

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: P734078

Luminaire Tested: **24FCZ2-30HE-HRP-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734078
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-CP250-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

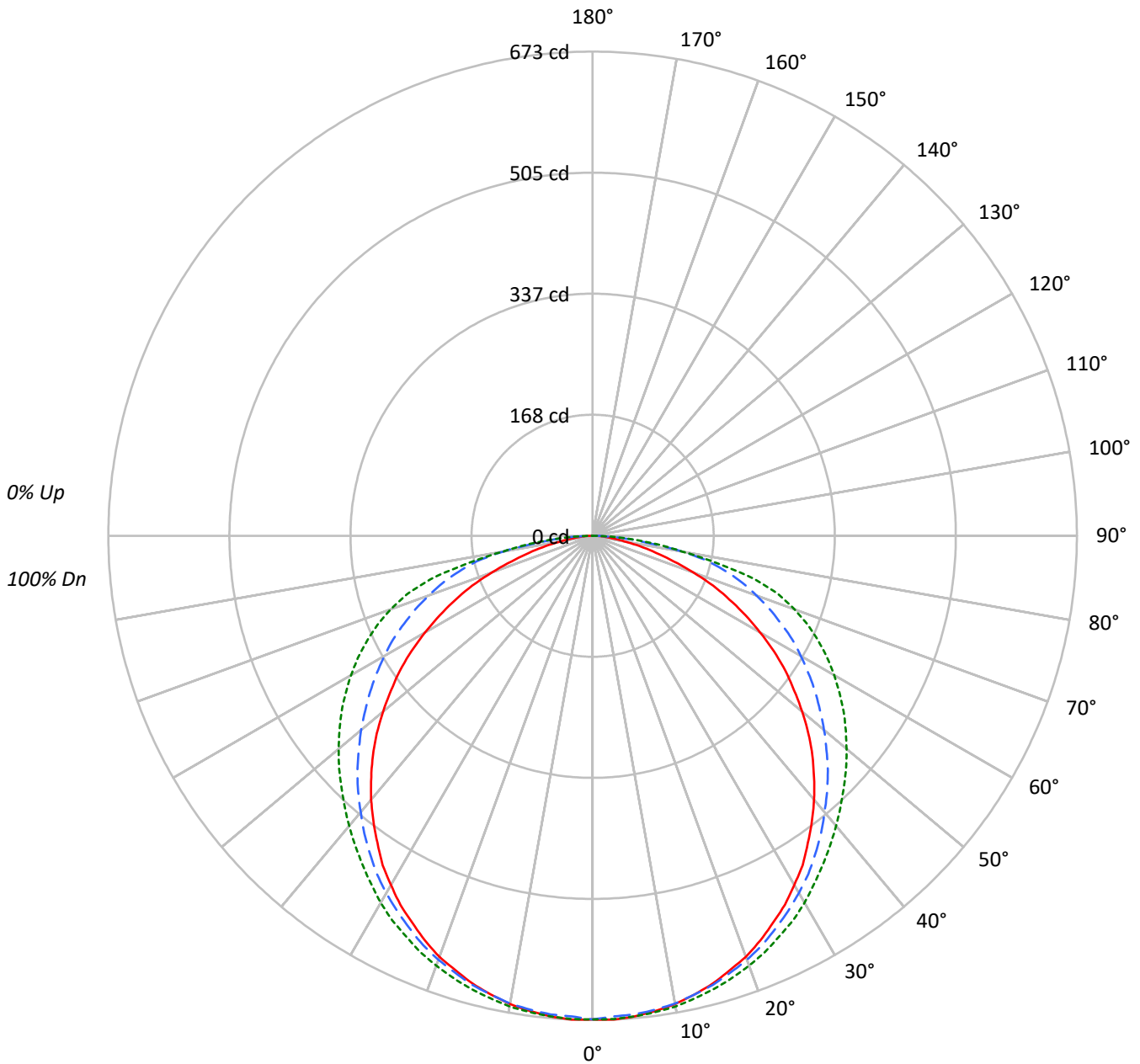
Lumens per Lamp: N/A
Luminaire Lumens: 2072.0 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	949	949	949
5°	950	946	950
10°	947	946	952
15°	942	944	953
20°	935	942	955
25°	924	937	956
30°	913	934	960
35°	898	930	961
40°	882	924	970
45°	862	923	985
50°	834	922	1011
55°	805	928	1048
60°	759	942	1094
65°	701	965	1156
70°	612	999	1231
75°	497	1050	1272
80°	367	1030	1030
85°	282	759	857



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	3.1
10°-20°	182.9	8.8
20°-30°	278.4	13.4
30°-40°	338.0	16.3
40°-50°	357.2	17.2
50°-60°	337.0	16.3
60°-70°	280.2	13.5
70°-80°	184.4	8.9
80°-90°	50.3	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°	525.0	25.3
0°-40°	863.0	41.7
0°-60°	1557.2	75.2
0°-90°	2072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	672	672	672	672	672	
5°	671	671	668	671	671	64
15°	644	645	646	652	652	182
25°	593	597	602	612	614	274
35°	521	527	540	553	558	326
45°	432	441	462	485	494	333
55°	327	341	377	413	426	291
65°	210	234	289	331	346	208
75°	91	133	193	228	233	98
85°	17	38	47	52	53	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	672.3	672.3	672.3	672.3	672.3
2.5°	673.1	672.3	668.7	672.3	672.3
5°	670.6	670.6	667.9	670.6	670.6
7.5°	666.2	666.2	664.5	667.9	667.9
10°	661.0	661.0	660.1	664.5	664.5
12.5°	653.2	654.1	653.2	658.3	658.3
15°	644.5	645.4	646.2	652.3	652.3
17.5°	633.2	635.0	636.7	643.6	644.5
20°	622.8	623.7	627.1	635.0	635.8
22.5°	608.9	611.6	615.9	623.7	626.3
25°	593.3	596.8	602.0	612.4	614.1
27.5°	578.5	581.2	588.1	599.3	602.9
30°	560.4	564.7	573.4	584.6	588.9
32.5°	543.0	547.3	557.7	569.9	573.4
35°	521.4	527.4	539.6	553.4	557.7
37.5°	500.5	506.5	521.4	536.9	542.2
40°	478.8	485.7	501.4	519.6	526.5
42.5°	455.4	464.9	482.3	502.3	510.1
45°	432.0	440.7	462.4	484.9	493.6
47.5°	406.8	417.2	440.7	467.5	477.9
50°	380.0	392.9	419.9	449.4	460.6
52.5°	353.0	367.7	398.1	431.1	443.3
55°	327.0	340.9	377.3	412.9	425.9
57.5°	298.4	315.7	355.6	393.8	406.8
60°	268.9	288.0	333.9	373.9	387.7
62.5°	239.4	261.1	313.1	353.0	367.7
65°	209.9	234.2	288.9	331.4	346.1
67.5°	181.3	208.2	266.3	308.8	323.5
70°	148.4	182.2	242.0	283.6	298.4
72.5°	118.0	157.0	218.6	257.7	270.7
75°	91.1	132.7	192.6	228.2	233.3
77.5°	66.8	108.5	165.6	177.9	178.7
80°	45.1	86.8	126.7	124.9	126.7
82.5°	29.5	65.0	79.8	89.4	90.2
85°	17.4	38.2	46.9	52.0	52.9
87.5°	8.7	13.0	16.5	17.4	19.1
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)