

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: P734154

Luminaire Tested: **24FCZ2-30HE-SQR-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734154
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-CP250-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SQR LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

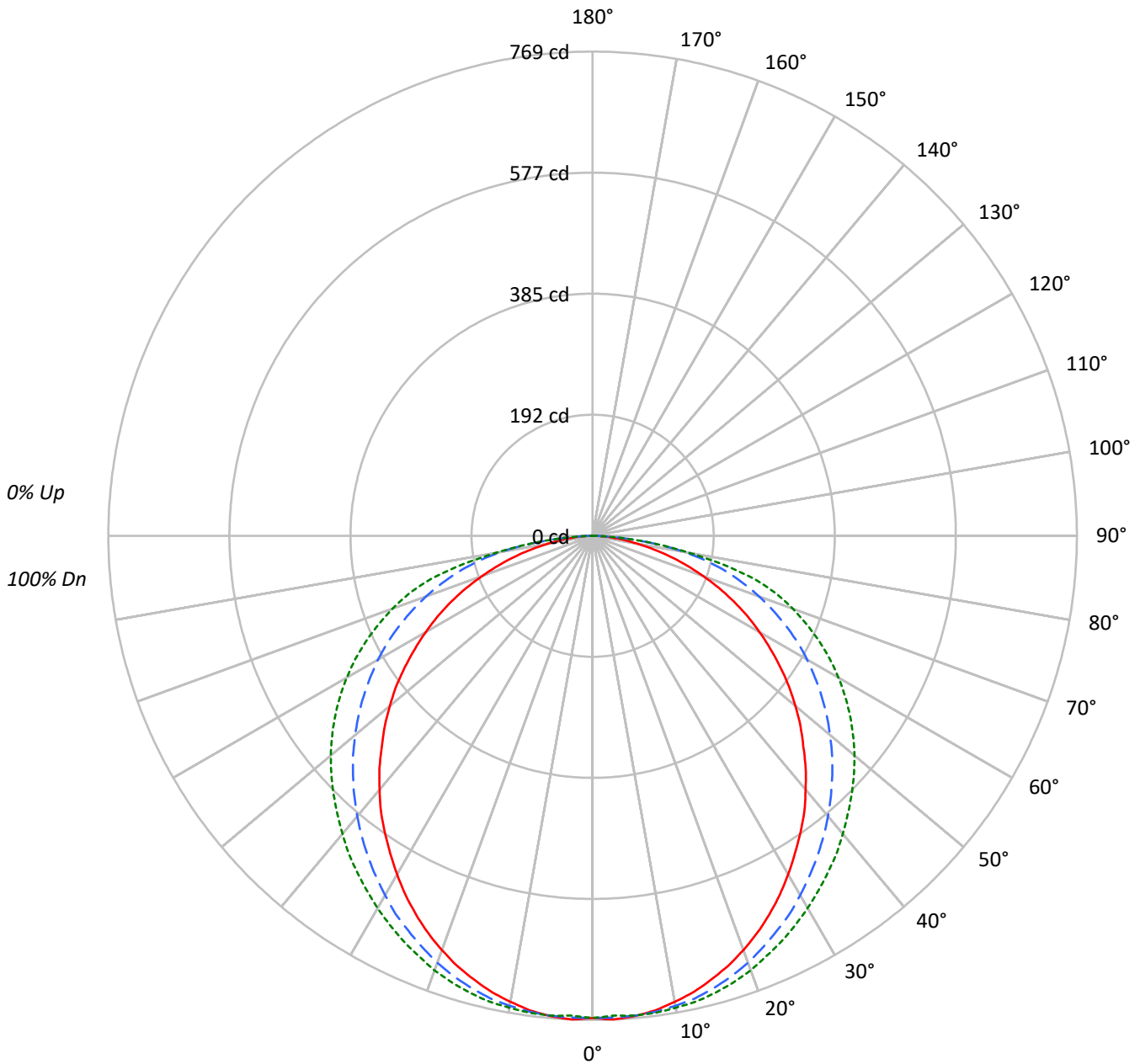
Lumens per Lamp: N/A
Luminaire Lumens: 2396.0 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P734154

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CP250-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P734154

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CP250-4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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°	1081	1081	1081
5°	1085	1084	1084
10°	1077	1086	1091
15°	1066	1087	1098
20°	1052	1084	1103
25°	1034	1078	1106
30°	1012	1074	1113
35°	991	1071	1123
40°	969	1072	1139
45°	944	1074	1161
50°	922	1080	1192
55°	896	1092	1228
60°	864	1110	1273
65°	827	1131	1326
70°	767	1159	1394
75°	695	1199	1458
80°	585	1203	1253
85°	449	908	908



TEST NUMBER: P734154

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CP250-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	3.0
10°-20°	209.2	8.7
20°-30°	317.7	13.3
30°-40°	386.4	16.1
40°-50°	411.4	17.2
50°-60°	391.9	16.4
60°-70°	327.7	13.7
70°-80°	218.5	9.1
80°-90°	60.4	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°	599.6	25.0
0°-40°	986.0	41.2
0°-60°	1789.4	74.7
0°-90°	2396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	766	761	765	765	765	73
15°	729	731	744	749	752	206
25°	664	672	692	704	710	306
35°	575	592	622	642	652	360
45°	473	498	538	568	582	366
55°	364	396	444	483	499	325
65°	248	284	339	381	397	245
75°	127	168	220	257	267	135
85°	28	51	56	55	56	33
90°	0	0	0	0	0	



TEST NUMBER: P734154

CATALOG NUMBER: 24FCZ2-30HE-SQR-B2750-W2D-CP250-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.8	765.8	765.8	765.8	765.8
2.5°	769.0	763.5	765.8	765.8	762.8
5°	765.8	761.1	765.1	765.1	765.1
7.5°	760.4	756.4	762.8	764.3	764.3
10°	751.6	750.1	758.0	760.4	761.1
12.5°	742.2	741.4	752.5	755.6	758.0
15°	729.4	731.1	743.7	749.3	751.6
17.5°	716.1	719.2	733.4	741.4	743.7
20°	700.2	705.0	721.6	729.4	734.3
22.5°	682.9	690.0	707.3	716.8	722.3
25°	663.8	672.5	692.3	704.1	710.5
27.5°	643.3	654.4	677.3	690.7	697.0
30°	621.1	633.7	659.1	674.9	682.9
32.5°	598.1	613.1	640.9	658.3	667.7
35°	575.2	591.9	621.9	642.4	651.9
37.5°	552.3	568.8	602.1	624.2	636.2
40°	526.2	545.9	581.6	606.0	618.0
42.5°	500.9	522.1	560.2	587.0	599.8
45°	473.1	498.5	538.0	568.1	581.6
47.5°	447.8	473.1	515.9	547.5	562.6
50°	420.1	447.0	492.1	527.0	542.8
52.5°	393.2	421.0	468.4	505.6	521.4
55°	364.0	395.6	443.9	482.7	499.2
57.5°	334.7	368.7	418.5	458.9	475.6
60°	306.2	341.0	393.2	433.6	451.0
62.5°	277.7	312.5	367.1	408.2	424.9
65°	247.6	284.0	338.6	380.6	397.2
67.5°	217.6	255.5	310.1	352.1	367.9
70°	185.9	226.3	280.9	322.0	337.9
72.5°	156.7	197.0	250.8	291.2	306.2
75°	127.4	167.7	219.9	257.2	267.4
77.5°	98.9	139.2	185.9	210.5	212.8
80°	72.0	110.0	148.0	155.1	154.2
82.5°	48.2	82.3	102.1	102.8	105.2
85°	27.7	51.4	56.1	55.4	56.1
87.5°	11.1	18.2	15.8	11.8	11.8
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)