

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: P734158

Luminaire Tested: **24FCZ2-30HE-SQR-B2750-W2D-CP375-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734158
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-CP375-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SQR LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

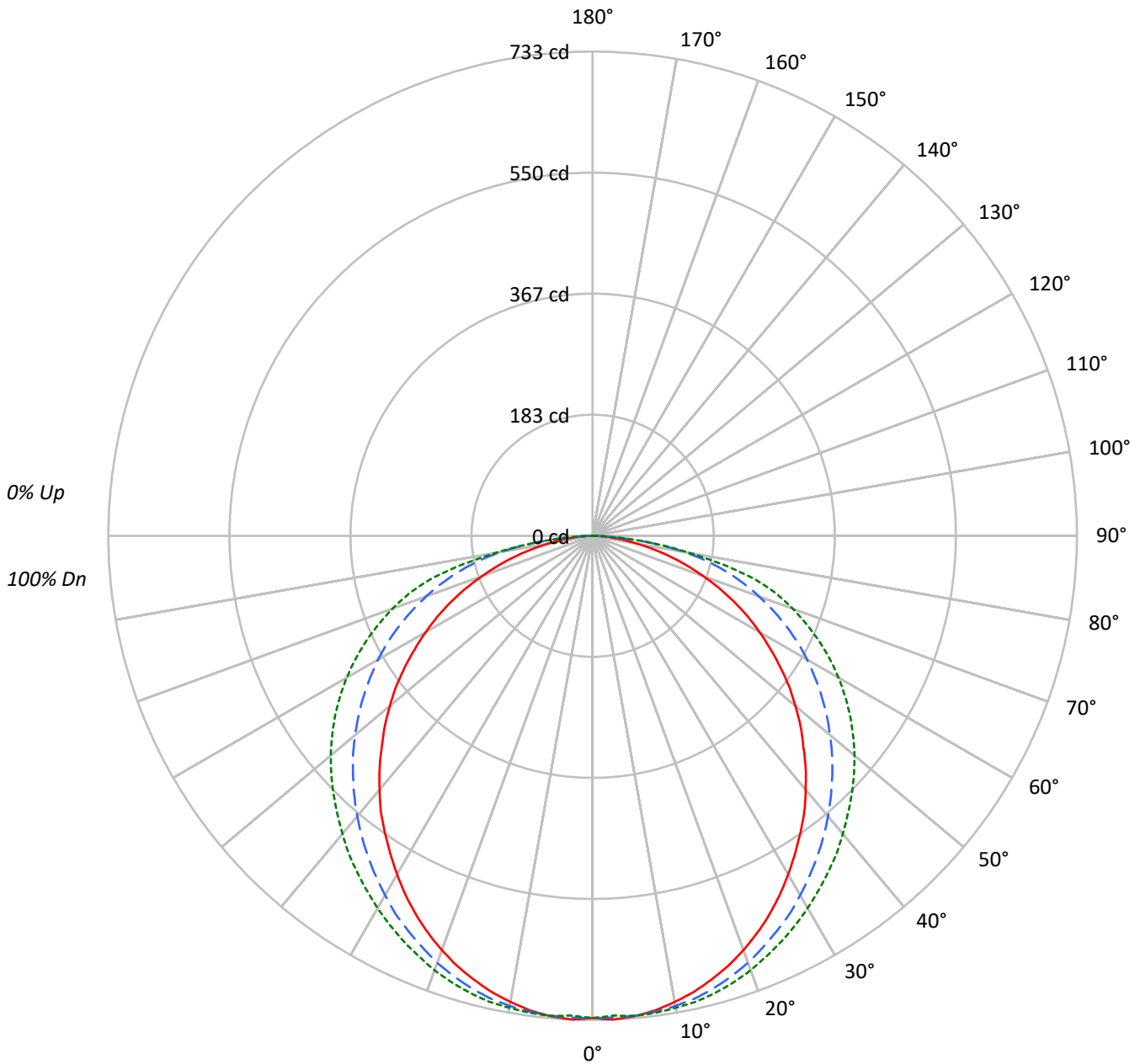
Lumens per Lamp: N/A
Luminaire Lumens: 2284.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1030	1030	1030
5°	1034	1033	1033
10°	1027	1036	1040
15°	1016	1036	1047
20°	1003	1033	1051
25°	985	1028	1055
30°	965	1024	1061
35°	945	1021	1071
40°	924	1021	1085
45°	900	1024	1107
50°	879	1030	1136
55°	854	1041	1171
60°	824	1058	1213
65°	788	1078	1264
70°	731	1105	1329
75°	662	1143	1390
80°	558	1146	1195
85°	428	866	866



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	3.0
10°-20°	199.4	8.7
20°-30°	302.9	13.3
30°-40°	368.4	16.1
40°-50°	392.2	17.2
50°-60°	373.6	16.4
60°-70°	312.4	13.7
70°-80°	208.3	9.1
80°-90°	57.6	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°	571.5	25.0
0°-40°	939.9	41.2
0°-60°	1705.7	74.7
0°-90°	2284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	730	730	730	730	730	
5°	730	726	729	729	729	69
15°	695	697	709	714	716	196
25°	633	641	660	671	677	291
35°	548	564	593	612	621	343
45°	451	475	513	542	554	349
55°	347	377	423	460	476	310
65°	236	271	323	363	379	233
75°	121	160	210	245	255	129
85°	26	49	54	53	54	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	730.0	730.0	730.0	730.0	730.0
2.5°	733.1	727.8	730.0	730.0	727.1
5°	730.0	725.5	729.4	729.4	729.4
7.5°	724.8	721.0	727.1	728.6	728.6
10°	716.5	715.0	722.6	724.8	725.5
12.5°	707.5	706.7	717.3	720.2	722.6
15°	695.3	696.9	709.0	714.3	716.5
17.5°	682.6	685.5	699.2	706.7	709.0
20°	667.5	672.0	687.9	695.3	699.9
22.5°	650.9	657.7	674.3	683.3	688.6
25°	632.8	641.0	660.0	671.2	677.3
27.5°	613.2	623.8	645.6	658.4	664.5
30°	592.0	604.1	628.3	643.4	650.9
32.5°	570.2	584.5	610.9	627.5	636.5
35°	548.3	564.2	592.8	612.4	621.4
37.5°	526.5	542.2	574.0	595.1	606.4
40°	501.6	520.4	554.4	577.7	589.1
42.5°	477.4	497.7	534.0	559.6	571.7
45°	451.0	475.2	512.8	541.5	554.4
47.5°	426.9	451.0	491.8	521.9	536.3
50°	400.5	426.1	469.1	502.3	517.4
52.5°	374.8	401.3	446.5	482.0	497.0
55°	347.0	377.1	423.1	460.1	475.9
57.5°	319.0	351.5	398.9	437.5	453.3
60°	291.9	325.0	374.8	413.3	429.9
62.5°	264.7	297.9	349.9	389.1	405.0
65°	236.0	270.7	322.8	362.8	378.6
67.5°	207.4	243.6	295.6	335.6	350.7
70°	177.2	215.7	267.8	307.0	322.1
72.5°	149.4	187.8	239.1	277.6	291.9
75°	121.4	159.9	209.7	245.1	254.9
77.5°	94.3	132.7	177.2	200.6	202.9
80°	68.6	104.9	141.0	147.8	147.0
82.5°	46.0	78.4	97.3	98.0	100.3
85°	26.4	49.0	53.5	52.8	53.5
87.5°	10.6	17.3	15.1	11.3	11.3
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)