

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: METALUX

Report Number: P258580

Luminaire Tested: **14CZ-LD5-29-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-UNV-L93050-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2746.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

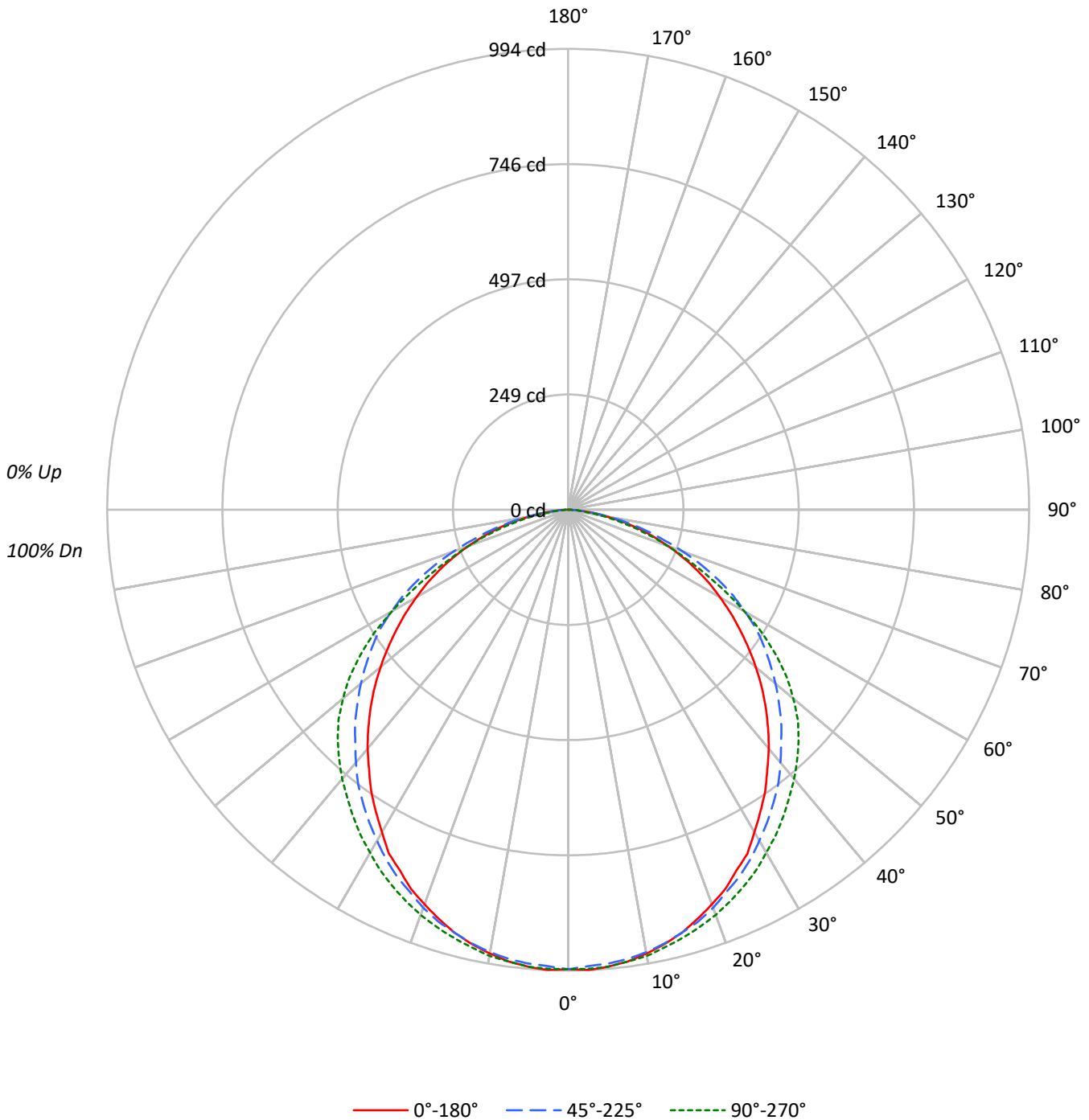
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2667	2667	2667
5°	2673	2655	2673
10°	2656	2649	2671
15°	2632	2632	2663
20°	2594	2617	2663
25°	2548	2593	2661
30°	2495	2562	2654
35°	2433	2535	2655
40°	2363	2501	2663
45°	2293	2473	2674
50°	2210	2443	2653
55°	2122	2420	2566
60°	2033	2368	2361
65°	1940	2267	2069
70°	1800	2066	1789
75°	1632	1802	1477
80°	1300	1427	1091
85°	920	794	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	3.4
10°-20°	267.9	9.8
20°-30°	403.9	14.7
30°-40°	484.1	17.6
40°-50°	502.4	18.3
50°-60°	453.1	16.5
60°-70°	330.5	12.0
70°-80°	173.4	6.3
80°-90°	37.0	1.3
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°	765.5	27.9
0°-40°	1249.6	45.5
0°-60°	2205.1	80.3
0°-90°	2746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	990	987	983	990	990	94
15°	945	945	945	956	956	266
25°	858	862	873	892	896	396
35°	740	749	772	800	808	463
45°	602	615	650	689	703	464
55°	452	468	516	550	547	405
65°	305	322	356	342	325	301
75°	157	179	173	150	142	165
85°	30	37	26	22	20	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	991.0	991.0	991.0	991.0	991.0
2.5°	993.7	991.0	985.5	991.0	991.0
5°	989.6	986.9	982.8	989.6	989.6
7.5°	982.8	980.1	977.4	984.2	982.8
10°	972.0	970.6	969.3	977.4	977.4
12.5°	959.8	959.8	958.5	967.9	966.6
15°	944.9	944.9	944.9	955.8	955.8
17.5°	926.0	928.7	931.4	943.6	943.6
20°	905.7	908.4	913.8	928.7	930.0
22.5°	885.4	886.7	892.1	909.7	913.8
25°	858.3	862.3	873.2	892.1	896.2
27.5°	836.6	838.0	850.2	871.8	877.2
30°	802.8	812.3	824.4	848.8	854.2
32.5°	771.6	779.8	798.7	824.4	832.6
35°	740.5	748.6	771.6	800.1	808.2
37.5°	705.3	717.5	744.6	773.0	782.5
40°	672.8	683.6	712.1	747.3	758.1
42.5°	637.6	648.5	679.6	718.8	731.0
45°	602.4	614.6	649.8	689.1	702.6
47.5°	565.9	579.4	616.0	659.3	671.5
50°	528.0	542.9	583.5	628.1	633.6
52.5°	490.1	506.3	549.6	588.9	594.3
55°	452.2	468.4	515.8	549.6	546.9
57.5°	415.6	433.2	481.9	499.5	496.8
60°	377.7	396.7	440.0	448.1	438.6
62.5°	342.5	360.1	400.7	393.9	381.8
65°	304.6	322.2	356.0	342.5	324.9
67.5°	266.7	288.4	310.0	287.0	273.5
70°	228.8	253.2	262.6	239.6	227.4
72.5°	192.2	218.0	215.2	192.2	184.1
75°	157.0	178.7	173.3	150.3	142.1
77.5°	119.1	143.5	131.3	112.4	105.6
80°	83.9	105.6	92.1	75.8	70.4
82.5°	55.5	70.4	56.9	44.7	40.6
85°	29.8	36.6	25.7	21.7	20.3
87.5°	12.2	10.8	9.5	9.5	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)