

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: P259003

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259003  
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-L92765-W2A1-U-6500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1566.0 lumens  
Efficiency: N/A  
Efficacy: 82.1 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

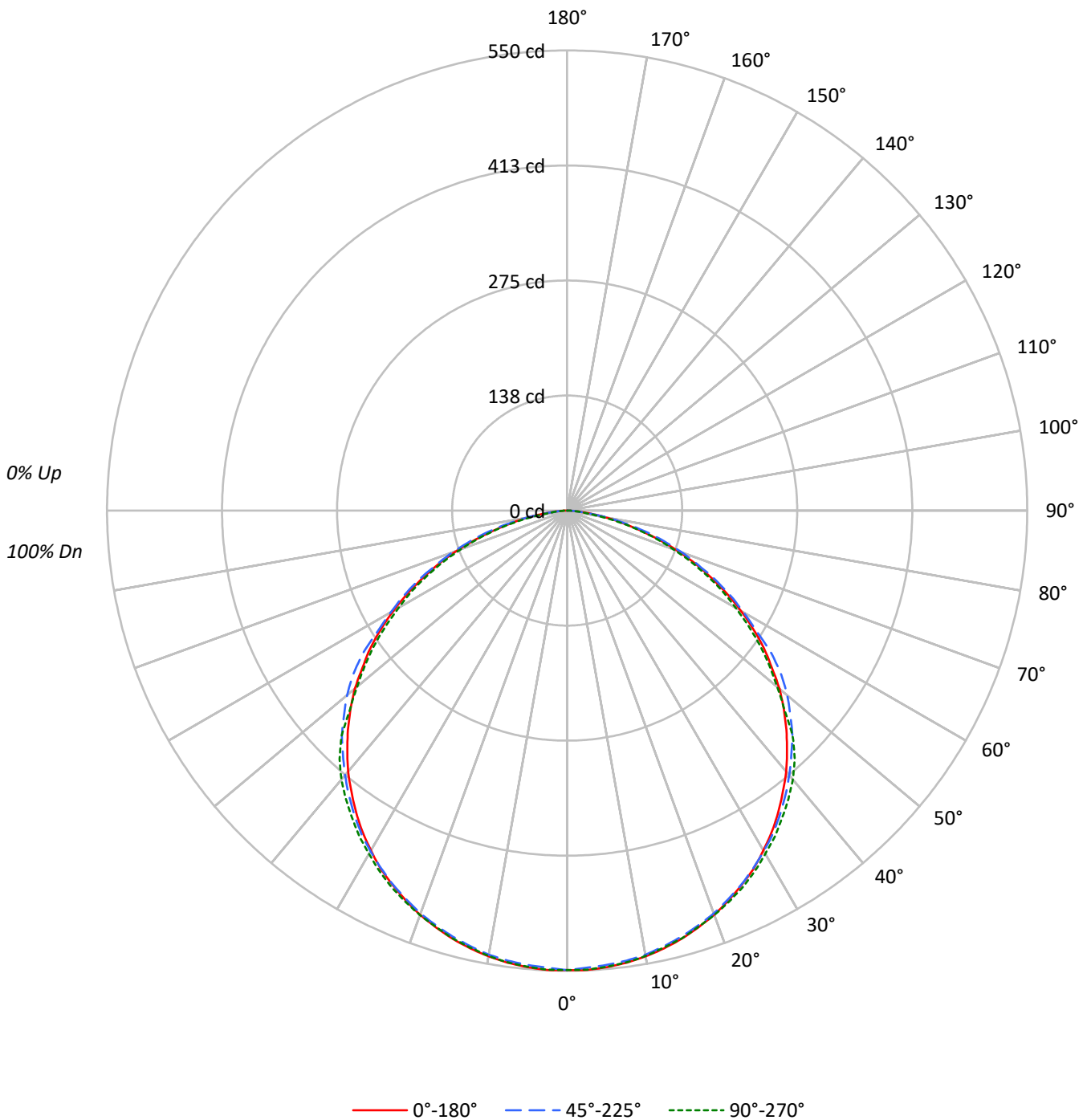
Input Watts (W): 19.065  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1478	1478	1478
5°	1479	1472	1478
10°	1478	1473	1477
15°	1476	1469	1475
20°	1472	1468	1473
25°	1466	1464	1474
30°	1458	1461	1472
35°	1445	1457	1472
40°	1431	1450	1474
45°	1410	1449	1451
50°	1387	1438	1372
55°	1348	1401	1322
60°	1291	1311	1252
65°	1209	1242	1177
70°	1101	1145	1065
75°	918	1003	902
80°	728	767	625
85°	472	411	361



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.0	3.3
10°-20°	149.3	9.5
20°-30°	228.0	14.6
30°-40°	277.9	17.7
40°-50°	291.0	18.6
50°-60°	258.9	16.5
60°-70°	191.0	12.2
70°-80°	98.7	6.3
80°-90°	19.2	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°	429.3	27.4
0°-40°	707.2	45.2
0°-60°	1257.1	80.3
0°-90°	1566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1566.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	549	549	549	549	549	
5°	548	547	545	547	547	52
15°	530	529	527	529	529	150
25°	494	494	493	497	497	228
35°	440	440	444	449	448	275
45°	371	373	381	384	381	286
55°	287	294	299	286	282	256
65°	190	203	195	188	185	188
75°	88	98	96	89	87	95
85°	15	17	13	12	12	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	549.2	549.2	549.2	549.2	549.2
2.5°	549.7	549.2	546.7	549.2	549.2
5°	547.7	547.2	545.1	547.2	547.2
7.5°	545.1	544.6	542.6	544.6	544.6
10°	541.0	540.5	539.0	541.0	540.5
12.5°	535.9	535.9	533.4	535.9	534.9
15°	529.8	529.3	527.3	529.3	529.3
17.5°	522.2	521.6	520.1	522.7	521.6
20°	514.0	513.5	512.5	515.0	514.5
22.5°	504.3	504.3	502.8	505.8	505.8
25°	493.6	493.6	493.1	496.6	496.6
27.5°	482.8	481.8	481.8	485.4	485.9
30°	469.1	469.1	470.1	474.2	473.7
32.5°	455.3	455.8	457.8	461.4	461.9
35°	440.0	440.5	443.5	448.7	448.1
37.5°	423.6	425.2	428.7	434.4	434.4
40°	407.3	408.3	412.9	419.0	419.6
42.5°	388.9	391.5	396.6	403.7	402.7
45°	370.6	373.1	380.8	384.3	381.3
47.5°	351.2	354.2	361.9	362.4	352.2
50°	331.3	334.8	343.5	333.3	327.7
52.5°	308.3	314.9	322.6	308.3	304.7
55°	287.4	293.5	298.6	285.8	281.7
57.5°	263.9	272.0	268.5	262.4	257.2
60°	239.9	248.6	243.5	237.3	232.7
62.5°	215.4	225.1	220.0	213.9	209.8
65°	189.9	203.1	195.0	188.3	184.8
67.5°	165.9	178.6	168.9	163.8	160.3
70°	139.9	150.6	145.5	138.8	135.3
72.5°	114.3	122.5	121.0	113.8	111.3
75°	88.3	97.5	96.5	88.8	86.8
77.5°	66.4	75.0	72.0	65.8	63.3
80°	47.0	52.6	49.5	42.4	40.3
82.5°	28.6	33.2	28.1	24.0	21.9
85°	15.3	16.8	13.3	12.2	11.7
87.5°	5.6	5.6	5.6	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)