

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: P295744

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295744  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14RLN-LD5-23-RDP-UNV-L93050-W2A1-U-3500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1707.0 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

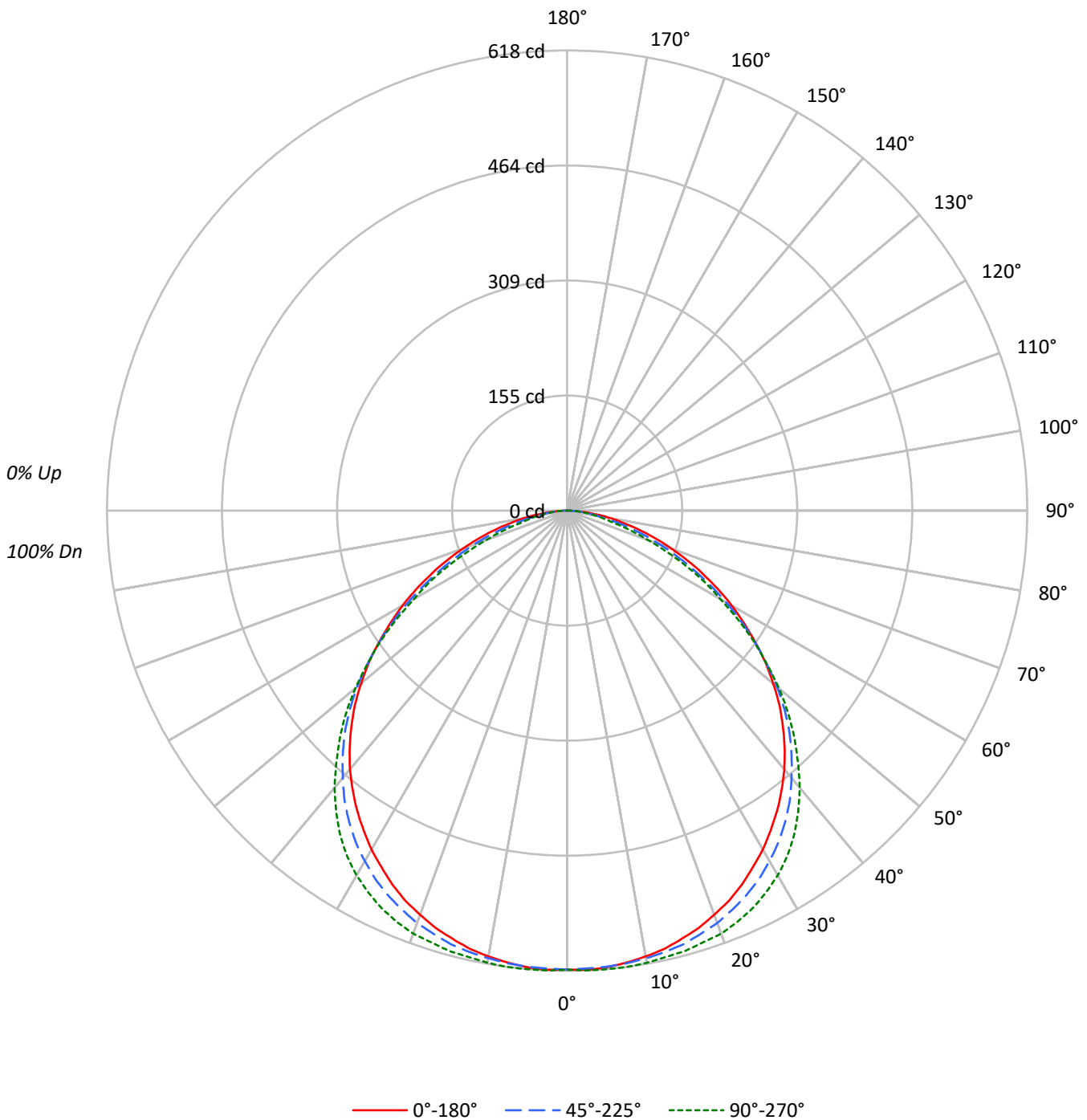
Input Watts (W): 21.018  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

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

	0°	45°	90°
0°	1659	1659	1659
5°	1663	1661	1670
10°	1661	1668	1685
15°	1658	1680	1706
20°	1654	1688	1731
25°	1647	1692	1750
30°	1633	1689	1757
35°	1616	1677	1747
40°	1594	1647	1707
45°	1559	1607	1643
50°	1512	1541	1555
55°	1448	1444	1436
60°	1373	1328	1278
65°	1280	1188	1123
70°	1168	1041	907
75°	1049	864	679
80°	933	631	592
85°	732	525	525



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.7	3.4
10°-20°	170.5	10.0
20°-30°	263.2	15.4
30°-40°	319.2	18.7
40°-50°	324.1	19.0
50°-60°	274.2	16.1
60°-70°	185.5	10.9
70°-80°	89.7	5.3
80°-90°	21.9	1.3
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°	492.4	28.8
0°-40°	811.7	47.5
0°-60°	1409.9	82.6
0°-90°	1707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1707.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	616	616	616	616	616	
5°	616	616	615	617	618	59
15°	595	599	603	610	612	168
25°	555	559	570	584	589	255
35°	492	497	510	527	532	307
45°	410	410	422	431	432	316
55°	309	306	308	308	306	276
65°	201	192	186	179	176	199
75°	101	93	83	72	65	108
85°	24	19	17	17	17	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	616.5	616.5	616.5	616.5	616.5
2.5°	617.3	617.3	615.6	617.3	618.2
5°	615.6	615.6	614.8	617.3	618.2
7.5°	612.2	613.1	613.1	616.5	618.2
10°	608.0	609.7	610.5	615.6	616.5
12.5°	602.9	604.6	607.1	613.1	613.9
15°	595.3	598.7	602.9	609.7	612.2
17.5°	587.6	591.0	596.1	605.4	608.0
20°	577.5	581.7	589.3	600.3	604.6
22.5°	567.3	570.7	580.0	593.6	597.8
25°	554.6	558.8	569.8	584.2	589.3
27.5°	540.1	546.1	558.0	573.2	578.3
30°	525.7	530.8	543.5	560.5	565.6
32.5°	508.8	513.9	528.3	544.4	550.3
35°	491.8	496.9	510.5	526.6	531.7
37.5°	473.2	476.5	491.0	504.5	509.6
40°	453.7	456.2	468.9	482.5	485.9
42.5°	432.5	434.2	446.0	457.9	458.7
45°	409.6	410.4	422.3	430.8	431.6
47.5°	386.7	385.8	396.0	401.9	402.8
50°	361.2	361.2	368.0	371.4	371.4
52.5°	335.8	334.1	337.5	340.0	337.5
55°	308.7	306.1	307.8	307.8	306.1
57.5°	281.5	276.4	277.3	275.6	271.3
60°	255.2	249.3	246.8	240.8	237.4
62.5°	228.1	221.3	216.2	209.4	208.6
65°	201.0	192.5	186.5	178.9	176.4
67.5°	174.7	167.0	158.6	150.1	145.0
70°	148.4	139.9	132.3	121.3	115.3
72.5°	124.6	117.0	107.7	95.0	90.7
75°	100.9	93.3	83.1	72.1	65.3
77.5°	78.0	72.1	61.1	51.7	50.9
80°	60.2	53.4	40.7	38.2	38.2
82.5°	39.0	34.8	28.8	27.1	27.1
85°	23.7	18.7	17.0	17.0	17.0
87.5°	9.3	8.5	8.5	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)