

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: P734140

Luminaire Tested: **24FCZ2-30HE-SQR-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-SQR-B2750-W2D-CA08-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SQR LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

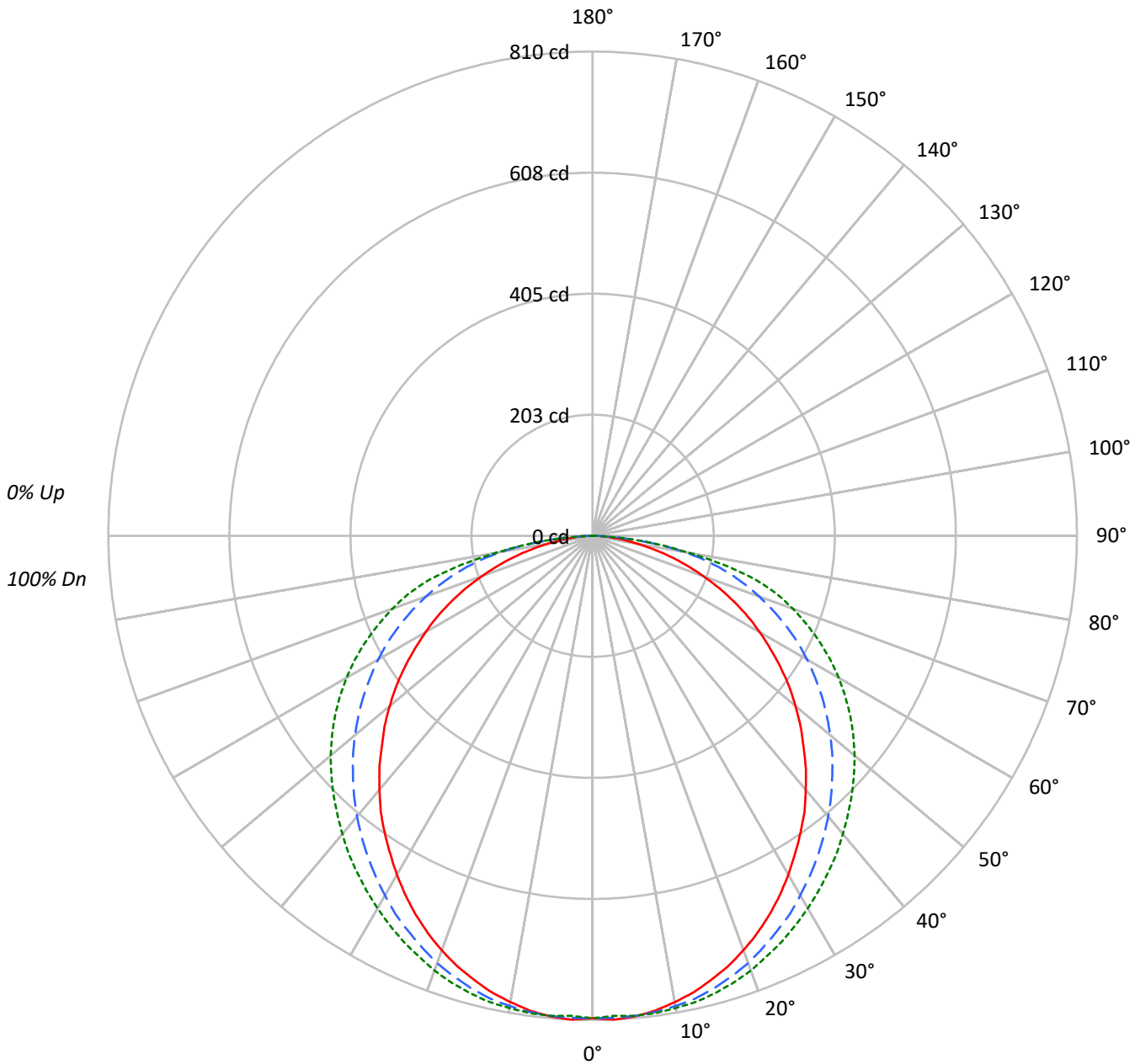
Lumens per Lamp: N/A
Luminaire Lumens: 2525.0 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1139	1139	1139
5°	1143	1142	1142
10°	1135	1145	1149
15°	1123	1145	1157
20°	1108	1142	1162
25°	1089	1136	1166
30°	1067	1132	1173
35°	1044	1129	1184
40°	1022	1129	1200
45°	995	1131	1223
50°	972	1139	1256
55°	944	1151	1295
60°	911	1170	1342
65°	871	1192	1398
70°	808	1221	1469
75°	732	1264	1537
80°	617	1267	1321
85°	471	959	959



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	3.0
10°-20°	220.4	8.7
20°-30°	334.8	13.3
30°-40°	407.3	16.1
40°-50°	433.6	17.2
50°-60°	413.0	16.4
60°-70°	345.3	13.7
70°-80°	230.3	9.1
80°-90°	63.7	2.5
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°	631.9	25.0
0°-40°	1039.1	41.2
0°-60°	1885.7	74.7
0°-90°	2525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	807	802	806	806	806	77
15°	769	770	784	790	792	217
25°	700	709	730	742	749	322
35°	606	624	655	677	687	379
45°	499	525	567	599	613	385
55°	384	417	468	509	526	343
65°	261	299	357	401	419	258
75°	134	177	232	271	282	142
85°	29	54	59	58	59	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.1	807.1	807.1	807.1	807.1
2.5°	810.4	804.6	807.1	807.1	803.8
5°	807.1	802.1	806.3	806.3	806.3
7.5°	801.3	797.1	803.8	805.4	805.4
10°	792.1	790.5	798.8	801.3	802.1
12.5°	782.1	781.3	793.0	796.2	798.8
15°	768.7	770.4	783.8	789.6	792.1
17.5°	754.6	757.9	772.9	781.3	783.8
20°	737.9	742.9	760.5	768.7	773.8
22.5°	719.6	727.1	745.4	755.4	761.2
25°	699.6	708.7	729.6	742.1	748.8
27.5°	677.9	689.6	713.8	727.9	734.6
30°	654.5	667.8	694.6	711.3	719.6
32.5°	630.3	646.2	675.4	693.7	703.7
35°	606.2	623.7	655.4	677.0	687.0
37.5°	582.0	599.4	634.6	657.9	670.4
40°	554.5	575.3	612.9	638.7	651.2
42.5°	527.8	550.3	590.3	618.6	632.1
45°	498.6	525.3	566.9	598.7	612.9
47.5°	471.9	498.6	543.6	577.0	592.8
50°	442.8	471.0	518.6	555.3	572.0
52.5°	414.4	443.6	493.6	532.8	549.5
55°	383.6	416.9	467.8	508.6	526.1
57.5°	352.7	388.6	441.0	483.6	501.2
60°	322.7	359.3	414.4	457.0	475.3
62.5°	292.7	329.3	386.8	430.2	447.7
65°	260.9	299.3	356.8	401.0	418.6
67.5°	229.3	269.3	326.8	371.0	387.7
70°	195.9	238.5	296.0	339.4	356.1
72.5°	165.1	207.6	264.3	306.9	322.7
75°	134.3	176.7	231.8	271.0	281.8
77.5°	104.2	146.7	195.9	221.8	224.3
80°	75.9	115.9	155.9	163.4	162.5
82.5°	50.8	86.7	107.6	108.4	110.9
85°	29.1	54.2	59.2	58.4	59.2
87.5°	11.7	19.2	16.7	12.5	12.5
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)