

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: P295700

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295700  
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-L82765-W2A1-U-3500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1961.0 lumens  
Efficiency: N/A  
Efficacy: 94.6 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

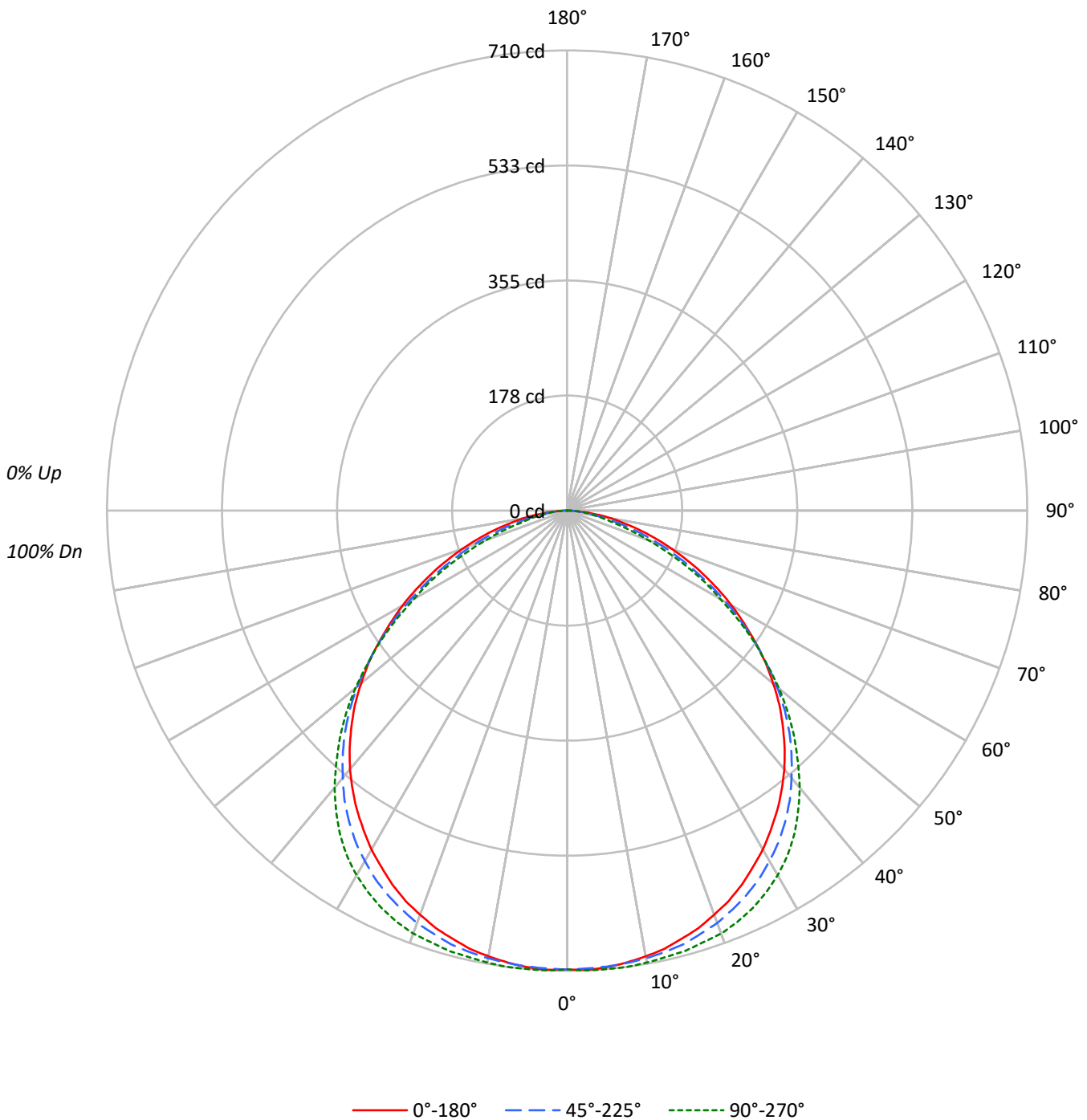
Input Watts (W): 20.739  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	1906	1906	1906
5°	1910	1908	1918
10°	1908	1917	1935
15°	1905	1930	1959
20°	1900	1939	1989
25°	1892	1944	2010
30°	1877	1940	2019
35°	1856	1926	2007
40°	1831	1892	1961
45°	1791	1846	1887
50°	1737	1770	1786
55°	1664	1659	1650
60°	1578	1526	1468
65°	1470	1365	1290
70°	1341	1196	1042
75°	1205	993	780
80°	1072	725	679
85°	843	602	602



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.4	3.4
10°-20°	195.9	10.0
20°-30°	302.4	15.4
30°-40°	366.7	18.7
40°-50°	372.3	19.0
50°-60°	315.0	16.1
60°-70°	213.1	10.9
70°-80°	103.0	5.3
80°-90°	25.1	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°	565.7	28.8
0°-40°	932.4	47.5
0°-60°	1619.7	82.6
0°-90°	1961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	707	707	706	709	710	67
15°	684	688	693	700	703	193
25°	637	642	655	671	677	293
35°	565	571	586	605	611	353
45°	470	472	485	495	496	363
55°	355	352	354	354	352	317
65°	231	221	214	206	203	229
75°	116	107	96	83	75	124
85°	27	21	20	20	20	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	708.2	708.2	708.2	708.2	708.2
2.5°	709.2	709.2	707.2	709.2	710.1
5°	707.2	707.2	706.2	709.2	710.1
7.5°	703.3	704.3	704.3	708.2	710.1
10°	698.4	700.4	701.4	707.2	708.2
12.5°	692.6	694.6	697.5	704.3	705.3
15°	683.8	687.7	692.6	700.4	703.3
17.5°	675.1	679.0	684.8	695.5	698.4
20°	663.4	668.2	677.0	689.7	694.6
22.5°	651.7	655.6	666.3	681.9	686.8
25°	637.1	641.9	654.6	671.2	677.0
27.5°	620.5	627.3	641.0	658.5	664.4
30°	604.0	609.8	624.4	643.9	649.7
32.5°	584.5	590.3	606.9	625.4	632.2
35°	565.0	570.8	586.4	604.9	610.8
37.5°	543.6	547.5	564.0	579.6	585.4
40°	521.2	524.1	538.7	554.3	558.2
42.5°	496.8	498.8	512.4	526.0	527.0
45°	470.5	471.5	485.1	494.9	495.8
47.5°	444.2	443.2	454.9	461.7	462.7
50°	415.0	415.0	422.8	426.7	426.7
52.5°	385.8	383.8	387.7	390.6	387.7
55°	354.6	351.7	353.6	353.6	351.7
57.5°	323.4	317.6	318.5	316.6	311.7
60°	293.2	286.4	283.5	276.7	272.8
62.5°	262.0	254.2	248.4	240.6	239.6
65°	230.9	221.1	214.3	205.5	202.6
67.5°	200.7	191.9	182.2	172.4	166.6
70°	170.5	160.7	152.0	139.3	132.5
72.5°	143.2	134.4	123.7	109.1	104.2
75°	115.9	107.2	95.5	82.8	75.0
77.5°	89.6	82.8	70.1	59.4	58.4
80°	69.2	61.4	46.8	43.8	43.8
82.5°	44.8	39.9	33.1	31.2	31.2
85°	27.3	21.4	19.5	19.5	19.5
87.5°	10.7	9.7	9.7	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)