

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: P259008

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259008  
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-4500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1786.0 lumens  
Efficiency: N/A  
Efficacy: 79.4 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

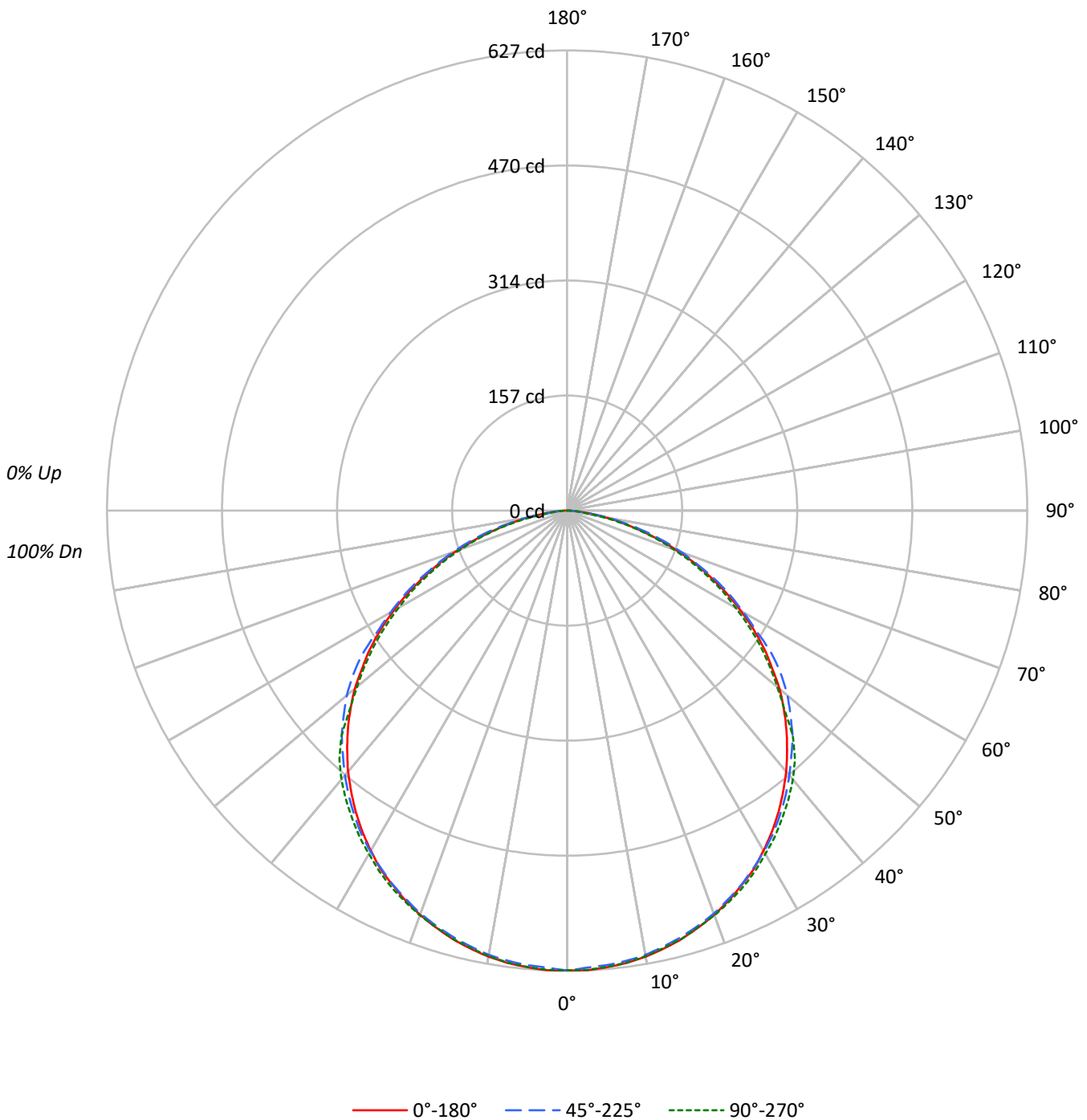
Input Watts (W): 22.506  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1686	1686	1686
5°	1687	1679	1686
10°	1686	1680	1685
15°	1683	1675	1682
20°	1679	1674	1680
25°	1671	1670	1682
30°	1662	1666	1679
35°	1648	1662	1679
40°	1632	1654	1681
45°	1608	1653	1655
50°	1582	1640	1564
55°	1537	1597	1507
60°	1473	1495	1428
65°	1379	1416	1342
70°	1255	1305	1214
75°	1047	1144	1029
80°	831	876	713
85°	540	466	414



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.3	3.3
10°-20°	170.3	9.5
20°-30°	260.0	14.6
30°-40°	317.0	17.7
40°-50°	331.9	18.6
50°-60°	295.3	16.5
60°-70°	217.8	12.2
70°-80°	112.6	6.3
80°-90°	21.9	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°	489.6	27.4
0°-40°	806.6	45.2
0°-60°	1433.7	80.3
0°-90°	1786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1786.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	625	624	622	624	624	59
15°	604	604	601	604	604	171
25°	563	563	562	566	566	260
35°	502	502	506	512	511	314
45°	423	426	434	438	435	326
55°	328	335	340	326	321	292
65°	216	232	222	215	211	215
75°	101	111	110	101	99	109
85°	18	19	15	14	13	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	626.4	626.4	626.4	626.4	626.4
2.5°	626.9	626.4	623.4	626.4	626.4
5°	624.6	624.0	621.7	624.0	624.0
7.5°	621.7	621.1	618.8	621.1	621.1
10°	617.0	616.5	614.7	617.0	616.5
12.5°	611.2	611.2	608.3	611.2	610.1
15°	604.2	603.7	601.3	603.7	603.7
17.5°	595.5	594.9	593.2	596.1	594.9
20°	586.2	585.6	584.4	587.4	586.8
22.5°	575.1	575.1	573.4	576.9	576.9
25°	562.9	562.9	562.3	566.4	566.4
27.5°	550.7	549.5	549.5	553.6	554.2
30°	535.0	535.0	536.1	540.8	540.2
32.5°	519.2	519.8	522.2	526.2	526.8
35°	501.8	502.4	505.9	511.7	511.1
37.5°	483.2	484.9	489.0	495.4	495.4
40°	464.5	465.7	470.9	477.9	478.5
42.5°	443.6	446.5	452.3	460.5	459.3
45°	422.6	425.5	434.3	438.3	434.8
47.5°	400.5	404.0	412.7	413.3	401.7
50°	377.8	381.9	391.8	380.1	373.7
52.5°	351.6	359.2	367.9	351.6	347.5
55°	327.7	334.7	340.5	326.0	321.3
57.5°	301.0	310.3	306.2	299.2	293.4
60°	273.6	283.5	277.7	270.7	265.4
62.5°	245.7	256.7	250.9	243.9	239.2
65°	216.5	231.7	222.4	214.8	210.7
67.5°	189.2	203.7	192.7	186.9	182.8
70°	159.5	171.7	165.9	158.3	154.3
72.5°	130.4	139.7	138.0	129.8	126.9
75°	100.7	111.2	110.0	101.3	99.0
77.5°	75.7	85.6	82.1	75.1	72.2
80°	53.6	60.0	56.5	48.3	46.0
82.5°	32.6	37.8	32.0	27.4	25.0
85°	17.5	19.2	15.1	14.0	13.4
87.5°	6.4	6.4	6.4	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)