

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: P733950

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P733950
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-CP187-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

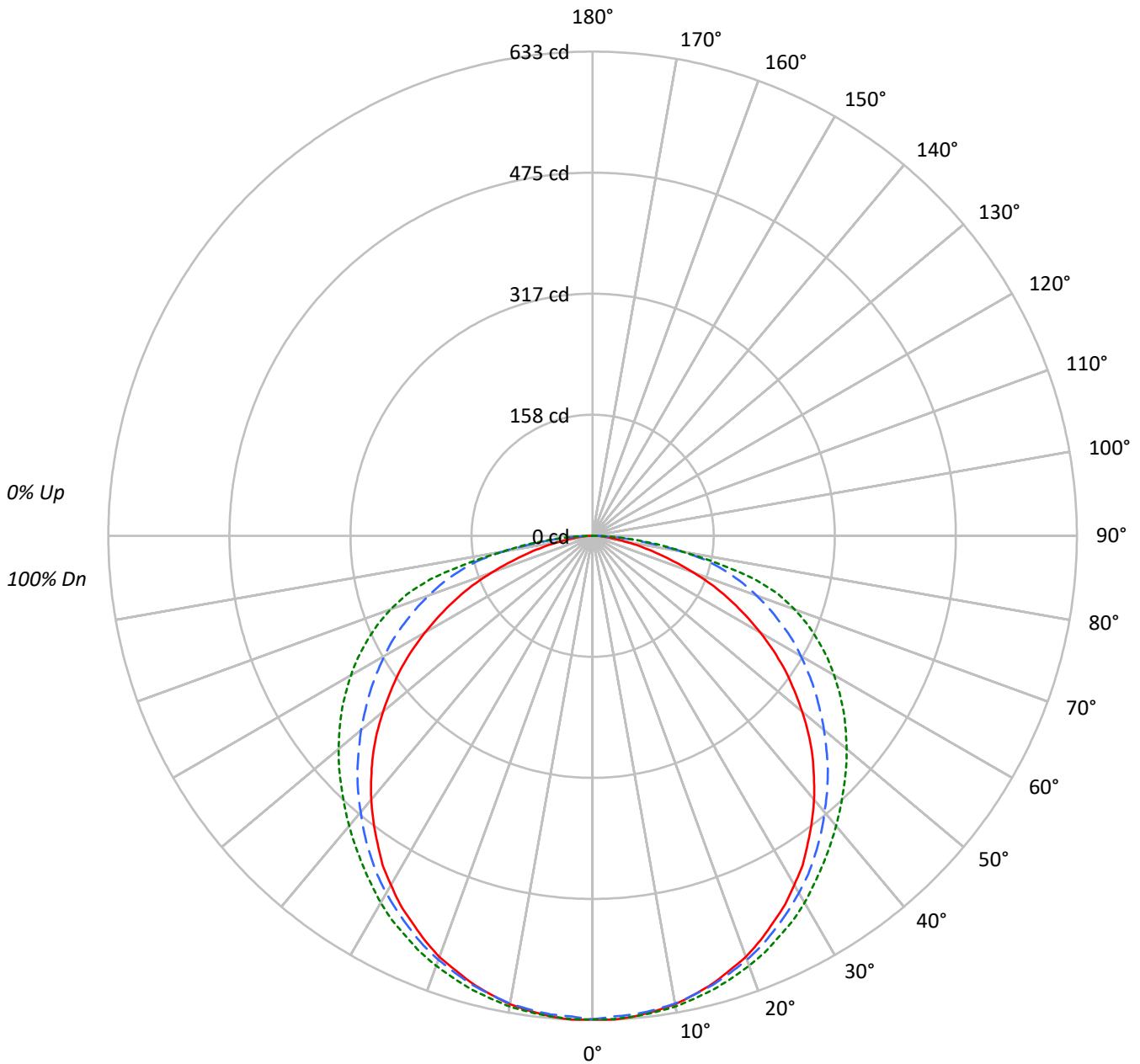
Lumens per Lamp: N/A
Luminaire Lumens: 1949.0 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	893	893	893
5°	894	890	894
10°	891	890	896
15°	886	888	897
20°	880	886	898
25°	869	882	900
30°	859	879	903
35°	845	875	904
40°	830	869	912
45°	811	868	927
50°	785	867	951
55°	757	873	986
60°	714	887	1029
65°	660	907	1087
70°	576	939	1158
75°	467	988	1197
80°	345	969	969
85°	264	714	805



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	3.1
10°-20°	172.0	8.8
20°-30°	261.9	13.4
30°-40°	318.0	16.3
40°-50°	335.9	17.2
50°-60°	317.0	16.3
60°-70°	263.6	13.5
70°-80°	173.4	8.9
80°-90°	47.3	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°	493.8	25.3
0°-40°	811.8	41.7
0°-60°	1464.7	75.2
0°-90°	1949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1949.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	631	631	628	631	631	60
15°	606	607	608	614	614	171
25°	558	561	566	576	578	257
35°	490	496	508	521	525	307
45°	406	414	435	456	464	313
55°	308	321	355	388	401	274
65°	198	220	272	312	326	195
75°	86	125	181	215	220	92
85°	16	36	44	49	50	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	632.4	632.4	632.4	632.4	632.4
2.5°	633.2	632.4	629.0	632.4	632.4
5°	630.8	630.8	628.2	630.8	630.8
7.5°	626.6	626.6	625.0	628.2	628.2
10°	621.8	621.8	620.9	625.0	625.0
12.5°	614.4	615.2	614.4	619.3	619.3
15°	606.2	607.1	607.9	613.6	613.6
17.5°	595.6	597.3	598.9	605.4	606.2
20°	585.9	586.7	589.9	597.3	598.1
22.5°	572.7	575.3	579.3	586.7	589.1
25°	558.1	561.3	566.3	576.1	577.7
27.5°	544.2	546.7	553.2	563.8	567.1
30°	527.1	531.2	539.3	549.9	554.0
32.5°	510.8	514.8	524.6	536.1	539.3
35°	490.4	496.1	507.6	520.6	524.6
37.5°	470.8	476.5	490.4	505.0	510.0
40°	450.3	456.9	471.6	488.8	495.2
42.5°	428.3	437.3	453.7	472.4	479.8
45°	406.3	414.5	434.9	456.1	464.3
47.5°	382.6	392.4	414.5	439.7	449.5
50°	357.4	369.6	394.9	422.7	433.3
52.5°	332.1	345.9	374.5	405.5	416.9
55°	307.6	320.7	354.9	388.4	400.6
57.5°	280.7	297.0	334.5	370.4	382.6
60°	253.0	270.9	314.1	351.7	364.7
62.5°	225.2	245.6	294.5	332.1	345.9
65°	197.5	220.3	271.7	311.7	325.5
67.5°	170.5	195.9	250.4	290.5	304.3
70°	139.6	171.3	227.6	266.8	280.7
72.5°	111.0	147.7	205.6	242.4	254.6
75°	85.7	124.8	181.1	214.6	219.5
77.5°	62.9	102.0	155.8	167.3	168.1
80°	42.4	81.6	119.2	117.5	119.2
82.5°	27.7	61.1	75.1	84.1	84.9
85°	16.3	35.9	44.1	48.9	49.7
87.5°	8.2	12.2	15.5	16.3	18.0
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)