

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: P258946

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258946  
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-5000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1699.0 lumens  
Efficiency: N/A  
Efficacy: 90.9 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

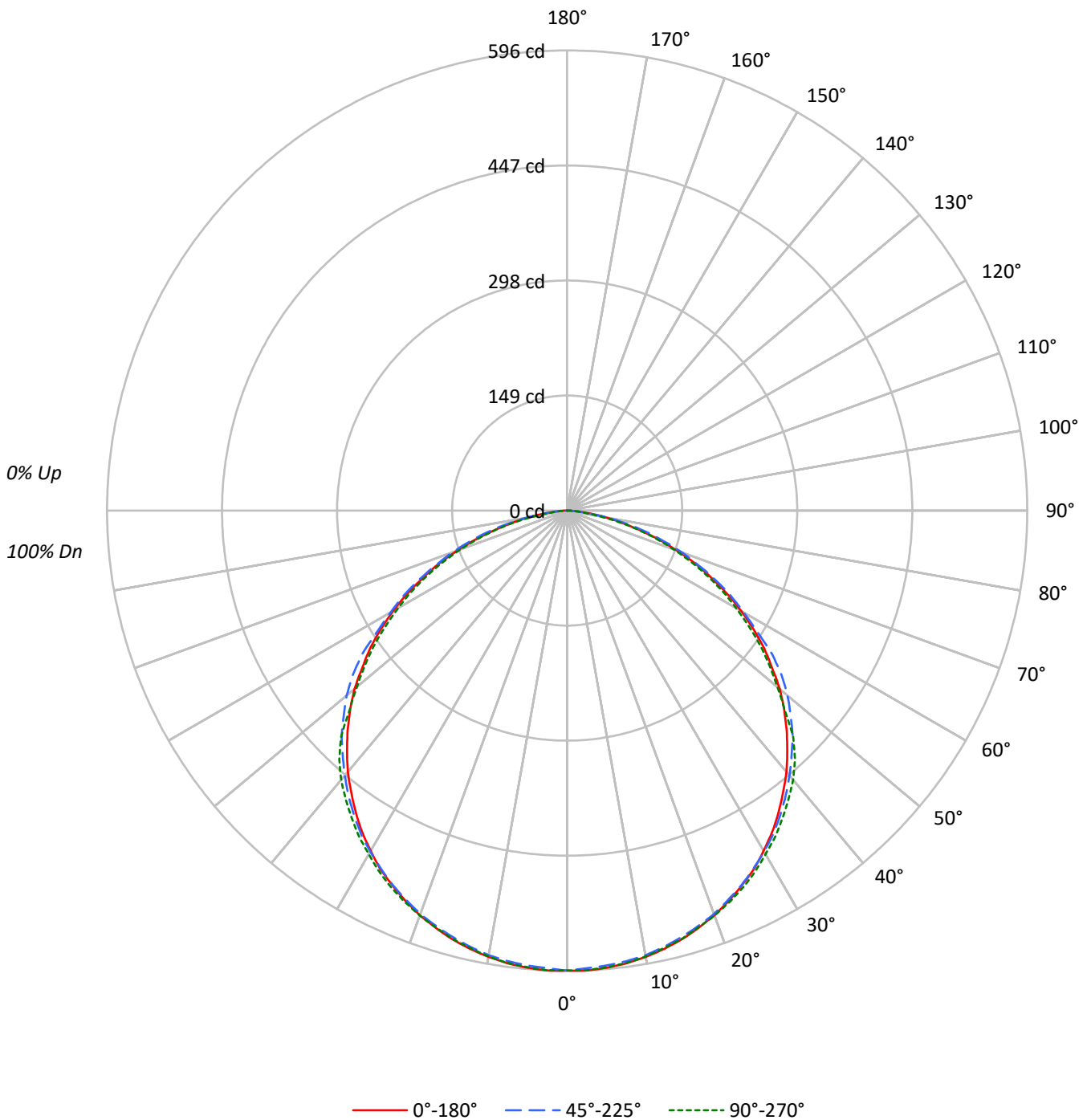
Input Watts (W): 18.693  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1603	1603	1603
5°	1605	1598	1603
10°	1604	1598	1602
15°	1601	1594	1600
20°	1597	1592	1599
25°	1590	1588	1600
30°	1581	1585	1597
35°	1568	1581	1597
40°	1552	1574	1599
45°	1530	1572	1574
50°	1505	1560	1488
55°	1463	1520	1434
60°	1401	1421	1359
65°	1312	1347	1277
70°	1194	1242	1154
75°	996	1089	978
80°	789	832	677
85°	513	445	392



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.4	3.3
10°-20°	162.0	9.5
20°-30°	247.3	14.6
30°-40°	301.5	17.7
40°-50°	315.7	18.6
50°-60°	280.9	16.5
60°-70°	207.2	12.2
70°-80°	107.1	6.3
80°-90°	20.8	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°	465.7	27.4
0°-40°	767.3	45.2
0°-60°	1363.9	80.3
0°-90°	1699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1699.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	596	596	596	596	596	
5°	594	594	591	594	594	57
15°	575	574	572	574	574	162
25°	536	536	535	539	539	247
35°	477	478	481	487	486	299
45°	402	405	413	417	414	310
55°	312	318	324	310	306	278
65°	206	220	212	204	200	204
75°	96	106	105	96	94	104
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°	595.8	595.8	595.8	595.8	595.8
2.5°	596.4	595.8	593.1	595.8	595.8
5°	594.2	593.6	591.4	593.6	593.6
7.5°	591.4	590.9	588.6	590.9	590.9
10°	587.0	586.4	584.8	587.0	586.4
12.5°	581.4	581.4	578.7	581.4	580.3
15°	574.8	574.2	572.0	574.2	574.2
17.5°	566.5	565.9	564.3	567.1	565.9
20°	557.6	557.1	556.0	558.7	558.2
22.5°	547.1	547.1	545.5	548.8	548.8
25°	535.5	535.5	534.9	538.8	538.8
27.5°	523.9	522.7	522.7	526.6	527.2
30°	508.9	508.9	510.0	514.4	513.9
32.5°	494.0	494.5	496.7	500.6	501.2
35°	477.3	477.9	481.2	486.8	486.2
37.5°	459.6	461.3	465.2	471.2	471.2
40°	441.9	443.0	448.0	454.6	455.2
42.5°	422.0	424.7	430.3	438.0	436.9
45°	402.0	404.8	413.1	417.0	413.7
47.5°	381.0	384.3	392.6	393.2	382.1
50°	359.4	363.3	372.7	361.6	355.5
52.5°	334.5	341.7	350.0	334.5	330.6
55°	311.8	318.4	323.9	310.1	305.7
57.5°	286.3	295.2	291.3	284.6	279.1
60°	260.3	269.7	264.1	257.5	252.5
62.5°	233.7	244.2	238.7	232.0	227.6
65°	206.0	220.4	211.5	204.3	200.5
67.5°	180.0	193.8	183.3	177.8	173.9
70°	151.7	163.4	157.8	150.6	146.7
72.5°	124.0	132.9	131.2	123.5	120.7
75°	95.8	105.8	104.7	96.4	94.1
77.5°	72.0	81.4	78.1	71.4	68.7
80°	50.9	57.0	53.7	46.0	43.7
82.5°	31.0	36.0	30.5	26.0	23.8
85°	16.6	18.3	14.4	13.3	12.7
87.5°	6.1	6.1	6.1	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)