

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: P295591

Luminaire Tested: **14RLN-LD5-35-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295591  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14RLN-LD5-35-UNV-L82765-W2A1-U-5500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3707.0 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

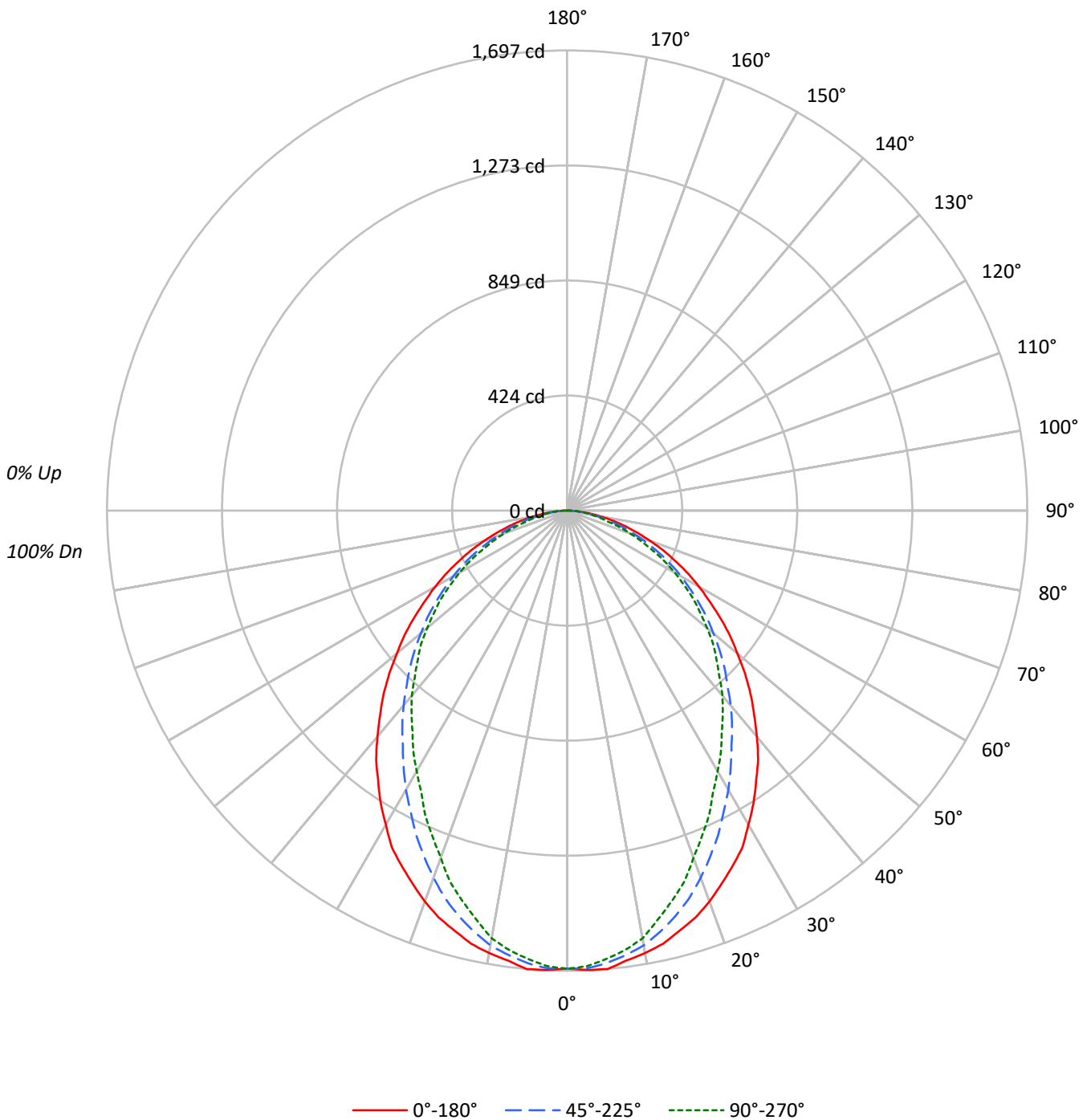
Input Watts (W): 34.503  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47					47			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28					28			

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

	0°	45°	90°
0°	4546	4546	4546
5°	4585	4526	4484
10°	4527	4450	4377
15°	4467	4310	4153
20°	4394	4125	3901
25°	4291	3915	3678
30°	4155	3693	3450
35°	3992	3472	3266
40°	3823	3295	3130
45°	3641	3123	2968
50°	3428	2950	2819
55°	3232	2784	2667
60°	3025	2612	2469
65°	2802	2413	2213
70°	2550	2168	1959
75°	2296	1937	1595
80°	1965	1578	1505
85°	1596	1497	1497



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.2	4.3
10°-20°	434.2	11.7
20°-30°	609.4	16.4
30°-40°	675.9	18.2
40°-50°	648.8	17.5
50°-60°	543.8	14.7
60°-70°	381.7	10.3
70°-80°	199.3	5.4
80°-90°	55.8	1.5
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°	1201.7	32.4
0°-40°	1877.6	50.7
0°-60°	3070.2	82.8
0°-90°	3707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3707.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1697	1675	1675	1664	1660	160
15°	1603	1575	1547	1506	1491	452
25°	1445	1394	1318	1254	1239	665
35°	1215	1148	1057	1005	994	761
45°	957	883	820	789	780	737
55°	689	637	593	575	568	616
65°	440	410	379	355	348	437
75°	221	204	186	164	153	234
85°	52	48	48	48	48	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1689.5	1689.5	1689.5	1689.5	1689.5
2.5°	1695.8	1686.4	1689.5	1689.5	1681.7
5°	1697.3	1675.4	1675.4	1664.4	1659.8
7.5°	1673.8	1656.6	1653.5	1639.4	1634.7
10°	1656.6	1639.4	1628.4	1609.6	1601.8
12.5°	1636.3	1609.6	1589.3	1558.0	1545.4
15°	1603.4	1575.2	1547.0	1506.3	1490.6
17.5°	1573.6	1540.8	1498.5	1453.1	1435.8
20°	1534.5	1495.3	1440.5	1377.9	1362.2
22.5°	1489.1	1443.7	1379.5	1312.1	1299.6
25°	1445.2	1393.6	1318.4	1254.2	1238.6
27.5°	1399.8	1337.2	1251.1	1182.2	1166.5
30°	1337.2	1273.0	1188.4	1121.1	1110.2
32.5°	1279.3	1215.1	1122.7	1067.9	1055.4
35°	1215.1	1147.7	1056.9	1005.2	994.3
37.5°	1157.1	1078.8	999.0	948.9	942.6
40°	1088.2	1017.8	937.9	900.3	890.9
42.5°	1020.9	950.4	875.3	842.4	831.4
45°	956.7	883.1	820.5	789.2	779.8
47.5°	889.4	822.0	762.5	737.5	731.2
50°	818.9	759.4	704.6	681.1	673.3
52.5°	756.3	695.2	649.8	627.9	618.5
55°	689.0	637.3	593.4	574.6	568.4
57.5°	621.6	579.3	537.1	519.8	510.5
60°	562.1	519.8	485.4	465.0	458.8
62.5°	501.1	465.0	432.2	413.4	405.5
65°	440.0	410.2	378.9	355.4	347.6
67.5°	383.6	350.7	325.7	305.3	297.5
70°	324.1	300.6	275.6	256.8	249.0
72.5°	269.3	252.1	230.2	209.8	202.0
75°	220.8	203.6	186.3	164.4	153.4
77.5°	172.2	161.3	144.1	125.3	125.3
80°	126.8	120.6	101.8	98.6	97.1
82.5°	87.7	84.6	73.6	72.0	72.0
85°	51.7	48.5	48.5	48.5	48.5
87.5°	21.9	23.5	25.1	25.1	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)