

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: P275769

Luminaire Tested: **14CZ2-35-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275769  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-35-RDP-UNV-L93050-W2A1-U-3000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1740.0 lumens  
Efficiency: N/A  
Efficacy: 62.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

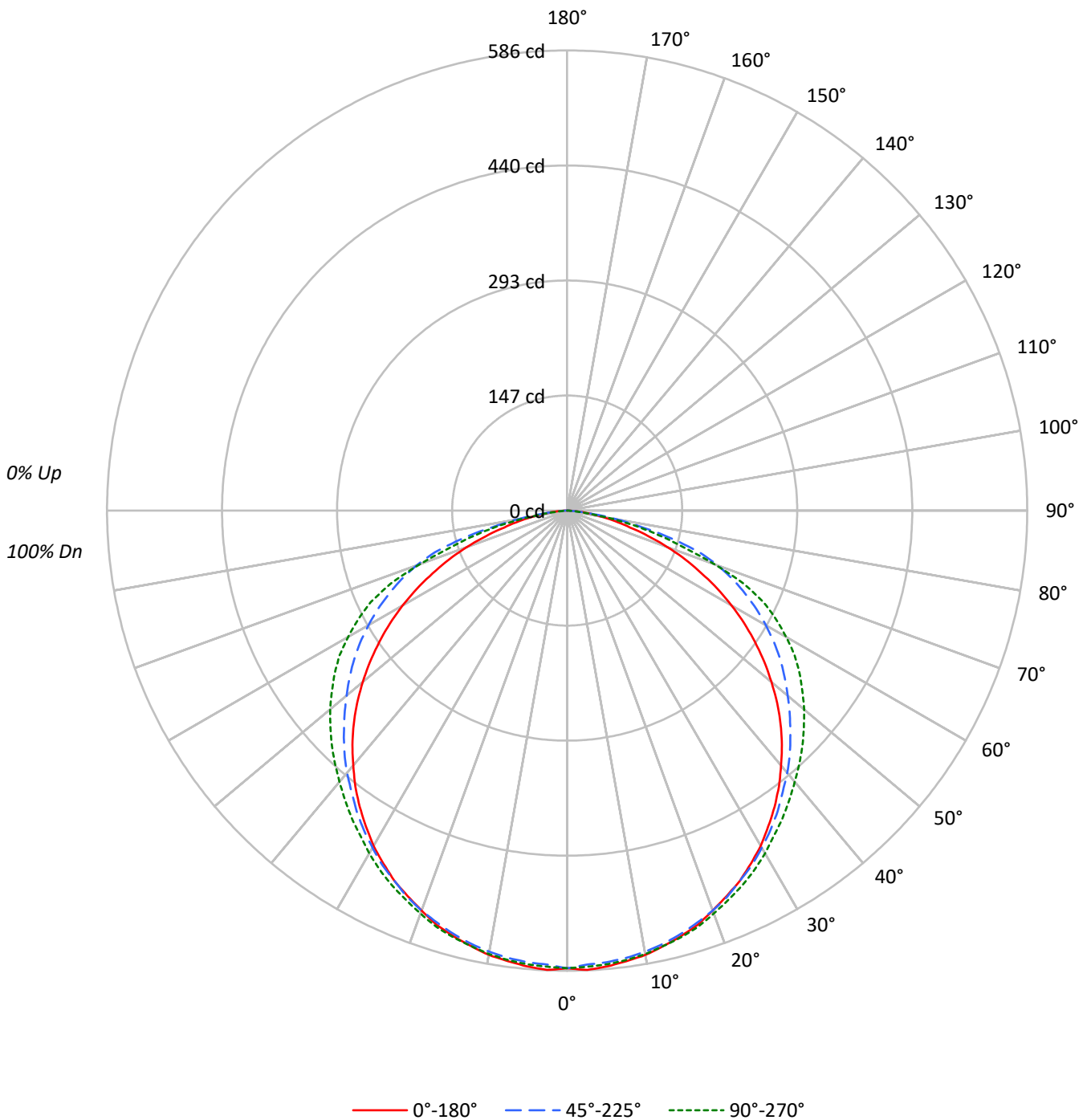
Input Watts (W): 28.086  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1568	1568	1568
5°	1574	1559	1567
10°	1570	1559	1567
15°	1563	1555	1567
20°	1552	1552	1564
25°	1545	1545	1565
30°	1532	1541	1566
35°	1513	1535	1571
40°	1489	1532	1584
45°	1463	1530	1613
50°	1422	1536	1649
55°	1370	1555	1695
60°	1301	1572	1733
65°	1202	1592	1756
70°	1068	1603	1571
75°	862	1441	1257
80°	674	1010	821
85°	460	293	210



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.2	3.2
10°-20°	158.3	9.1
20°-30°	241.0	13.8
30°-40°	293.5	16.9
40°-50°	311.4	17.9
50°-60°	293.9	16.9
60°-70°	237.3	13.6
70°-80°	128.7	7.4
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°	454.4	26.1
0°-40°	747.9	43.0
0°-60°	1353.2	77.8
0°-90°	1740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1740.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	583	583	583	583	583	
5°	583	581	577	581	580	55
15°	561	560	558	562	562	158
25°	520	519	520	526	527	240
35°	460	463	467	477	478	288
45°	384	390	402	417	424	296
55°	292	304	332	353	361	261
65°	189	212	250	270	276	187
75°	83	121	139	125	121	91
85°	15	16	10	8	7	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	582.8	582.8	582.8	582.8	582.8
2.5°	585.5	582.8	578.7	582.8	581.4
5°	582.8	581.4	577.3	581.4	580.1
7.5°	578.7	578.7	574.6	577.3	577.3
10°	574.6	573.3	570.5	574.6	573.3
12.5°	567.8	566.5	565.1	569.2	567.8
15°	561.0	559.7	558.3	562.4	562.4
17.5°	552.9	551.5	550.2	555.6	555.6
20°	542.0	542.0	542.0	547.5	546.1
22.5°	531.1	531.1	532.5	537.9	536.6
25°	520.3	518.9	520.3	525.7	527.1
27.5°	506.7	508.1	509.4	514.8	516.2
30°	493.1	494.5	495.8	502.6	504.0
32.5°	476.8	479.5	482.2	490.4	490.4
35°	460.5	463.2	467.3	476.8	478.2
37.5°	442.9	445.6	451.0	461.9	464.6
40°	423.8	427.9	436.1	446.9	451.0
42.5°	404.8	410.2	419.8	432.0	437.4
45°	384.4	389.9	402.1	417.0	423.8
47.5°	362.7	369.5	384.4	403.5	408.9
50°	339.6	349.1	366.8	387.2	393.9
52.5°	316.5	327.4	349.1	370.9	377.6
55°	292.1	304.3	331.5	353.2	361.3
57.5°	267.6	281.2	312.4	335.5	343.7
60°	241.8	258.1	292.1	315.2	322.0
62.5°	216.0	235.0	271.7	294.8	300.2
65°	188.8	211.9	250.0	270.3	275.8
67.5°	163.0	190.2	228.2	243.2	243.2
70°	135.8	165.7	203.8	207.8	199.7
72.5°	108.7	142.6	176.6	161.7	154.9
75°	82.9	120.9	138.6	125.0	120.9
77.5°	62.5	97.8	97.8	89.7	86.9
80°	43.5	74.7	65.2	57.1	53.0
82.5°	28.5	42.1	34.0	27.2	23.1
85°	14.9	16.3	9.5	8.2	6.8
87.5°	5.4	2.7	1.4	2.7	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)