

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: P295760

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295760
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-LD5-35-RDP-UNV-L93050-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: 2776.0 lumens
Efficiency: N/A
Efficacy: 80.7 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

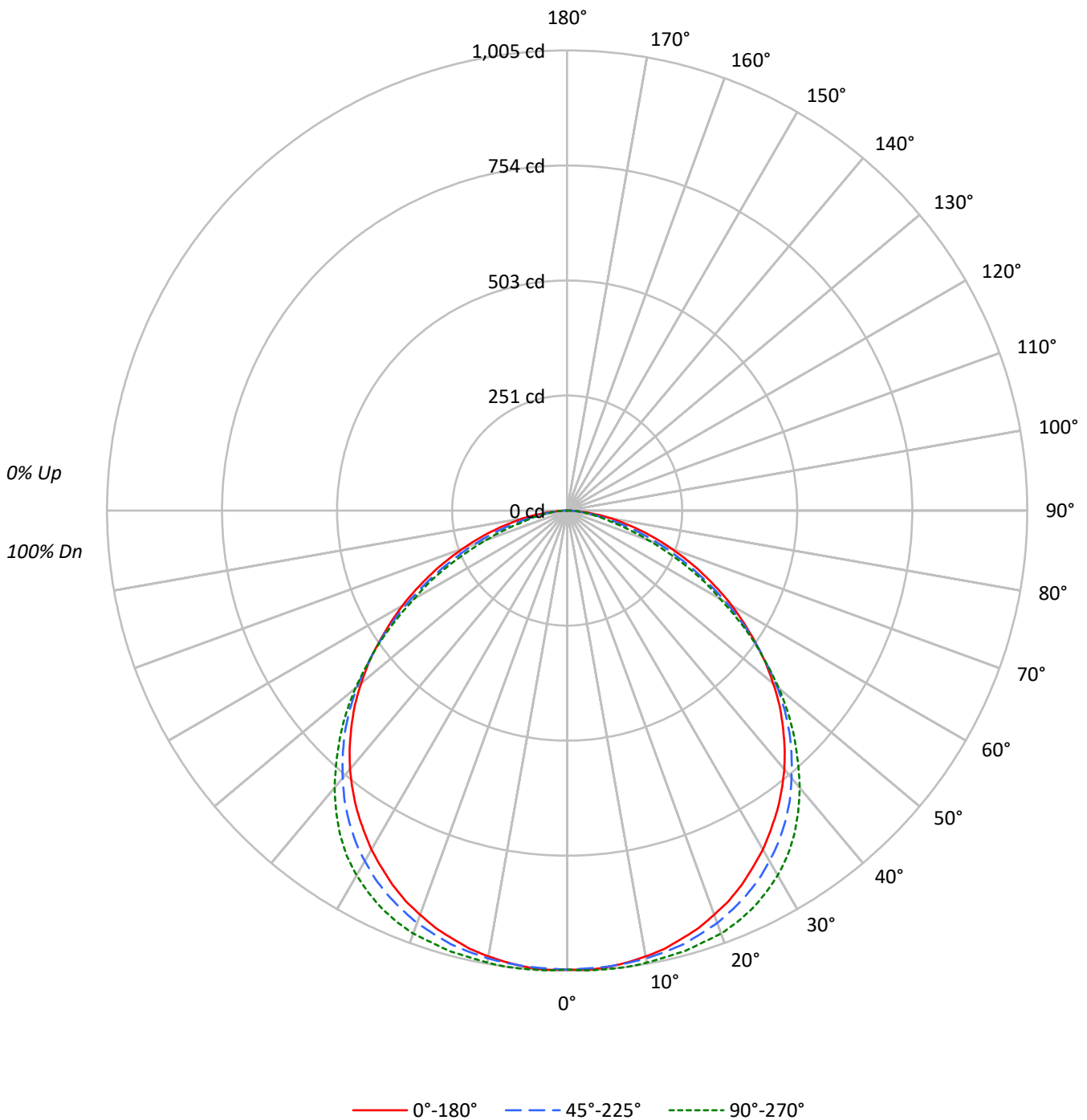
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2698	2698	2698
5°	2704	2701	2716
10°	2702	2713	2739
15°	2697	2732	2774
20°	2689	2745	2816
25°	2678	2752	2846
30°	2657	2747	2858
35°	2627	2727	2840
40°	2592	2679	2776
45°	2535	2613	2671
50°	2459	2506	2529
55°	2355	2349	2335
60°	2234	2160	2078
65°	2081	1932	1826
70°	1899	1692	1475
75°	1706	1405	1104
80°	1517	1026	962
85°	1192	852	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.4
10°-20°	277.3	10.0
20°-30°	428.0	15.4
30°-40°	519.1	18.7
40°-50°	527.1	19.0
50°-60°	445.9	16.1
60°-70°	301.7	10.9
70°-80°	145.9	5.3
80°-90°	35.6	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°	800.8	28.8
0°-40°	1319.9	47.5
0°-60°	2292.9	82.6
0°-90°	2776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1001	1001	1000	1004	1005	95
15°	968	974	980	992	996	273
25°	902	909	927	950	958	415
35°	800	808	830	856	865	500
45°	666	667	687	700	702	514
55°	502	498	501	501	498	449
65°	327	313	303	291	287	324
75°	164	152	135	117	106	175
85°	39	30	28	28	28	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1002.5	1002.5	1002.5	1002.5	1002.5
2.5°	1003.9	1003.9	1001.1	1003.9	1005.3
5°	1001.1	1001.1	999.8	1003.9	1005.3
7.5°	995.6	997.0	997.0	1002.5	1005.3
10°	988.7	991.5	992.9	1001.1	1002.5
12.5°	980.5	983.2	987.3	997.0	998.4
15°	968.0	973.6	980.5	991.5	995.6
17.5°	955.6	961.1	969.4	984.6	988.7
20°	939.1	946.0	958.4	976.3	983.2
22.5°	922.5	928.1	943.2	965.3	972.2
25°	901.8	908.7	926.7	950.1	958.4
27.5°	878.4	888.1	907.4	932.2	940.5
30°	855.0	863.2	883.9	911.5	919.8
32.5°	827.4	835.7	859.1	885.3	895.0
35°	799.8	808.1	830.1	856.3	864.6
37.5°	769.5	775.0	798.4	820.5	828.8
40°	737.8	741.9	762.6	784.6	790.2
42.5°	703.3	706.0	725.3	744.6	746.0
45°	666.0	667.4	686.7	700.5	701.9
47.5°	628.8	627.4	644.0	653.6	655.0
50°	587.4	587.4	598.5	604.0	604.0
52.5°	546.1	543.3	548.8	553.0	548.8
55°	501.9	497.8	500.6	500.6	497.8
57.5°	457.8	449.5	450.9	448.2	441.3
60°	415.1	405.4	401.3	391.6	386.1
62.5°	370.9	359.9	351.6	340.6	339.2
65°	326.8	313.0	303.4	291.0	286.8
67.5°	284.1	271.7	257.9	244.1	235.8
70°	241.3	227.5	215.1	197.2	187.5
72.5°	202.7	190.3	175.1	154.4	147.6
75°	164.1	151.7	135.1	117.2	106.2
77.5°	126.9	117.2	99.3	84.1	82.7
80°	97.9	86.9	66.2	62.1	62.1
82.5°	63.4	56.5	46.9	44.1	44.1
85°	38.6	30.3	27.6	27.6	27.6
87.5°	15.2	13.8	13.8	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)