

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: P733949

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733949
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-CP187-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

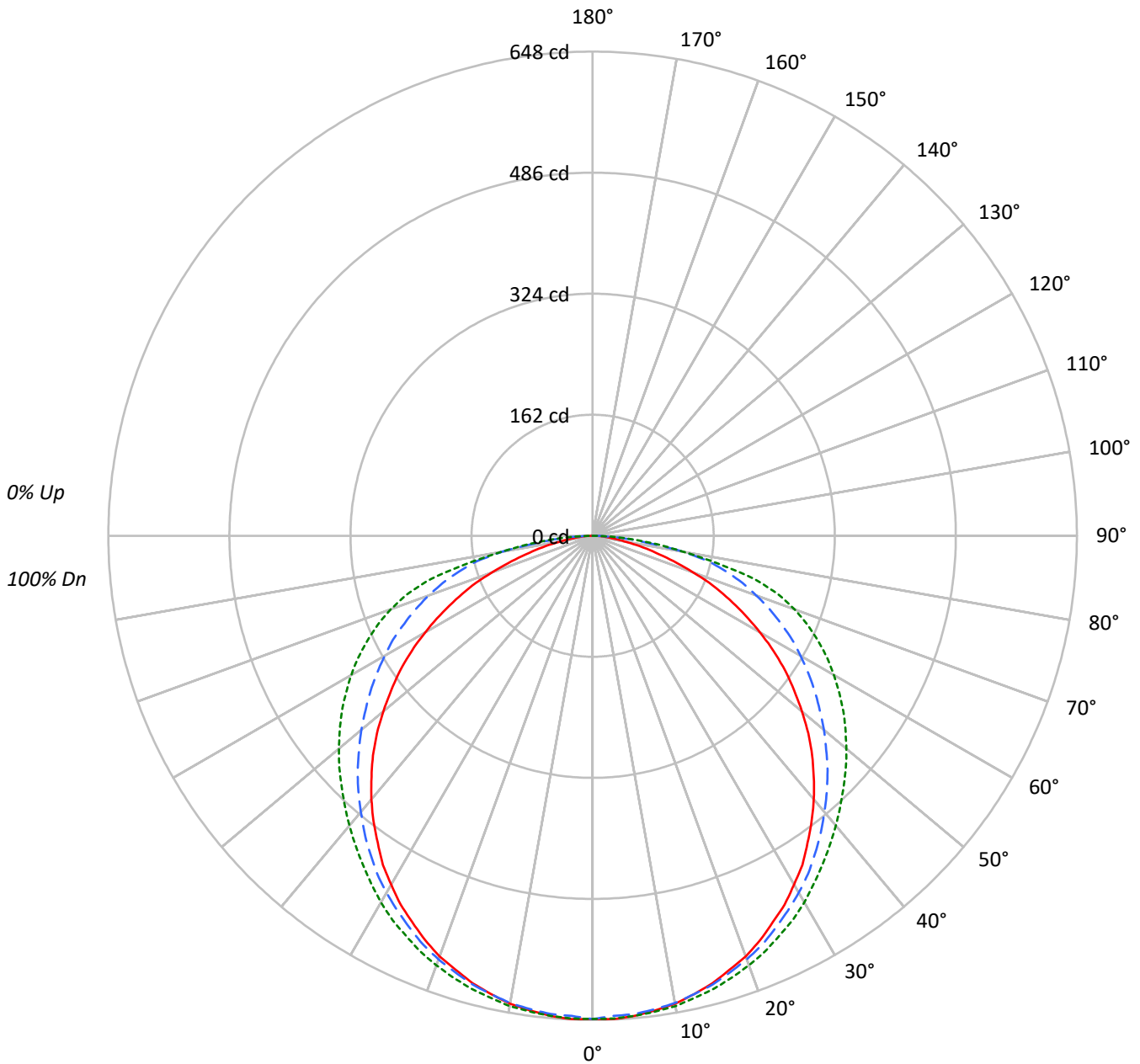
Lumens per Lamp: N/A
Luminaire Lumens: 1993.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100		
	1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82	82	82	82	82	82		
	2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67	67	67	67	67	67		
	3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56	56	56	56	56	56		
	4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48	48	48	48	48	48		
	5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41	41	41	41	41	41		
	6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36	36	36	36	36	36		
	7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31	31	31	31	31	31		
	8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28	28	28	28	28	28		
	9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25	25	25	25	25	25		
	10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23	23	23	23	23	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	913	913	913
5°	914	910	914
10°	911	910	916
15°	906	908	917
20°	900	906	919
25°	889	902	920
30°	878	899	923
35°	864	894	924
40°	848	889	933
45°	829	888	948
50°	803	887	973
55°	774	893	1008
60°	730	907	1053
65°	674	928	1112
70°	589	961	1185
75°	478	1010	1224
80°	352	991	991
85°	270	730	824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	3.1
10°-20°	175.9	8.8
20°-30°	267.8	13.4
30°-40°	325.2	16.3
40°-50°	343.5	17.2
50°-60°	324.2	16.3
60°-70°	269.5	13.5
70°-80°	177.3	8.9
80°-90°	48.3	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°	505.0	25.3
0°-40°	830.1	41.7
0°-60°	1497.8	75.2
0°-90°	1993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1993.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	647	647	647	647	647	
5°	645	645	642	645	645	61
15°	620	621	622	628	628	175
25°	571	574	579	589	591	263
35°	502	507	519	532	536	314
45°	416	424	445	466	475	320
55°	314	328	363	397	410	280
65°	202	225	278	319	333	200
75°	88	128	185	220	224	94
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°	646.7	646.7	646.7	646.7	646.7
2.5°	647.5	646.7	643.3	646.7	646.7
5°	645.0	645.0	642.4	645.0	645.0
7.5°	640.8	640.8	639.1	642.4	642.4
10°	635.8	635.8	634.9	639.1	639.1
12.5°	628.3	629.1	628.3	633.2	633.2
15°	619.9	620.8	621.6	627.5	627.5
17.5°	609.1	610.7	612.4	619.1	619.9
20°	599.1	599.9	603.2	610.7	611.6
22.5°	585.7	588.3	592.4	599.9	602.4
25°	570.7	574.0	579.1	589.1	590.7
27.5°	556.5	559.1	565.7	576.5	579.9
30°	539.0	543.2	551.5	562.4	566.5
32.5°	522.3	526.4	536.5	548.2	551.5
35°	501.5	507.3	519.0	532.3	536.5
37.5°	481.5	487.2	501.5	516.4	521.5
40°	460.5	467.2	482.3	499.8	506.4
42.5°	438.0	447.2	463.9	483.1	490.6
45°	415.5	423.9	444.7	466.4	474.8
47.5°	391.3	401.3	423.9	449.7	459.7
50°	365.5	378.0	403.9	432.2	443.1
52.5°	339.6	353.7	382.9	414.7	426.4
55°	314.5	327.9	362.9	397.2	409.6
57.5°	287.1	303.7	342.1	378.8	391.3
60°	258.7	277.0	321.2	359.6	372.9
62.5°	230.3	251.2	301.2	339.6	353.7
65°	201.9	225.3	277.9	318.7	332.9
67.5°	174.4	200.3	256.1	297.1	311.2
70°	142.7	175.2	232.8	272.8	287.1
72.5°	113.5	151.1	210.3	247.8	260.3
75°	87.6	127.6	185.2	219.5	224.4
77.5°	64.3	104.3	159.3	171.1	171.9
80°	43.3	83.5	121.9	120.1	121.9
82.5°	28.4	62.5	76.8	86.0	86.8
85°	16.7	36.7	45.1	50.0	50.9
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)