

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: P734031

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734031
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-CP375-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SQR LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

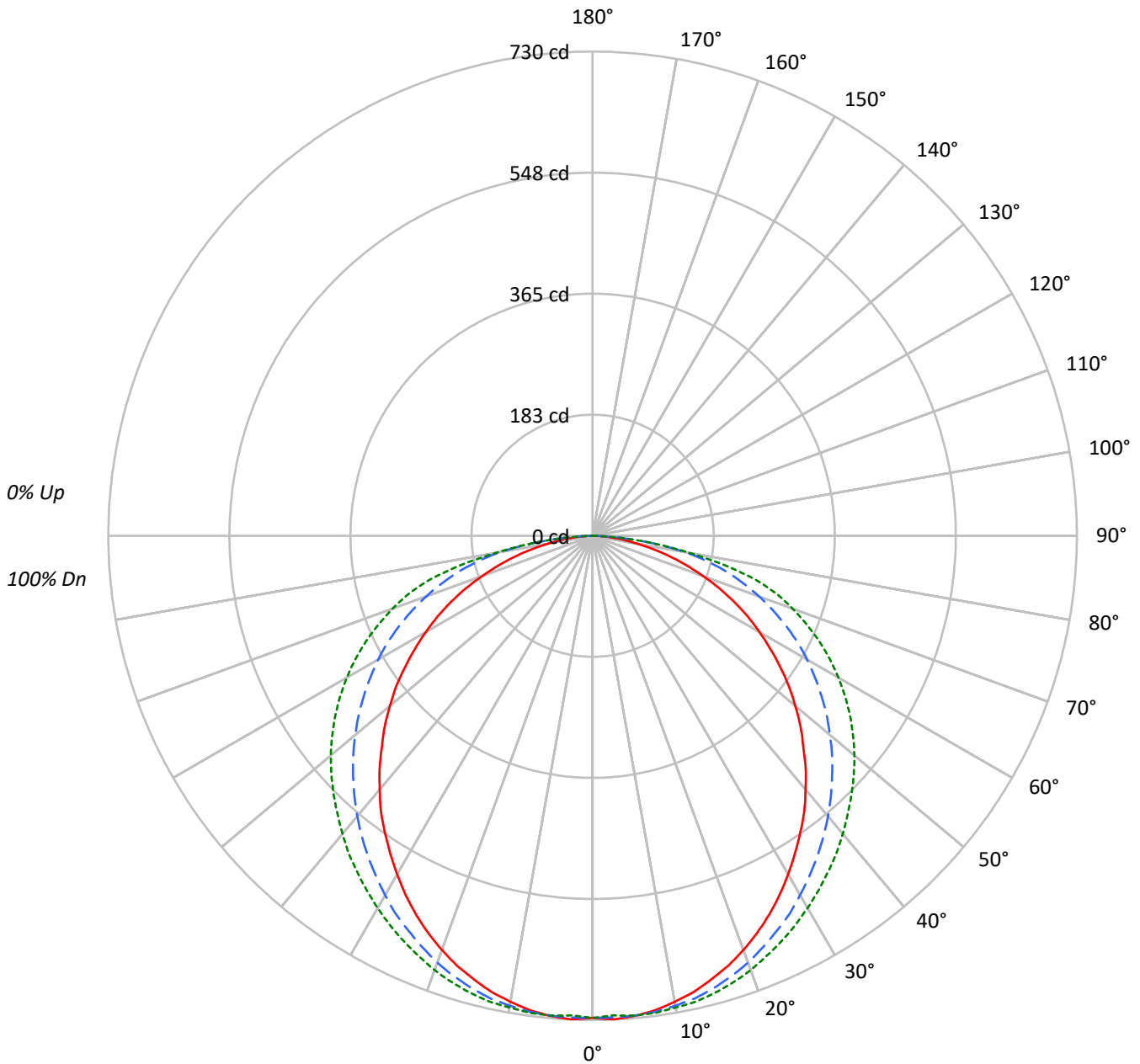
Lumens per Lamp: N/A
Luminaire Lumens: 2274.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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°	1026	1026	1026
5°	1030	1029	1029
10°	1022	1031	1035
15°	1012	1031	1042
20°	998	1029	1047
25°	981	1023	1050
30°	961	1019	1056
35°	941	1017	1066
40°	920	1017	1081
45°	896	1019	1102
50°	875	1026	1131
55°	850	1037	1166
60°	820	1053	1208
65°	785	1073	1259
70°	728	1100	1323
75°	659	1138	1384
80°	555	1141	1190
85°	426	863	863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	3.0
10°-20°	198.5	8.7
20°-30°	301.5	13.3
30°-40°	366.8	16.1
40°-50°	390.5	17.2
50°-60°	371.9	16.4
60°-70°	311.0	13.7
70°-80°	207.4	9.1
80°-90°	57.4	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°	569.1	25.0
0°-40°	935.8	41.2
0°-60°	1698.2	74.7
0°-90°	2274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	727	722	726	726	726	69
15°	692	694	706	711	713	195
25°	630	638	657	668	674	290
35°	546	562	590	610	619	342
45°	449	473	511	539	552	347
55°	346	375	421	458	474	309
65°	235	270	321	361	377	232
75°	121	159	209	244	254	128
85°	26	49	53	53	53	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	726.8	726.8	726.8	726.8	726.8
2.5°	729.9	724.6	726.8	726.8	723.9
5°	726.8	722.4	726.2	726.2	726.2
7.5°	721.7	717.9	723.9	725.4	725.4
10°	713.4	711.9	719.4	721.7	722.4
12.5°	704.4	703.6	714.2	717.1	719.4
15°	692.3	693.9	705.9	711.1	713.4
17.5°	679.6	682.5	696.1	703.6	705.9
20°	664.6	669.1	684.9	692.3	696.9
22.5°	648.1	654.8	671.3	680.3	685.6
25°	630.0	638.2	657.1	668.3	674.3
27.5°	610.5	621.1	642.8	655.5	661.6
30°	589.4	601.4	625.5	640.6	648.1
32.5°	567.7	581.9	608.3	624.8	633.7
35°	545.9	561.7	590.2	609.7	618.7
37.5°	524.1	539.9	571.5	592.5	603.8
40°	499.4	518.1	552.0	575.2	586.5
42.5°	475.4	495.6	531.7	557.1	569.2
45°	449.0	473.1	510.6	539.2	552.0
47.5°	425.0	449.0	489.6	519.7	533.9
50°	398.7	424.2	467.1	500.1	515.2
52.5°	373.2	399.5	444.5	479.8	494.9
55°	345.5	375.4	421.3	458.1	473.8
57.5°	317.7	350.0	397.2	435.5	451.3
60°	290.6	323.6	373.2	411.5	428.0
62.5°	263.6	296.6	348.4	387.4	403.2
65°	235.0	269.5	321.4	361.2	377.0
67.5°	206.5	242.5	294.3	334.1	349.2
70°	176.4	214.8	266.6	305.6	320.7
72.5°	148.7	187.0	238.0	276.4	290.6
75°	120.9	159.2	208.7	244.1	253.8
77.5°	93.9	132.1	176.4	199.8	202.0
80°	68.3	104.4	140.4	147.2	146.4
82.5°	45.8	78.1	96.9	97.6	99.8
85°	26.3	48.8	53.3	52.6	53.3
87.5°	10.5	17.3	15.0	11.2	11.2
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)