

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: P258819

Luminaire Tested: **14CZ-LD5-20-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-20-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1752.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

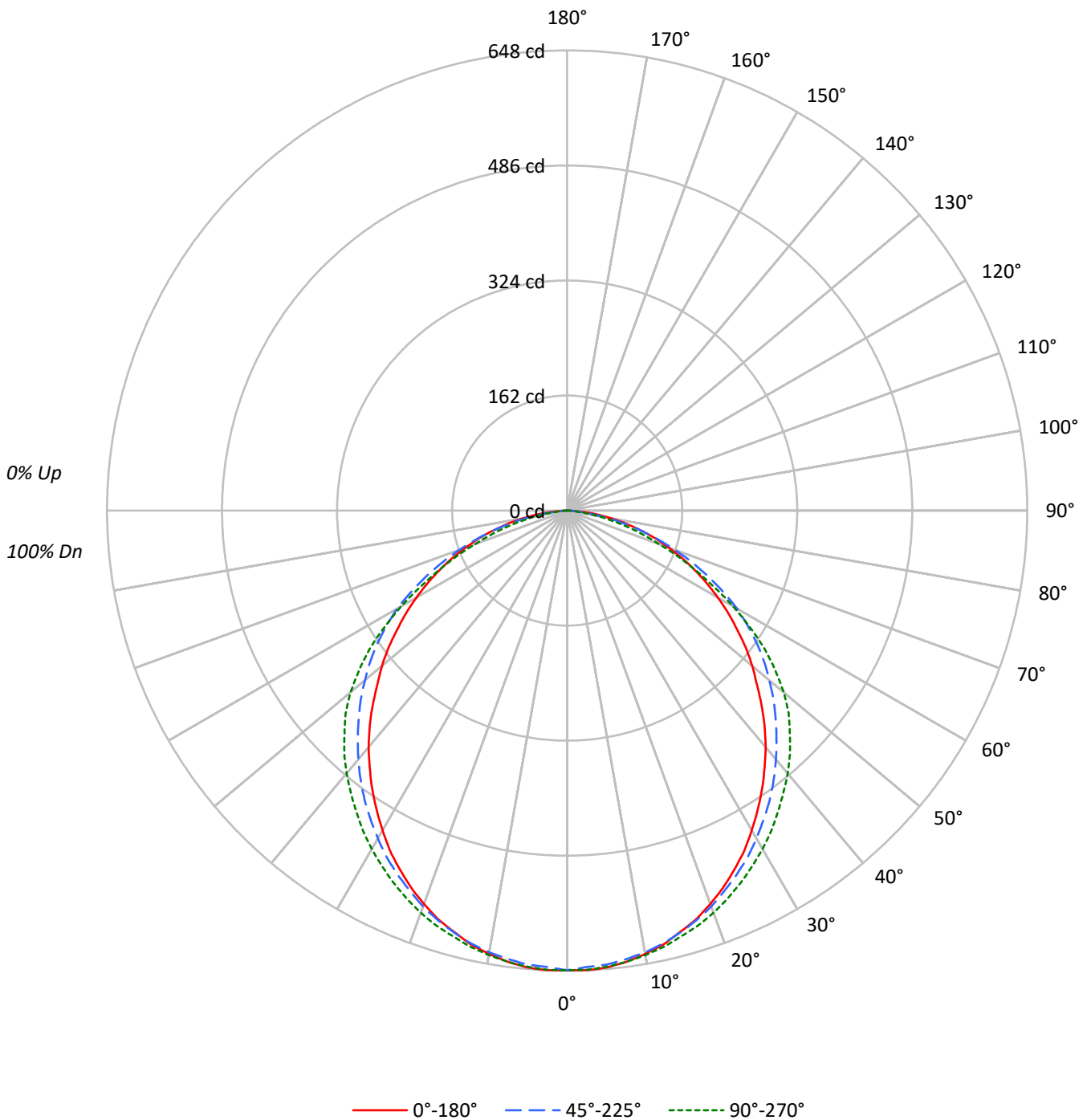
Input Watts (W): 15.159
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1742	1742	1742
5°	1744	1733	1742
10°	1732	1726	1736
15°	1712	1714	1729
20°	1688	1699	1726
25°	1655	1678	1718
30°	1615	1657	1710
35°	1572	1634	1700
40°	1527	1607	1697
45°	1474	1580	1687
50°	1425	1556	1667
55°	1370	1531	1593
60°	1319	1488	1454
65°	1263	1392	1277
70°	1192	1265	1081
75°	1112	1096	893
80°	979	846	654
85°	772	411	361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	3.5
10°-20°	174.2	9.9
20°-30°	261.5	14.9
30°-40°	311.7	17.8
40°-50°	321.1	18.3
50°-60°	286.1	16.3
60°-70°	206.2	11.8
70°-80°	107.8	6.2
80°-90°	22.3	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°	496.8	28.4
0°-40°	808.5	46.1
0°-60°	1415.7	80.8
0°-90°	1752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	647	647	647	647	647	
5°	646	644	642	646	645	61
15°	614	615	615	621	621	173
25°	557	560	565	576	578	257
35°	479	485	497	514	518	299
45°	387	396	415	439	443	299
55°	292	301	326	341	340	262
65°	198	205	219	208	201	196
75°	107	112	105	91	86	113
85°	25	22	13	12	12	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	647.2	647.2	647.2	647.2	647.2
2.5°	648.0	646.4	643.3	647.2	647.2
5°	645.6	644.1	641.7	645.6	644.8
7.5°	640.9	639.4	637.0	641.7	640.9
10°	633.9	633.1	631.6	636.3	635.5
12.5°	626.1	625.3	624.5	629.2	629.2
15°	614.4	615.2	615.2	621.4	620.6
17.5°	603.5	604.3	605.0	612.8	612.8
20°	589.4	590.2	593.3	601.9	602.7
22.5°	574.6	575.4	579.3	589.4	591.0
25°	557.4	560.5	565.2	576.1	578.5
27.5°	540.2	542.6	550.4	562.9	564.4
30°	519.9	524.6	533.2	547.3	550.4
32.5°	499.6	505.1	515.3	530.9	534.8
35°	478.6	484.8	497.3	513.7	517.6
37.5°	456.7	462.2	477.8	495.0	500.4
40°	434.8	440.3	457.5	477.0	483.2
42.5°	411.4	419.2	436.4	458.3	464.5
45°	387.2	395.8	415.3	438.7	443.4
47.5°	362.2	371.6	394.2	417.7	423.1
50°	340.4	349.0	371.6	394.2	398.2
52.5°	317.0	324.8	349.7	368.5	369.3
55°	292.0	301.3	326.3	341.2	339.6
57.5°	269.3	277.1	301.3	309.2	304.5
60°	245.1	252.2	276.4	277.1	270.1
62.5°	221.7	228.7	247.5	242.0	233.4
65°	198.3	205.3	218.6	208.4	200.6
67.5°	175.7	181.9	189.7	176.4	168.6
70°	151.5	160.0	160.8	145.2	137.4
72.5°	130.4	135.1	133.5	118.7	111.6
75°	107.0	112.4	105.4	91.3	85.9
77.5°	85.1	89.0	79.6	66.4	62.5
80°	63.2	65.6	54.6	44.5	42.2
82.5°	42.9	42.9	31.2	24.2	21.9
85°	25.0	21.9	13.3	11.7	11.7
87.5°	8.6	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)