

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: P#

Luminaire Tested: **14CZ-LD5-20-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-20-UNV-L830-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

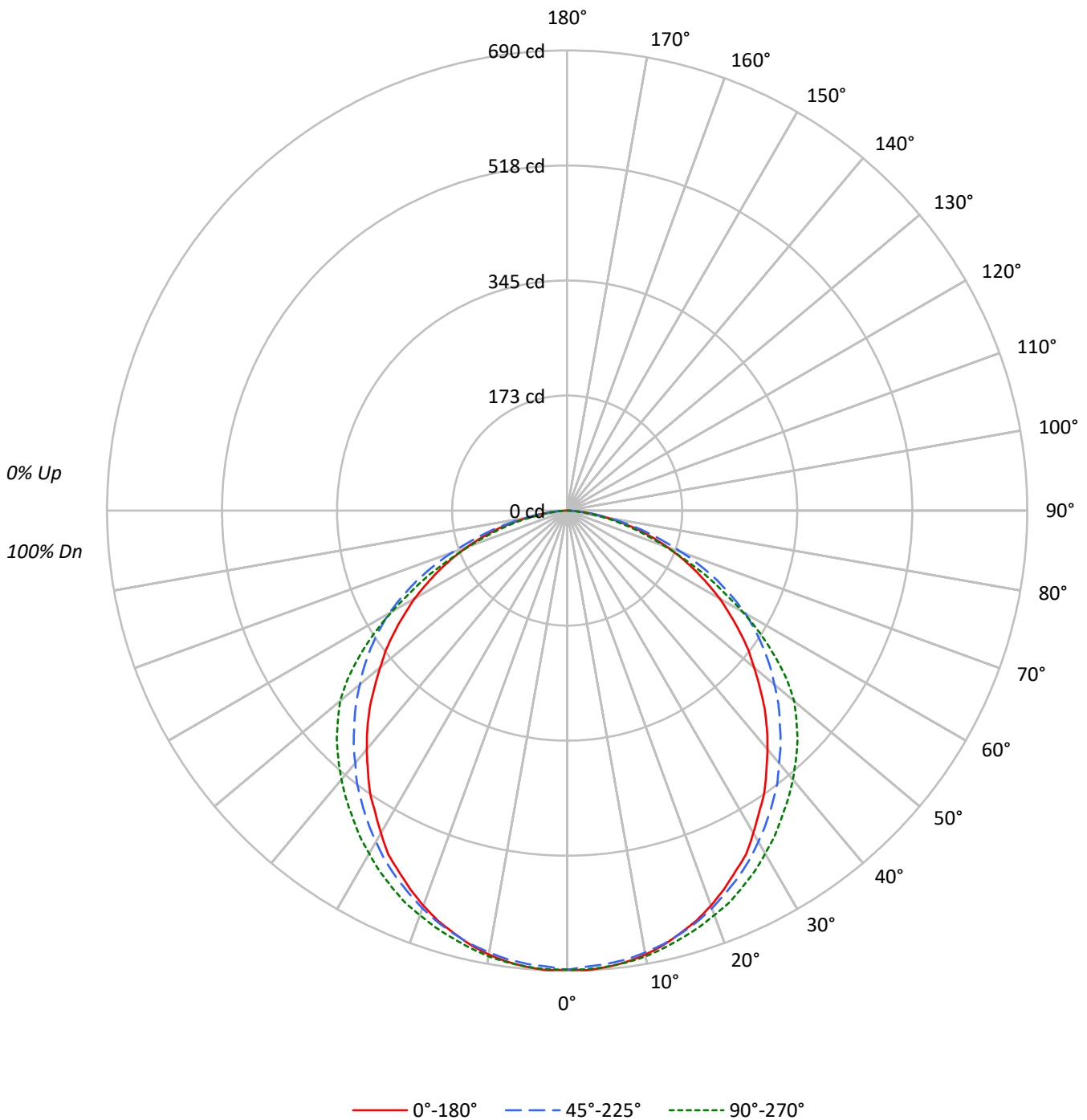
Lumens per Lamp: N/A
Luminaire Lumens: 1909.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 16.3
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	
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°	1852	1852	1852
5°	1852	1829	1839
10°	1839	1810	1823
15°	1815	1788	1801
20°	1789	1760	1784
25°	1752	1730	1766
30°	1710	1695	1745
35°	1665	1659	1723
40°	1609	1617	1706
45°	1554	1577	1690
50°	1487	1537	1662
55°	1429	1497	1559
60°	1363	1440	1393
65°	1278	1329	1197
70°	1176	1156	963
75°	1038	943	750
80°	799	655	500
85°	504	280	190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	3.4
10°-20°	186.1	9.7
20°-30°	280.7	14.7
30°-40°	336.6	17.6
40°-50°	349.3	18.3
50°-60°	315.3	16.5
60°-70°	229.6	12.0
70°-80°	120.5	6.3
80°-90°	25.8	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°	531.9	27.9
0°-40°	868.5	45.5
0°-60°	1533.2	80.3
0°-90°	1909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1909.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	687	686	682	687	687	65
15°	656	656	657	664	664	185
25°	597	600	607	620	623	275
35°	516	521	536	556	561	322
45°	419	428	451	479	488	322
55°	315	326	359	381	380	282
65°	211	224	248	237	228	209
75°	109	125	121	104	99	115
85°	21	25	18	14	13	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	688.4	688.4	688.4	688.4	688.4
2.5°	689.8	688.0	684.3	688.8	688.4
5°	687.0	685.7	682.5	687.0	686.6
7.5°	682.5	681.5	678.8	683.8	683.4
10°	676.1	674.7	672.9	678.4	678.8
12.5°	667.4	667.0	666.0	671.9	671.6
15°	656.0	656.0	656.9	664.2	663.8
17.5°	644.6	644.6	646.9	655.1	655.5
20°	630.4	631.4	634.5	644.6	645.5
22.5°	614.5	615.4	620.8	633.6	635.9
25°	597.1	600.3	606.7	620.0	622.6
27.5°	581.1	581.6	591.2	605.8	609.4
30°	558.3	564.7	573.3	590.2	593.9
32.5°	535.9	542.4	555.6	573.8	578.8
35°	515.8	520.9	536.4	556.5	561.1
37.5°	490.8	498.9	517.2	538.2	544.6
40°	467.5	474.8	494.4	518.1	526.4
42.5°	443.3	451.4	473.9	499.4	507.6
45°	418.6	427.8	451.1	479.4	488.5
47.5°	391.7	403.1	429.6	458.4	466.5
50°	365.7	377.5	405.8	436.0	444.2
52.5°	341.9	352.4	383.4	411.4	415.0
55°	315.4	326.4	359.3	380.8	379.8
57.5°	289.0	301.2	334.1	347.4	343.7
60°	264.3	275.7	308.6	311.3	303.6
62.5°	236.9	250.1	278.0	273.9	264.3
65°	211.4	224.1	248.3	236.9	228.3
67.5°	185.3	199.0	216.4	199.5	189.4
70°	159.8	176.2	182.6	164.4	156.1
72.5°	133.8	151.1	150.7	133.3	126.4
75°	109.1	124.6	120.6	104.1	99.1
77.5°	83.1	98.6	90.8	78.6	73.9
80°	58.9	73.5	63.5	53.9	50.6
82.5°	40.2	48.8	39.7	31.5	30.1
85°	21.0	25.1	18.2	14.2	13.2
87.5°	7.8	7.3	6.4	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)