

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: P734038

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272053)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-B2750-W2D-CA08-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

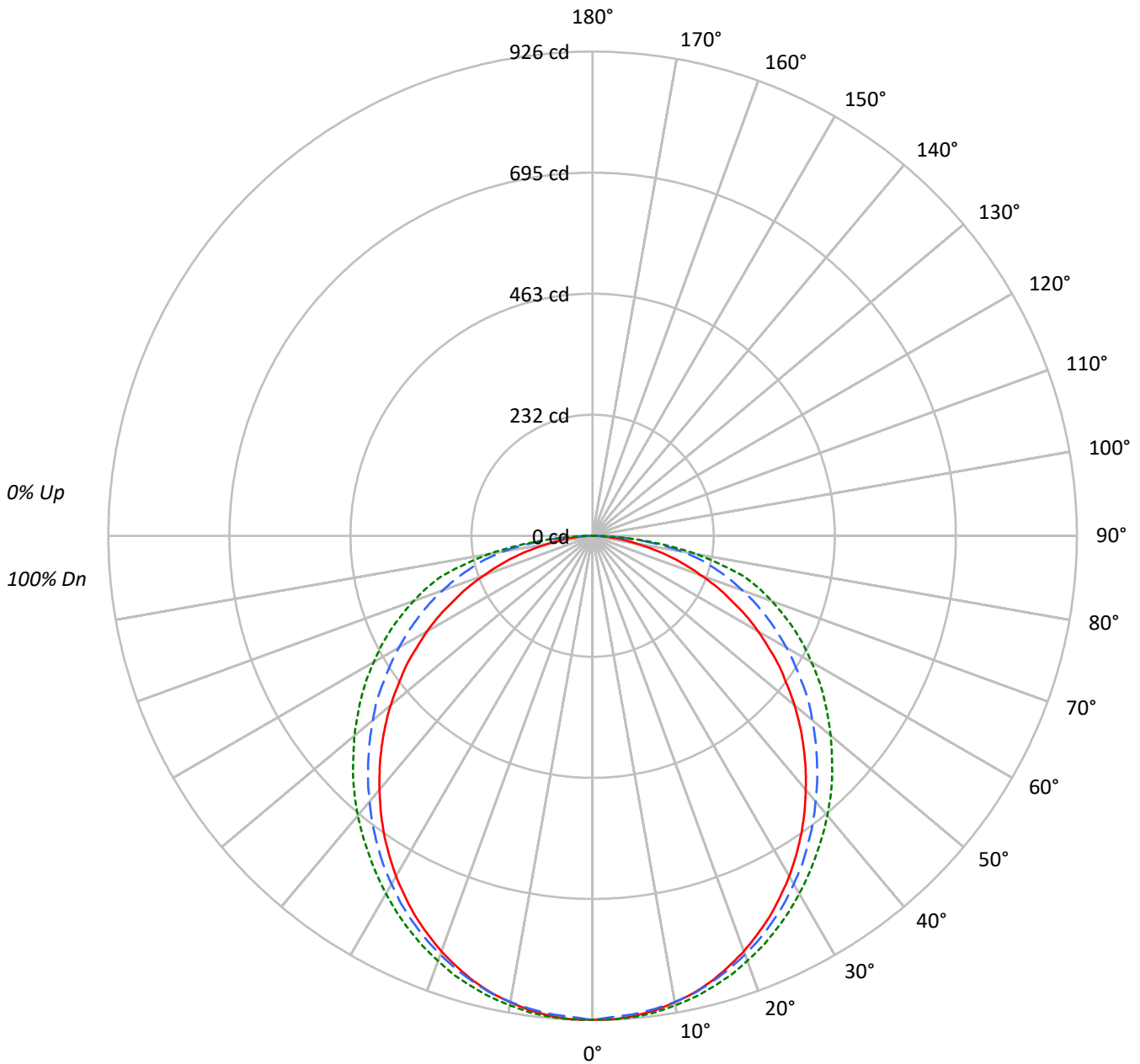
Lumens per Lamp: N/A
Luminaire Lumens: 2757.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	100	96	92	96	93	89	92	89	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	60	68	63	58	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	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	39	50	44	38	49	43	38	36																			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25																			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1306	1306	1306
5°	1306	1301	1309
10°	1299	1298	1307
15°	1288	1291	1304
20°	1270	1280	1299
25°	1250	1268	1294
30°	1225	1254	1288
35°	1198	1238	1284
40°	1168	1222	1287
45°	1139	1210	1293
50°	1107	1204	1305
55°	1073	1202	1329
60°	1031	1208	1364
65°	977	1226	1423
70°	907	1257	1504
75°	828	1320	1630
80°	680	1421	1630
85°	521	1312	1401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.2
10°-20°	249.9	9.1
20°-30°	376.1	13.6
30°-40°	450.7	16.3
40°-50°	469.7	17.0
50°-60°	437.0	15.9
60°-70°	359.9	13.1
70°-80°	245.1	8.9
80°-90°	80.9	2.9
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°	713.6	25.9
0°-40°	1164.3	42.2
0°-60°	2071.0	75.1
0°-90°	2757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	922	922	918	923	924	88
15°	881	882	883	892	892	248
25°	802	806	814	828	831	369
35°	696	704	719	738	745	435
45°	570	582	606	637	648	440
55°	436	451	489	527	540	389
65°	293	317	367	410	426	290
75°	152	186	242	285	299	160
85°	32	62	81	86	86	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.7	925.7	925.7	925.7	925.7
2.5°	925.7	925.7	921.0	925.7	925.7
5°	921.9	921.9	918.3	922.9	923.8
7.5°	915.5	916.5	912.8	918.3	919.3
10°	906.3	907.3	905.4	910.9	911.8
12.5°	895.3	896.2	896.2	902.6	903.6
15°	881.4	882.4	883.3	891.6	892.5
17.5°	864.0	866.8	868.6	878.8	880.6
20°	845.6	848.4	852.1	863.0	864.9
22.5°	824.4	828.1	834.5	846.5	849.3
25°	802.4	806.0	814.4	828.1	830.9
27.5°	777.5	783.1	793.2	807.9	811.6
30°	751.8	757.2	769.2	784.9	790.4
32.5°	724.2	731.5	745.3	762.8	768.3
35°	695.6	703.9	718.6	737.9	745.3
37.5°	665.3	674.5	691.9	713.1	722.3
40°	634.0	645.0	663.4	688.3	698.3
42.5°	602.6	612.8	635.8	662.5	673.5
45°	570.5	582.5	606.4	636.7	647.8
47.5°	537.3	549.3	577.8	610.1	620.2
50°	504.3	516.2	548.4	582.5	594.4
52.5°	468.3	484.0	520.8	554.8	566.8
55°	436.2	450.8	488.6	527.2	540.1
57.5°	399.4	416.8	458.2	498.7	512.5
60°	365.3	383.7	427.9	469.2	483.1
62.5°	330.4	350.6	397.5	439.8	455.5
65°	292.6	317.4	367.1	410.3	426.0
67.5°	258.5	284.4	336.8	380.9	394.7
70°	219.9	251.2	304.5	348.8	364.4
72.5°	186.8	218.0	274.1	317.4	333.0
75°	151.8	185.9	242.0	285.2	299.0
77.5°	116.9	154.6	210.7	243.9	248.4
80°	83.7	123.3	174.8	194.2	200.6
82.5°	58.9	94.8	128.9	141.7	145.4
85°	32.2	62.5	81.0	86.5	86.5
87.5°	13.8	26.7	32.2	33.2	34.0
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)