

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: P733912

Luminaire Tested: **24FCZ2-30-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733912
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: 24FCZ2-30-B2750-W2D-CA08-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

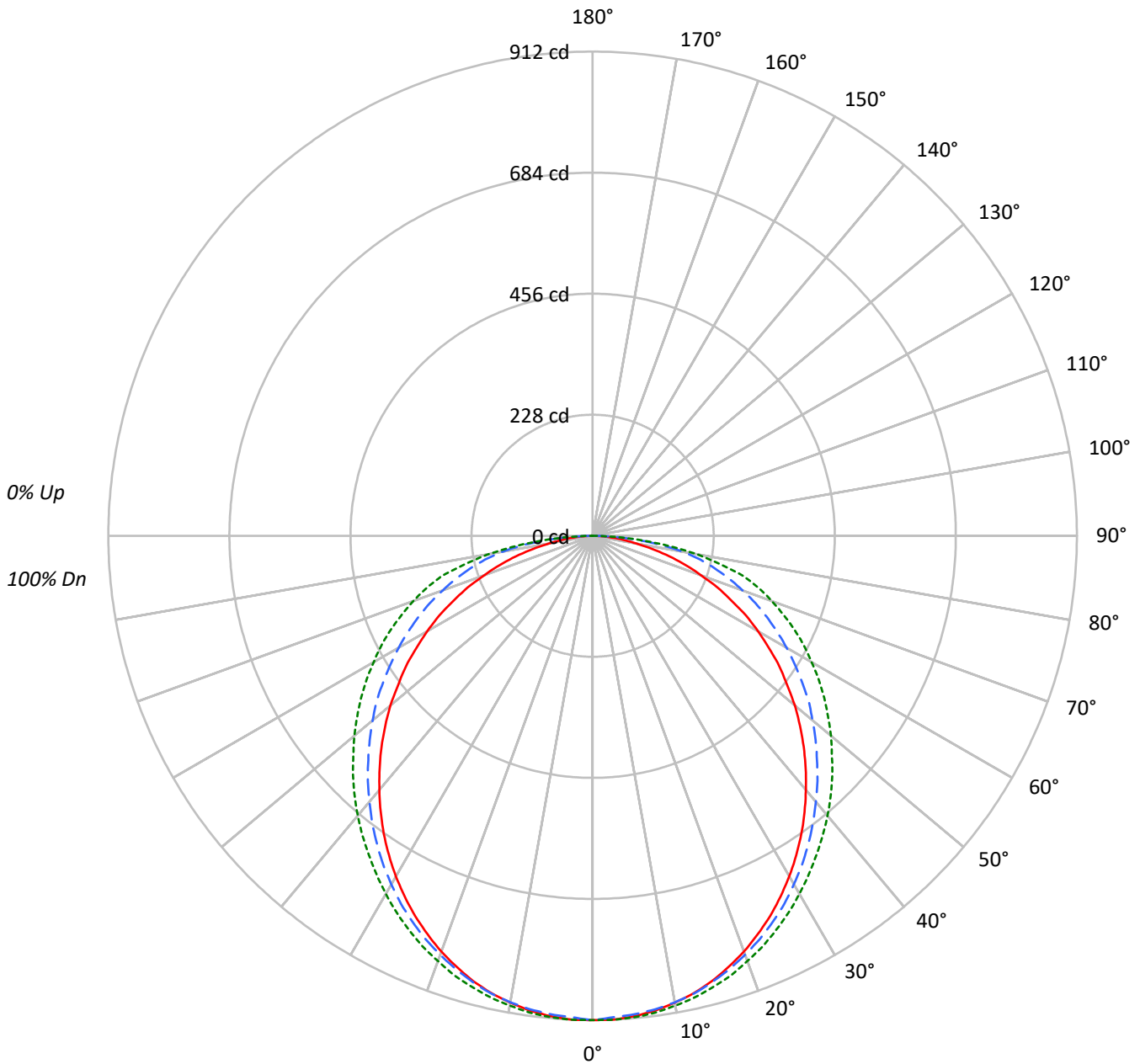
Lumens per Lamp: N/A
Luminaire Lumens: 2717.0 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	1288	1288	1288
5°	1287	1282	1290
10°	1280	1279	1288
15°	1269	1272	1285
20°	1252	1261	1280
25°	1231	1250	1275
30°	1207	1235	1269
35°	1181	1220	1265
40°	1151	1205	1268
45°	1122	1193	1274
50°	1091	1187	1286
55°	1058	1185	1310
60°	1016	1190	1344
65°	963	1208	1402
70°	894	1238	1482
75°	816	1301	1607
80°	671	1400	1607
85°	513	1292	1380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	3.2
10°-20°	246.3	9.1
20°-30°	370.7	13.6
30°-40°	444.2	16.3
40°-50°	462.9	17.0
50°-60°	430.7	15.9
60°-70°	354.7	13.1
70°-80°	241.6	8.9
80°-90°	79.8	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°	703.2	25.9
0°-40°	1147.4	42.2
0°-60°	2041.0	75.1
0°-90°	2717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	908	908	905	910	910	86
15°	869	870	870	879	880	245
25°	791	794	802	816	819	364
35°	686	694	708	727	734	429
45°	562	574	598	627	638	434
55°	430	444	482	520	532	383
65°	288	313	362	404	420	286
75°	150	183	238	281	295	158
85°	32	62	80	85	85	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	912.3	912.3	912.3	912.3	912.3
2.5°	912.3	912.3	907.7	912.3	912.3
5°	908.5	908.5	904.9	909.5	910.4
7.5°	902.2	903.2	899.6	904.9	905.9
10°	893.1	894.1	892.3	897.7	898.6
12.5°	882.3	883.2	883.2	889.5	890.5
15°	868.7	869.6	870.5	878.7	879.6
17.5°	851.5	854.2	856.0	866.0	867.8
20°	833.4	836.1	839.7	850.5	852.4
22.5°	812.5	816.1	822.4	834.2	837.0
25°	790.7	794.3	802.5	816.1	818.8
27.5°	766.3	771.7	781.7	796.2	799.8
30°	740.9	746.2	758.1	773.5	778.9
32.5°	713.7	720.9	734.4	751.7	757.2
35°	685.5	693.7	708.2	727.2	734.4
37.5°	655.6	664.7	681.9	702.8	711.8
40°	624.8	635.6	653.8	678.3	688.2
42.5°	593.9	604.0	626.6	652.9	663.7
45°	562.2	574.0	597.6	627.4	638.4
47.5°	529.5	541.3	569.4	601.2	611.2
50°	497.0	508.8	540.5	574.0	585.8
52.5°	461.5	477.0	513.2	546.8	558.6
55°	429.8	444.3	481.5	519.6	532.3
57.5°	393.6	410.7	451.6	491.5	505.0
60°	360.0	378.2	421.7	462.4	476.1
62.5°	325.6	345.5	391.7	433.5	448.9
65°	288.3	312.8	361.8	404.4	419.8
67.5°	254.8	280.2	331.9	375.4	389.0
70°	216.7	247.5	300.1	343.7	359.1
72.5°	184.0	214.9	270.2	312.8	328.2
75°	149.6	183.2	238.5	281.1	294.7
77.5°	115.2	152.4	207.7	240.3	244.8
80°	82.5	121.5	172.2	191.4	197.7
82.5°	58.0	93.4	127.0	139.7	143.3
85°	31.7	61.6	79.8	85.2	85.2
87.5°	13.6	26.3	31.7	32.7	33.6
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)