

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: P734155

Luminaire Tested: **24FCZ2-30HE-SQR-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734155
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-CP250-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SQR LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

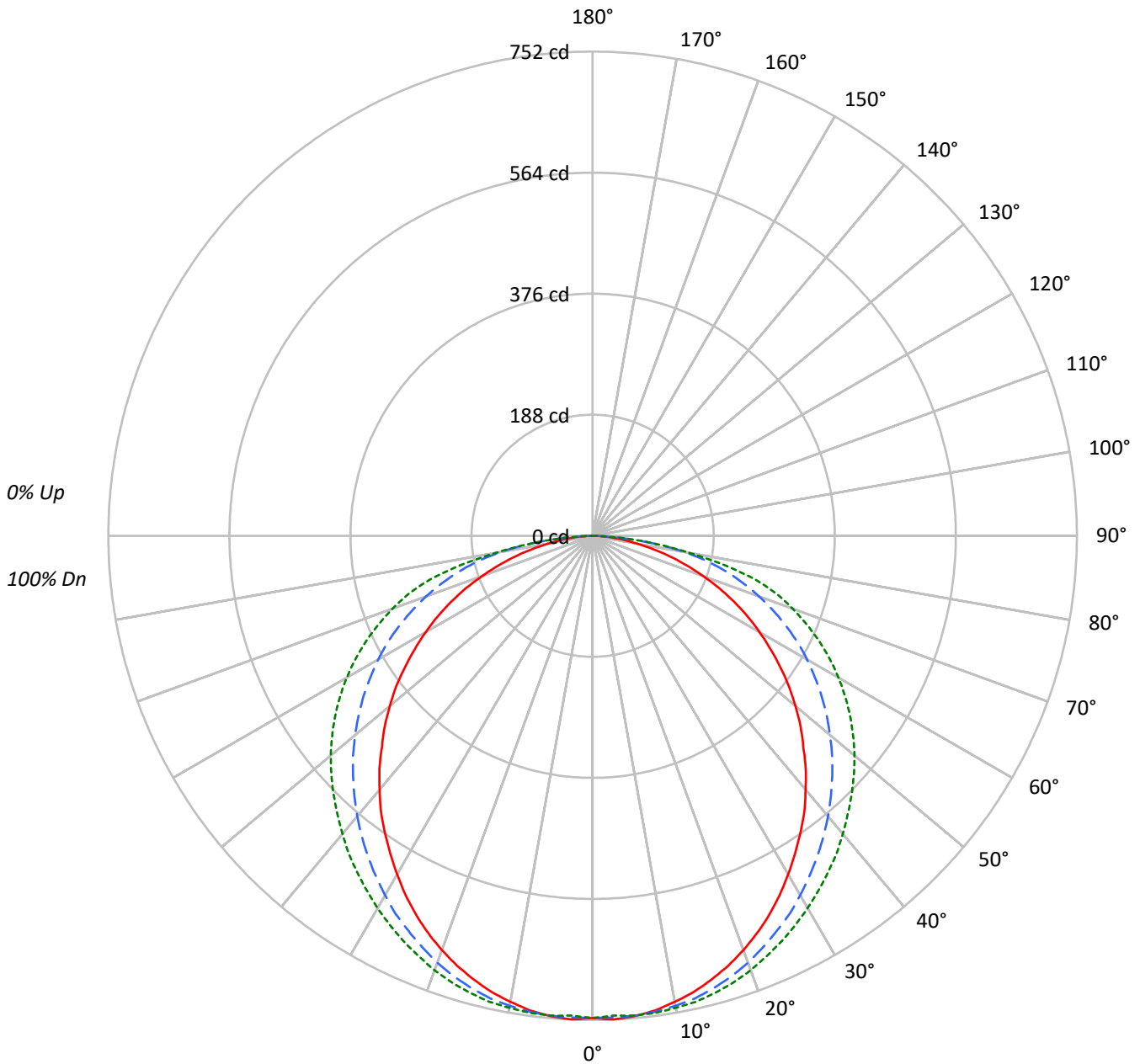
Lumens per Lamp: N/A
Luminaire Lumens: 2343.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1057	1057	1057
5°	1061	1060	1060
10°	1053	1062	1067
15°	1042	1063	1074
20°	1028	1060	1078
25°	1011	1054	1082
30°	990	1050	1088
35°	969	1048	1098
40°	948	1048	1113
45°	923	1050	1135
50°	902	1057	1165
55°	876	1068	1201
60°	845	1085	1245
65°	808	1106	1297
70°	750	1134	1363
75°	679	1173	1426
80°	572	1176	1226
85°	437	889	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.0
10°-20°	204.5	8.7
20°-30°	310.7	13.3
30°-40°	377.9	16.1
40°-50°	402.3	17.2
50°-60°	383.2	16.4
60°-70°	320.5	13.7
70°-80°	213.7	9.1
80°-90°	59.1	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°	586.3	25.0
0°-40°	964.2	41.2
0°-60°	1749.8	74.7
0°-90°	2343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2343.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	749	744	748	748	748	71
15°	713	715	727	733	735	201
25°	649	658	677	689	695	299
35°	562	579	608	628	638	352
45°	463	488	526	556	569	358
55°	356	387	434	472	488	318
65°	242	278	331	372	388	239
75°	125	164	215	252	262	132
85°	27	50	55	54	55	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.9	748.9	748.9	748.9	748.9
2.5°	752.0	746.6	748.9	748.9	745.9
5°	748.9	744.3	748.2	748.2	748.2
7.5°	743.6	739.6	745.9	747.4	747.4
10°	735.0	733.5	741.3	743.6	744.3
12.5°	725.8	725.0	735.8	738.8	741.3
15°	713.3	714.9	727.3	732.7	735.0
17.5°	700.2	703.2	717.2	725.0	727.3
20°	684.7	689.4	705.7	713.3	718.0
22.5°	667.8	674.7	691.7	700.9	706.4
25°	649.2	657.6	677.0	688.6	694.8
27.5°	629.0	639.9	662.3	675.4	681.6
30°	607.3	619.7	644.5	660.0	667.8
32.5°	584.9	599.6	626.7	643.7	653.0
35°	562.5	578.8	608.1	628.2	637.5
37.5°	540.1	556.2	588.8	610.4	622.1
40°	514.5	533.8	568.7	592.6	604.3
42.5°	489.8	510.6	547.8	574.0	586.5
45°	462.6	487.5	526.1	555.5	568.7
47.5°	437.9	462.6	504.5	535.4	550.1
50°	410.8	437.1	481.2	515.3	530.8
52.5°	384.5	411.7	458.0	494.4	509.9
55°	355.9	386.8	434.1	472.0	488.2
57.5°	327.3	360.6	409.2	448.8	465.0
60°	299.4	333.4	384.5	424.0	441.0
62.5°	271.6	305.6	359.0	399.2	415.5
65°	242.1	277.7	331.1	372.1	388.4
67.5°	212.8	249.9	303.3	344.3	359.8
70°	181.8	221.3	274.7	314.9	330.4
72.5°	153.2	192.7	245.2	284.8	299.4
75°	124.6	164.0	215.1	251.5	261.5
77.5°	96.7	136.1	181.8	205.8	208.1
80°	70.4	107.6	144.7	151.6	150.8
82.5°	47.2	80.4	99.8	100.5	102.9
85°	27.0	50.3	54.9	54.2	54.9
87.5°	10.9	17.8	15.5	11.6	11.6
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)