

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: P734149

Luminaire Tested: **24FCZ2-30HE-SQR-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734149
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-CP187-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SQR LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

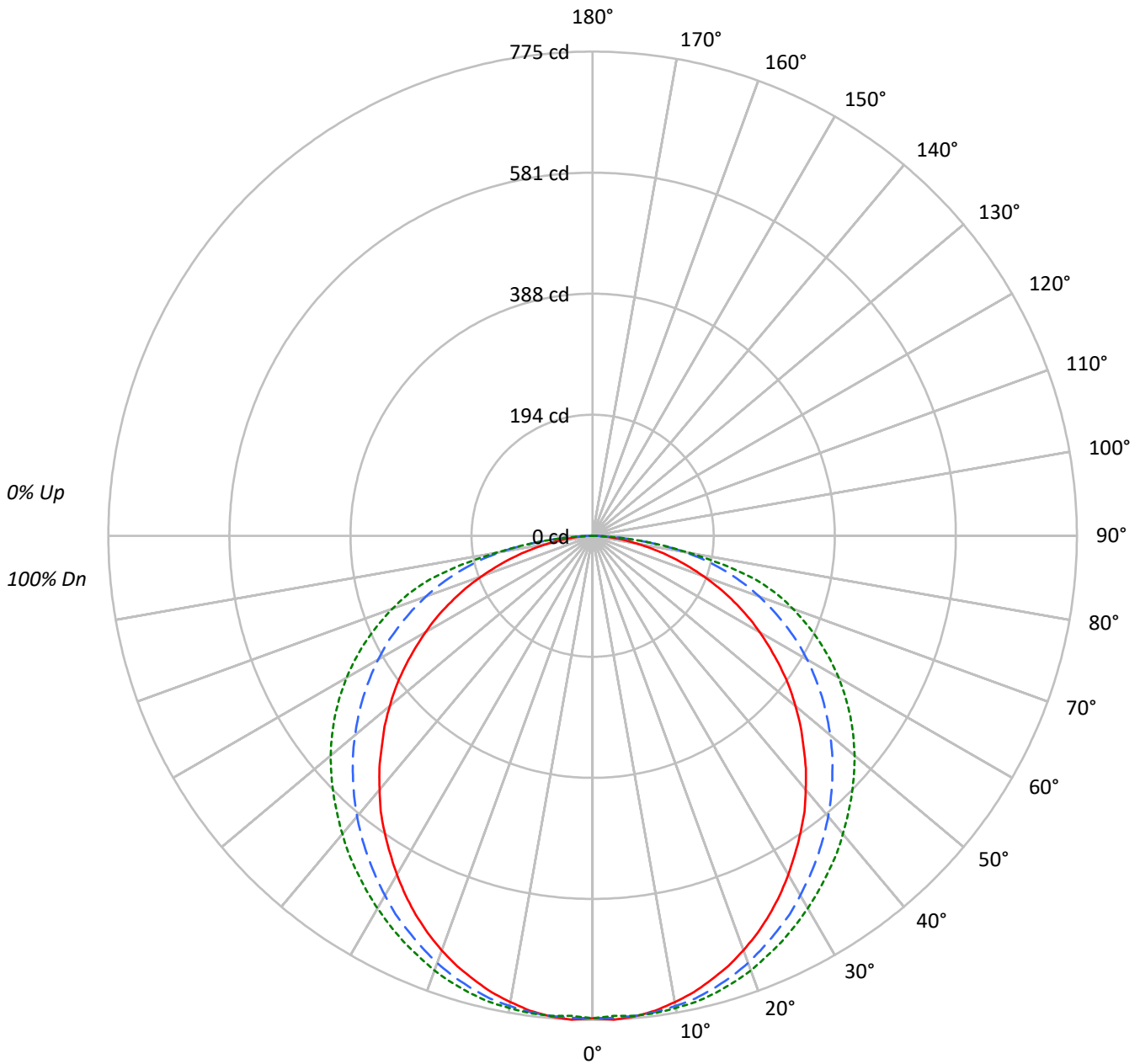
Lumens per Lamp: N/A
Luminaire Lumens: 2416.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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				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				100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82				82
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67				67
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56				56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47				47
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41				41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35				35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28				28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25				25
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1090	1090	1090
5°	1094	1093	1093
10°	1086	1095	1100
15°	1075	1096	1107
20°	1061	1093	1112
25°	1042	1087	1116
30°	1021	1083	1122
35°	999	1080	1132
40°	977	1080	1148
45°	952	1083	1170
50°	930	1089	1202
55°	903	1101	1239
60°	872	1119	1284
65°	834	1140	1337
70°	774	1169	1406
75°	701	1209	1471
80°	590	1213	1264
85°	452	917	917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	3.0
10°-20°	210.9	8.7
20°-30°	320.4	13.3
30°-40°	389.7	16.1
40°-50°	414.9	17.2
50°-60°	395.2	16.4
60°-70°	330.4	13.7
70°-80°	220.3	9.1
80°-90°	61.0	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°	604.6	25.0
0°-40°	994.3	41.2
0°-60°	1804.3	74.7
0°-90°	2416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	772	768	772	772	772	73
15°	736	737	750	756	758	207
25°	669	678	698	710	716	308
35°	580	597	627	648	657	363
45°	477	503	542	573	586	369
55°	367	399	448	487	503	328
65°	250	286	341	384	400	247
75°	128	169	222	259	270	136
85°	28	52	57	56	57	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.2	772.2	772.2	772.2	772.2
2.5°	775.4	769.8	772.2	772.2	769.1
5°	772.2	767.5	771.5	771.5	771.5
7.5°	766.7	762.7	769.1	770.7	770.7
10°	757.9	756.4	764.3	766.7	767.5
12.5°	748.4	747.6	758.7	761.9	764.3
15°	735.5	737.2	749.9	755.5	757.9
17.5°	722.0	725.2	739.6	747.6	749.9
20°	706.1	710.8	727.6	735.5	740.4
22.5°	688.6	695.7	713.2	722.8	728.4
25°	669.4	678.1	698.1	710.0	716.4
27.5°	648.6	659.8	683.0	696.4	702.9
30°	626.2	639.0	664.6	680.6	688.6
32.5°	603.1	618.3	646.3	663.8	673.3
35°	580.0	596.8	627.1	647.8	657.3
37.5°	556.9	573.6	607.2	629.5	641.5
40°	530.5	550.5	586.4	611.1	623.1
42.5°	505.0	526.5	564.9	591.9	604.8
45°	477.0	502.7	542.5	572.8	586.4
47.5°	451.5	477.0	520.2	552.1	567.2
50°	423.6	450.7	496.2	531.4	547.3
52.5°	396.5	424.5	472.3	509.8	525.8
55°	367.0	398.9	447.6	486.7	503.4
57.5°	337.5	371.8	422.0	462.7	479.5
60°	308.8	343.8	396.5	437.2	454.8
62.5°	280.0	315.1	370.1	411.6	428.4
65°	249.7	286.4	341.4	383.7	400.5
67.5°	219.4	257.7	312.7	355.0	371.0
70°	187.5	228.2	283.3	324.7	340.7
72.5°	158.0	198.7	252.9	293.6	308.8
75°	128.5	169.1	221.8	259.3	269.7
77.5°	99.7	140.4	187.5	212.2	214.6
80°	72.6	110.9	149.2	156.4	155.5
82.5°	48.6	82.9	103.0	103.7	106.1
85°	27.9	51.8	56.6	55.9	56.6
87.5°	11.2	18.4	16.0	11.9	11.9
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)