

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: P734138

Luminaire Tested: **24FCZ2-30HE-SQR-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734138
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-CA08-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SQR LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

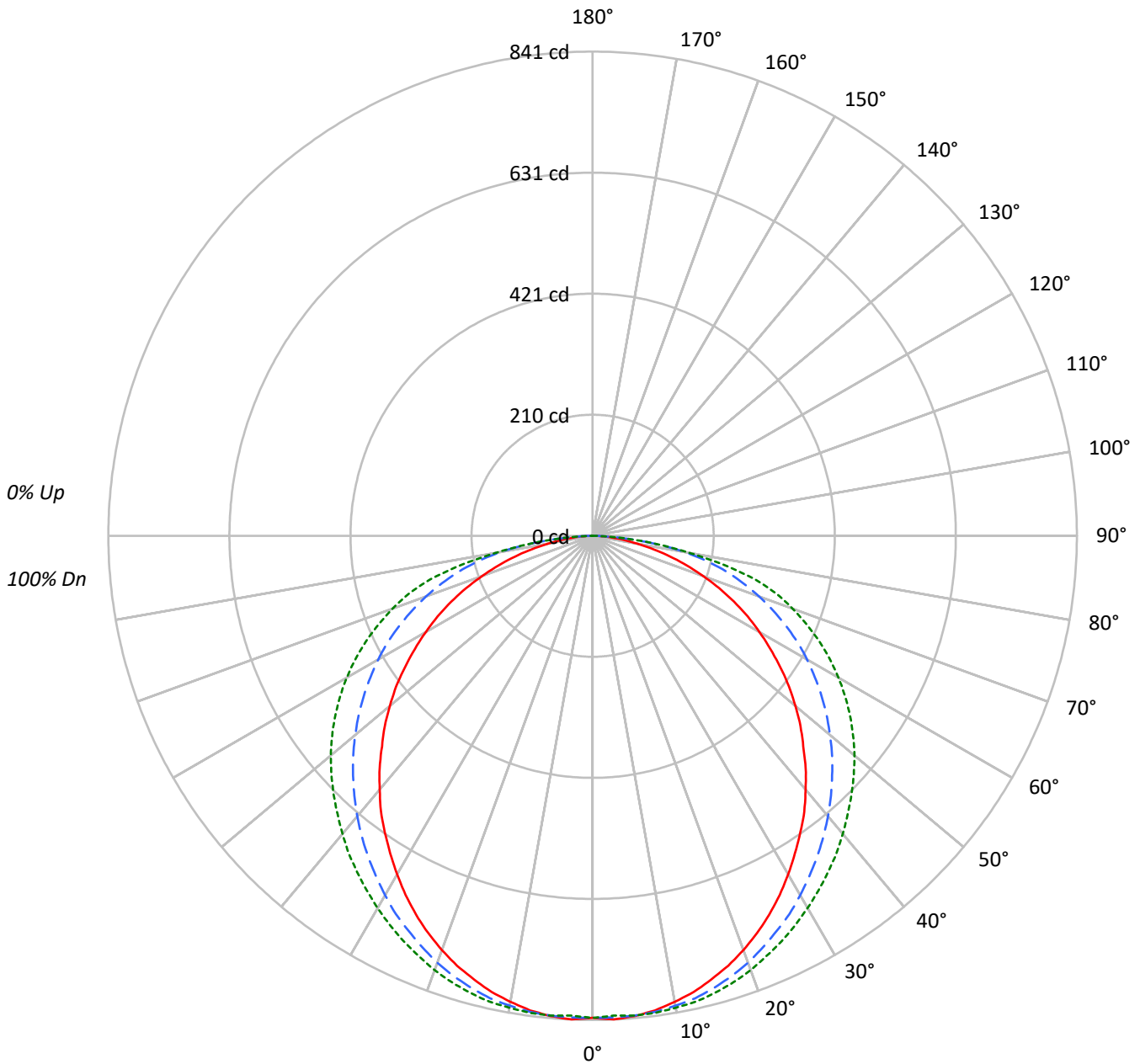
Lumens per Lamp: N/A
Luminaire Lumens: 2620.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P734138

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CA08-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P734138

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CA08-3500K

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°	1182	1182	1182
5°	1186	1185	1185
10°	1178	1188	1193
15°	1165	1188	1201
20°	1150	1185	1206
25°	1130	1179	1210
30°	1107	1175	1217
35°	1084	1172	1228
40°	1060	1172	1245
45°	1032	1174	1269
50°	1009	1181	1303
55°	979	1194	1343
60°	945	1214	1392
65°	904	1237	1450
70°	839	1268	1525
75°	760	1311	1594
80°	640	1315	1371
85°	489	994	994



TEST NUMBER: P734138

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CA08-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	3.0
10°-20°	228.7	8.7
20°-30°	347.4	13.3
30°-40°	422.6	16.1
40°-50°	449.9	17.2
50°-60°	428.5	16.4
60°-70°	358.3	13.7
70°-80°	238.9	9.1
80°-90°	66.1	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°	655.6	25.0
0°-40°	1078.2	41.2
0°-60°	1956.6	74.7
0°-90°	2620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2620.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	837	837	837	837	837	
5°	837	832	837	837	837	79
15°	798	799	813	819	822	225
25°	726	735	757	770	777	334
35°	629	647	680	702	713	394
45°	517	545	588	621	636	400
55°	398	432	485	528	546	356
65°	271	311	370	416	434	268
75°	139	183	240	281	292	148
85°	30	56	61	61	61	37
90°	0	0	0	0	0	



TEST NUMBER: P734138

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CA08-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	837.4	837.4	837.4	837.4	837.4
2.5°	840.9	834.8	837.4	837.4	834.1
5°	837.4	832.3	836.6	836.6	836.6
7.5°	831.5	827.1	834.1	835.7	835.7
10°	821.9	820.2	828.9	831.5	832.3
12.5°	811.6	810.7	822.8	826.2	828.9
15°	797.6	799.4	813.3	819.3	821.9
17.5°	783.0	786.4	802.0	810.7	813.3
20°	765.7	770.9	789.1	797.6	802.9
22.5°	746.7	754.5	773.5	783.8	789.9
25°	725.9	735.3	757.0	770.0	776.9
27.5°	703.4	715.6	740.6	755.2	762.2
30°	679.1	693.0	720.7	738.0	746.7
32.5°	654.0	670.5	700.8	719.8	730.2
35°	629.0	647.2	680.0	702.5	712.9
37.5°	603.9	622.0	658.4	682.6	695.6
40°	575.3	596.9	635.9	662.7	675.7
42.5°	547.7	571.0	612.6	641.9	655.8
45°	517.3	545.1	588.3	621.2	635.9
47.5°	489.7	517.3	564.1	598.7	615.1
50°	459.4	488.8	538.1	576.2	593.6
52.5°	430.0	460.3	512.2	552.9	570.2
55°	398.0	432.5	485.4	527.8	545.9
57.5°	366.0	403.2	457.6	501.8	520.0
60°	334.8	372.8	430.0	474.1	493.2
62.5°	303.7	341.7	401.4	446.4	464.6
65°	270.7	310.6	370.3	416.1	434.3
67.5°	237.9	279.4	339.1	385.0	402.3
70°	203.3	247.5	307.2	352.2	369.5
72.5°	171.4	215.4	274.2	318.4	334.8
75°	139.3	183.4	240.5	281.2	292.4
77.5°	108.2	152.2	203.3	230.2	232.7
80°	78.7	120.3	161.8	169.6	168.7
82.5°	52.7	89.9	111.7	112.4	115.0
85°	30.2	56.2	61.4	60.6	61.4
87.5°	12.1	19.9	17.3	12.9	12.9
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)