641.5	641.5	641.5	641.5	641.5
2.5°	642.3	641.5	638.1	641.5	641.5
5°	639.8	639.8	637.3	639.8	639.8
7.5°	635.6	635.6	634.0	637.3	637.3
10°	630.7	630.7	629.8	634.0	634.0
12.5°	623.2	624.1	623.2	628.2	628.2
15°	615.0	615.8	616.6	622.4	622.4
17.5°	604.2	605.8	607.5	614.1	615.0
20°	594.3	595.1	598.4	605.8	606.7
22.5°	581.0	583.5	587.6	595.1	597.6
25°	566.1	569.4	574.4	584.3	586.0
27.5°	552.0	554.6	561.1	571.9	575.2
30°	534.7	538.8	547.1	557.8	561.9
32.5°	518.1	522.2	532.1	543.8	547.1
35°	497.4	503.2	514.8	528.1	532.1
37.5°	477.6	483.3	497.4	512.3	517.3
40°	456.8	463.5	478.4	495.8	502.4
42.5°	434.5	443.6	460.2	479.2	486.7
45°	412.2	420.5	441.2	462.6	470.9
47.5°	388.1	398.1	420.5	446.1	456.0
50°	362.5	374.9	400.6	428.8	439.5
52.5°	336.9	350.9	379.8	411.4	422.9
55°	312.0	325.3	360.0	394.0	406.4
57.5°	284.8	301.2	339.3	375.7	388.1
60°	256.6	274.8	318.6	356.7	369.9
62.5°	228.5	249.1	298.8	336.9	350.9
65°	200.3	223.4	275.6	316.2	330.2
67.5°	173.0	198.7	254.0	294.7	308.7
70°	141.6	173.8	230.9	270.6	284.8
72.5°	112.6	149.8	208.6	245.9	258.2
75°	86.9	126.6	183.7	217.7	222.6
77.5°	63.8	103.5	158.0	169.7	170.5
80°	43.0	82.8	120.9	119.1	120.9
82.5°	28.1	62.0	76.2	85.3	86.1
85°	16.6	36.4	44.7	49.6	50.5
87.5°	8.3	12.4	15.8	16.6	18.2
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)