

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: P295805

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295805
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-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2804.0 lumens
Efficiency: N/A
Efficacy: 71.8 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

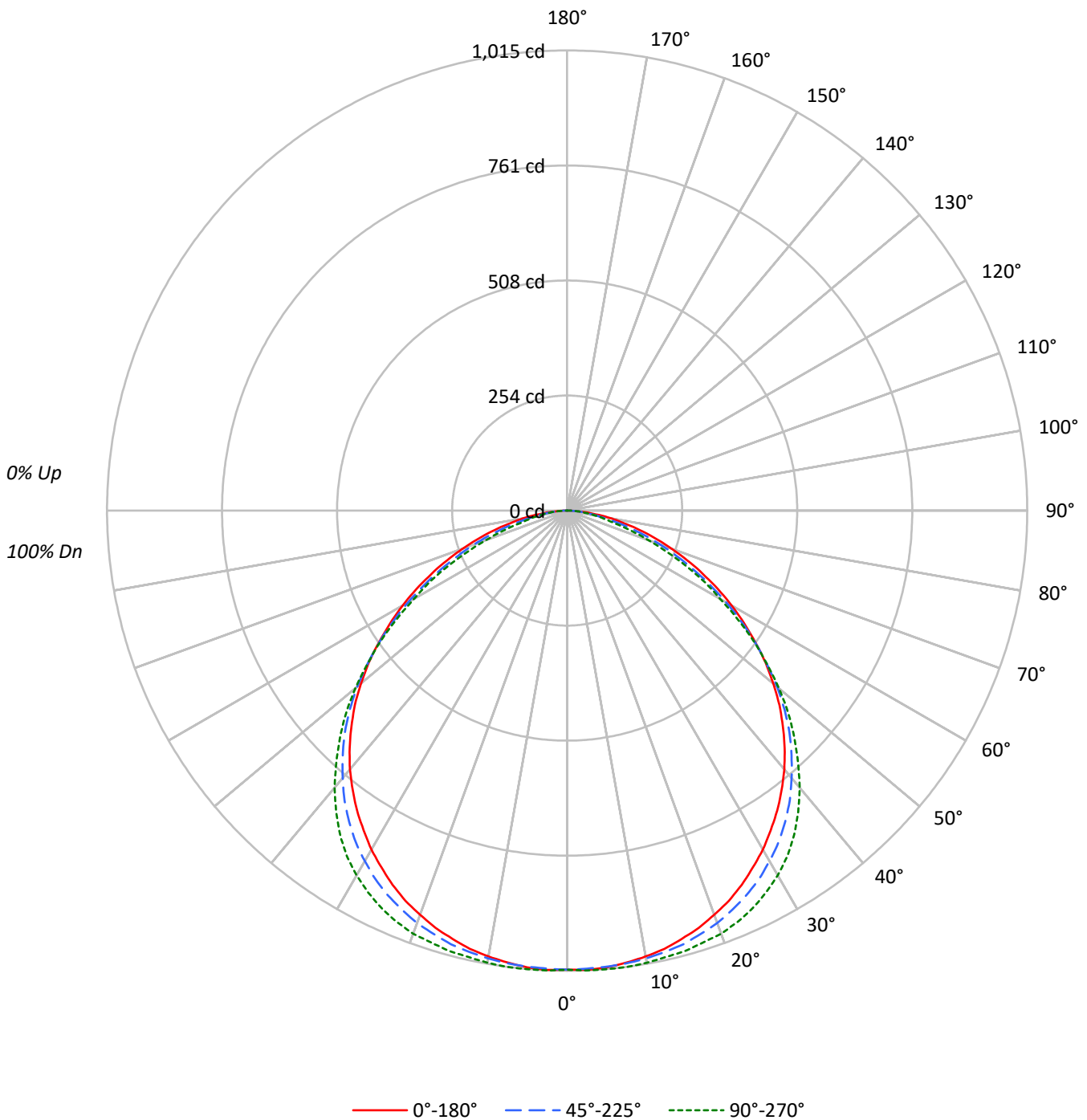
Input Watts (W): 39.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2725	2725	2725
5°	2732	2728	2743
10°	2729	2740	2767
15°	2724	2759	2802
20°	2716	2772	2844
25°	2705	2779	2874
30°	2683	2774	2887
35°	2654	2755	2869
40°	2618	2706	2804
45°	2560	2640	2698
50°	2484	2531	2554
55°	2379	2372	2359
60°	2257	2181	2099
65°	2102	1951	1845
70°	1918	1710	1490
75°	1724	1419	1116
80°	1533	1037	972
85°	1204	861	861



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	3.4
10°-20°	280.1	10.0
20°-30°	432.3	15.4
30°-40°	524.4	18.7
40°-50°	532.4	19.0
50°-60°	450.4	16.1
60°-70°	304.7	10.9
70°-80°	147.3	5.3
80°-90°	36.0	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°	808.9	28.8
0°-40°	1333.3	47.5
0°-60°	2316.0	82.6
0°-90°	2804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2804.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1013	1013	1013	1013	1013	
5°	1011	1011	1010	1014	1015	96
15°	978	983	990	1002	1006	276
25°	911	918	936	960	968	420
35°	808	816	838	865	873	505
45°	673	674	694	708	709	519
55°	507	503	506	506	503	453
65°	330	316	306	294	290	327
75°	166	153	136	118	107	177
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°	1012.6	1012.6	1012.6	1012.6	1012.6
2.5°	1014.0	1014.0	1011.2	1014.0	1015.4
5°	1011.2	1011.2	1009.8	1014.0	1015.4
7.5°	1005.7	1007.1	1007.1	1012.6	1015.4
10°	998.7	1001.5	1002.9	1011.2	1012.6
12.5°	990.3	993.1	997.3	1007.1	1008.4
15°	977.8	983.4	990.3	1001.5	1005.7
17.5°	965.3	970.8	979.2	994.5	998.7
20°	948.6	955.5	968.1	986.2	993.1
22.5°	931.8	937.4	952.7	975.0	982.0
25°	910.9	917.9	936.0	959.7	968.1
27.5°	887.3	897.0	916.5	941.6	949.9
30°	863.6	871.9	892.8	920.7	929.1
32.5°	835.7	844.1	867.8	894.2	904.0
35°	807.9	816.2	838.5	865.0	873.3
37.5°	777.2	782.8	806.5	828.8	837.1
40°	745.2	749.4	770.3	792.6	798.1
42.5°	710.4	713.2	732.7	752.2	753.6
45°	672.8	674.2	693.7	707.6	709.0
47.5°	635.2	633.8	650.5	660.2	661.6
50°	593.4	593.4	604.5	610.1	610.1
52.5°	551.6	548.8	554.4	558.5	554.4
55°	507.0	502.8	505.6	505.6	502.8
57.5°	462.4	454.1	455.5	452.7	445.7
60°	419.3	409.5	405.3	395.6	390.0
62.5°	374.7	363.5	355.2	344.0	342.6
65°	330.1	316.2	306.4	293.9	289.7
67.5°	286.9	274.4	260.5	246.5	238.2
70°	243.8	229.8	217.3	199.2	189.4
72.5°	204.8	192.2	176.9	156.0	149.0
75°	165.8	153.2	136.5	118.4	107.3
77.5°	128.1	118.4	100.3	85.0	83.6
80°	98.9	87.8	66.9	62.7	62.7
82.5°	64.1	57.1	47.4	44.6	44.6
85°	39.0	30.6	27.9	27.9	27.9
87.5°	15.3	13.9	13.9	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)