

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: P259010

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259010  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-29-RDP-UNV-L92765-W2A1-U-5500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1851.0 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

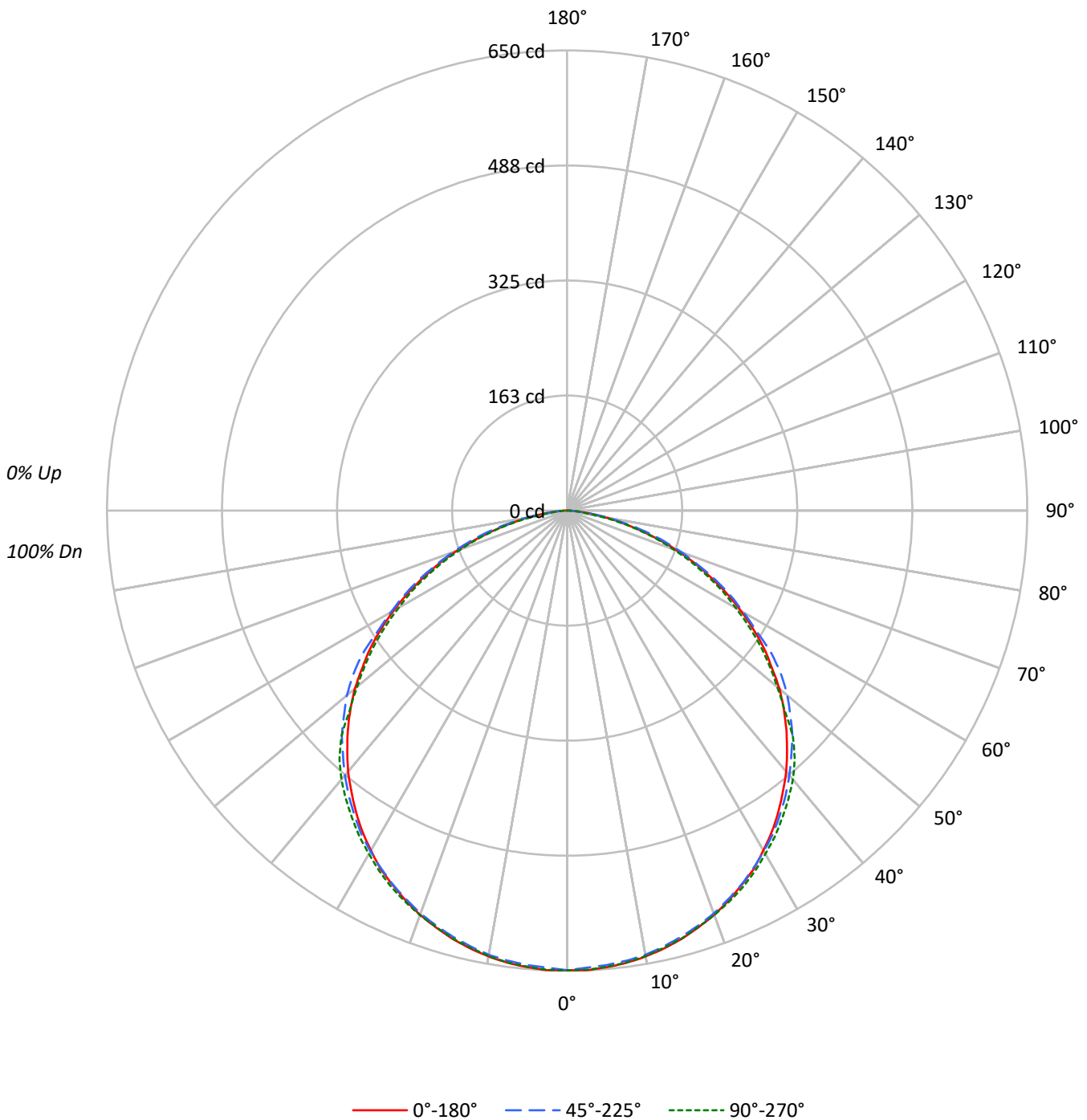
Input Watts (W): 22.785  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1747	1747	1747
5°	1749	1740	1747
10°	1747	1741	1746
15°	1745	1736	1743
20°	1740	1735	1741
25°	1732	1730	1743
30°	1723	1726	1740
35°	1708	1722	1740
40°	1691	1715	1742
45°	1667	1713	1715
50°	1639	1700	1621
55°	1594	1656	1562
60°	1526	1549	1481
65°	1429	1468	1391
70°	1301	1352	1258
75°	1085	1185	1067
80°	860	907	739
85°	559	485	429



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.5	3.3
10°-20°	176.5	9.5
20°-30°	269.4	14.6
30°-40°	328.5	17.7
40°-50°	344.0	18.6
50°-60°	306.0	16.5
60°-70°	225.8	12.2
70°-80°	116.7	6.3
80°-90°	22.7	1.2
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°	507.4	27.4
0°-40°	835.9	45.2
0°-60°	1485.9	80.3
0°-90°	1851.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1851.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	649	649	649	649	649	
5°	647	647	644	647	647	62
15°	626	626	623	626	626	177
25°	583	583	583	587	587	269
35°	520	521	524	530	530	325
45°	438	441	450	454	451	338
55°	340	347	353	338	333	303
65°	224	240	230	223	218	222
75°	104	115	114	105	103	113
85°	18	20	16	14	14	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	649.2	649.2	649.2	649.2	649.2
2.5°	649.8	649.2	646.1	649.2	649.2
5°	647.3	646.7	644.3	646.7	646.7
7.5°	644.3	643.7	641.3	643.7	643.7
10°	639.5	638.9	637.1	639.5	638.9
12.5°	633.5	633.5	630.5	633.5	632.3
15°	626.2	625.6	623.2	625.6	625.6
17.5°	617.2	616.6	614.8	617.8	616.6
20°	607.5	606.9	605.7	608.7	608.1
22.5°	596.1	596.1	594.3	597.9	597.9
25°	583.4	583.4	582.8	587.0	587.0
27.5°	570.7	569.5	569.5	573.7	574.3
30°	554.4	554.4	555.6	560.5	559.9
32.5°	538.1	538.7	541.2	545.4	546.0
35°	520.0	520.6	524.3	530.3	529.7
37.5°	500.7	502.6	506.8	513.4	513.4
40°	481.4	482.6	488.1	495.3	495.9
42.5°	459.7	462.7	468.8	477.2	476.0
45°	438.0	441.0	450.1	454.3	450.7
47.5°	415.1	418.7	427.7	428.3	416.3
50°	391.5	395.8	406.0	394.0	387.3
52.5°	364.4	372.2	381.3	364.4	360.2
55°	339.7	346.9	352.9	337.8	333.0
57.5°	311.9	321.6	317.3	310.1	304.1
60°	283.6	293.8	287.8	280.5	275.1
62.5°	254.6	266.1	260.0	252.8	248.0
65°	224.4	240.1	230.5	222.6	218.4
67.5°	196.1	211.2	199.7	193.7	189.4
70°	165.3	178.0	171.9	164.1	159.9
72.5°	135.1	144.8	143.0	134.5	131.5
75°	104.4	115.2	114.0	105.0	102.6
77.5°	78.4	88.7	85.1	77.8	74.8
80°	55.5	62.1	58.5	50.1	47.7
82.5°	33.8	39.2	33.2	28.4	25.9
85°	18.1	19.9	15.7	14.5	13.9
87.5°	6.6	6.6	6.6	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)