

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: P295804

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295804  
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-L92765-W2A1-U-2700K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2697.0 lumens  
Efficiency: N/A  
Efficacy: 68.6 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

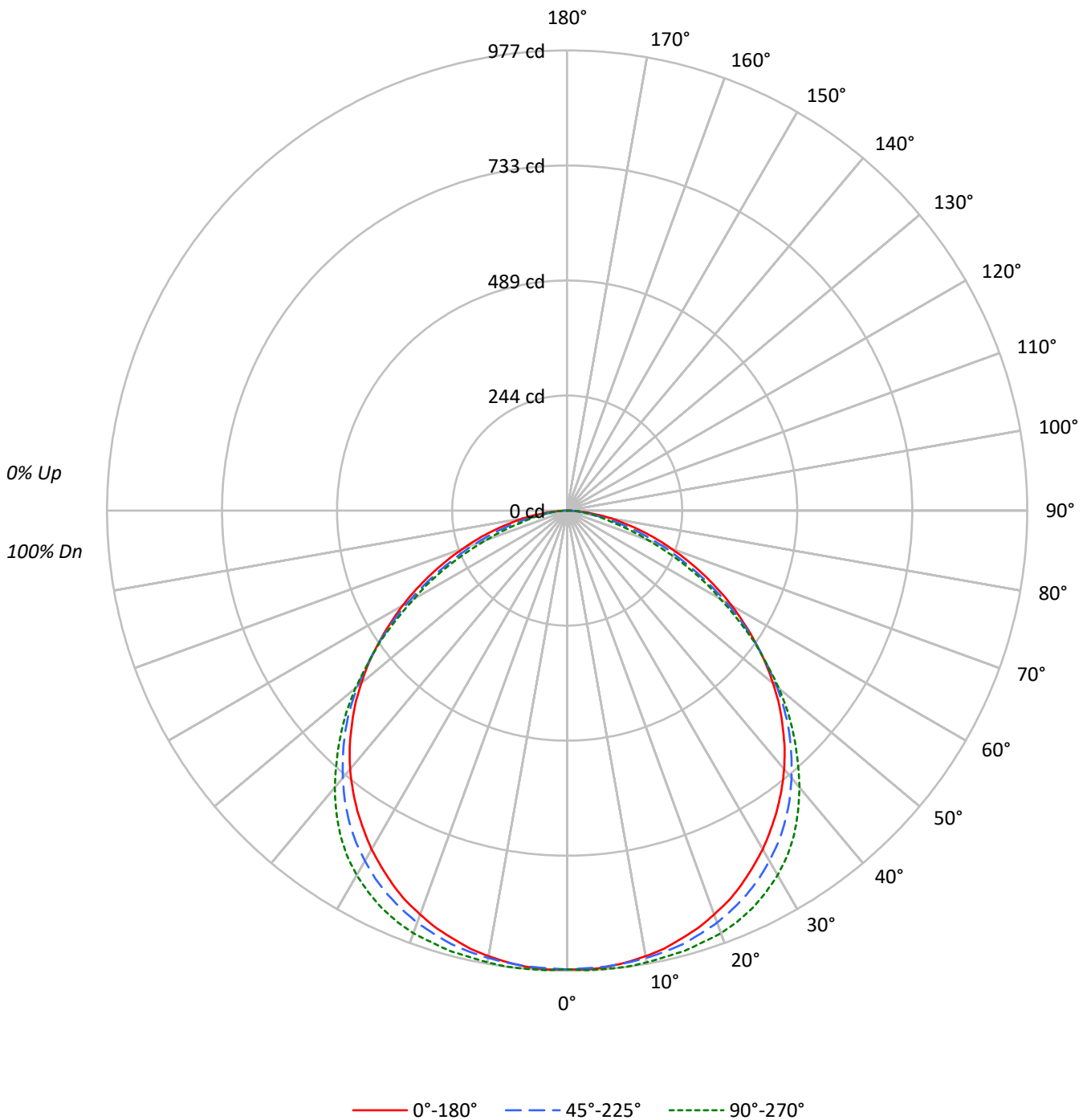
Input Watts (W): 39.339  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2621	2621	2621
5°	2627	2624	2638
10°	2625	2636	2661
15°	2620	2654	2695
20°	2613	2666	2735
25°	2602	2673	2765
30°	2581	2669	2777
35°	2553	2649	2759
40°	2518	2603	2697
45°	2463	2539	2595
50°	2389	2434	2457
55°	2288	2282	2269
60°	2171	2098	2019
65°	2022	1876	1775
70°	1845	1644	1434
75°	1657	1365	1073
80°	1474	996	934
85°	1158	827	827



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.7	3.4
10°-20°	269.5	10.0
20°-30°	415.9	15.4
30°-40°	504.4	18.7
40°-50°	512.1	19.0
50°-60°	433.2	16.1
60°-70°	293.1	10.9
70°-80°	141.7	5.3
80°-90°	34.6	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°	778.0	28.8
0°-40°	1282.4	47.5
0°-60°	2227.6	82.6
0°-90°	2697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2697.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	974	974	974	974	974	
5°	973	973	971	975	977	92
15°	940	946	952	963	967	266
25°	876	883	900	923	931	404
35°	777	785	806	832	840	486
45°	647	648	667	681	682	499
55°	488	484	486	486	484	436
65°	318	304	295	283	279	315
75°	159	147	131	114	103	170
85°	38	30	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°	974.0	974.0	974.0	974.0	974.0
2.5°	975.3	975.3	972.6	975.3	976.7
5°	972.6	972.6	971.3	975.3	976.7
7.5°	967.3	968.6	968.6	974.0	976.7
10°	960.6	963.3	964.6	972.6	974.0
12.5°	952.5	955.2	959.2	968.6	970.0
15°	940.5	945.9	952.5	963.3	967.3
17.5°	928.4	933.8	941.8	956.6	960.6
20°	912.4	919.1	931.1	948.5	955.2
22.5°	896.3	901.6	916.4	937.8	944.5
25°	876.2	882.9	900.3	923.1	931.1
27.5°	853.4	862.8	881.5	905.7	913.7
30°	830.6	838.7	858.8	885.6	893.6
32.5°	803.8	811.9	834.7	860.1	869.5
35°	777.0	785.1	806.5	832.0	840.0
37.5°	747.6	752.9	775.7	797.1	805.2
40°	716.8	720.8	740.9	762.3	767.7
42.5°	683.3	685.9	704.7	723.5	724.8
45°	647.1	648.4	667.2	680.6	681.9
47.5°	610.9	609.6	625.7	635.0	636.4
50°	570.7	570.7	581.4	586.8	586.8
52.5°	530.5	527.9	533.2	537.2	533.2
55°	487.7	483.6	486.3	486.3	483.6
57.5°	444.8	436.8	438.1	435.4	428.7
60°	403.3	393.9	389.9	380.5	375.1
62.5°	360.4	349.7	341.6	330.9	329.6
65°	317.5	304.1	294.7	282.7	278.7
67.5°	276.0	263.9	250.5	237.1	229.1
70°	234.5	221.1	209.0	191.6	182.2
72.5°	196.9	184.9	170.1	150.1	143.4
75°	159.4	147.4	131.3	113.9	103.2
77.5°	123.3	113.9	96.5	81.7	80.4
80°	95.1	84.4	64.3	60.3	60.3
82.5°	61.6	54.9	45.6	42.9	42.9
85°	37.5	29.5	26.8	26.8	26.8
87.5°	14.7	13.4	13.4	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)