

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: P295727

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295727
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-L82765-W2A1-U-3500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2954.0 lumens
Efficiency: N/A
Efficacy: 87.5 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

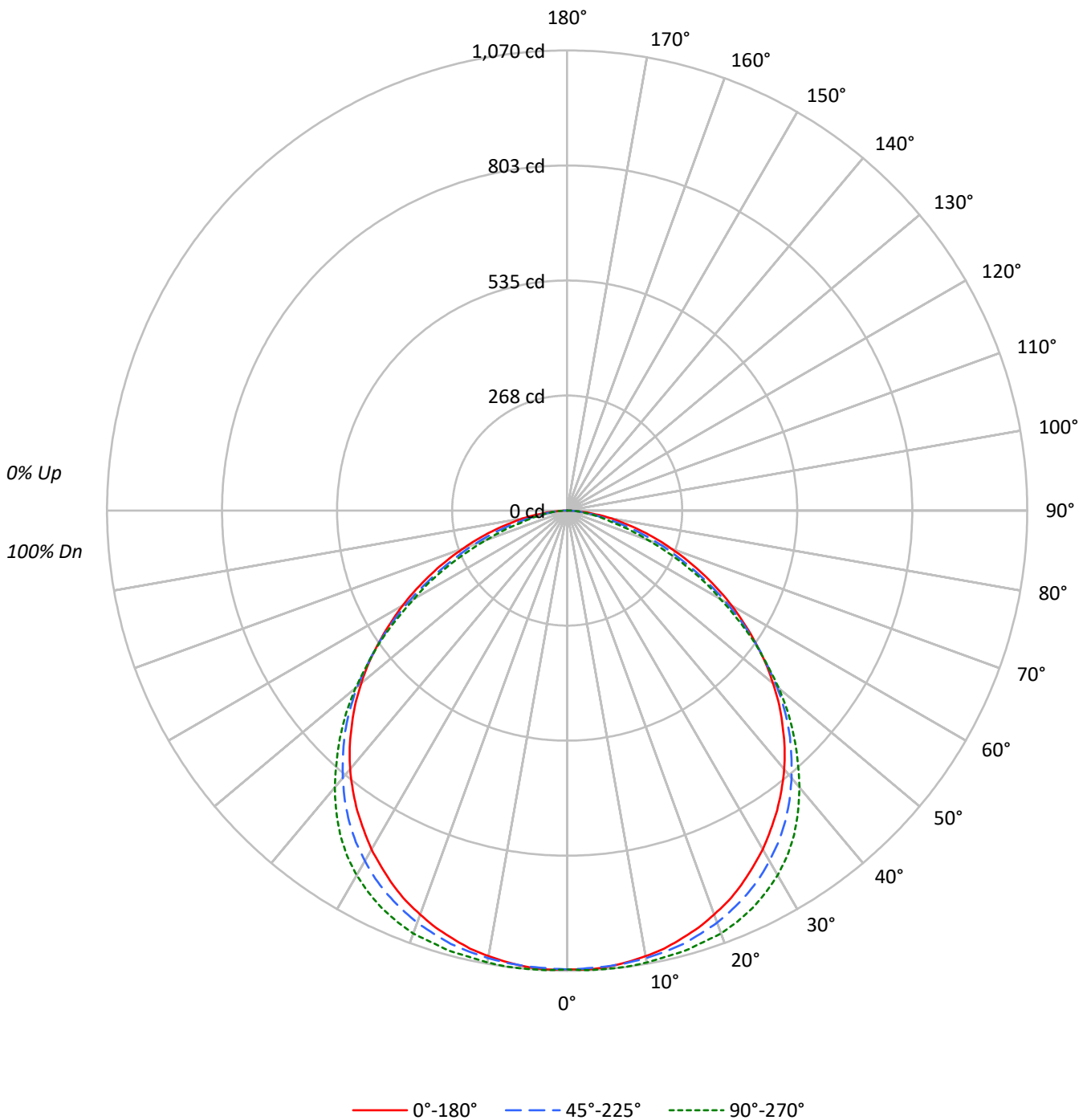
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2871	2871	2871
5°	2878	2874	2890
10°	2875	2887	2915
15°	2870	2907	2952
20°	2862	2920	2996
25°	2850	2928	3028
30°	2827	2923	3041
35°	2796	2902	3023
40°	2758	2851	2954
45°	2697	2781	2842
50°	2617	2666	2691
55°	2506	2499	2485
60°	2377	2298	2211
65°	2215	2055	1943
70°	2020	1801	1570
75°	1815	1495	1175
80°	1615	1091	1023
85°	1269	905	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	3.4
10°-20°	295.1	10.0
20°-30°	455.5	15.4
30°-40°	552.4	18.7
40°-50°	560.9	19.0
50°-60°	474.5	16.1
60°-70°	321.0	10.9
70°-80°	155.2	5.3
80°-90°	37.9	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°	852.2	28.8
0°-40°	1404.6	47.5
0°-60°	2439.9	82.6
0°-90°	2954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2954.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1065	1065	1064	1068	1070	101
15°	1030	1036	1043	1055	1060	291
25°	960	967	986	1011	1020	442
35°	851	860	883	911	920	532
45°	709	710	731	745	747	547
55°	534	530	533	533	530	477
65°	348	333	323	310	305	345
75°	175	161	144	125	113	186
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°	1066.8	1066.8	1066.8	1066.8	1066.8
2.5°	1068.3	1068.3	1065.3	1068.3	1069.7
5°	1065.3	1065.3	1063.9	1068.3	1069.7
7.5°	1059.5	1060.9	1060.9	1066.8	1069.7
10°	1052.1	1055.1	1056.5	1065.3	1066.8
12.5°	1043.3	1046.3	1050.7	1060.9	1062.4
15°	1030.1	1036.0	1043.3	1055.1	1059.5
17.5°	1016.9	1022.8	1031.6	1047.7	1052.1
20°	999.3	1006.6	1019.8	1038.9	1046.3
22.5°	981.7	987.6	1003.7	1027.2	1034.5
25°	959.7	967.0	986.1	1011.0	1019.8
27.5°	934.7	945.0	965.5	992.0	1000.8
30°	909.8	918.6	940.6	969.9	978.8
32.5°	880.4	889.2	914.2	942.1	952.3
35°	851.1	859.9	883.4	911.3	920.1
37.5°	818.8	824.7	849.6	873.1	881.9
40°	785.1	789.5	811.5	834.9	840.8
42.5°	748.4	751.3	771.9	792.4	793.9
45°	708.8	710.2	730.8	745.4	746.9
47.5°	669.1	667.7	685.3	695.5	697.0
50°	625.1	625.1	636.9	642.7	642.7
52.5°	581.1	578.2	584.0	588.4	584.0
55°	534.1	529.7	532.7	532.7	529.7
57.5°	487.2	478.4	479.8	476.9	469.6
60°	441.7	431.4	427.0	416.7	410.9
62.5°	394.7	383.0	374.2	362.4	361.0
65°	347.8	333.1	322.8	309.6	305.2
67.5°	302.3	289.1	274.4	259.7	250.9
70°	256.8	242.1	228.9	209.8	199.6
72.5°	215.7	202.5	186.4	164.3	157.0
75°	174.6	161.4	143.8	124.7	113.0
77.5°	135.0	124.7	105.7	89.5	88.0
80°	104.2	92.4	70.4	66.0	66.0
82.5°	67.5	60.2	49.9	47.0	47.0
85°	41.1	32.3	29.3	29.3	29.3
87.5°	16.1	14.7	14.7	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)