

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: P734035

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734035
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-CP375-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SQR LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

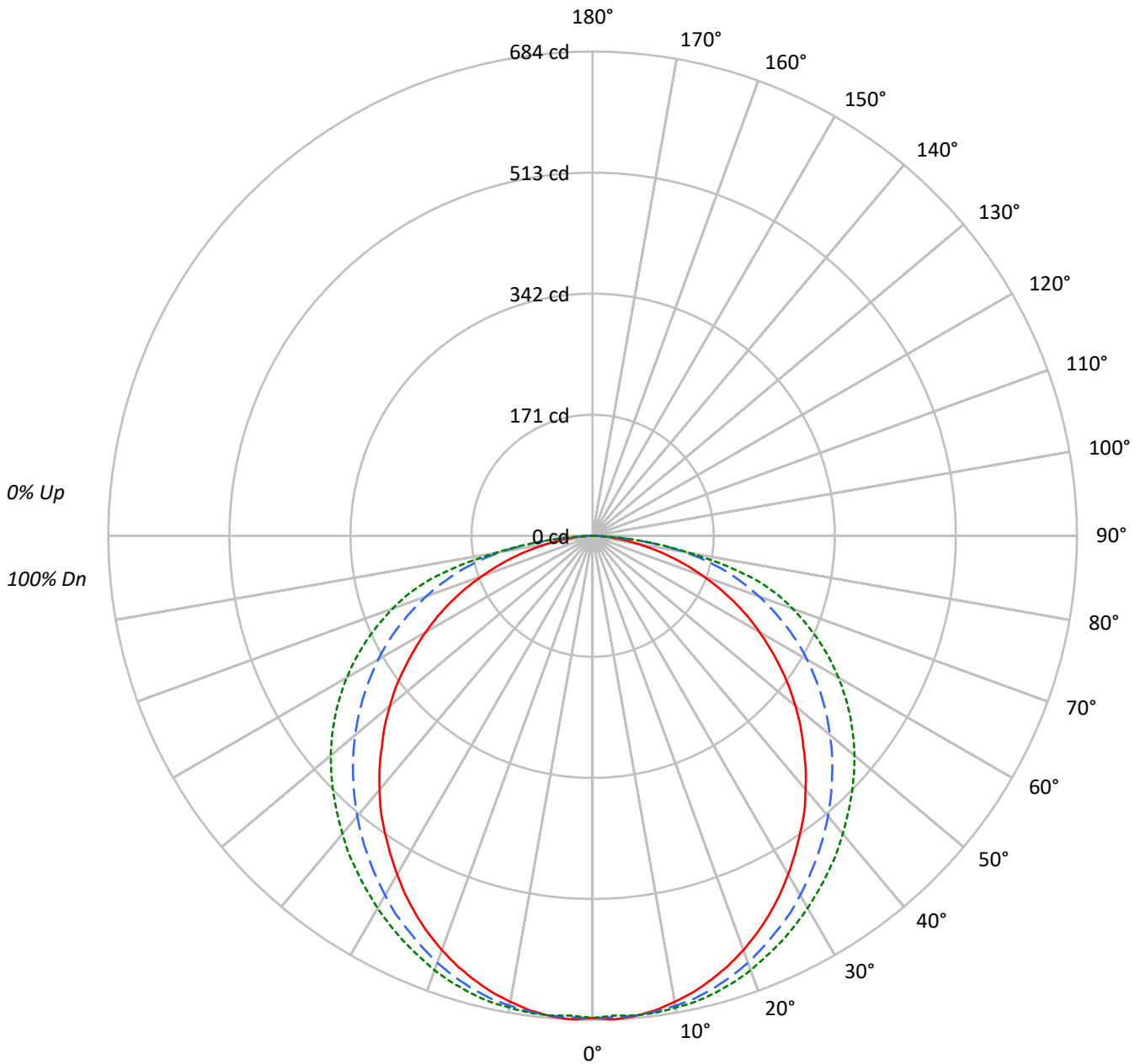
Lumens per Lamp: N/A
Luminaire Lumens: 2131.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	961	961	961
5°	965	964	964
10°	958	966	970
15°	948	967	977
20°	935	964	981
25°	919	959	984
30°	900	955	990
35°	881	953	999
40°	862	953	1013
45°	840	955	1032
50°	821	961	1060
55°	796	971	1093
60°	769	987	1132
65°	735	1006	1180
70°	682	1031	1240
75°	618	1067	1297
80°	520	1070	1115
85°	398	808	808



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	3.0
10°-20°	186.0	8.7
20°-30°	282.6	13.3
30°-40°	343.7	16.1
40°-50°	365.9	17.2
50°-60°	348.5	16.4
60°-70°	291.5	13.7
70°-80°	194.3	9.1
80°-90°	53.8	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°	533.3	25.0
0°-40°	877.0	41.2
0°-60°	1591.4	74.7
0°-90°	2131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	681	677	680	680	680	65
15°	649	650	662	666	668	183
25°	590	598	616	626	632	272
35°	512	526	553	571	580	320
45°	421	443	478	505	517	325
55°	324	352	395	429	444	289
65°	220	253	301	338	353	218
75°	113	149	196	229	238	120
85°	25	46	50	49	50	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	681.1	681.1	681.1	681.1	681.1
2.5°	684.0	679.0	681.1	681.1	678.4
5°	681.1	676.9	680.5	680.5	680.5
7.5°	676.3	672.7	678.4	679.8	679.8
10°	668.5	667.1	674.2	676.3	676.9
12.5°	660.1	659.4	669.2	672.0	674.2
15°	648.8	650.2	661.5	666.4	668.5
17.5°	636.9	639.6	652.3	659.4	661.5
20°	622.8	627.0	641.8	648.8	653.1
22.5°	607.3	613.6	629.1	637.5	642.4
25°	590.4	598.1	615.7	626.3	631.9
27.5°	572.1	582.0	602.4	614.3	620.0
30°	552.4	563.6	586.2	600.3	607.3
32.5°	532.0	545.3	570.0	585.5	593.9
35°	511.6	526.4	553.1	571.4	579.8
37.5°	491.2	505.9	535.5	555.2	565.8
40°	468.0	485.5	517.3	539.0	549.6
42.5°	445.5	464.4	498.2	522.1	533.4
45°	420.8	443.4	478.5	505.3	517.3
47.5°	398.3	420.8	458.8	487.0	500.3
50°	373.7	397.5	437.7	468.7	482.8
52.5°	349.7	374.4	416.6	449.7	463.8
55°	323.7	351.8	394.8	429.3	444.0
57.5°	297.7	327.9	372.2	408.1	423.0
60°	272.3	303.3	349.7	385.7	401.1
62.5°	247.0	277.9	326.5	363.1	377.9
65°	220.2	252.6	301.2	338.5	353.3
67.5°	193.5	227.3	275.8	313.1	327.2
70°	165.3	201.3	249.8	286.4	300.5
72.5°	139.4	175.2	223.1	259.0	272.3
75°	113.3	149.2	195.6	228.7	237.9
77.5°	88.0	123.8	165.3	187.2	189.3
80°	64.0	97.9	131.6	137.9	137.2
82.5°	42.9	73.2	90.8	91.5	93.6
85°	24.6	45.7	49.9	49.3	49.9
87.5°	9.9	16.2	14.1	10.5	10.5
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)