

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: P734012

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734012
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: 24FCZ2-30-SQR-B2750-W2D-CA08-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SQR LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

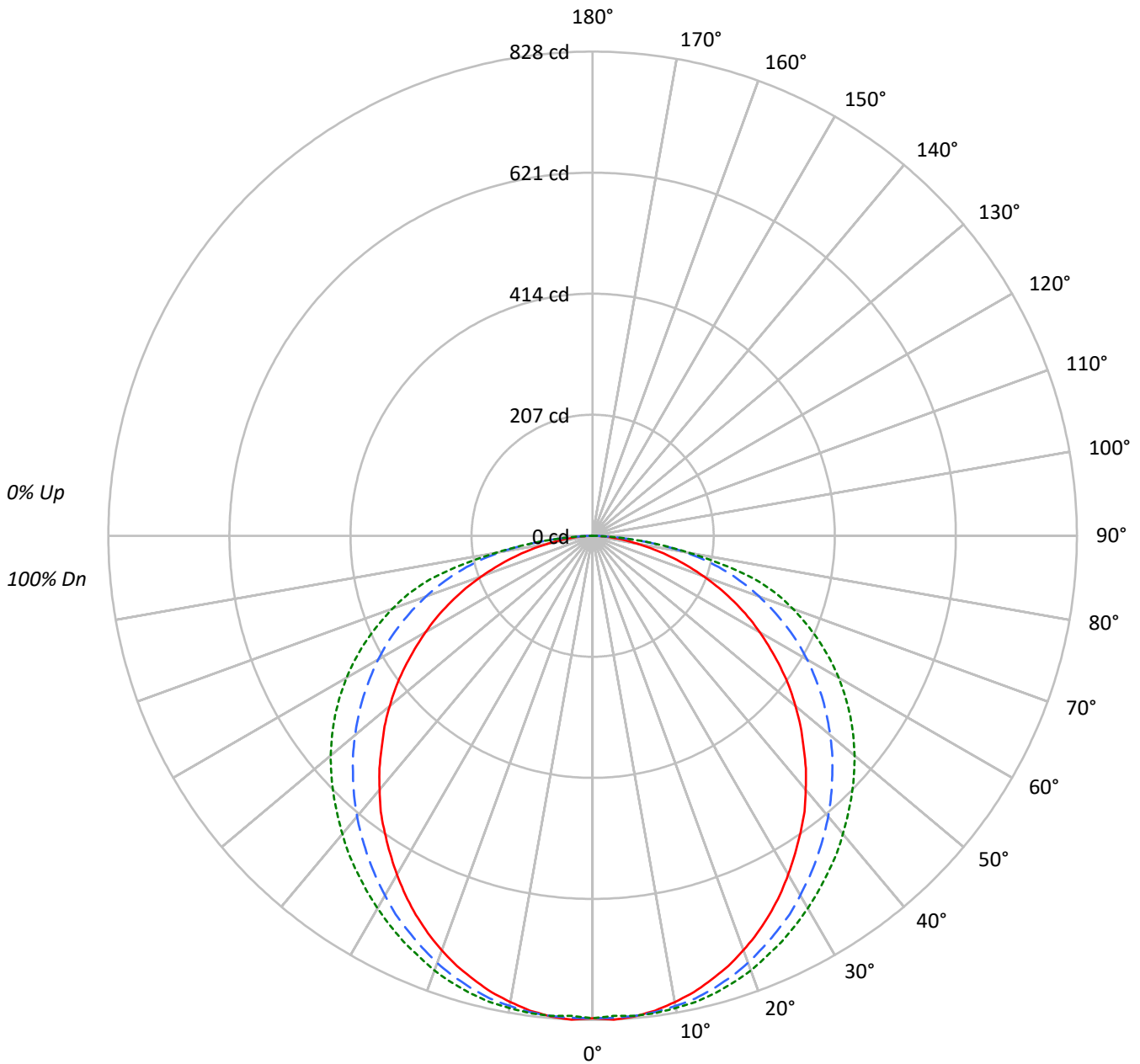
Lumens per Lamp: N/A
Luminaire Lumens: 2581.0 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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	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°	1164	1164	1164
5°	1169	1168	1168
10°	1160	1170	1175
15°	1148	1171	1183
20°	1133	1167	1188
25°	1114	1161	1192
30°	1090	1157	1199
35°	1068	1154	1210
40°	1044	1154	1226
45°	1017	1157	1250
50°	994	1164	1284
55°	965	1177	1323
60°	931	1196	1371
65°	891	1218	1429
70°	827	1249	1502
75°	748	1292	1571
80°	630	1296	1350
85°	483	980	980



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	3.0
10°-20°	225.3	8.7
20°-30°	342.2	13.3
30°-40°	416.3	16.1
40°-50°	443.2	17.2
50°-60°	422.1	16.4
60°-70°	353.0	13.7
70°-80°	235.4	9.1
80°-90°	65.1	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°	645.9	25.0
0°-40°	1062.2	41.2
0°-60°	1927.5	74.7
0°-90°	2581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	825	820	824	824	824	78
15°	786	788	801	807	810	222
25°	715	724	746	758	765	329
35°	620	638	670	692	702	388
45°	510	537	580	612	626	394
55°	392	426	478	520	538	351
65°	267	306	365	410	428	264
75°	137	181	237	277	288	145
85°	30	55	60	60	60	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	825.0	825.0	825.0	825.0	825.0
2.5°	828.4	822.4	825.0	825.0	821.6
5°	825.0	819.9	824.2	824.2	824.2
7.5°	819.1	814.8	821.6	823.3	823.3
10°	809.7	808.0	816.5	819.1	819.9
12.5°	799.5	798.6	810.6	813.9	816.5
15°	785.8	787.5	801.2	807.1	809.7
17.5°	771.4	774.7	790.1	798.6	801.2
20°	754.3	759.4	777.3	785.8	791.0
22.5°	735.6	743.2	761.9	772.1	778.1
25°	715.1	724.4	745.8	758.5	765.4
27.5°	692.9	704.9	729.6	744.0	750.9
30°	669.0	682.6	710.0	727.1	735.6
32.5°	644.3	660.5	690.4	709.1	719.3
35°	619.6	637.6	669.9	692.1	702.2
37.5°	594.9	612.7	648.6	672.4	685.3
40°	566.8	588.0	626.5	652.8	665.7
42.5°	539.5	562.5	603.4	632.3	646.1
45°	509.6	537.0	579.5	612.0	626.5
47.5°	482.4	509.6	555.7	589.8	606.0
50°	452.6	481.5	530.1	567.7	584.7
52.5°	423.6	453.5	504.5	544.6	561.7
55°	392.1	426.1	478.2	519.9	537.8
57.5°	360.5	397.2	450.8	494.3	512.3
60°	329.9	367.3	423.6	467.1	485.8
62.5°	299.2	336.6	395.4	439.7	457.7
65°	266.7	305.9	364.7	409.9	427.9
67.5°	234.4	275.2	334.1	379.3	396.3
70°	200.3	243.8	302.6	346.9	364.0
72.5°	168.8	212.2	270.2	313.7	329.9
75°	137.2	180.7	236.9	277.0	288.1
77.5°	106.6	150.0	200.3	226.7	229.3
80°	77.5	118.5	159.4	167.0	166.1
82.5°	51.9	88.6	110.0	110.8	113.3
85°	29.8	55.4	60.5	59.7	60.5
87.5°	12.0	19.6	17.1	12.7	12.7
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)