

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: P258652

Luminaire Tested: **14CZ-LD5-20-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258652
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1804.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

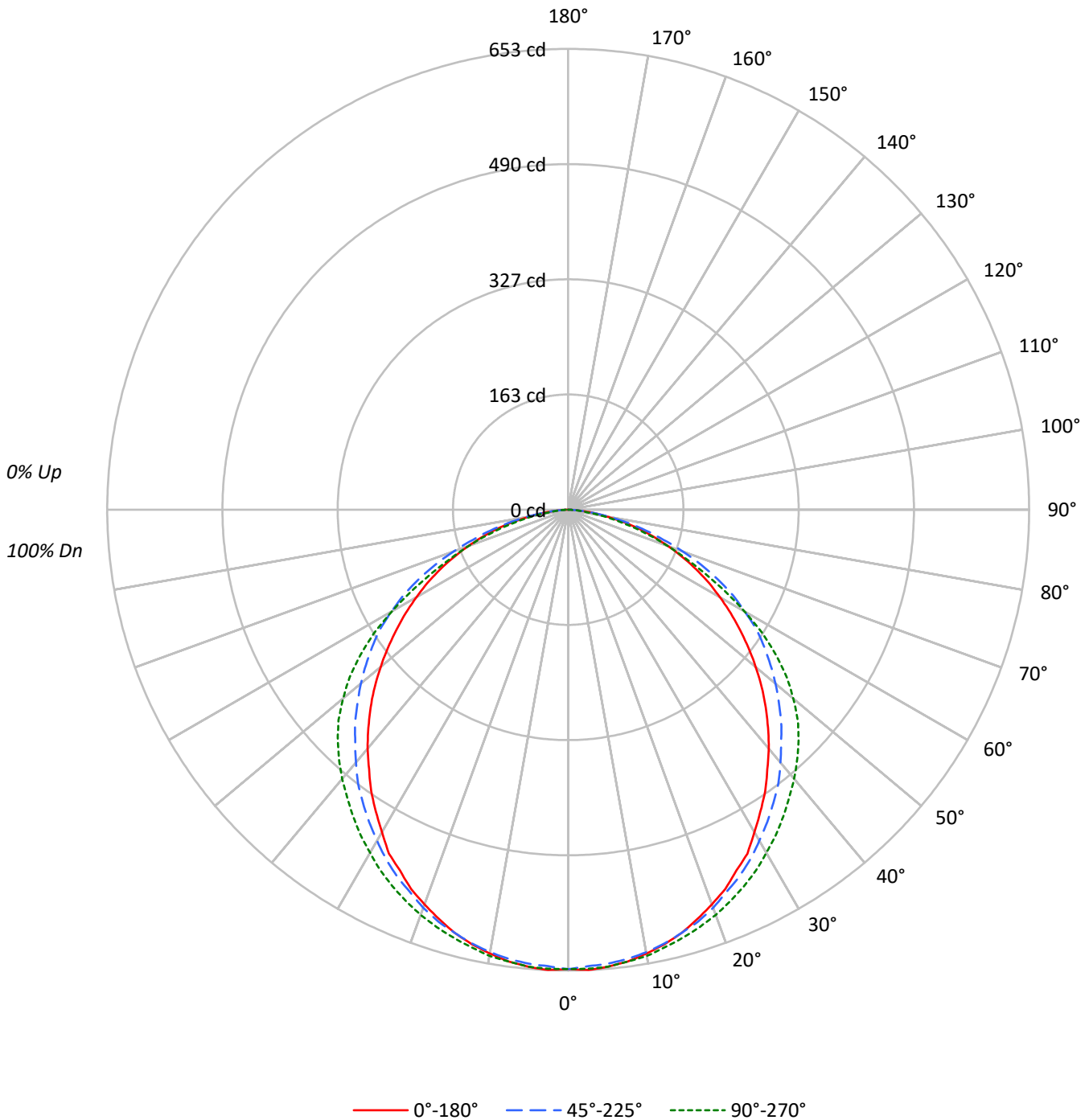
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1752	1752	1752
5°	1756	1744	1756
10°	1745	1740	1755
15°	1729	1729	1749
20°	1704	1719	1750
25°	1674	1703	1748
30°	1639	1683	1744
35°	1598	1665	1744
40°	1553	1643	1749
45°	1506	1625	1757
50°	1452	1605	1742
55°	1393	1590	1686
60°	1335	1555	1551
65°	1274	1489	1359
70°	1183	1357	1175
75°	1073	1183	971
80°	854	938	716
85°	605	522	411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	3.4
10°-20°	176.0	9.8
20°-30°	265.3	14.7
30°-40°	318.0	17.6
40°-50°	330.0	18.3
50°-60°	297.7	16.5
60°-70°	217.1	12.0
70°-80°	113.9	6.3
80°-90°	24.3	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°	502.9	27.9
0°-40°	820.9	45.5
0°-60°	1448.6	80.3
0°-90°	1804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1804.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	650	648	646	650	650	62
15°	621	621	621	628	628	175
25°	564	566	574	586	589	260
35°	486	492	507	526	531	304
45°	396	404	427	453	462	305
55°	297	308	339	361	359	266
65°	200	212	234	225	213	198
75°	103	117	114	99	93	108
85°	20	24	17	14	13	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	651.0	651.0	651.0	651.0	651.0
2.5°	652.8	651.0	647.5	651.0	651.0
5°	650.1	648.3	645.7	650.1	650.1
7.5°	645.7	643.9	642.1	646.6	645.7
10°	638.6	637.7	636.8	642.1	642.1
12.5°	630.6	630.6	629.7	635.9	635.0
15°	620.8	620.8	620.8	627.9	627.9
17.5°	608.3	610.1	611.9	619.9	619.9
20°	595.0	596.8	600.3	610.1	611.0
22.5°	581.6	582.5	586.1	597.7	600.3
25°	563.9	566.5	573.6	586.1	588.8
27.5°	549.6	550.5	558.5	572.7	576.3
30°	527.4	533.6	541.6	557.6	561.2
32.5°	506.9	512.3	524.7	541.6	547.0
35°	486.5	491.8	506.9	525.6	530.9
37.5°	463.4	471.4	489.1	507.8	514.1
40°	442.0	449.1	467.8	490.9	498.0
42.5°	418.9	426.0	446.5	472.3	480.3
45°	395.8	403.8	426.9	452.7	461.6
47.5°	371.8	380.6	404.7	433.1	441.1
50°	346.9	356.6	383.3	412.7	416.2
52.5°	321.9	332.6	361.1	386.9	390.4
55°	297.0	307.7	338.8	361.1	359.3
57.5°	273.0	284.6	316.6	328.2	326.4
60°	248.1	260.6	289.0	294.4	288.2
62.5°	225.0	236.6	263.3	258.8	250.8
65°	200.1	211.7	233.9	225.0	213.4
67.5°	175.2	189.4	203.7	188.5	179.7
70°	150.3	166.3	172.5	157.4	149.4
72.5°	126.3	143.2	141.4	126.3	121.0
75°	103.2	117.4	113.8	98.7	93.4
77.5°	78.3	94.3	86.3	73.8	69.4
80°	55.1	69.4	60.5	49.8	46.2
82.5°	36.5	46.2	37.4	29.3	26.7
85°	19.6	24.0	16.9	14.2	13.3
87.5°	8.0	7.1	6.2	6.2	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)