

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: P734061

Luminaire Tested: **24FCZ2-30HE-HRP-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734061
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-CA08-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

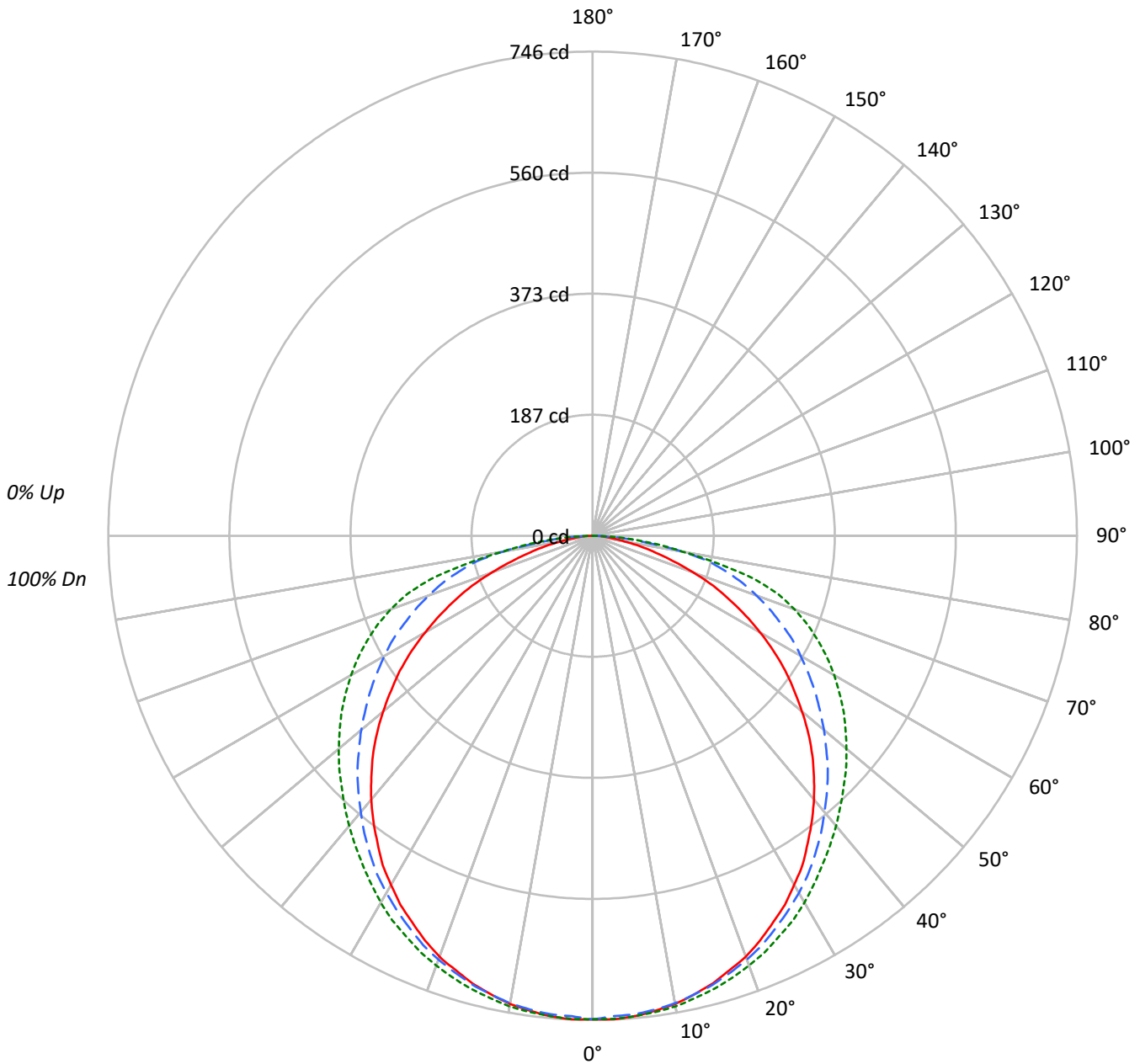
Lumens per Lamp: N/A
Luminaire Lumens: 2296.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1051	1051	1051
5°	1053	1049	1053
10°	1050	1048	1055
15°	1044	1046	1056
20°	1037	1044	1058
25°	1024	1039	1060
30°	1012	1035	1064
35°	995	1030	1065
40°	977	1024	1075
45°	955	1023	1092
50°	924	1022	1121
55°	891	1029	1161
60°	841	1044	1213
65°	777	1069	1281
70°	678	1107	1365
75°	550	1164	1410
80°	406	1141	1141
85°	313	840	949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	3.1
10°-20°	202.6	8.8
20°-30°	308.5	13.4
30°-40°	374.6	16.3
40°-50°	395.8	17.2
50°-60°	373.4	16.3
60°-70°	310.5	13.5
70°-80°	204.3	8.9
80°-90°	55.7	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°	581.7	25.3
0°-40°	956.3	41.7
0°-60°	1725.5	75.2
0°-90°	2296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	745	745	745	745	745	
5°	743	743	740	743	743	71
15°	714	715	716	723	723	201
25°	658	661	667	679	680	303
35°	578	584	598	613	618	362
45°	479	488	512	537	547	369
55°	362	378	418	458	472	323
65°	233	260	320	367	384	230
75°	101	147	213	253	258	109
85°	19	42	52	58	59	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	745.0	745.0	745.0	745.0	745.0
2.5°	745.9	745.0	741.0	745.0	745.0
5°	743.1	743.1	740.1	743.1	743.1
7.5°	738.2	738.2	736.3	740.1	740.1
10°	732.5	732.5	731.4	736.3	736.3
12.5°	723.8	724.8	723.8	729.5	729.5
15°	714.2	715.1	716.1	722.9	722.9
17.5°	701.7	703.6	705.5	713.2	714.2
20°	690.2	691.1	694.9	703.6	704.6
22.5°	674.7	677.7	682.4	691.1	694.0
25°	657.5	661.3	667.1	678.6	680.5
27.5°	641.1	644.0	651.7	664.1	668.1
30°	621.0	625.7	635.4	647.8	652.6
32.5°	601.7	606.5	618.0	631.6	635.4
35°	577.7	584.4	597.9	613.3	618.0
37.5°	554.7	561.3	577.7	595.0	600.8
40°	530.5	538.3	555.6	575.8	583.4
42.5°	504.6	515.2	534.4	556.6	565.2
45°	478.7	488.3	512.3	537.3	546.9
47.5°	450.8	462.3	488.3	518.0	529.6
50°	421.0	435.4	465.3	498.0	510.4
52.5°	391.2	407.5	441.1	477.7	491.2
55°	362.3	377.8	418.1	457.5	471.9
57.5°	330.7	349.8	394.1	436.4	450.8
60°	298.0	319.2	370.0	414.3	429.6
62.5°	265.3	289.3	347.0	391.2	407.5
65°	232.6	259.5	320.1	367.2	383.5
67.5°	200.9	230.7	295.0	342.2	358.5
70°	164.4	201.8	268.2	314.3	330.7
72.5°	130.8	174.0	242.3	285.5	299.9
75°	100.9	147.0	213.4	252.8	258.5
77.5°	74.1	120.2	183.5	197.1	198.0
80°	49.9	96.2	140.4	138.4	140.4
82.5°	32.7	72.0	88.4	99.0	100.0
85°	19.3	42.3	51.9	57.7	58.6
87.5°	9.6	14.4	18.3	19.3	21.2
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)