

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: P259016

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259016  
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-LD5-35-RDP-UNV-L92765-W2A1-U-4000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2094.0 lumens  
Efficiency: N/A  
Efficacy: 75.6 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

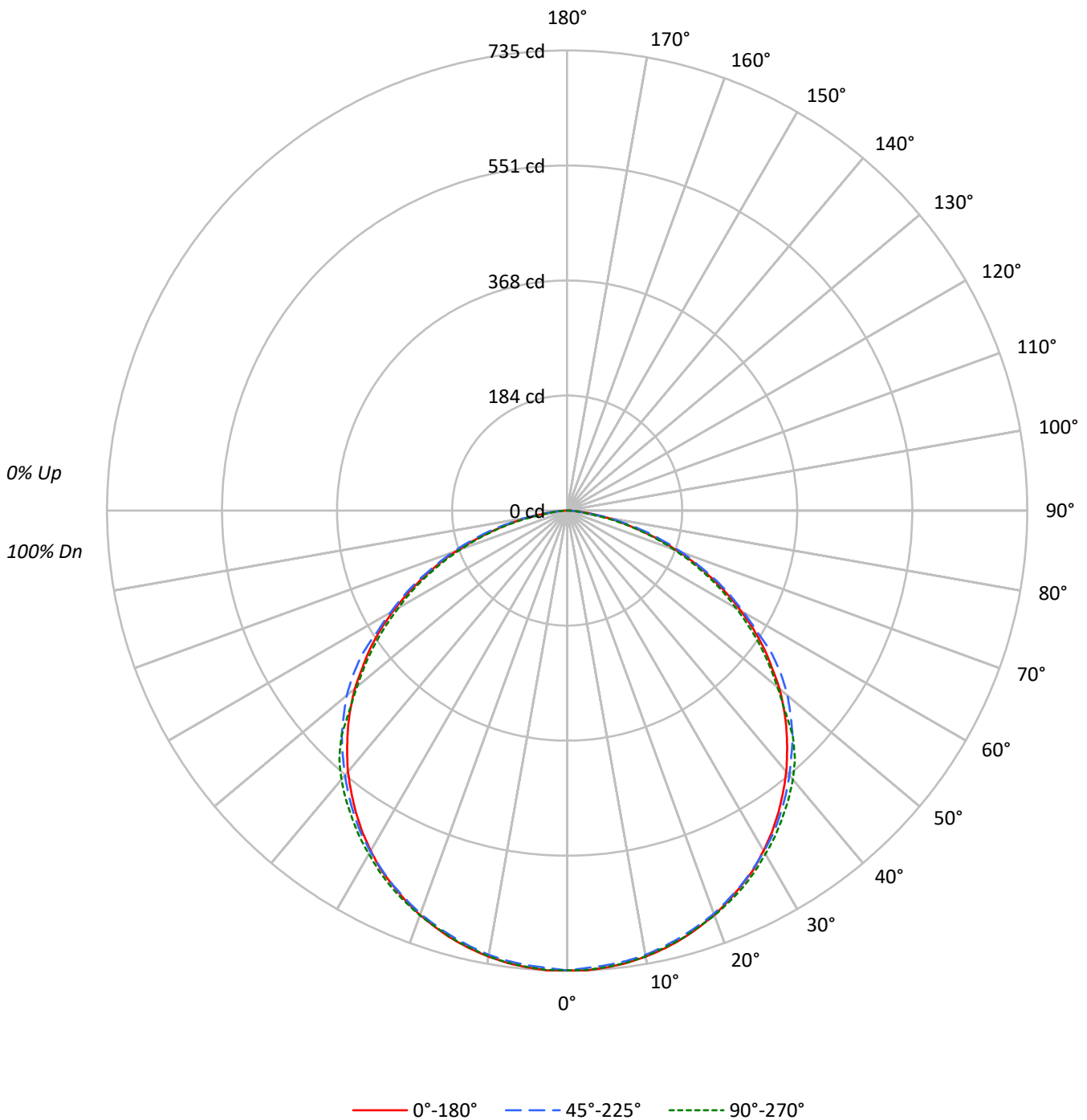
Input Watts (W): 27.714  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1976	1976	1976
5°	1978	1969	1976
10°	1977	1969	1975
15°	1974	1964	1972
20°	1968	1962	1970
25°	1960	1958	1972
30°	1949	1953	1968
35°	1933	1948	1968
40°	1913	1939	1971
45°	1886	1937	1940
50°	1854	1923	1834
55°	1803	1873	1767
60°	1727	1752	1675
65°	1617	1660	1573
70°	1471	1530	1423
75°	1228	1341	1206
80°	973	1026	835
85°	633	546	485



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.5	3.3
10°-20°	199.7	9.5
20°-30°	304.8	14.6
30°-40°	371.6	17.7
40°-50°	389.1	18.6
50°-60°	346.2	16.5
60°-70°	255.4	12.2
70°-80°	132.0	6.3
80°-90°	25.6	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°	574.0	27.4
0°-40°	945.7	45.2
0°-60°	1681.0	80.3
0°-90°	2094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2094.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	732	732	729	732	732	70
15°	708	708	705	708	708	200
25°	660	660	659	664	664	304
35°	588	589	593	600	599	368
45°	496	499	509	514	510	382
55°	384	392	399	382	377	342
65°	254	272	261	252	247	252
75°	118	130	129	119	116	128
85°	20	22	18	16	16	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	734.4	734.4	734.4	734.4	734.4
2.5°	735.1	734.4	731.0	734.4	734.4
5°	732.3	731.6	728.9	731.6	731.6
7.5°	728.9	728.2	725.5	728.2	728.2
10°	723.5	722.8	720.7	723.5	722.8
12.5°	716.6	716.6	713.2	716.6	715.3
15°	708.4	707.8	705.0	707.8	707.8
17.5°	698.2	697.5	695.5	698.9	697.5
20°	687.3	686.6	685.2	688.6	688.0
22.5°	674.3	674.3	672.3	676.4	676.4
25°	660.0	660.0	659.3	664.1	664.1
27.5°	645.6	644.3	644.3	649.1	649.7
30°	627.2	627.2	628.6	634.0	633.4
32.5°	608.8	609.5	612.2	617.0	617.7
35°	588.3	589.0	593.1	599.9	599.2
37.5°	566.5	568.5	573.3	580.8	580.8
40°	544.6	546.0	552.1	560.3	561.0
42.5°	520.1	523.5	530.3	539.9	538.5
45°	495.5	498.9	509.1	513.9	509.8
47.5°	469.6	473.7	483.9	484.6	470.9
50°	442.9	447.7	459.3	445.7	438.2
52.5°	412.2	421.1	431.3	412.2	407.5
55°	384.2	392.4	399.3	382.2	376.7
57.5°	352.9	363.8	359.0	350.8	344.0
60°	320.8	332.4	325.6	317.4	311.2
62.5°	288.0	301.0	294.2	286.0	280.5
65°	253.9	271.6	260.7	251.8	247.1
67.5°	221.8	238.9	225.9	219.1	214.3
70°	187.0	201.3	194.5	185.6	180.9
72.5°	152.9	163.8	161.8	152.2	148.8
75°	118.1	130.4	129.0	118.8	116.0
77.5°	88.7	100.3	96.2	88.0	84.6
80°	62.8	70.3	66.2	56.6	53.9
82.5°	38.2	44.4	37.5	32.1	29.3
85°	20.5	22.5	17.7	16.4	15.7
87.5°	7.5	7.5	7.5	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)