

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: P258654

Luminaire Tested: **14CZ-LD5-20-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258654
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-LD5-20-UNV-L92765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1910.0 lumens
Efficiency: N/A
Efficacy: 122.2 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

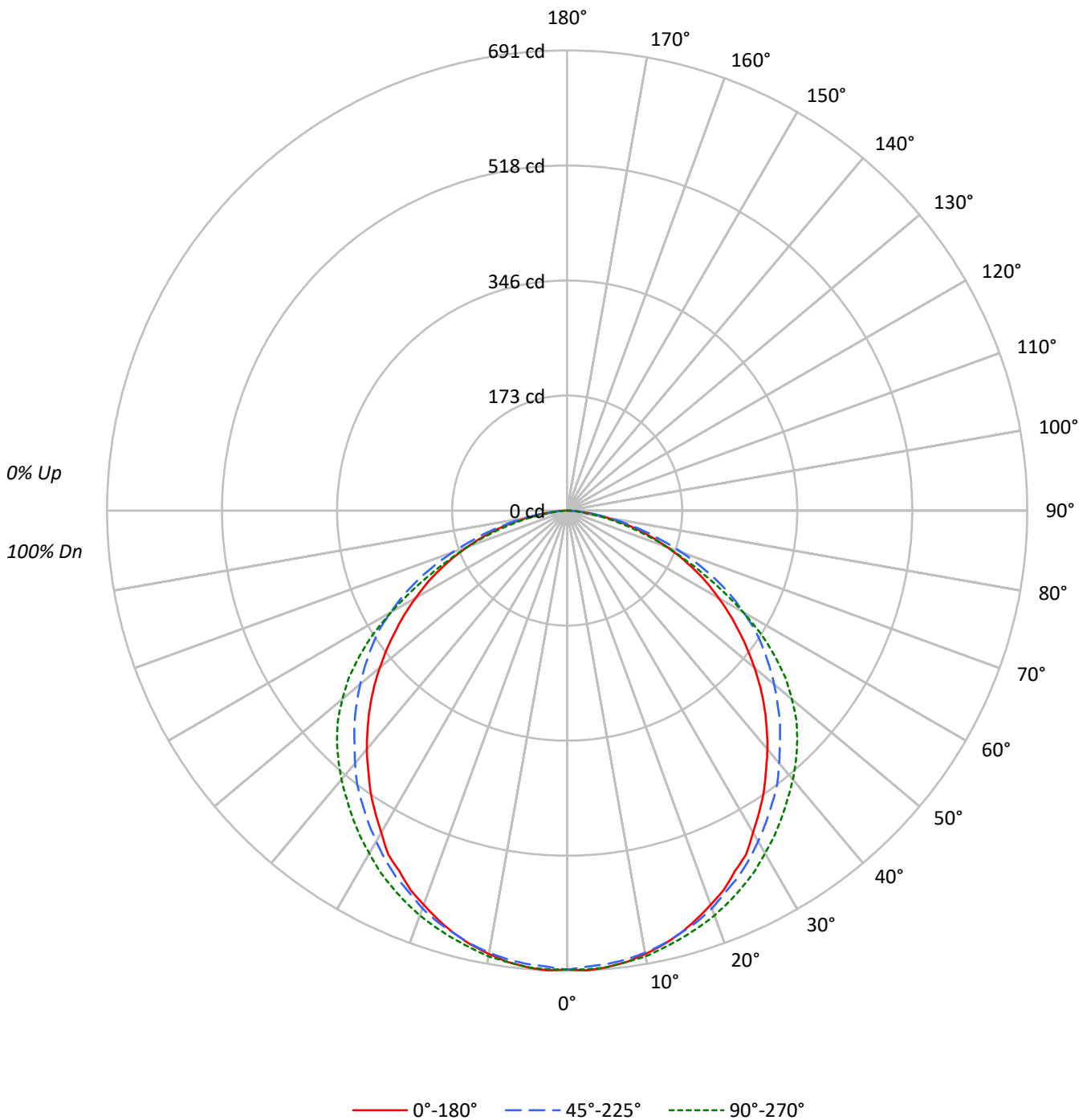
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1855	1855	1855
5°	1859	1847	1859
10°	1847	1842	1858
15°	1831	1831	1852
20°	1804	1820	1853
25°	1773	1803	1851
30°	1735	1782	1846
35°	1692	1763	1847
40°	1644	1740	1852
45°	1595	1720	1860
50°	1537	1699	1845
55°	1476	1683	1785
60°	1414	1647	1642
65°	1349	1577	1439
70°	1252	1437	1245
75°	1135	1253	1028
80°	905	992	759
85°	639	553	435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	3.4
10°-20°	186.3	9.8
20°-30°	280.9	14.7
30°-40°	336.7	17.6
40°-50°	349.4	18.3
50°-60°	315.2	16.5
60°-70°	229.9	12.0
70°-80°	120.6	6.3
80°-90°	25.7	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°	532.4	27.9
0°-40°	869.1	45.5
0°-60°	1533.8	80.3
0°-90°	1910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	689	689	689	689	689	
5°	688	686	684	688	688	65
15°	657	657	657	665	665	185
25°	597	600	607	620	623	275
35°	515	521	537	556	562	322
45°	419	428	452	479	489	323
55°	314	326	359	382	380	282
65°	212	224	248	238	226	209
75°	109	124	120	104	99	115
85°	21	25	18	15	14	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	689.3	689.3	689.3	689.3	689.3
2.5°	691.1	689.3	685.5	689.3	689.3
5°	688.3	686.4	683.6	688.3	688.3
7.5°	683.6	681.7	679.8	684.6	683.6
10°	676.1	675.1	674.2	679.8	679.8
12.5°	667.6	667.6	666.7	673.3	672.3
15°	657.2	657.2	657.2	664.8	664.8
17.5°	644.1	646.0	647.8	656.3	656.3
20°	629.9	631.8	635.6	646.0	646.9
22.5°	615.8	616.8	620.5	632.8	635.6
25°	597.0	599.8	607.3	620.5	623.4
27.5°	581.9	582.9	591.3	606.4	610.2
30°	558.4	565.0	573.4	590.4	594.2
32.5°	536.7	542.4	555.6	573.4	579.1
35°	515.1	520.7	536.7	556.5	562.1
37.5°	490.6	499.1	517.9	537.7	544.3
40°	468.0	475.5	495.3	519.8	527.3
42.5°	443.5	451.0	472.7	500.0	508.5
45°	419.0	427.5	452.0	479.3	488.7
47.5°	393.6	403.0	428.4	458.6	467.0
50°	367.2	377.6	405.8	436.9	440.7
52.5°	340.9	352.2	382.3	409.6	413.4
55°	314.5	325.8	358.8	382.3	380.4
57.5°	289.1	301.3	335.2	347.5	345.6
60°	262.7	275.9	306.0	311.7	305.1
62.5°	238.2	250.5	278.7	274.0	265.5
65°	211.9	224.1	247.6	238.2	226.0
67.5°	185.5	200.6	215.6	199.6	190.2
70°	159.1	176.1	182.7	166.7	158.2
72.5°	133.7	151.6	149.7	133.7	128.1
75°	109.2	124.3	120.5	104.5	98.9
77.5°	82.9	99.8	91.3	78.2	73.4
80°	58.4	73.4	64.0	52.7	49.0
82.5°	38.6	49.0	39.5	31.1	28.2
85°	20.7	25.4	17.9	15.1	14.1
87.5°	8.5	7.5	6.6	6.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)