

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: P295759

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295759
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-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: 2571.0 lumens
Efficiency: N/A
Efficacy: 75.1 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

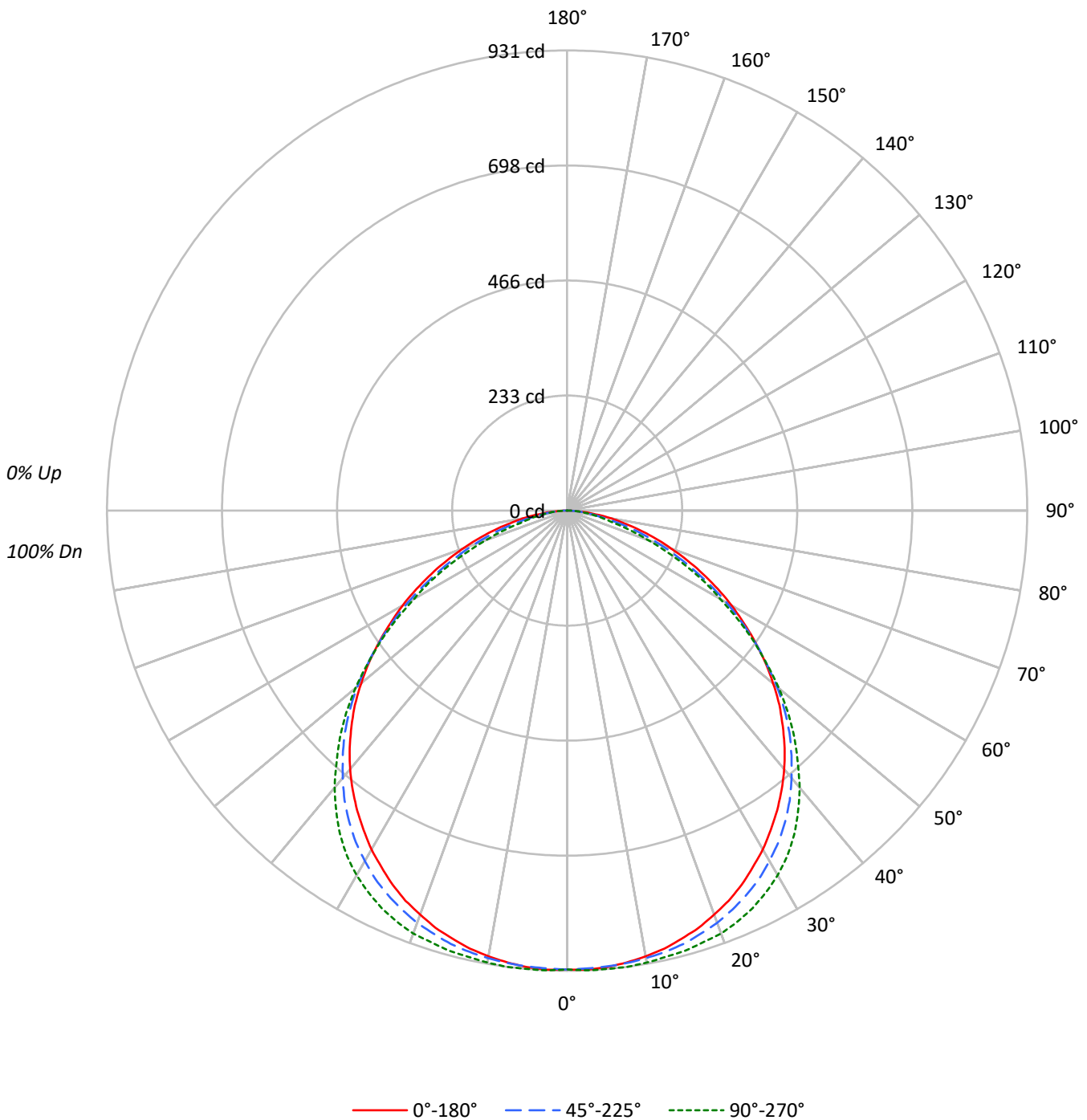
Input Watts (W): 34.224
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2499	2499	2499
5°	2505	2501	2515
10°	2502	2513	2537
15°	2498	2530	2569
20°	2491	2542	2608
25°	2480	2548	2635
30°	2460	2544	2647
35°	2433	2526	2631
40°	2400	2481	2571
45°	2348	2420	2474
50°	2278	2321	2342
55°	2181	2175	2163
60°	2069	2000	1925
65°	1927	1789	1691
70°	1758	1567	1367
75°	1580	1302	1022
80°	1406	950	891
85°	1105	787	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	3.4
10°-20°	256.9	10.0
20°-30°	396.4	15.4
30°-40°	480.8	18.7
40°-50°	488.2	19.0
50°-60°	412.9	16.1
60°-70°	279.4	10.9
70°-80°	135.1	5.3
80°-90°	33.0	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°	741.7	28.8
0°-40°	1222.5	47.5
0°-60°	2123.6	82.6
0°-90°	2571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	927	927	926	930	931	88
15°	897	902	908	918	922	253
25°	835	842	858	880	888	385
35°	741	748	769	793	801	463
45°	617	618	636	649	650	476
55°	465	461	464	464	461	416
65°	303	290	281	270	266	300
75°	152	140	125	109	98	162
85°	36	28	26	26	26	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	928.5	928.5	928.5	928.5	928.5
2.5°	929.8	929.8	927.2	929.8	931.0
5°	927.2	927.2	925.9	929.8	931.0
7.5°	922.1	923.4	923.4	928.5	931.0
10°	915.7	918.3	919.5	927.2	928.5
12.5°	908.0	910.6	914.4	923.4	924.7
15°	896.6	901.7	908.0	918.3	922.1
17.5°	885.1	890.2	897.8	911.9	915.7
20°	869.7	876.1	887.6	904.2	910.6
22.5°	854.4	859.5	873.6	894.0	900.4
25°	835.3	841.6	858.2	880.0	887.6
27.5°	813.5	822.5	840.4	863.3	871.0
30°	791.8	799.5	818.6	844.2	851.9
32.5°	766.3	773.9	795.7	819.9	828.9
35°	740.7	748.4	768.8	793.1	800.8
37.5°	712.6	717.8	739.5	759.9	767.6
40°	683.3	687.1	706.3	726.7	731.8
42.5°	651.3	653.9	671.8	689.7	690.9
45°	616.9	618.1	636.0	648.8	650.1
47.5°	582.4	581.1	596.4	605.4	606.6
50°	544.1	544.1	554.3	559.4	559.4
52.5°	505.7	503.2	508.3	512.1	508.3
55°	464.9	461.0	463.6	463.6	461.0
57.5°	424.0	416.3	417.6	415.1	408.7
60°	384.4	375.5	371.6	362.7	357.6
62.5°	343.6	333.3	325.7	315.5	314.2
65°	302.7	289.9	281.0	269.5	265.6
67.5°	263.1	251.6	238.8	226.1	218.4
70°	223.5	210.7	199.2	182.6	173.7
72.5°	187.7	176.2	162.2	143.0	136.7
75°	152.0	140.5	125.2	108.6	98.3
77.5°	117.5	108.6	92.0	77.9	76.6
80°	90.7	80.5	61.3	57.5	57.5
82.5°	58.7	52.4	43.4	40.9	40.9
85°	35.8	28.1	25.5	25.5	25.5
87.5°	14.0	12.8	12.8	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)