

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: P295764

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295764
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-3500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2925.0 lumens
Efficiency: N/A
Efficacy: 72.8 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

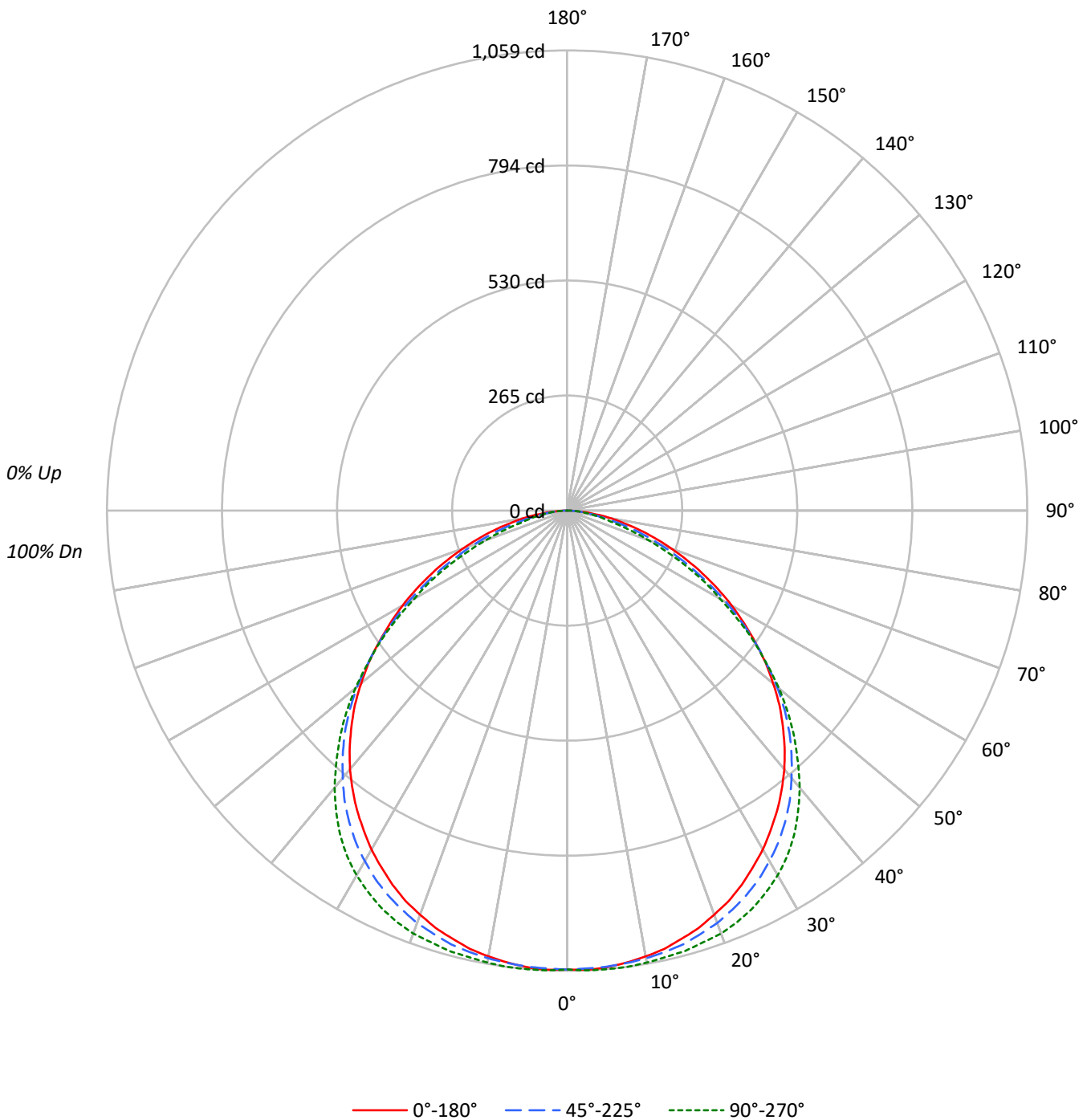
Input Watts (W): 40.176
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2842	2842	2842
5°	2850	2846	2861
10°	2847	2859	2886
15°	2842	2878	2923
20°	2834	2892	2967
25°	2822	2899	2998
30°	2799	2894	3011
35°	2768	2873	2993
40°	2731	2823	2925
45°	2671	2754	2815
50°	2591	2640	2664
55°	2481	2474	2461
60°	2354	2275	2189
65°	2193	2036	1924
70°	2001	1784	1555
75°	1798	1481	1163
80°	1599	1080	1013
85°	1257	898	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	3.4
10°-20°	292.2	10.0
20°-30°	451.0	15.4
30°-40°	547.0	18.7
40°-50°	555.4	19.0
50°-60°	469.8	16.1
60°-70°	317.9	10.9
70°-80°	153.7	5.3
80°-90°	37.5	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°	843.8	28.8
0°-40°	1390.8	47.5
0°-60°	2415.9	82.6
0°-90°	2925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1055	1055	1053	1058	1059	100
15°	1020	1026	1033	1045	1049	288
25°	950	958	976	1001	1010	438
35°	843	852	875	902	911	527
45°	702	703	724	738	740	541
55°	529	524	527	527	524	473
65°	344	330	320	307	302	341
75°	173	160	142	124	112	184
85°	41	32	29	29	29	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.3	1056.3	1056.3	1056.3	1056.3
2.5°	1057.8	1057.8	1054.9	1057.8	1059.2
5°	1054.9	1054.9	1053.4	1057.8	1059.2
7.5°	1049.1	1050.5	1050.5	1056.3	1059.2
10°	1041.8	1044.7	1046.2	1054.9	1056.3
12.5°	1033.1	1036.0	1040.3	1050.5	1052.0
15°	1020.0	1025.8	1033.1	1044.7	1049.1
17.5°	1006.9	1012.7	1021.5	1037.4	1041.8
20°	989.5	996.8	1009.8	1028.7	1036.0
22.5°	972.1	977.9	993.8	1017.1	1024.4
25°	950.3	957.5	976.4	1001.1	1009.8
27.5°	925.6	935.7	956.1	982.2	990.9
30°	900.9	909.6	931.4	960.4	969.1
32.5°	871.8	880.5	905.2	932.8	943.0
35°	842.7	851.5	874.7	902.3	911.0
37.5°	810.8	816.6	841.3	864.5	873.2
40°	777.4	781.7	803.5	826.8	832.6
42.5°	741.0	743.9	764.3	784.6	786.1
45°	701.8	703.2	723.6	738.1	739.6
47.5°	662.6	661.1	678.5	688.7	690.2
50°	619.0	619.0	630.6	636.4	636.4
52.5°	575.4	572.5	578.3	582.6	578.3
55°	528.9	524.5	527.4	527.4	524.5
57.5°	482.4	473.7	475.1	472.2	465.0
60°	437.4	427.2	422.8	412.6	406.8
62.5°	390.9	379.2	370.5	358.9	357.4
65°	344.4	329.8	319.7	306.6	302.2
67.5°	299.3	286.2	271.7	257.2	248.5
70°	254.3	239.7	226.7	207.8	197.6
72.5°	213.6	200.5	184.5	162.7	155.5
75°	172.9	159.8	142.4	123.5	111.9
77.5°	133.7	123.5	104.6	88.6	87.2
80°	103.2	91.5	69.7	65.4	65.4
82.5°	66.8	59.6	49.4	46.5	46.5
85°	40.7	32.0	29.1	29.1	29.1
87.5°	16.0	14.5	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)