

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: P295761

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295761
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-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2825.0 lumens
Efficiency: N/A
Efficacy: 80.8 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

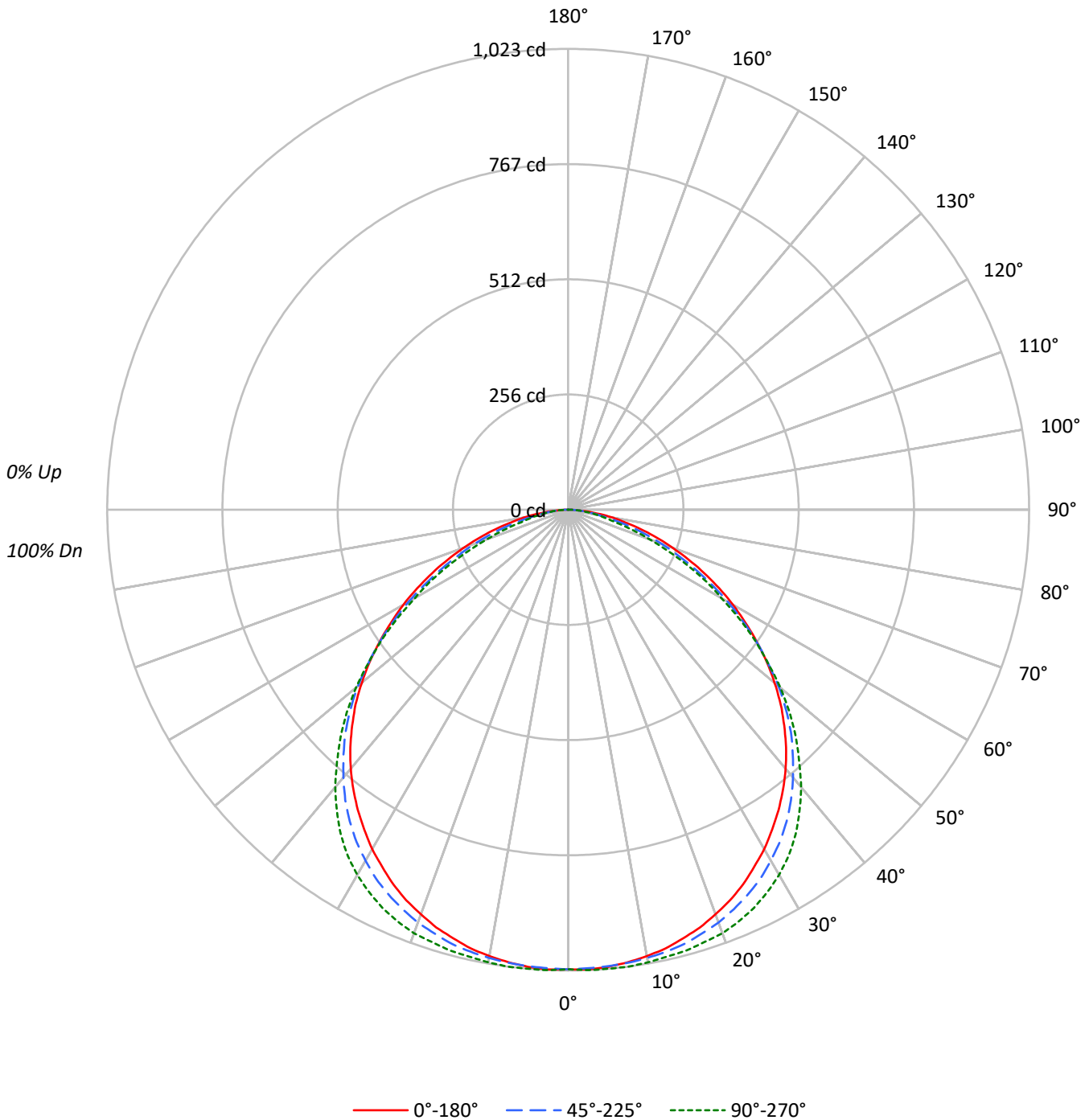
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2745	2745	2745
5°	2752	2748	2763
10°	2749	2761	2788
15°	2744	2780	2823
20°	2737	2793	2865
25°	2725	2800	2896
30°	2704	2795	2908
35°	2674	2775	2891
40°	2637	2726	2825
45°	2579	2660	2718
50°	2503	2550	2573
55°	2396	2390	2377
60°	2273	2198	2115
65°	2118	1966	1859
70°	1932	1722	1502
75°	1736	1430	1124
80°	1543	1044	978
85°	1213	868	868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	3.4
10°-20°	282.2	10.0
20°-30°	435.6	15.4
30°-40°	528.3	18.7
40°-50°	536.4	19.0
50°-60°	453.7	16.1
60°-70°	307.0	10.9
70°-80°	148.4	5.3
80°-90°	36.2	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°	814.9	28.8
0°-40°	1343.2	47.5
0°-60°	2333.4	82.6
0°-90°	2825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1020	1020	1020	1020	1020	
5°	1019	1019	1017	1022	1023	97
15°	985	991	998	1009	1013	278
25°	918	925	943	967	975	423
35°	814	822	845	872	880	509
45°	678	679	699	713	714	523
55°	511	507	509	509	507	457
65°	333	319	309	296	292	330
75°	167	154	138	119	108	178
85°	39	31	28	28	28	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.2	1020.2	1020.2	1020.2	1020.2
2.5°	1021.6	1021.6	1018.8	1021.6	1023.0
5°	1018.8	1018.8	1017.4	1021.6	1023.0
7.5°	1013.2	1014.6	1014.6	1020.2	1023.0
10°	1006.2	1009.0	1010.4	1018.8	1020.2
12.5°	997.8	1000.6	1004.8	1014.6	1016.0
15°	985.1	990.7	997.8	1009.0	1013.2
17.5°	972.5	978.1	986.5	1002.0	1006.2
20°	955.7	962.7	975.3	993.5	1000.6
22.5°	938.8	944.4	959.9	982.3	989.3
25°	917.8	924.8	943.0	966.9	975.3
27.5°	893.9	903.7	923.4	948.6	957.1
30°	870.1	878.5	899.5	927.6	936.0
32.5°	842.0	850.4	874.3	900.9	910.8
35°	813.9	822.3	844.8	871.5	879.9
37.5°	783.1	788.7	812.5	835.0	843.4
40°	750.8	755.0	776.0	798.5	804.1
42.5°	715.7	718.5	738.1	757.8	759.2
45°	677.8	679.2	698.9	712.9	714.3
47.5°	639.9	638.5	655.3	665.2	666.6
50°	597.8	597.8	609.0	614.7	614.7
52.5°	555.7	552.9	558.5	562.7	558.5
55°	510.8	506.6	509.4	509.4	506.6
57.5°	465.9	457.5	458.9	456.1	449.1
60°	422.4	412.6	408.4	398.5	392.9
62.5°	377.5	366.3	357.8	346.6	345.2
65°	332.6	318.6	308.7	296.1	291.9
67.5°	289.1	276.5	262.4	248.4	240.0
70°	245.6	231.5	218.9	200.7	190.9
72.5°	206.3	193.7	178.2	157.2	150.2
75°	167.0	154.4	137.5	119.3	108.1
77.5°	129.1	119.3	101.0	85.6	84.2
80°	99.6	88.4	67.4	63.1	63.1
82.5°	64.6	57.5	47.7	44.9	44.9
85°	39.3	30.9	28.1	28.1	28.1
87.5°	15.4	14.0	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)