

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: P258658

Luminaire Tested: **14CZ-LD5-20-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258658  
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-6500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2001.0 lumens  
Efficiency: N/A  
Efficacy: 124.4 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

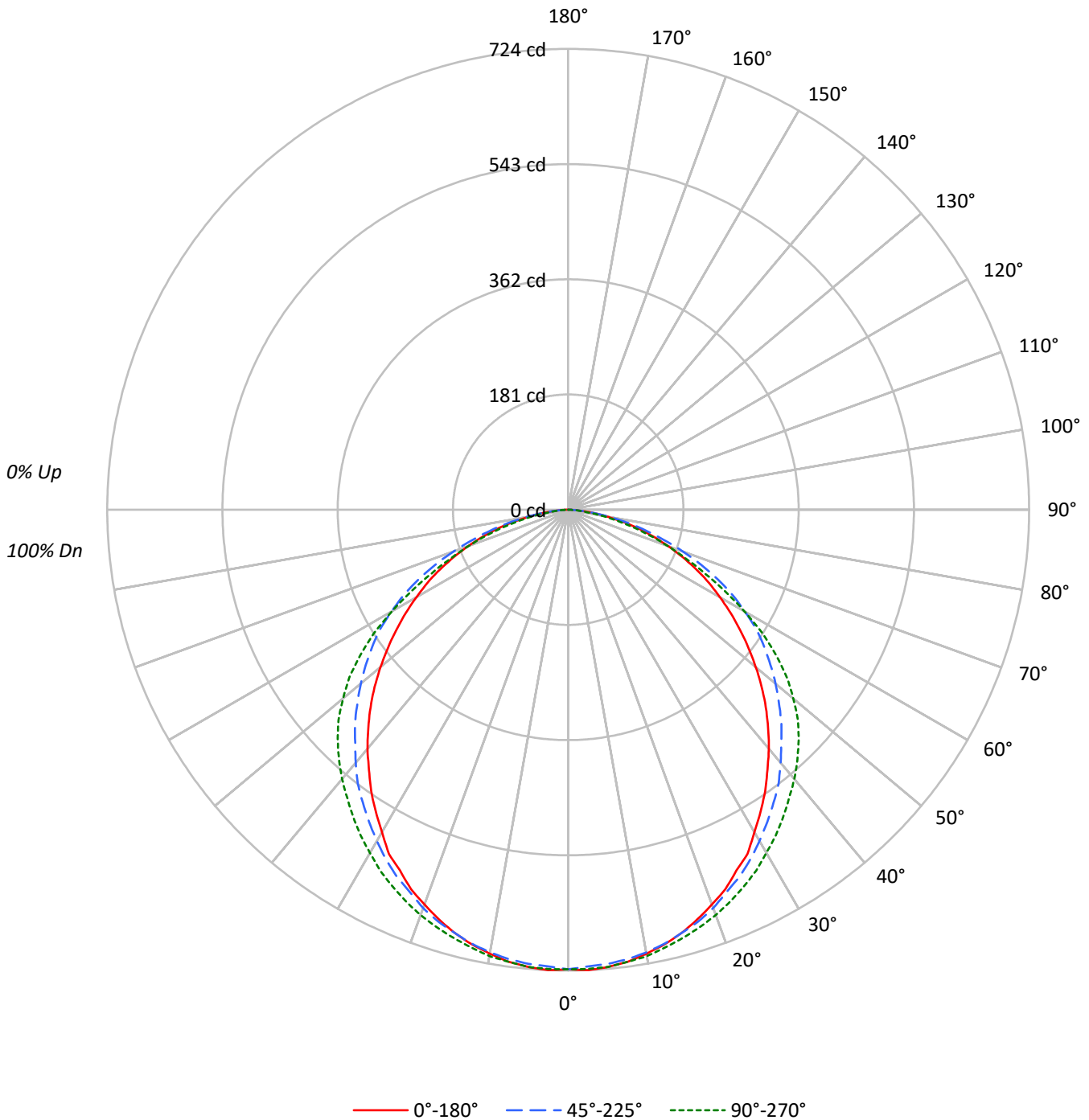
Input Watts (W): 16.089  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1943	1943	1943
5°	1948	1935	1948
10°	1935	1930	1946
15°	1918	1918	1940
20°	1890	1907	1941
25°	1857	1889	1939
30°	1818	1867	1934
35°	1773	1847	1935
40°	1722	1823	1940
45°	1671	1802	1948
50°	1611	1780	1933
55°	1546	1763	1870
60°	1481	1725	1720
65°	1414	1652	1508
70°	1312	1506	1304
75°	1189	1313	1077
80°	948	1040	795
85°	670	577	457



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.3	3.4
10°-20°	195.2	9.8
20°-30°	294.3	14.7
30°-40°	352.8	17.6
40°-50°	366.1	18.3
50°-60°	330.2	16.5
60°-70°	240.9	12.0
70°-80°	126.4	6.3
80°-90°	26.9	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°	557.8	27.9
0°-40°	910.6	45.5
0°-60°	1606.8	80.3
0°-90°	2001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2001.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	721	719	716	721	721	68
15°	689	689	689	696	696	194
25°	625	628	636	650	653	289
35°	540	546	562	583	589	337
45°	439	448	474	502	512	338
55°	330	341	376	400	398	295
65°	222	235	259	250	237	219
75°	114	130	126	110	104	120
85°	22	27	19	16	15	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	722.1	722.1	722.1	722.1	722.1
2.5°	724.1	722.1	718.2	722.1	722.1
5°	721.1	719.1	716.2	721.1	721.1
7.5°	716.2	714.2	712.2	717.2	716.2
10°	708.3	707.3	706.3	712.2	712.2
12.5°	699.4	699.4	698.4	705.3	704.3
15°	688.6	688.6	688.6	696.5	696.5
17.5°	674.8	676.7	678.7	687.6	687.6
20°	660.0	661.9	665.9	676.7	677.7
22.5°	645.2	646.1	650.1	662.9	665.9
25°	625.4	628.4	636.3	650.1	653.1
27.5°	609.6	610.6	619.5	635.3	639.2
30°	585.0	591.9	600.8	618.5	622.5
32.5°	562.3	568.2	582.0	600.8	606.7
35°	539.6	545.5	562.3	583.0	588.9
37.5°	514.0	522.8	542.6	563.3	570.2
40°	490.3	498.2	518.9	544.5	552.4
42.5°	464.6	472.5	495.2	523.8	532.7
45°	439.0	447.9	473.5	502.1	512.0
47.5°	412.3	422.2	448.8	480.4	489.3
50°	384.7	395.6	425.2	457.7	461.7
52.5°	357.1	368.9	400.5	429.1	433.1
55°	329.5	341.3	375.8	400.5	398.5
57.5°	302.8	315.7	351.2	364.0	362.0
60°	275.2	289.0	320.6	326.5	319.6
62.5°	249.6	262.4	292.0	287.1	278.2
65°	222.0	234.8	259.4	249.6	236.8
67.5°	194.3	210.1	225.9	209.1	199.3
70°	166.7	184.5	191.4	174.6	165.7
72.5°	140.1	158.8	156.9	140.1	134.2
75°	114.4	130.2	126.3	109.5	103.6
77.5°	86.8	104.6	95.7	81.9	76.9
80°	61.2	76.9	67.1	55.2	51.3
82.5°	40.4	51.3	41.4	32.6	29.6
85°	21.7	26.6	18.7	15.8	14.8
87.5°	8.9	7.9	6.9	6.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)