

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: P295684

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295684
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-LD5-31-RDP-UNV-L83050-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: 2647.0 lumens
Efficiency: N/A
Efficacy: 93.6 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

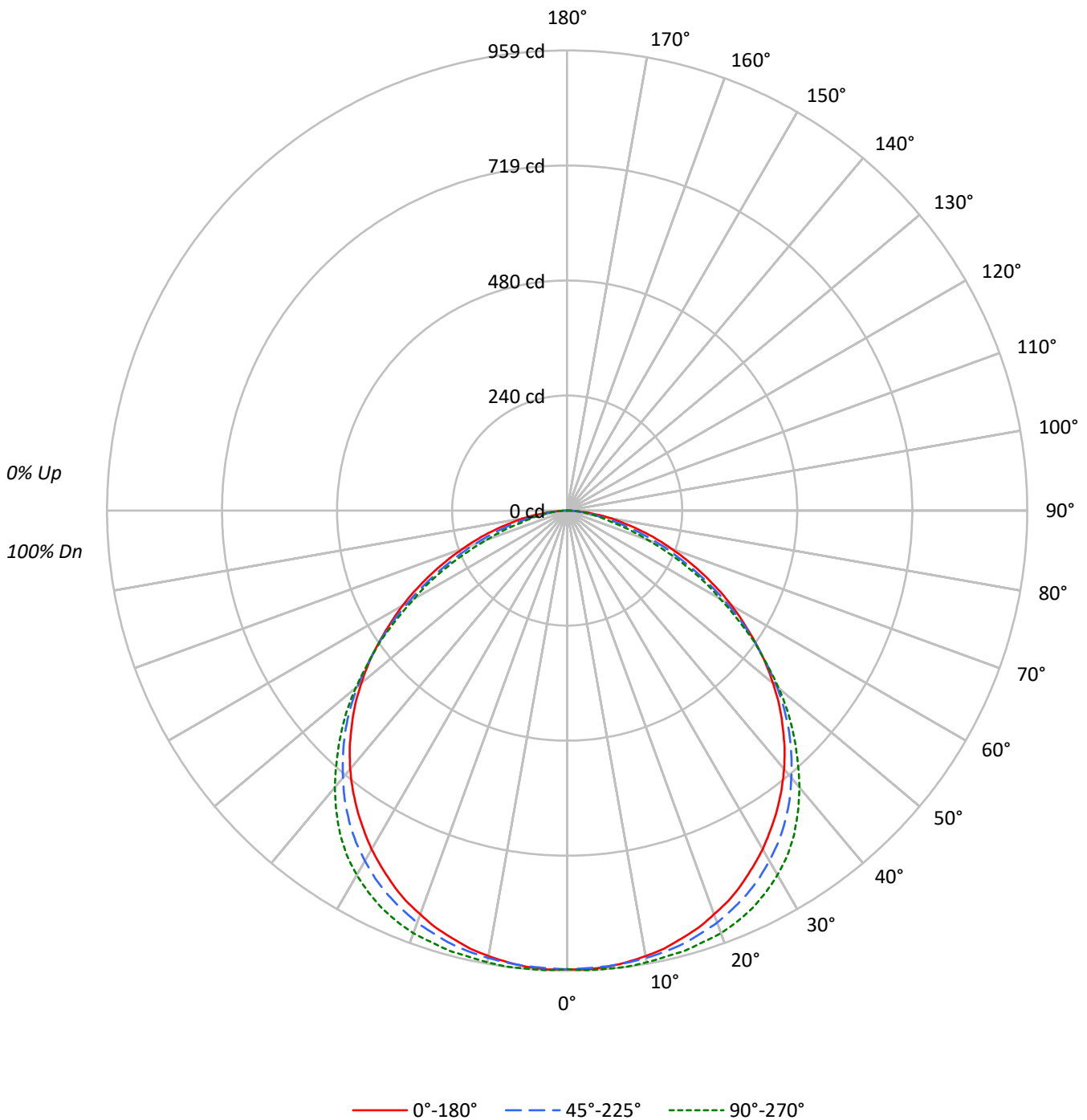
Input Watts (W): 28.272
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2572	2572	2572
5°	2579	2575	2589
10°	2576	2587	2612
15°	2572	2605	2645
20°	2564	2617	2685
25°	2553	2624	2714
30°	2533	2619	2725
35°	2505	2600	2708
40°	2471	2554	2647
45°	2417	2492	2547
50°	2345	2389	2411
55°	2245	2239	2227
60°	2130	2059	1982
65°	1984	1842	1741
70°	1810	1614	1407
75°	1627	1340	1052
80°	1447	978	917
85°	1136	812	812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	3.4
10°-20°	264.5	10.0
20°-30°	408.1	15.4
30°-40°	495.0	18.7
40°-50°	502.6	19.0
50°-60°	425.2	16.1
60°-70°	287.6	10.9
70°-80°	139.1	5.3
80°-90°	33.9	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°	763.6	28.8
0°-40°	1258.6	47.5
0°-60°	2186.3	82.6
0°-90°	2647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	955	955	953	957	959	91
15°	923	928	935	945	949	261
25°	860	866	884	906	914	396
35°	763	770	792	816	824	477
45°	635	636	655	668	669	490
55°	479	475	477	477	475	428
65°	312	298	289	277	274	309
75°	156	145	129	112	101	167
85°	37	29	26	26	26	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	955.9	955.9	955.9	955.9	955.9
2.5°	957.2	957.2	954.6	957.2	958.6
5°	954.6	954.6	953.3	957.2	958.6
7.5°	949.4	950.7	950.7	955.9	958.6
10°	942.8	945.4	946.7	954.6	955.9
12.5°	934.9	937.5	941.5	950.7	952.0
15°	923.1	928.3	934.9	945.4	949.4
17.5°	911.2	916.5	924.4	938.8	942.8
20°	895.4	902.0	913.9	930.9	937.5
22.5°	879.7	884.9	899.4	920.4	927.0
25°	859.9	866.5	883.6	906.0	913.9
27.5°	837.6	846.8	865.2	888.9	896.8
30°	815.2	823.1	842.8	869.1	877.0
32.5°	788.9	796.8	819.2	844.2	853.4
35°	762.6	770.5	791.6	816.5	824.4
37.5°	733.7	739.0	761.3	782.4	790.3
40°	703.5	707.4	727.1	748.2	753.4
42.5°	670.6	673.2	691.6	710.0	711.4
45°	635.1	636.4	654.8	668.0	669.3
47.5°	599.6	598.3	614.1	623.3	624.6
50°	560.1	560.1	570.7	575.9	575.9
52.5°	520.7	518.1	523.3	527.3	523.3
55°	478.6	474.7	477.3	477.3	474.7
57.5°	436.5	428.7	430.0	427.3	420.8
60°	395.8	386.6	382.6	373.4	368.2
62.5°	353.7	343.2	335.3	324.8	323.5
65°	311.6	298.5	289.3	277.4	273.5
67.5°	270.9	259.0	245.9	232.7	224.8
70°	230.1	217.0	205.1	188.0	178.8
72.5°	193.3	181.5	167.0	147.3	140.7
75°	156.5	144.6	128.9	111.8	101.2
77.5°	121.0	111.8	94.7	80.2	78.9
80°	93.4	82.8	63.1	59.2	59.2
82.5°	60.5	53.9	44.7	42.1	42.1
85°	36.8	28.9	26.3	26.3	26.3
87.5°	14.5	13.1	13.1	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)