

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: P258947

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258947  
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-LD5-25-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: 1715.0 lumens  
Efficiency: N/A  
Efficacy: 91.3 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

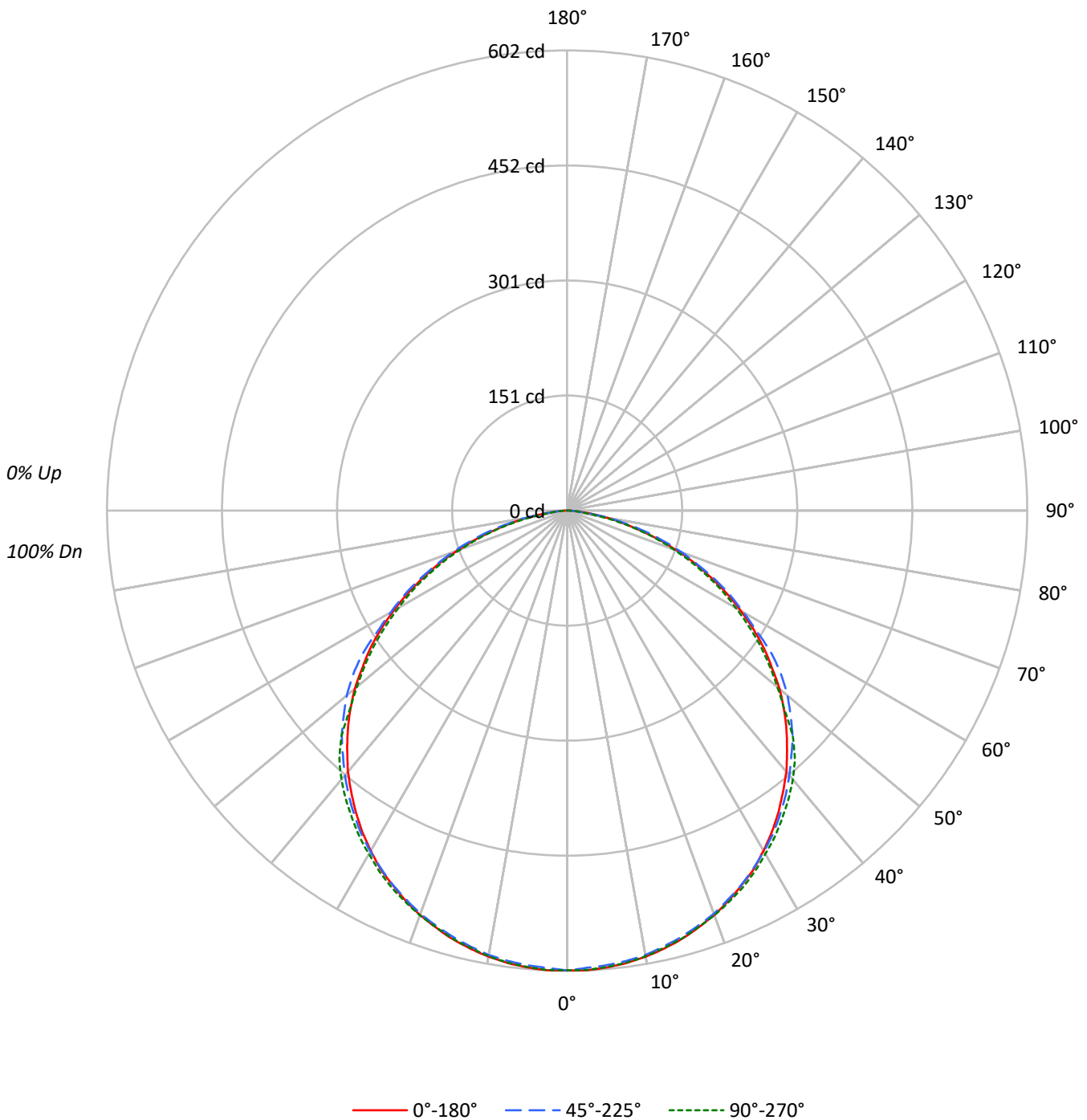
Input Watts (W): 18.786  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1619	1619	1619
5°	1620	1613	1619
10°	1619	1613	1618
15°	1616	1609	1615
20°	1612	1607	1613
25°	1605	1603	1615
30°	1596	1600	1612
35°	1583	1596	1612
40°	1567	1588	1614
45°	1544	1587	1589
50°	1519	1575	1503
55°	1476	1534	1448
60°	1414	1435	1372
65°	1324	1359	1288
70°	1205	1253	1165
75°	1005	1098	988
80°	797	840	685
85°	519	448	398



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.9	3.3
10°-20°	163.5	9.5
20°-30°	249.6	14.6
30°-40°	304.4	17.7
40°-50°	318.7	18.6
50°-60°	283.5	16.5
60°-70°	209.2	12.2
70°-80°	108.1	6.3
80°-90°	21.0	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°	470.1	27.4
0°-40°	774.5	45.2
0°-60°	1376.7	80.3
0°-90°	1715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1715.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	600	599	597	599	599	57
15°	580	580	577	580	580	164
25°	540	540	540	544	544	249
35°	482	482	486	491	491	301
45°	406	409	417	421	418	313
55°	315	321	327	313	309	280
65°	208	222	214	206	202	206
75°	97	107	106	97	95	105
85°	17	18	14	13	13	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	601.5	601.5	601.5	601.5	601.5
2.5°	602.0	601.5	598.7	601.5	601.5
5°	599.8	599.2	597.0	599.2	599.2
7.5°	597.0	596.4	594.2	596.4	596.4
10°	592.5	592.0	590.3	592.5	592.0
12.5°	586.9	586.9	584.1	586.9	585.8
15°	580.2	579.7	577.4	579.7	579.7
17.5°	571.8	571.3	569.6	572.4	571.3
20°	562.9	562.3	561.2	564.0	563.4
22.5°	552.3	552.3	550.6	553.9	553.9
25°	540.5	540.5	540.0	543.9	543.9
27.5°	528.8	527.7	527.7	531.6	532.1
30°	513.7	513.7	514.8	519.3	518.7
32.5°	498.6	499.2	501.4	505.3	505.9
35°	481.8	482.4	485.7	491.3	490.8
37.5°	463.9	465.6	469.5	475.7	475.7
40°	446.1	447.2	452.2	458.9	459.5
42.5°	425.9	428.7	434.3	442.1	441.0
45°	405.8	408.6	417.0	420.9	417.6
47.5°	384.6	387.9	396.3	396.9	385.7
50°	362.8	366.7	376.2	365.0	358.9
52.5°	337.6	344.9	353.3	337.6	333.7
55°	314.7	321.4	327.0	313.0	308.6
57.5°	289.0	297.9	294.0	287.3	281.7
60°	262.7	272.2	266.6	259.9	254.9
62.5°	235.9	246.5	240.9	234.2	229.7
65°	207.9	222.5	213.5	206.3	202.3
67.5°	181.7	195.6	185.0	179.4	175.5
70°	153.2	164.9	159.3	152.0	148.1
72.5°	125.2	134.2	132.5	124.7	121.9
75°	96.7	106.8	105.6	97.3	95.0
77.5°	72.7	82.2	78.8	72.1	69.3
80°	51.4	57.6	54.2	46.4	44.2
82.5°	31.3	36.3	30.7	26.3	24.0
85°	16.8	18.4	14.5	13.4	12.9
87.5°	6.1	6.1	6.1	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)