

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: P230895

Luminaire Tested: **14CZ-LD5-29-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230895
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-L950-CD1-U
Description: CRUZE 1x4 LED TROFFER
WITH RIBBED LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2801.0 lumens
Efficiency: N/A
Efficacy: 114.3 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

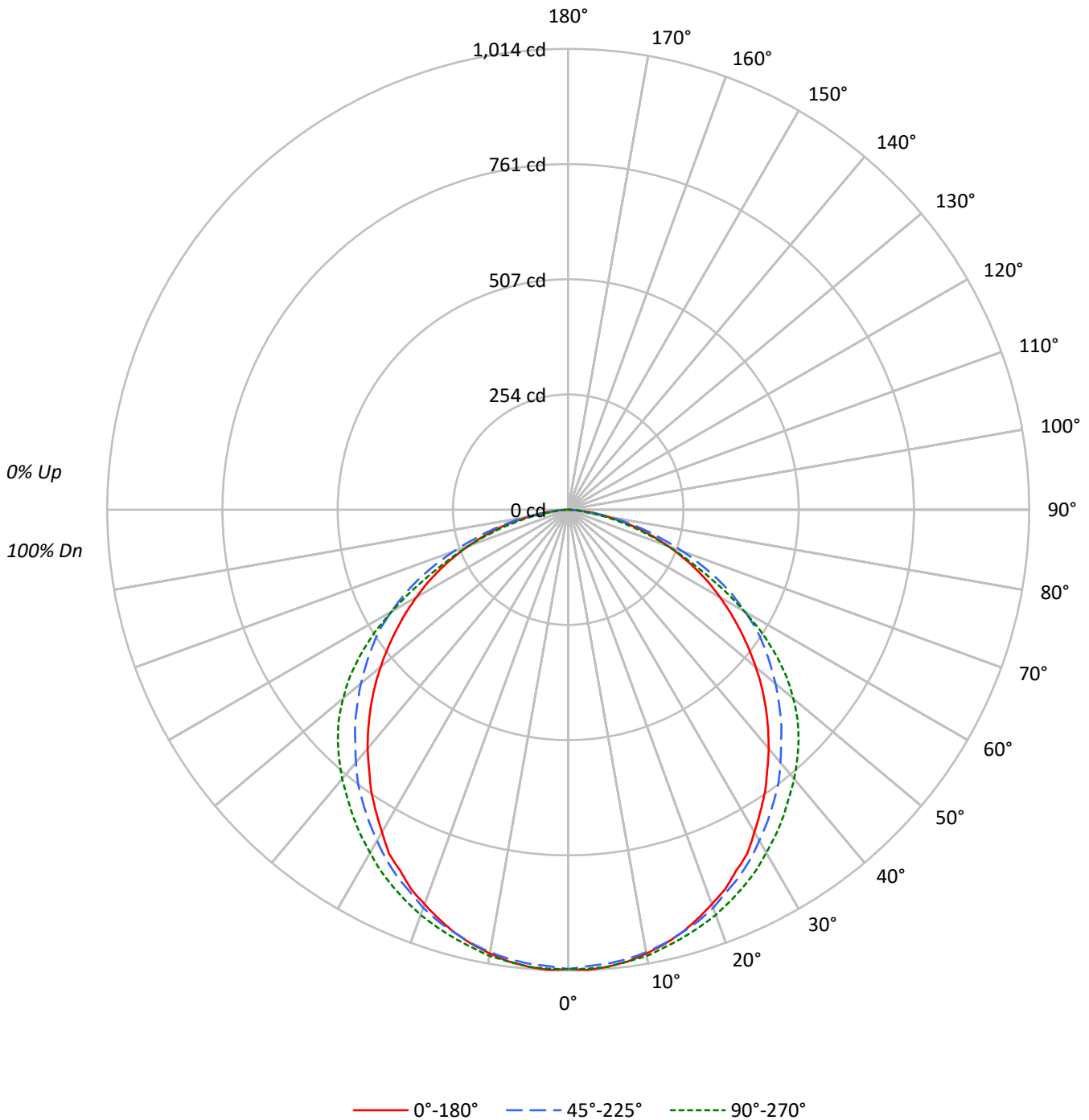
Input Watts (W): 24.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2720	2720	2720
5°	2727	2708	2727
10°	2709	2702	2724
15°	2685	2685	2716
20°	2645	2669	2717
25°	2600	2645	2714
30°	2545	2613	2707
35°	2481	2586	2708
40°	2411	2551	2716
45°	2339	2522	2727
50°	2254	2492	2706
55°	2164	2468	2617
60°	2074	2415	2408
65°	1978	2313	2110
70°	1836	2108	1825
75°	1666	1838	1508
80°	1327	1455	1113
85°	939	809	639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	3.4
10°-20°	273.2	9.8
20°-30°	412.0	14.7
30°-40°	493.8	17.6
40°-50°	512.4	18.3
50°-60°	462.2	16.5
60°-70°	337.1	12.0
70°-80°	176.9	6.3
80°-90°	37.7	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°	780.8	27.9
0°-40°	1274.6	45.5
0°-60°	2249.2	80.3
0°-90°	2801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1009	1007	1002	1009	1009	96
15°	964	964	964	975	975	272
25°	876	880	891	910	914	404
35°	755	764	787	816	824	472
45°	614	627	663	703	717	474
55°	461	478	526	561	558	413
65°	311	329	363	349	331	307
75°	160	182	177	153	145	168
85°	30	37	26	22	21	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	1013.6	1010.8	1005.3	1010.8	1010.8
5°	1009.4	1006.7	1002.5	1009.4	1009.4
7.5°	1002.5	999.8	997.0	1003.9	1002.5
10°	991.5	990.1	988.7	997.0	997.0
12.5°	979.0	979.0	977.7	987.3	985.9
15°	963.9	963.9	963.9	974.9	974.9
17.5°	944.5	947.3	950.0	962.5	962.5
20°	923.8	926.6	932.1	947.3	948.7
22.5°	903.1	904.5	910.0	927.9	932.1
25°	875.5	879.6	890.7	910.0	914.1
27.5°	853.4	854.8	867.2	889.3	894.8
30°	818.9	828.5	841.0	865.8	871.3
32.5°	787.1	795.4	814.7	841.0	849.2
35°	755.3	763.6	787.1	816.1	824.4
37.5°	719.4	731.9	759.5	788.5	798.1
40°	686.3	697.3	726.3	762.2	773.3
42.5°	650.4	661.4	693.2	733.2	745.7
45°	614.5	626.9	662.8	702.9	716.7
47.5°	577.2	591.0	628.3	672.5	684.9
50°	538.5	553.7	595.2	640.7	646.3
52.5°	499.9	516.4	560.6	600.7	606.2
55°	461.2	477.8	526.1	560.6	557.9
57.5°	423.9	441.9	491.6	509.5	506.8
60°	385.3	404.6	448.8	457.1	447.4
62.5°	349.4	367.3	408.7	401.8	389.4
65°	310.7	328.6	363.2	349.4	331.4
67.5°	272.0	294.1	316.2	292.7	278.9
70°	233.4	258.2	267.9	244.4	232.0
72.5°	196.1	222.3	219.6	196.1	187.8
75°	160.2	182.3	176.8	153.3	145.0
77.5°	121.5	146.4	133.9	114.6	107.7
80°	85.6	107.7	93.9	77.3	71.8
82.5°	56.6	71.8	58.0	45.6	41.4
85°	30.4	37.3	26.2	22.1	20.7
87.5°	12.4	11.0	9.7	9.7	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)