

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: P259018

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259018  
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-5000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2191.0 lumens  
Efficiency: N/A  
Efficacy: 78.0 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

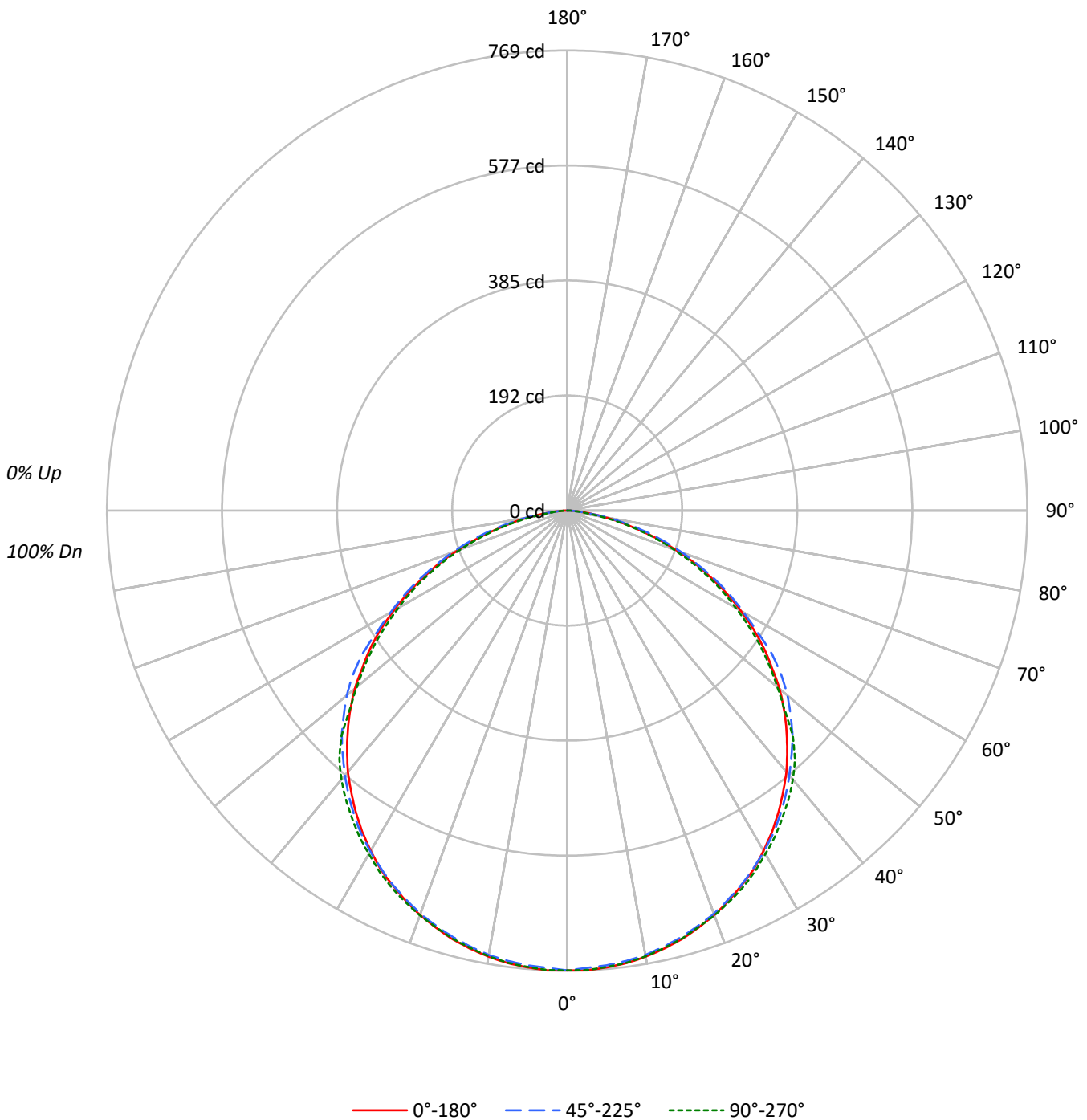
Input Watts (W): 28.086  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2068	2068	2068
5°	2070	2060	2068
10°	2068	2061	2067
15°	2065	2055	2063
20°	2059	2053	2061
25°	2051	2048	2063
30°	2039	2044	2059
35°	2022	2039	2060
40°	2002	2029	2062
45°	1973	2027	2030
50°	1940	2012	1919
55°	1886	1960	1849
60°	1806	1833	1752
65°	1692	1737	1646
70°	1540	1601	1489
75°	1284	1404	1262
80°	1018	1074	874
85°	661	574	506



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.7	3.3
10°-20°	208.9	9.5
20°-30°	318.9	14.6
30°-40°	388.9	17.7
40°-50°	407.2	18.6
50°-60°	362.2	16.5
60°-70°	267.2	12.2
70°-80°	138.1	6.3
80°-90°	26.8	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°	600.6	27.4
0°-40°	989.5	45.2
0°-60°	1758.8	80.3
0°-90°	2191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2191.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	766	766	763	766	766	73
15°	741	740	738	740	740	209
25°	691	691	690	695	695	318
35°	616	616	621	628	627	385
45°	518	522	533	538	533	400
55°	402	411	418	400	394	358
65°	266	284	273	264	258	263
75°	124	136	135	124	121	134
85°	21	24	19	17	16	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	768.4	768.4	768.4	768.4	768.4
2.5°	769.1	768.4	764.8	768.4	768.4
5°	766.2	765.5	762.7	765.5	765.5
7.5°	762.7	762.0	759.1	762.0	762.0
10°	757.0	756.3	754.1	757.0	756.3
12.5°	749.8	749.8	746.3	749.8	748.4
15°	741.3	740.5	737.7	740.5	740.5
17.5°	730.5	729.8	727.7	731.3	729.8
20°	719.1	718.4	717.0	720.5	719.8
22.5°	705.5	705.5	703.4	707.7	707.7
25°	690.6	690.6	689.8	694.8	694.8
27.5°	675.6	674.1	674.1	679.1	679.8
30°	656.3	656.3	657.7	663.4	662.7
32.5°	637.0	637.7	640.6	645.6	646.3
35°	615.6	616.3	620.6	627.7	627.0
37.5°	592.7	594.9	599.9	607.7	607.7
40°	569.9	571.3	577.7	586.3	587.0
42.5°	544.2	547.7	554.9	564.9	563.4
45°	518.5	522.0	532.7	537.7	533.4
47.5°	491.3	495.6	506.3	507.0	492.7
50°	463.5	468.5	480.6	466.3	458.5
52.5°	431.3	440.6	451.3	431.3	426.3
55°	402.0	410.6	417.8	399.9	394.2
57.5°	369.2	380.6	375.6	367.1	359.9
60°	335.6	347.8	340.6	332.1	325.6
62.5°	301.4	314.9	307.8	299.2	293.5
65°	265.7	284.2	272.8	263.5	258.5
67.5°	232.1	249.9	236.4	229.2	224.2
70°	195.7	210.7	203.5	194.2	189.2
72.5°	160.0	171.4	169.2	159.2	155.7
75°	123.5	136.4	135.0	124.3	121.4
77.5°	92.8	105.0	100.7	92.1	88.6
80°	65.7	73.6	69.3	59.3	56.4
82.5°	40.0	46.4	39.3	33.6	30.7
85°	21.4	23.6	18.6	17.1	16.4
87.5°	7.9	7.9	7.9	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)