

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: P258953

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-RDP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1968.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

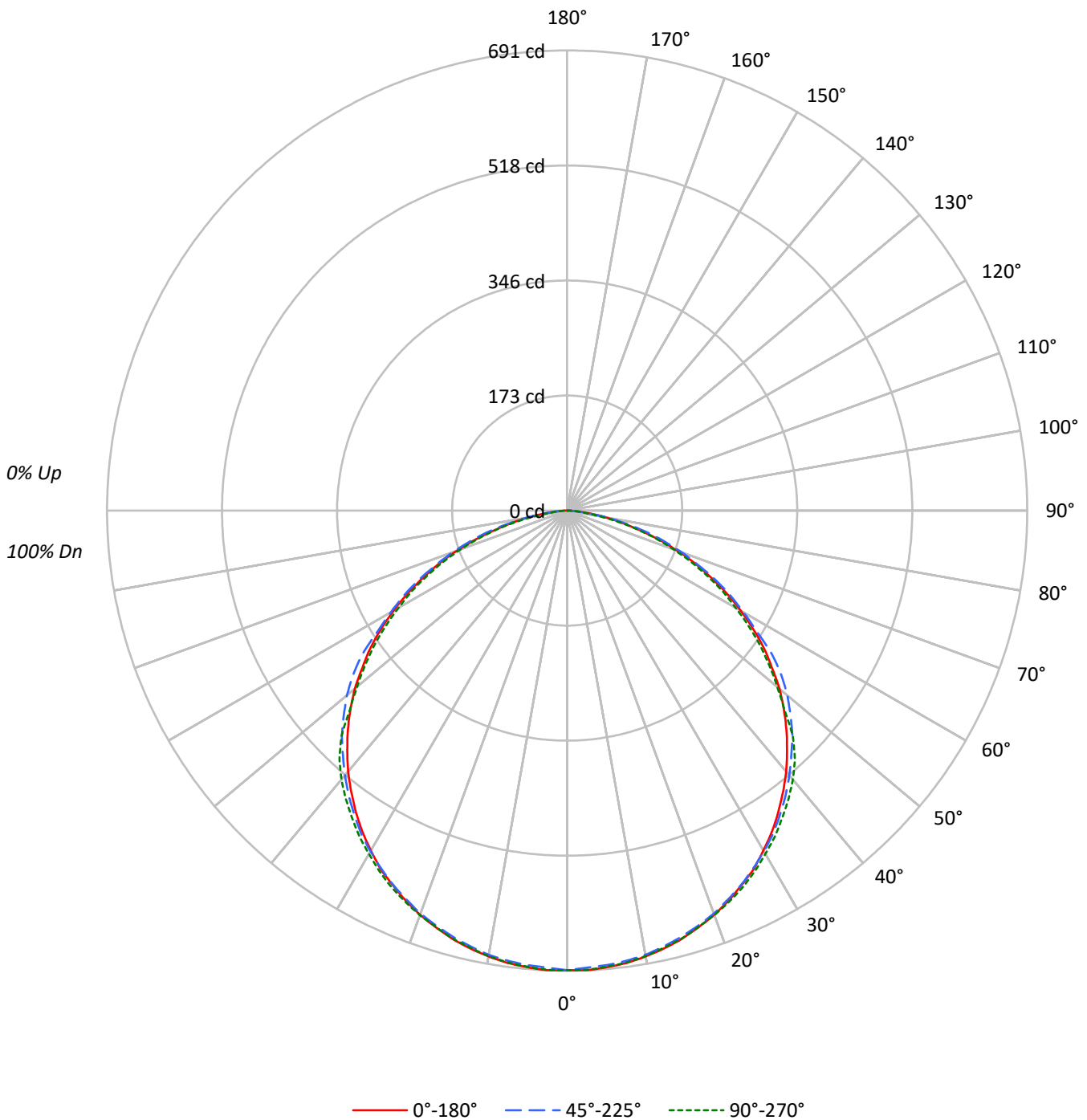
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1857	1857	1857
5°	1859	1851	1857
10°	1858	1851	1856
15°	1855	1846	1853
20°	1850	1844	1852
25°	1842	1840	1853
30°	1832	1836	1850
35°	1816	1831	1850
40°	1798	1823	1852
45°	1772	1821	1824
50°	1743	1807	1724
55°	1694	1760	1661
60°	1623	1647	1574
65°	1519	1560	1479
70°	1383	1438	1338
75°	1154	1260	1133
80°	914	964	786
85°	593	516	457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	3.3
10°-20°	187.7	9.5
20°-30°	286.5	14.6
30°-40°	349.3	17.7
40°-50°	365.7	18.6
50°-60°	325.4	16.5
60°-70°	240.0	12.2
70°-80°	124.0	6.3
80°-90°	24.1	1.2
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°	539.5	27.4
0°-40°	888.8	45.2
0°-60°	1579.8	80.3
0°-90°	1968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1968.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	688	688	685	688	688	65
15°	666	665	663	665	665	188
25°	620	620	620	624	624	286
35°	553	554	557	564	563	346
45°	466	469	478	483	479	359
55°	361	369	375	359	354	322
65°	239	255	245	237	232	237
75°	111	122	121	112	109	120
85°	19	21	17	15	15	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	690.2	690.2	690.2	690.2	690.2
2.5°	690.8	690.2	687.0	690.2	690.2
5°	688.3	687.6	685.1	687.6	687.6
7.5°	685.1	684.4	681.8	684.4	684.4
10°	679.9	679.3	677.4	679.9	679.3
12.5°	673.5	673.5	670.3	673.5	672.2
15°	665.8	665.2	662.6	665.2	665.2
17.5°	656.2	655.5	653.6	656.8	655.5
20°	645.9	645.3	644.0	647.2	646.6
22.5°	633.7	633.7	631.8	635.7	635.7
25°	620.3	620.3	619.6	624.1	624.1
27.5°	606.8	605.5	605.5	610.0	610.6
30°	589.5	589.5	590.8	595.9	595.3
32.5°	572.2	572.8	575.4	579.9	580.5
35°	552.9	553.6	557.4	563.8	563.2
37.5°	532.4	534.3	538.8	545.9	545.9
40°	511.9	513.1	518.9	526.6	527.3
42.5°	488.8	492.0	498.4	507.4	506.1
45°	465.7	468.9	478.5	483.0	479.2
47.5°	441.3	445.2	454.8	455.4	442.6
50°	416.3	420.8	431.7	418.9	411.8
52.5°	387.4	395.8	405.4	387.4	382.9
55°	361.1	368.8	375.2	359.2	354.1
57.5°	331.6	341.9	337.4	329.7	323.3
60°	301.5	312.4	306.0	298.3	292.5
62.5°	270.7	282.9	276.5	268.8	263.6
65°	238.6	255.3	245.0	236.7	232.2
67.5°	208.5	224.5	212.3	205.9	201.4
70°	175.8	189.2	182.8	174.5	170.0
72.5°	143.7	153.9	152.0	143.0	139.8
75°	111.0	122.5	121.2	111.6	109.0
77.5°	83.4	94.3	90.4	82.7	79.5
80°	59.0	66.1	62.2	53.2	50.7
82.5°	35.9	41.7	35.3	30.1	27.6
85°	19.2	21.2	16.7	15.4	14.8
87.5°	7.1	7.1	7.1	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)