

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: P734146

Luminaire Tested: **24FCZ2-30HE-SQR-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734146
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-CP187-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SQR LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

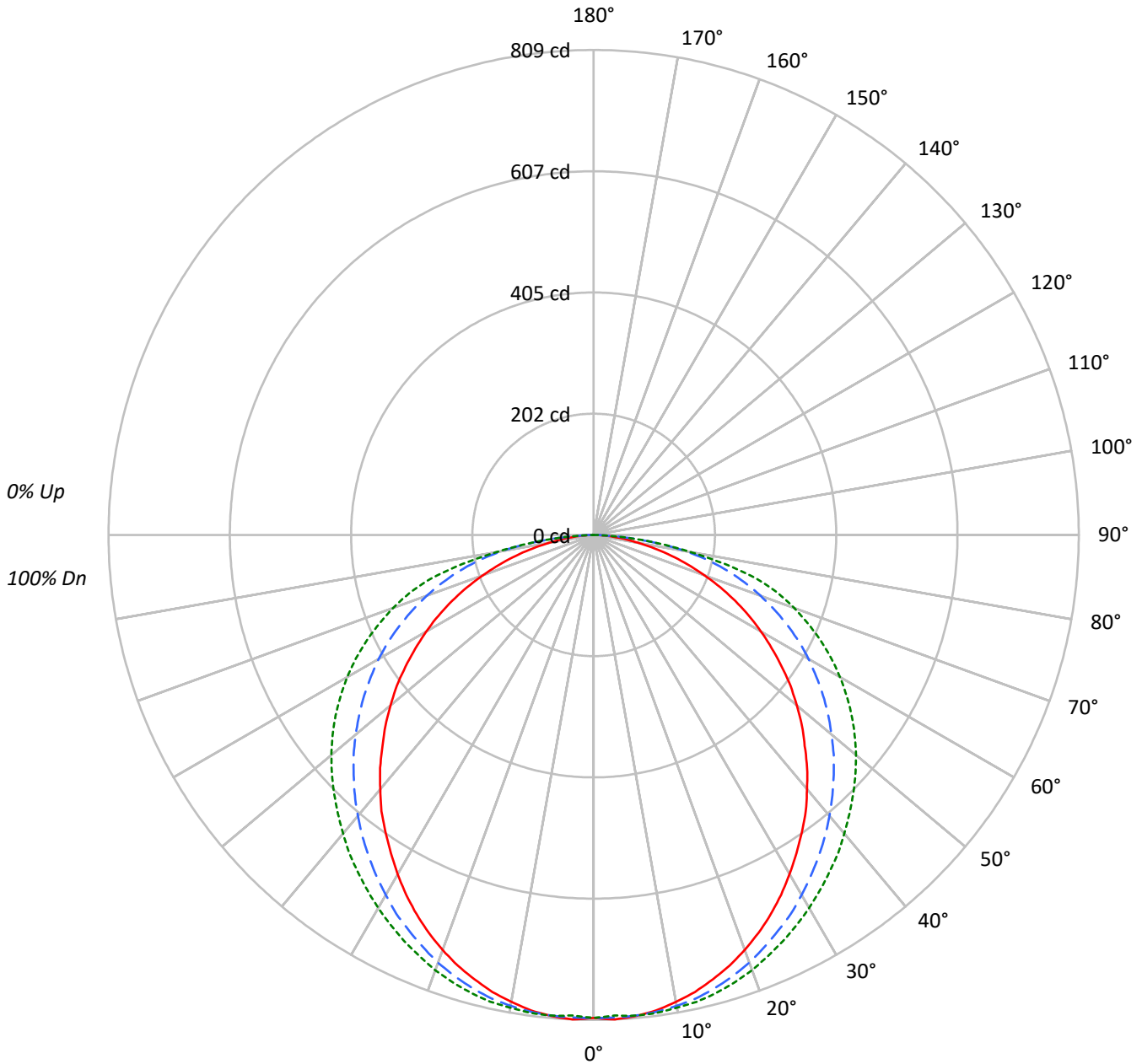
Lumens per Lamp: N/A
Luminaire Lumens: 2521.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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	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°	1137	1137	1137
5°	1142	1140	1140
10°	1133	1143	1148
15°	1121	1143	1156
20°	1107	1140	1160
25°	1088	1134	1164
30°	1065	1130	1171
35°	1043	1127	1182
40°	1020	1127	1198
45°	994	1130	1221
50°	971	1137	1254
55°	942	1149	1293
60°	909	1168	1339
65°	870	1190	1396
70°	807	1220	1467
75°	731	1262	1534
80°	615	1265	1319
85°	471	957	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	3.0
10°-20°	220.1	8.7
20°-30°	334.3	13.3
30°-40°	406.6	16.1
40°-50°	432.9	17.2
50°-60°	412.3	16.4
60°-70°	344.8	13.7
70°-80°	229.9	9.1
80°-90°	63.6	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°	630.9	25.0
0°-40°	1037.5	41.2
0°-60°	1882.7	74.7
0°-90°	2521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2521.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	806	801	805	805	805	76
15°	768	769	782	788	791	216
25°	698	708	728	741	748	322
35°	605	623	654	676	686	379
45°	498	524	566	598	612	385
55°	383	416	467	508	525	342
65°	260	299	356	400	418	257
75°	134	176	231	271	281	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°	805.8	805.8	805.8	805.8	805.8
2.5°	809.1	803.3	805.8	805.8	802.5
5°	805.8	800.8	805.0	805.0	805.0
7.5°	800.1	795.8	802.5	804.2	804.2
10°	790.9	789.2	797.6	800.1	800.8
12.5°	780.9	780.0	791.7	795.0	797.6
15°	767.5	769.2	782.5	788.4	790.9
17.5°	753.4	756.7	771.7	780.0	782.5
20°	736.8	741.7	759.3	767.5	772.6
22.5°	718.5	725.9	744.2	754.2	760.0
25°	698.5	707.6	728.4	740.9	747.6
27.5°	676.8	688.5	712.6	726.7	733.4
30°	653.5	666.8	693.5	710.2	718.5
32.5°	629.3	645.1	674.3	692.6	702.6
35°	605.2	622.7	654.3	676.0	685.9
37.5°	581.1	598.5	633.6	656.8	669.4
40°	553.6	574.4	611.9	637.7	650.2
42.5°	527.0	549.4	589.4	617.6	631.1
45°	497.8	524.5	566.0	597.7	611.9
47.5°	471.2	497.8	542.8	576.1	591.9
50°	442.1	470.3	517.8	554.5	571.1
52.5°	413.7	442.9	492.8	532.0	548.6
55°	383.0	416.2	467.1	507.8	525.3
57.5°	352.2	388.0	440.3	482.8	500.4
60°	322.2	358.8	413.7	456.2	474.5
62.5°	292.2	328.8	386.2	429.5	447.0
65°	260.5	298.8	356.3	400.4	417.9
67.5°	228.9	268.8	326.3	370.4	387.1
70°	195.6	238.1	295.6	338.8	355.5
72.5°	164.9	207.3	263.9	306.4	322.2
75°	134.0	176.5	231.4	270.6	281.4
77.5°	104.1	146.5	195.6	221.5	224.0
80°	75.7	115.8	155.7	163.1	162.3
82.5°	50.7	86.6	107.4	108.2	110.7
85°	29.1	54.1	59.1	58.3	59.1
87.5°	11.7	19.1	16.7	12.4	12.4
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)