

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: P258965

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258965  
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-L82765-W2A1-U-5500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2465.0 lumens  
Efficiency: N/A  
Efficacy: 87.5 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

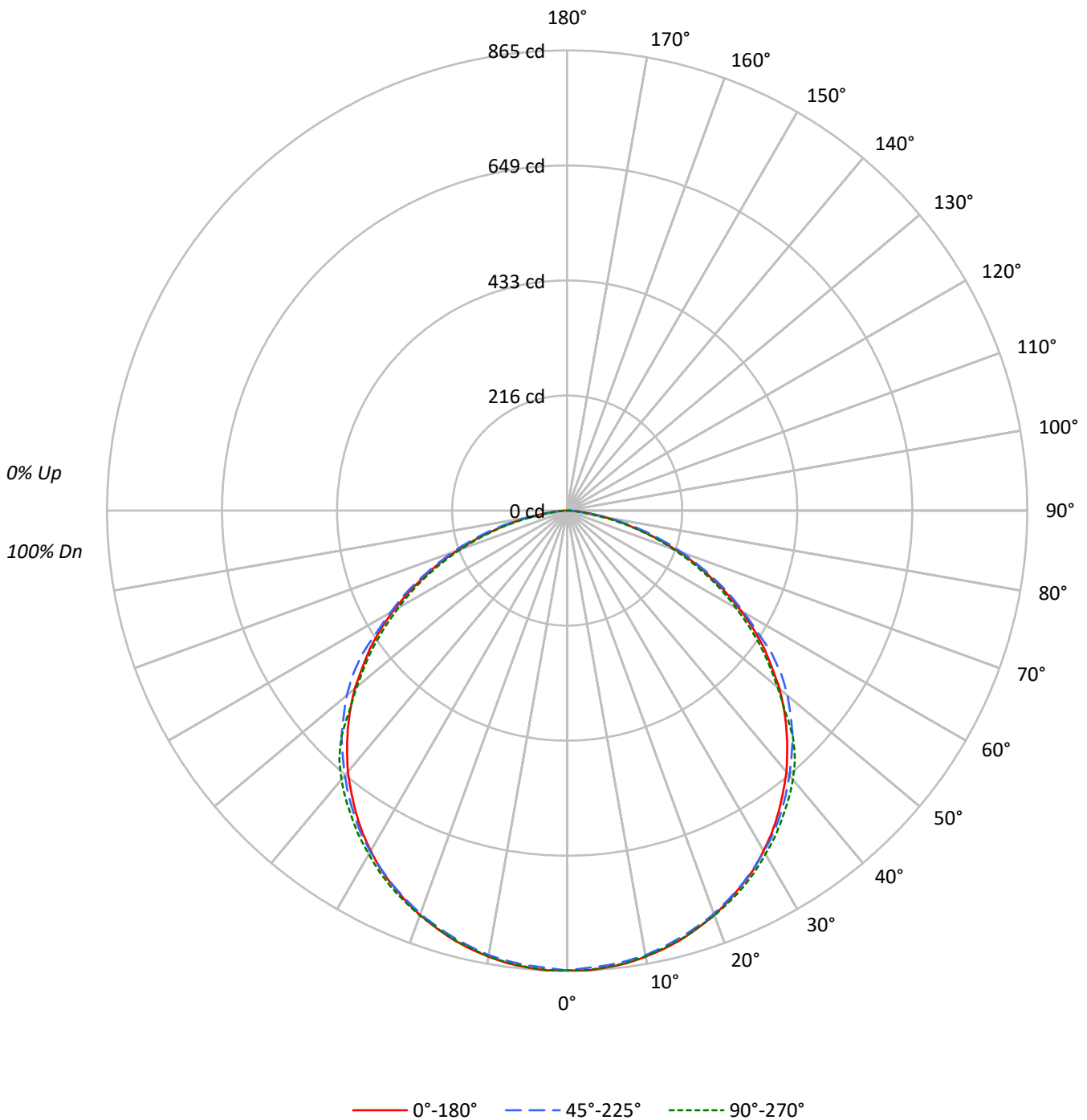
Input Watts (W): 28.179  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2326	2326	2326
5°	2329	2318	2327
10°	2327	2318	2325
15°	2323	2312	2321
20°	2317	2310	2319
25°	2307	2304	2321
30°	2294	2299	2317
35°	2275	2294	2317
40°	2252	2283	2320
45°	2220	2281	2284
50°	2183	2264	2159
55°	2122	2205	2081
60°	2032	2062	1972
65°	1903	1954	1852
70°	1732	1802	1675
75°	1445	1578	1420
80°	1145	1207	984
85°	744	645	571



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.8	3.3
10°-20°	235.1	9.5
20°-30°	358.8	14.6
30°-40°	437.5	17.7
40°-50°	458.1	18.6
50°-60°	407.5	16.5
60°-70°	300.7	12.2
70°-80°	155.4	6.3
80°-90°	30.2	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°	675.7	27.4
0°-40°	1113.2	45.2
0°-60°	1978.8	80.3
0°-90°	2465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2465.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	862	861	858	861	861	82
15°	834	833	830	833	833	235
25°	777	777	776	782	782	358
35°	693	693	698	706	705	433
45°	583	587	599	605	600	450
55°	452	462	470	450	444	403
65°	299	320	307	296	291	296
75°	139	154	152	140	137	150
85°	24	26	21	19	18	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	864.5	864.5	864.5	864.5	864.5
2.5°	865.3	864.5	860.5	864.5	864.5
5°	862.1	861.3	858.1	861.3	861.3
7.5°	858.1	857.3	854.0	857.3	857.3
10°	851.6	850.8	848.4	851.6	850.8
12.5°	843.6	843.6	839.6	843.6	842.0
15°	834.0	833.2	829.9	833.2	833.2
17.5°	821.9	821.1	818.7	822.7	821.1
20°	809.0	808.2	806.6	810.7	809.9
22.5°	793.8	793.8	791.4	796.2	796.2
25°	776.9	776.9	776.1	781.7	781.7
27.5°	760.0	758.4	758.4	764.1	764.9
30°	738.3	738.3	740.0	746.4	745.6
32.5°	716.7	717.5	720.7	726.3	727.1
35°	692.6	693.4	698.2	706.2	705.4
37.5°	666.8	669.3	674.9	683.7	683.7
40°	641.1	642.7	650.0	659.6	660.4
42.5°	612.2	616.2	624.3	635.5	633.9
45°	583.3	587.3	599.4	605.0	600.2
47.5°	552.8	557.6	569.6	570.4	554.4
50°	521.4	527.0	540.7	524.6	515.8
52.5°	485.3	495.7	507.8	485.3	479.6
55°	452.3	462.0	470.0	449.9	443.5
57.5°	415.4	428.2	422.6	413.0	404.9
60°	377.6	391.3	383.2	373.6	366.4
62.5°	339.0	354.3	346.3	336.6	330.2
65°	298.9	319.8	306.9	296.5	290.8
67.5°	261.1	281.2	265.9	257.9	252.3
70°	220.1	237.0	229.0	218.5	212.9
72.5°	180.0	192.8	190.4	179.2	175.1
75°	139.0	153.5	151.8	139.8	136.6
77.5°	104.4	118.1	113.3	103.6	99.6
80°	73.9	82.8	77.9	66.7	63.5
82.5°	45.0	52.2	44.2	37.8	34.5
85°	24.1	26.5	20.9	19.3	18.5
87.5°	8.8	8.8	8.8	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)