

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: P295763

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295763  
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-LD5-40-RDP-UNV-L93050-W2A1-U-3000K  
Description: RLN LED 1x4 TUNABLE WHITE 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: 2678.0 lumens  
Efficiency: N/A  
Efficacy: 66.3 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

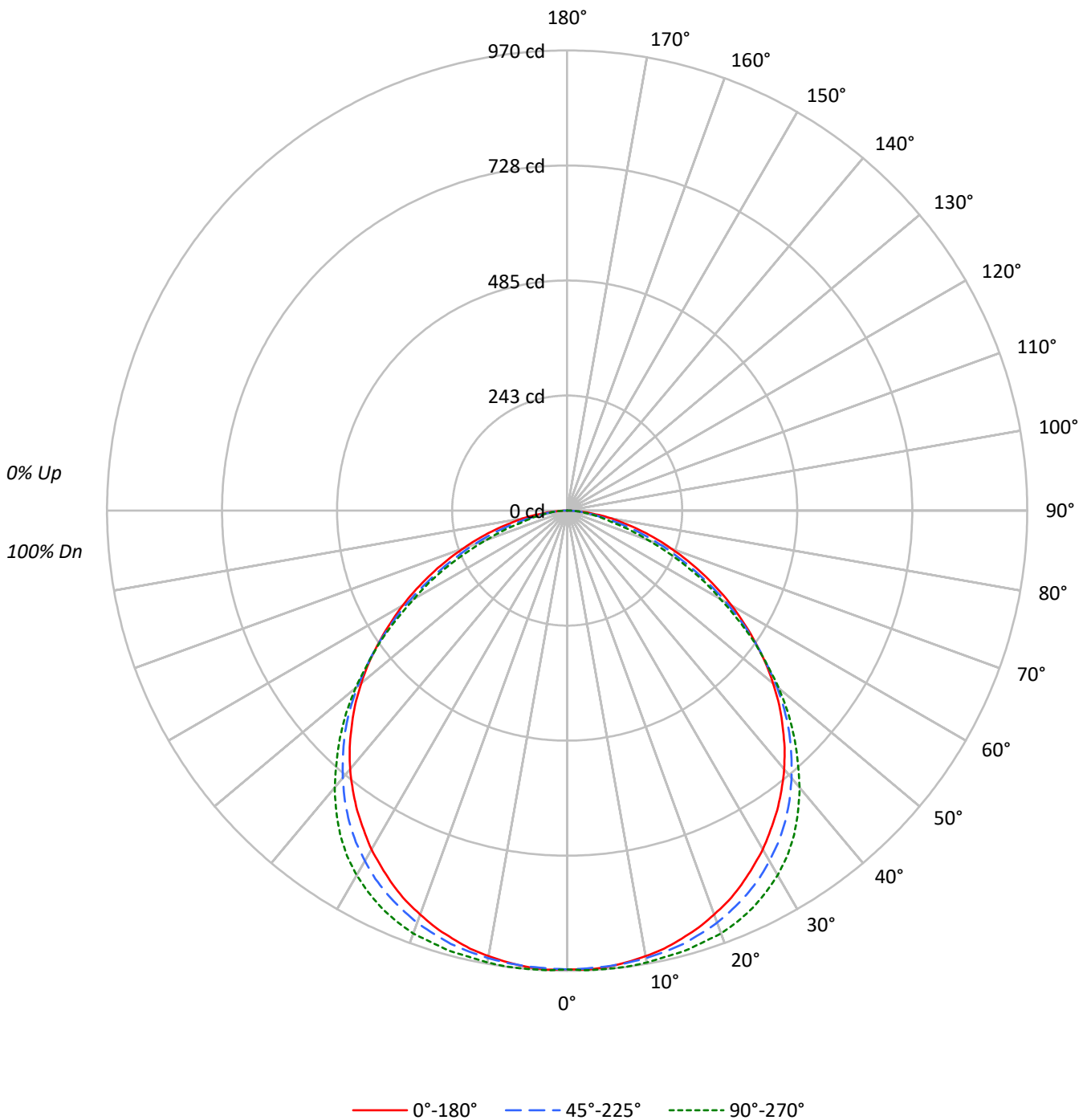
Input Watts (W): 40.362  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2602	2602	2602
5°	2609	2605	2620
10°	2606	2617	2643
15°	2602	2635	2676
20°	2594	2648	2716
25°	2583	2654	2745
30°	2563	2650	2757
35°	2535	2631	2740
40°	2500	2584	2678
45°	2445	2521	2577
50°	2372	2417	2439
55°	2272	2266	2253
60°	2155	2083	2005
65°	2008	1864	1762
70°	1832	1633	1423
75°	1646	1356	1065
80°	1464	990	928
85°	1149	821	821



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.1	3.4
10°-20°	267.6	10.0
20°-30°	412.9	15.4
30°-40°	500.8	18.7
40°-50°	508.5	19.0
50°-60°	430.1	16.1
60°-70°	291.0	10.9
70°-80°	140.7	5.3
80°-90°	34.3	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°	772.5	28.8
0°-40°	1273.3	47.5
0°-60°	2211.9	82.6
0°-90°	2678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2678.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	966	966	964	968	970	92
15°	934	939	946	956	960	264
25°	870	877	894	917	925	401
35°	772	780	801	826	834	482
45°	642	644	662	676	677	495
55°	484	480	483	483	480	433
65°	315	302	293	281	277	313
75°	158	146	130	113	102	169
85°	37	29	27	27	27	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	967.1	967.1	967.1	967.1	967.1
2.5°	968.5	968.5	965.8	968.5	969.8
5°	965.8	965.8	964.5	968.5	969.8
7.5°	960.5	961.8	961.8	967.1	969.8
10°	953.8	956.5	957.8	965.8	967.1
12.5°	945.8	948.5	952.5	961.8	963.1
15°	933.9	939.2	945.8	956.5	960.5
17.5°	921.9	927.2	935.2	949.8	953.8
20°	905.9	912.6	924.6	941.8	948.5
22.5°	890.0	895.3	909.9	931.2	937.9
25°	870.0	876.7	894.0	916.6	924.6
27.5°	847.4	856.7	875.3	899.3	907.3
30°	824.8	832.8	852.7	879.3	887.3
32.5°	798.2	806.2	828.8	854.0	863.4
35°	771.6	779.6	800.8	826.1	834.1
37.5°	742.3	747.6	770.2	791.5	799.5
40°	711.7	715.7	735.7	756.9	762.3
42.5°	678.4	681.1	699.7	718.4	719.7
45°	642.5	643.9	662.5	675.8	677.1
47.5°	606.6	605.3	621.2	630.6	631.9
50°	566.7	566.7	577.3	582.7	582.7
52.5°	526.8	524.1	529.5	533.4	529.5
55°	484.2	480.2	482.9	482.9	480.2
57.5°	441.7	433.7	435.0	432.3	425.7
60°	400.4	391.1	387.1	377.8	372.5
62.5°	357.8	347.2	339.2	328.6	327.3
65°	315.3	302.0	292.7	280.7	276.7
67.5°	274.0	262.1	248.8	235.5	227.5
70°	232.8	219.5	207.5	190.2	180.9
72.5°	195.6	183.6	168.9	149.0	142.3
75°	158.3	146.3	130.4	113.1	102.4
77.5°	122.4	113.1	95.8	81.1	79.8
80°	94.5	83.8	63.9	59.9	59.9
82.5°	61.2	54.5	45.2	42.6	42.6
85°	37.2	29.3	26.6	26.6	26.6
87.5°	14.6	13.3	13.3	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)