

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: P295770

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295770  
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-L92765-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: 1718.0 lumens  
Efficiency: N/A  
Efficacy: 82.8 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

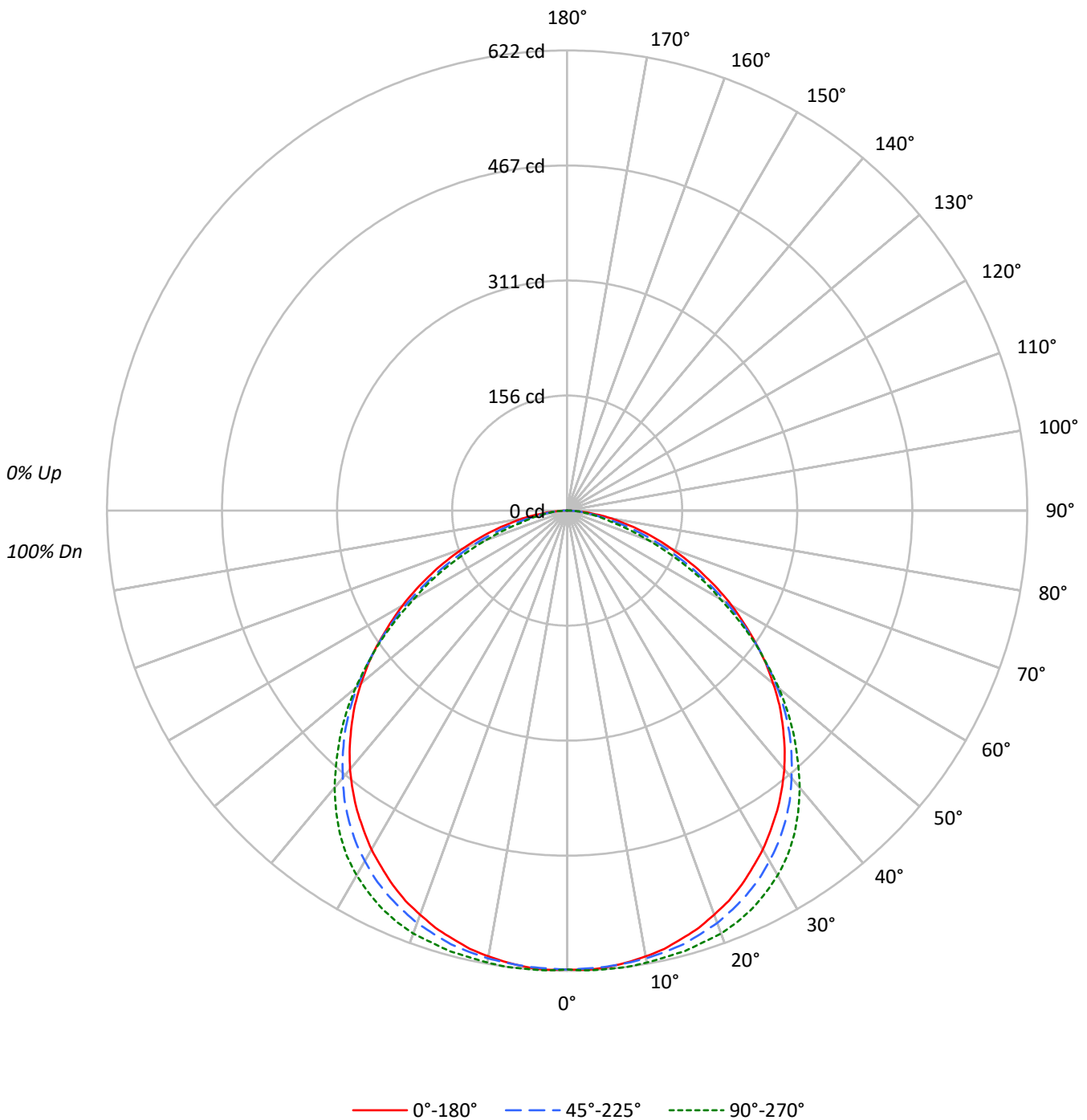
Input Watts (W): 20.739  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1669	1669	1669
5°	1674	1671	1680
10°	1672	1679	1695
15°	1669	1690	1717
20°	1664	1698	1743
25°	1657	1703	1761
30°	1644	1700	1769
35°	1626	1688	1758
40°	1604	1658	1718
45°	1569	1617	1653
50°	1522	1551	1565
55°	1457	1453	1445
60°	1383	1336	1286
65°	1288	1196	1130
70°	1175	1047	913
75°	1056	869	683
80°	939	635	595
85°	738	528	528



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.1	3.4
10°-20°	171.6	10.0
20°-30°	264.9	15.4
30°-40°	321.3	18.7
40°-50°	326.2	19.0
50°-60°	276.0	16.1
60°-70°	186.7	10.9
70°-80°	90.3	5.3
80°-90°	22.0	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°	495.6	28.8
0°-40°	816.9	47.5
0°-60°	1419.0	82.6
0°-90°	1718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1718.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	620	620	619	621	622	59
15°	599	602	607	614	616	169
25°	558	562	574	588	593	257
35°	495	500	514	530	535	309
45°	412	413	425	434	434	318
55°	311	308	310	310	308	278
65°	202	194	188	180	178	201
75°	102	94	84	72	66	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°	620.4	620.4	620.4	620.4	620.4
2.5°	621.3	621.3	619.6	621.3	622.1
5°	619.6	619.6	618.7	621.3	622.1
7.5°	616.2	617.0	617.0	620.4	622.1
10°	611.9	613.6	614.5	619.6	620.4
12.5°	606.8	608.5	611.0	617.0	617.9
15°	599.1	602.5	606.8	613.6	616.2
17.5°	591.4	594.8	600.0	609.3	611.9
20°	581.2	585.4	593.1	604.2	608.5
22.5°	570.9	574.3	583.7	597.4	601.7
25°	558.1	562.4	573.5	588.0	593.1
27.5°	543.6	549.6	561.5	576.9	582.0
30°	529.1	534.2	547.0	564.1	569.2
32.5°	512.0	517.2	531.7	547.9	553.9
35°	495.0	500.1	513.8	530.0	535.1
37.5°	476.2	479.6	494.1	507.8	512.9
40°	456.6	459.1	471.9	485.6	489.0
42.5°	435.2	436.9	448.9	460.8	461.7
45°	412.2	413.1	425.0	433.5	434.4
47.5°	389.2	388.3	398.5	404.5	405.4
50°	363.6	363.6	370.4	373.8	373.8
52.5°	338.0	336.2	339.7	342.2	339.7
55°	310.6	308.1	309.8	309.8	308.1
57.5°	283.3	278.2	279.1	277.4	273.1
60°	256.9	250.9	248.3	242.4	239.0
62.5°	229.6	222.7	217.6	210.8	209.9
65°	202.3	193.7	187.8	180.1	177.5
67.5°	175.8	168.1	159.6	151.1	145.9
70°	149.3	140.8	133.1	122.0	116.1
72.5°	125.5	117.8	108.4	95.6	91.3
75°	101.6	93.9	83.6	72.5	65.7
77.5°	78.5	72.5	61.4	52.1	51.2
80°	60.6	53.8	41.0	38.4	38.4
82.5°	39.3	35.0	29.0	27.3	27.3
85°	23.9	18.8	17.1	17.1	17.1
87.5°	9.4	8.5	8.5	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)