

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: P258597

Luminaire Tested: **14CZ-LD5-20-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258597  
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-L82765-W2A1-U-3000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1990.0 lumens  
Efficiency: N/A  
Efficacy: 130.5 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

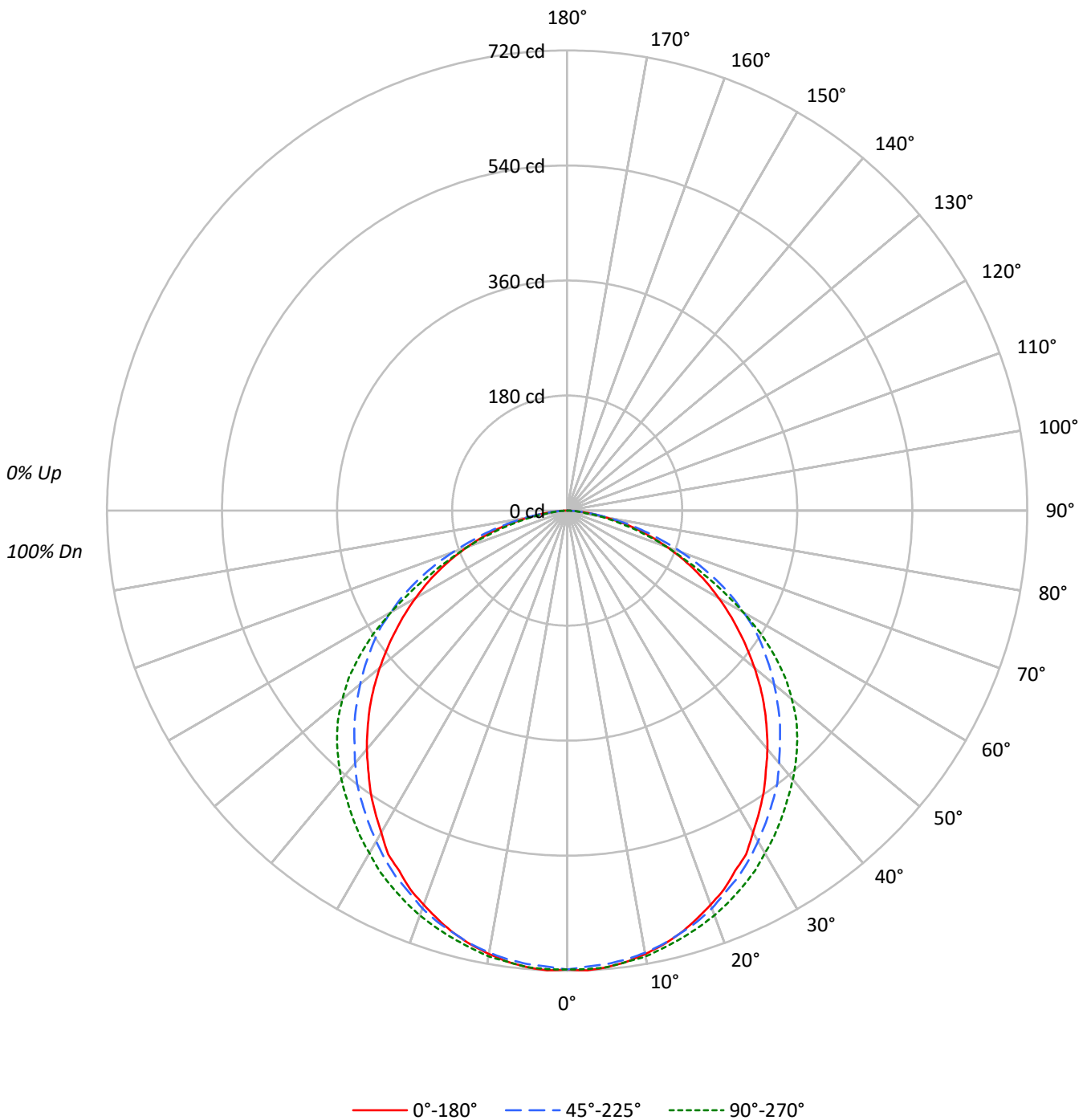
Input Watts (W): 15.252  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1932	1932	1932
5°	1937	1924	1937
10°	1925	1919	1935
15°	1908	1908	1930
20°	1879	1896	1930
25°	1847	1879	1928
30°	1808	1857	1923
35°	1763	1837	1924
40°	1713	1813	1930
45°	1662	1792	1938
50°	1602	1770	1922
55°	1537	1754	1859
60°	1473	1716	1711
65°	1405	1643	1500
70°	1304	1497	1297
75°	1183	1306	1071
80°	942	1034	790
85°	667	574	454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.9	3.4
10°-20°	194.1	9.8
20°-30°	292.7	14.7
30°-40°	350.8	17.6
40°-50°	364.1	18.3
50°-60°	328.4	16.5
60°-70°	239.5	12.0
70°-80°	125.7	6.3
80°-90°	26.8	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°	554.7	27.9
0°-40°	905.5	45.5
0°-60°	1598.0	80.3
0°-90°	1990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1990.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	718	718	718	718	718	
5°	717	715	712	717	717	68
15°	685	685	685	693	693	193
25°	622	625	633	646	650	287
35°	537	542	559	580	586	335
45°	437	445	471	499	509	337
55°	328	339	374	398	396	293
65°	221	234	258	248	236	218
75°	114	130	126	109	103	119
85°	22	26	19	16	15	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	718.1	718.1	718.1	718.1	718.1
2.5°	720.1	718.1	714.2	718.1	718.1
5°	717.2	715.2	712.2	717.2	717.2
7.5°	712.2	710.3	708.3	713.2	712.2
10°	704.4	703.4	702.4	708.3	708.3
12.5°	695.6	695.6	694.6	701.5	700.5
15°	684.8	684.8	684.8	692.6	692.6
17.5°	671.0	673.0	675.0	683.8	683.8
20°	656.3	658.3	662.2	673.0	674.0
22.5°	641.6	642.6	646.5	659.3	662.2
25°	622.0	624.9	632.8	646.5	649.5
27.5°	606.3	607.3	616.1	631.8	635.7
30°	581.8	588.6	597.5	615.1	619.0
32.5°	559.2	565.1	578.8	597.5	603.4
35°	536.6	542.5	559.2	579.8	585.7
37.5°	511.1	520.0	539.6	560.2	567.1
40°	487.6	495.4	516.0	541.5	549.4
42.5°	462.1	469.9	492.5	520.9	529.8
45°	436.6	445.4	470.9	499.4	509.2
47.5°	410.1	419.9	446.4	477.8	486.6
50°	382.6	393.4	422.8	455.2	459.1
52.5°	355.1	366.9	398.3	426.8	430.7
55°	327.7	339.4	373.8	398.3	396.3
57.5°	301.2	313.9	349.3	362.0	360.0
60°	273.7	287.5	318.8	324.7	317.9
62.5°	248.2	261.0	290.4	285.5	276.7
65°	220.7	233.5	258.0	248.2	235.5
67.5°	193.3	209.0	224.7	208.0	198.2
70°	165.8	183.5	190.3	173.6	164.8
72.5°	139.3	158.0	156.0	139.3	133.4
75°	113.8	129.5	125.6	108.9	103.0
77.5°	86.3	104.0	95.2	81.4	76.5
80°	60.8	76.5	66.7	54.9	51.0
82.5°	40.2	51.0	41.2	32.4	29.4
85°	21.6	26.5	18.6	15.7	14.7
87.5°	8.8	7.8	6.9	6.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)