

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: P295807

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295807
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-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3040.0 lumens
Efficiency: N/A
Efficacy: 76.2 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

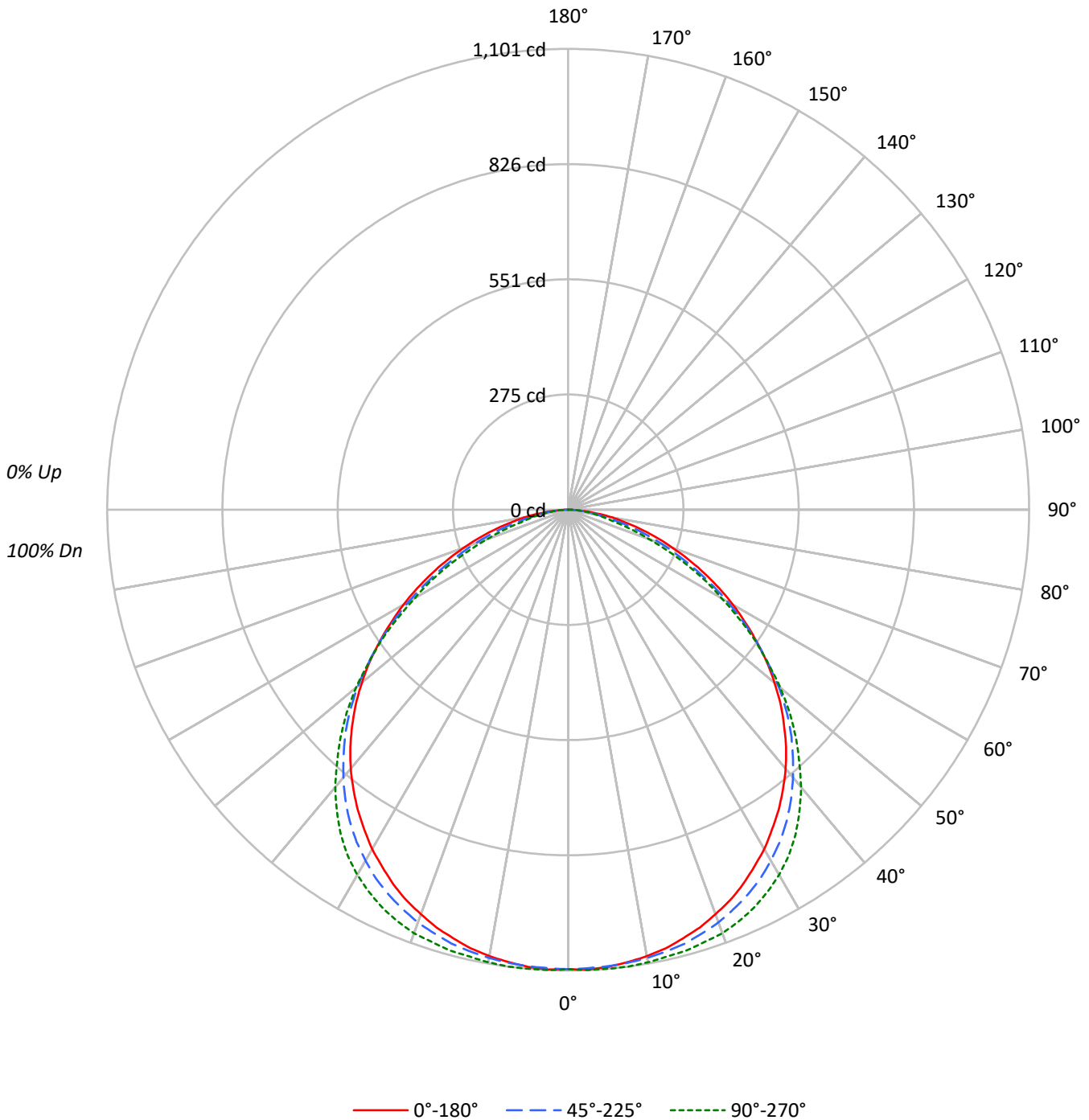
Input Watts (W): 39.897
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2954	2954	2954
5°	2961	2957	2974
10°	2959	2971	3000
15°	2953	2991	3037
20°	2945	3005	3083
25°	2932	3013	3116
30°	2909	3008	3130
35°	2877	2986	3110
40°	2838	2934	3040
45°	2776	2862	2925
50°	2693	2744	2769
55°	2579	2572	2558
60°	2446	2365	2275
65°	2279	2115	2000
70°	2079	1854	1616
75°	1868	1539	1209
80°	1661	1124	1054
85°	1306	932	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	3.4
10°-20°	303.7	10.0
20°-30°	468.7	15.4
30°-40°	568.5	18.7
40°-50°	577.2	19.0
50°-60°	488.3	16.1
60°-70°	330.4	10.9
70°-80°	159.7	5.3
80°-90°	39.0	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°	877.0	28.8
0°-40°	1445.5	47.5
0°-60°	2510.9	82.6
0°-90°	3040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1096	1096	1095	1099	1101	104
15°	1060	1066	1074	1086	1090	299
25°	988	995	1015	1040	1050	455
35°	876	885	909	938	947	548
45°	729	731	752	767	769	562
55°	550	545	548	548	545	491
65°	358	343	332	319	314	355
75°	180	166	148	128	116	191
85°	42	33	30	30	30	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1097.9	1097.9	1097.9	1097.9	1097.9
2.5°	1099.4	1099.4	1096.3	1099.4	1100.9
5°	1096.3	1096.3	1094.8	1099.4	1100.9
7.5°	1090.3	1091.8	1091.8	1097.9	1100.9
10°	1082.8	1085.8	1087.3	1096.3	1097.9
12.5°	1073.7	1076.7	1081.2	1091.8	1093.3
15°	1060.1	1066.1	1073.7	1085.8	1090.3
17.5°	1046.5	1052.6	1061.6	1078.2	1082.8
20°	1028.4	1035.9	1049.5	1069.2	1076.7
22.5°	1010.3	1016.3	1032.9	1057.1	1064.6
25°	987.6	995.2	1014.8	1040.5	1049.5
27.5°	961.9	972.5	993.7	1020.8	1029.9
30°	936.3	945.3	968.0	998.2	1007.2
32.5°	906.1	915.1	940.8	969.5	980.1
35°	875.9	884.9	909.1	937.8	946.8
37.5°	842.6	848.7	874.4	898.5	907.6
40°	807.9	812.4	835.1	859.3	865.3
42.5°	770.2	773.2	794.3	815.5	817.0
45°	729.4	730.9	752.0	767.1	768.6
47.5°	688.6	687.1	705.2	715.8	717.3
50°	643.3	643.3	655.4	661.4	661.4
52.5°	598.0	595.0	601.0	605.6	601.0
55°	549.7	545.2	548.2	548.2	545.2
57.5°	501.4	492.3	493.8	490.8	483.2
60°	454.5	444.0	439.4	428.9	422.8
62.5°	406.2	394.1	385.1	373.0	371.5
65°	357.9	342.8	332.2	318.6	314.1
67.5°	311.1	297.5	282.4	267.3	258.2
70°	264.3	249.2	235.6	215.9	205.4
72.5°	222.0	208.4	191.8	169.1	161.6
75°	179.7	166.1	148.0	128.4	116.3
77.5°	138.9	128.4	108.7	92.1	90.6
80°	107.2	95.1	72.5	68.0	68.0
82.5°	69.5	61.9	51.3	48.3	48.3
85°	42.3	33.2	30.2	30.2	30.2
87.5°	16.6	15.1	15.1	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)