

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: P734030

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734030
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: 24FCZ2-30-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

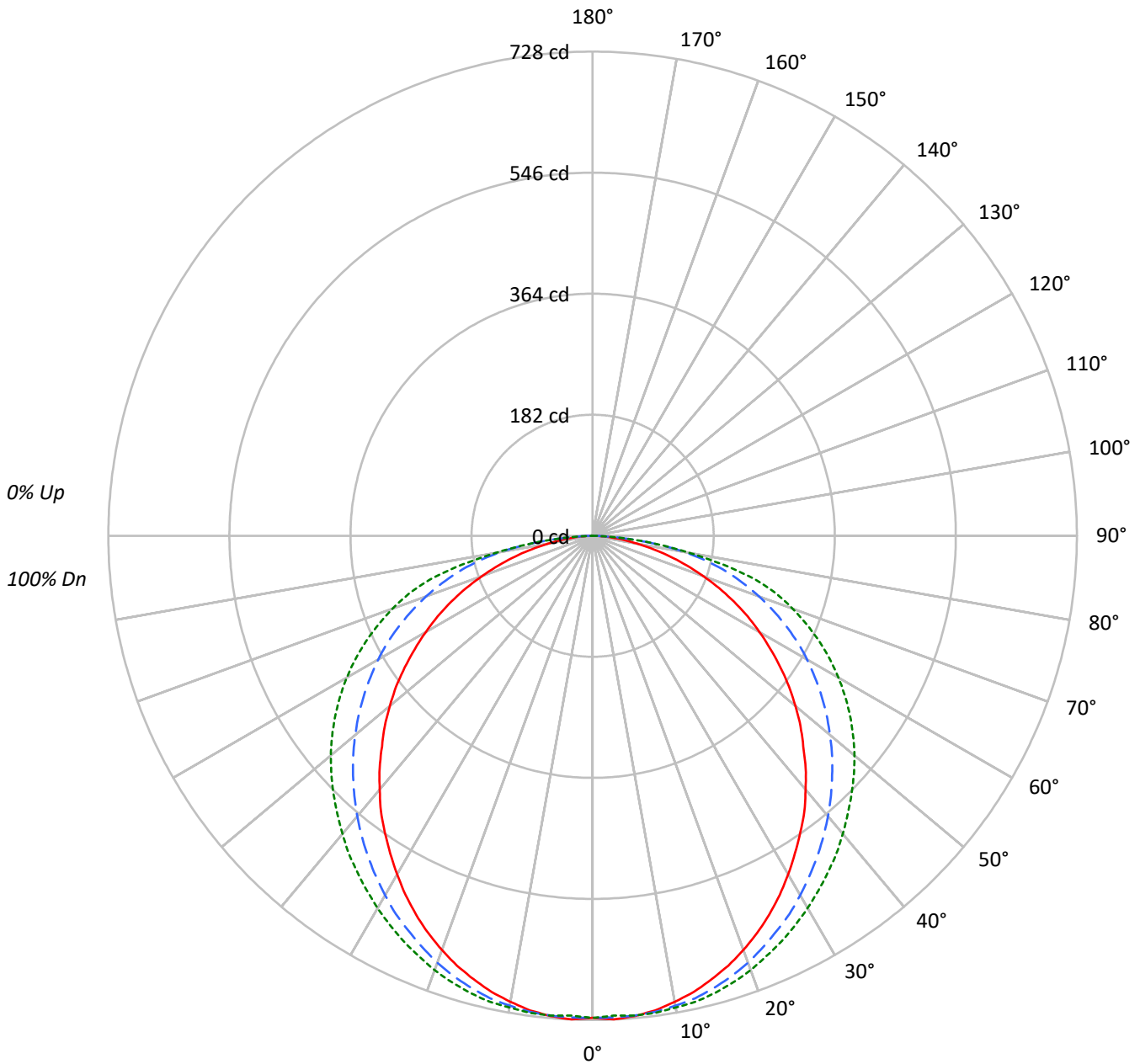
Lumens per Lamp: N/A
Luminaire Lumens: 2268.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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°	1023	1023	1023
5°	1027	1026	1026
10°	1020	1028	1032
15°	1009	1029	1040
20°	995	1026	1044
25°	979	1020	1047
30°	958	1017	1053
35°	938	1014	1063
40°	918	1014	1078
45°	894	1016	1099
50°	873	1023	1128
55°	848	1034	1163
60°	818	1051	1205
65°	783	1070	1256
70°	726	1097	1320
75°	658	1135	1381
80°	553	1139	1187
85°	424	860	860



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	3.0
10°-20°	198.0	8.7
20°-30°	300.7	13.3
30°-40°	365.8	16.1
40°-50°	389.5	17.2
50°-60°	370.9	16.4
60°-70°	310.2	13.7
70°-80°	206.8	9.1
80°-90°	57.2	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°	567.5	25.0
0°-40°	933.4	41.2
0°-60°	1693.8	74.7
0°-90°	2268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	725	720	724	724	724	69
15°	690	692	704	709	712	195
25°	628	636	655	666	673	289
35°	544	560	589	608	617	341
45°	448	472	509	538	550	346
55°	345	374	420	457	472	308
65°	234	269	320	360	376	232
75°	121	159	208	243	253	128
85°	26	49	53	52	53	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.9	724.9	724.9	724.9	724.9
2.5°	727.9	722.7	724.9	724.9	722.0
5°	724.9	720.4	724.2	724.2	724.2
7.5°	719.8	716.0	722.0	723.5	723.5
10°	711.5	710.0	717.5	719.8	720.4
12.5°	702.5	701.8	712.3	715.2	717.5
15°	690.5	692.0	704.0	709.3	711.5
17.5°	677.8	680.7	694.3	701.8	704.0
20°	662.8	667.3	683.1	690.5	695.0
22.5°	646.4	653.1	669.5	678.5	683.8
25°	628.4	636.5	655.3	666.5	672.6
27.5°	608.9	619.4	641.1	653.8	659.8
30°	587.9	599.9	623.9	638.9	646.4
32.5°	566.2	580.4	606.7	623.1	632.1
35°	544.5	560.2	588.7	608.1	617.1
37.5°	522.8	538.4	570.0	590.9	602.2
40°	498.0	516.7	550.5	573.7	585.0
42.5°	474.1	494.2	530.3	555.7	567.7
45°	447.8	471.9	509.2	537.8	550.5
47.5°	423.9	447.8	488.3	518.3	532.5
50°	397.7	423.1	465.8	498.8	513.8
52.5°	372.2	398.5	443.3	478.6	493.6
55°	344.6	374.4	420.2	456.9	472.5
57.5°	316.8	349.0	396.1	434.4	450.2
60°	289.9	322.8	372.2	410.4	426.9
62.5°	262.9	295.8	347.5	386.4	402.2
65°	234.4	268.8	320.5	360.2	376.0
67.5°	206.0	241.9	293.6	333.3	348.3
70°	176.0	214.2	265.9	304.8	319.8
72.5°	148.3	186.5	237.4	275.6	289.9
75°	120.6	158.7	208.2	243.4	253.2
77.5°	93.6	131.8	176.0	199.2	201.5
80°	68.1	104.1	140.1	146.8	146.0
82.5°	45.6	77.9	96.6	97.3	99.6
85°	26.2	48.7	53.1	52.5	53.1
87.5°	10.5	17.2	15.0	11.2	11.2
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)