

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: P734075

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

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734075
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-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

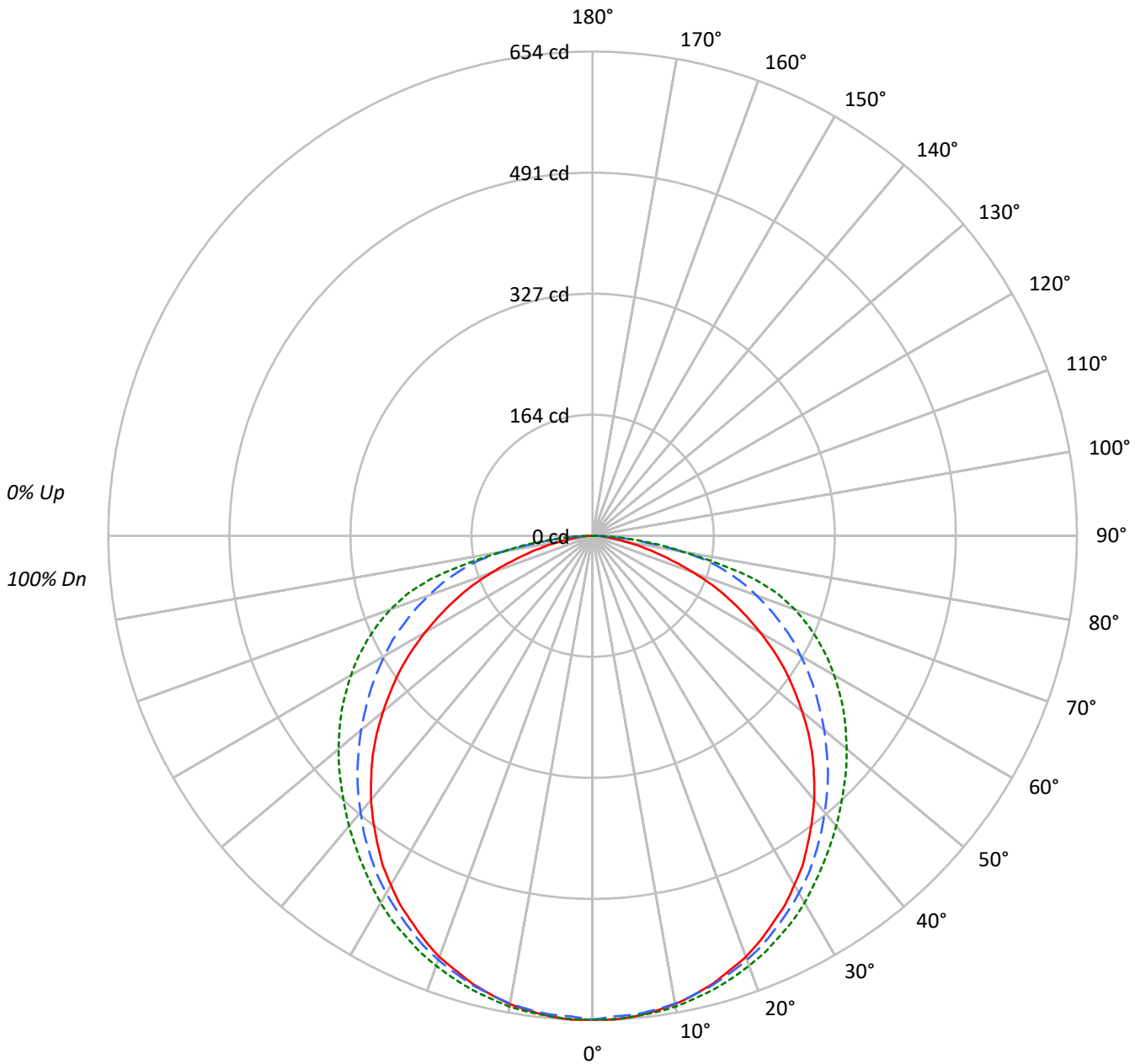
Lumens per Lamp: N/A
Luminaire Lumens: 2014.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	922	922	922
5°	923	920	923
10°	921	919	926
15°	915	918	927
20°	909	916	928
25°	898	911	930
30°	888	908	933
35°	873	904	934
40°	857	898	943
45°	838	897	958
50°	811	896	983
55°	782	902	1019
60°	738	916	1064
65°	682	938	1123
70°	595	971	1197
75°	483	1021	1237
80°	356	1001	1001
85°	274	738	832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	3.1
10°-20°	177.8	8.8
20°-30°	270.6	13.4
30°-40°	328.6	16.3
40°-50°	347.1	17.2
50°-60°	327.6	16.3
60°-70°	272.4	13.5
70°-80°	179.2	8.9
80°-90°	48.9	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°	510.3	25.3
0°-40°	838.9	41.7
0°-60°	1513.6	75.2
0°-90°	2014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	654	654	654	654	654	
5°	652	652	649	652	652	62
15°	626	627	628	634	634	177
25°	577	580	585	595	597	266
35°	507	513	524	538	542	317
45°	420	428	449	471	480	323
55°	318	331	367	401	414	283
65°	204	228	281	322	336	202
75°	88	129	187	222	227	95
85°	17	37	46	51	51	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	653.5	653.5	653.5	653.5	653.5
2.5°	654.3	653.5	650.0	653.5	653.5
5°	651.8	651.8	649.2	651.8	651.8
7.5°	647.5	647.5	645.9	649.2	649.2
10°	642.5	642.5	641.6	645.9	645.9
12.5°	634.9	635.7	634.9	639.9	639.9
15°	626.5	627.3	628.1	634.1	634.1
17.5°	615.5	617.2	618.9	625.6	626.5
20°	605.4	606.2	609.6	617.2	618.0
22.5°	591.8	594.5	598.6	606.2	608.7
25°	576.7	580.1	585.2	595.3	597.0
27.5°	562.3	564.9	571.6	582.6	586.0
30°	544.7	548.9	557.3	568.3	572.5
32.5°	527.8	532.0	542.1	554.0	557.3
35°	506.8	512.6	524.5	537.9	542.1
37.5°	486.5	492.4	506.8	521.9	527.0
40°	465.4	472.1	487.4	505.1	511.8
42.5°	442.6	451.9	468.8	488.2	495.8
45°	419.9	428.3	449.4	471.3	479.8
47.5°	395.4	405.5	428.3	454.4	464.5
50°	369.3	381.9	408.1	436.8	447.7
52.5°	343.2	357.4	387.0	419.1	430.8
55°	317.8	331.4	366.7	401.3	414.0
57.5°	290.1	306.9	345.7	382.8	395.4
60°	261.4	280.0	324.6	363.4	376.8
62.5°	232.7	253.8	304.4	343.2	357.4
65°	204.1	227.6	280.8	322.1	336.4
67.5°	176.2	202.4	258.8	300.2	314.5
70°	144.2	177.1	235.2	275.7	290.1
72.5°	114.7	152.7	212.5	250.5	263.1
75°	88.5	129.0	187.2	221.8	226.8
77.5°	65.0	105.4	161.0	172.9	173.7
80°	43.8	84.4	123.1	121.4	123.1
82.5°	28.7	63.2	77.6	86.9	87.7
85°	16.9	37.1	45.6	50.6	51.4
87.5°	8.4	12.6	16.1	16.9	18.6
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)