

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: P734157

Luminaire Tested: **24FCZ2-30HE-SQR-B2750-W2D-CP375-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734157
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-CP375-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SQR LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

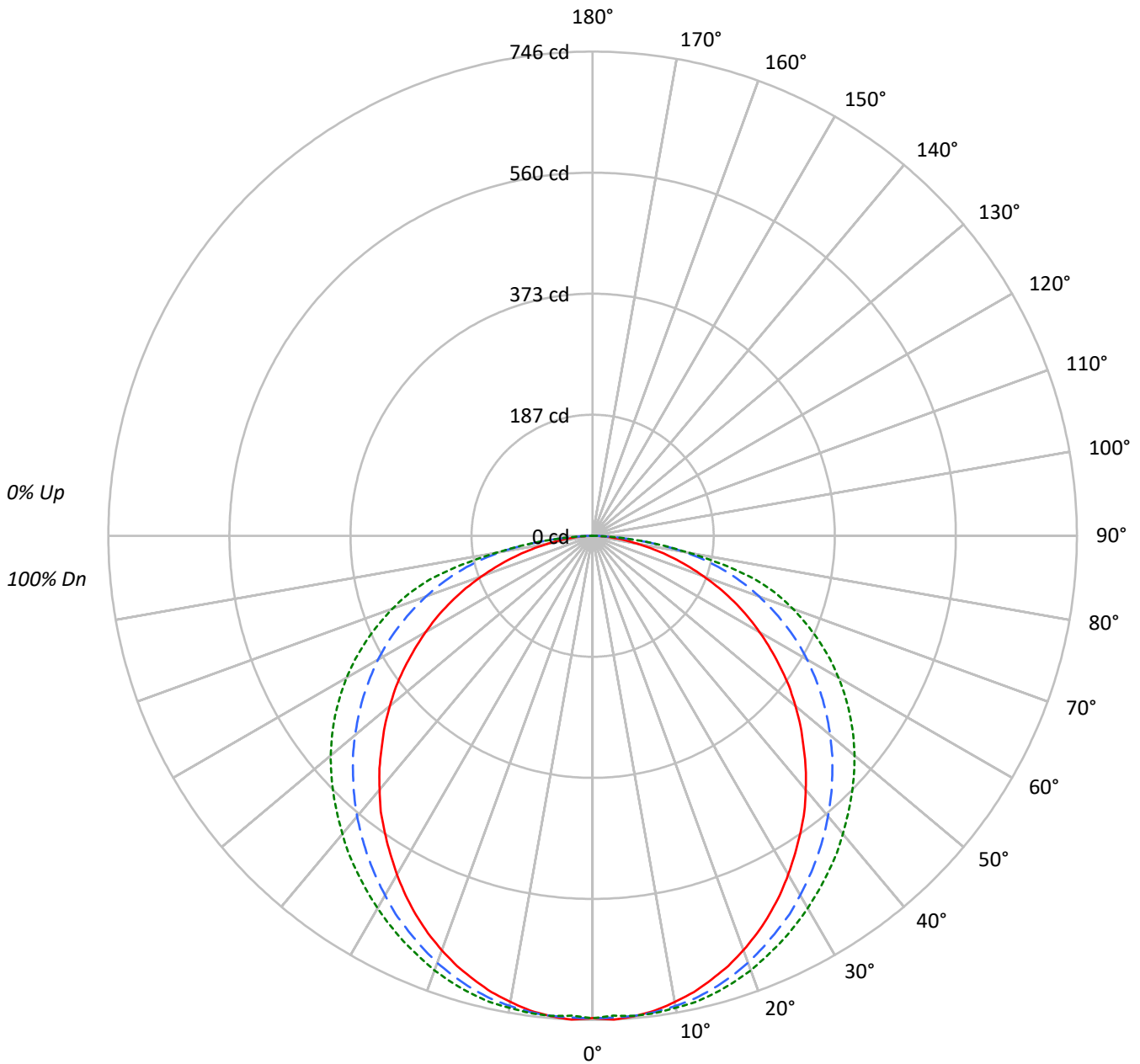
Lumens per Lamp: N/A
Luminaire Lumens: 2325.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1049	1049	1049
5°	1053	1052	1052
10°	1045	1054	1058
15°	1034	1054	1066
20°	1021	1052	1070
25°	1003	1046	1074
30°	982	1042	1080
35°	962	1040	1090
40°	941	1040	1105
45°	916	1042	1126
50°	895	1048	1156
55°	869	1060	1192
60°	839	1077	1235
65°	802	1097	1287
70°	744	1125	1353
75°	674	1164	1415
80°	567	1167	1217
85°	434	883	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	3.0
10°-20°	203.0	8.7
20°-30°	308.3	13.3
30°-40°	375.0	16.1
40°-50°	399.2	17.2
50°-60°	380.3	16.4
60°-70°	318.0	13.7
70°-80°	212.0	9.1
80°-90°	58.7	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°	581.8	25.0
0°-40°	956.8	41.2
0°-60°	1736.3	74.7
0°-90°	2325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	743	739	742	742	742	70
15°	708	709	722	727	729	200
25°	644	652	672	683	690	297
35°	558	574	604	623	633	349
45°	459	484	522	551	564	355
55°	353	384	431	468	484	316
65°	240	276	329	369	385	237
75°	124	163	213	250	260	131
85°	27	50	54	54	54	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.1	743.1	743.1	743.1	743.1
2.5°	746.2	740.8	743.1	743.1	740.1
5°	743.1	738.6	742.4	742.4	742.4
7.5°	737.9	734.0	740.1	741.6	741.6
10°	729.4	727.9	735.6	737.9	738.6
12.5°	720.2	719.4	730.2	733.2	735.6
15°	707.8	709.4	721.7	727.1	729.4
17.5°	694.9	697.8	711.7	719.4	721.7
20°	679.5	684.1	700.2	707.8	712.5
22.5°	662.6	669.5	686.4	695.5	700.9
25°	644.2	652.5	671.8	683.3	689.5
27.5°	624.2	635.0	657.2	670.2	676.4
30°	602.7	614.9	639.6	654.9	662.6
32.5°	580.4	595.0	621.9	638.8	648.0
35°	558.2	574.3	603.5	623.4	632.6
37.5°	535.9	552.0	584.3	605.7	617.3
40°	510.6	529.7	564.3	588.1	599.7
42.5°	486.0	506.7	543.6	569.6	582.0
45°	459.1	483.7	522.0	551.3	564.3
47.5°	434.5	459.1	500.6	531.3	545.9
50°	407.7	433.7	477.5	511.4	526.7
52.5°	381.5	408.5	454.5	490.6	506.0
55°	353.2	383.8	430.7	468.4	484.4
57.5°	324.8	357.8	406.1	445.3	461.5
60°	297.1	330.9	381.5	420.8	437.6
62.5°	269.5	303.2	356.2	396.1	412.3
65°	240.3	275.6	328.6	369.3	385.4
67.5°	211.1	247.9	300.9	341.6	357.0
70°	180.4	219.6	272.6	312.5	327.9
72.5°	152.1	191.2	243.4	282.6	297.1
75°	123.6	162.7	213.4	249.5	259.5
77.5°	96.0	135.1	180.4	204.2	206.5
80°	69.8	106.8	143.6	150.5	149.7
82.5°	46.8	79.8	99.1	99.8	102.1
85°	26.8	49.9	54.5	53.8	54.5
87.5°	10.8	17.7	15.4	11.5	11.5
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)