

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: P295683

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295683
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-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2501.0 lumens
Efficiency: N/A
Efficacy: 88.8 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

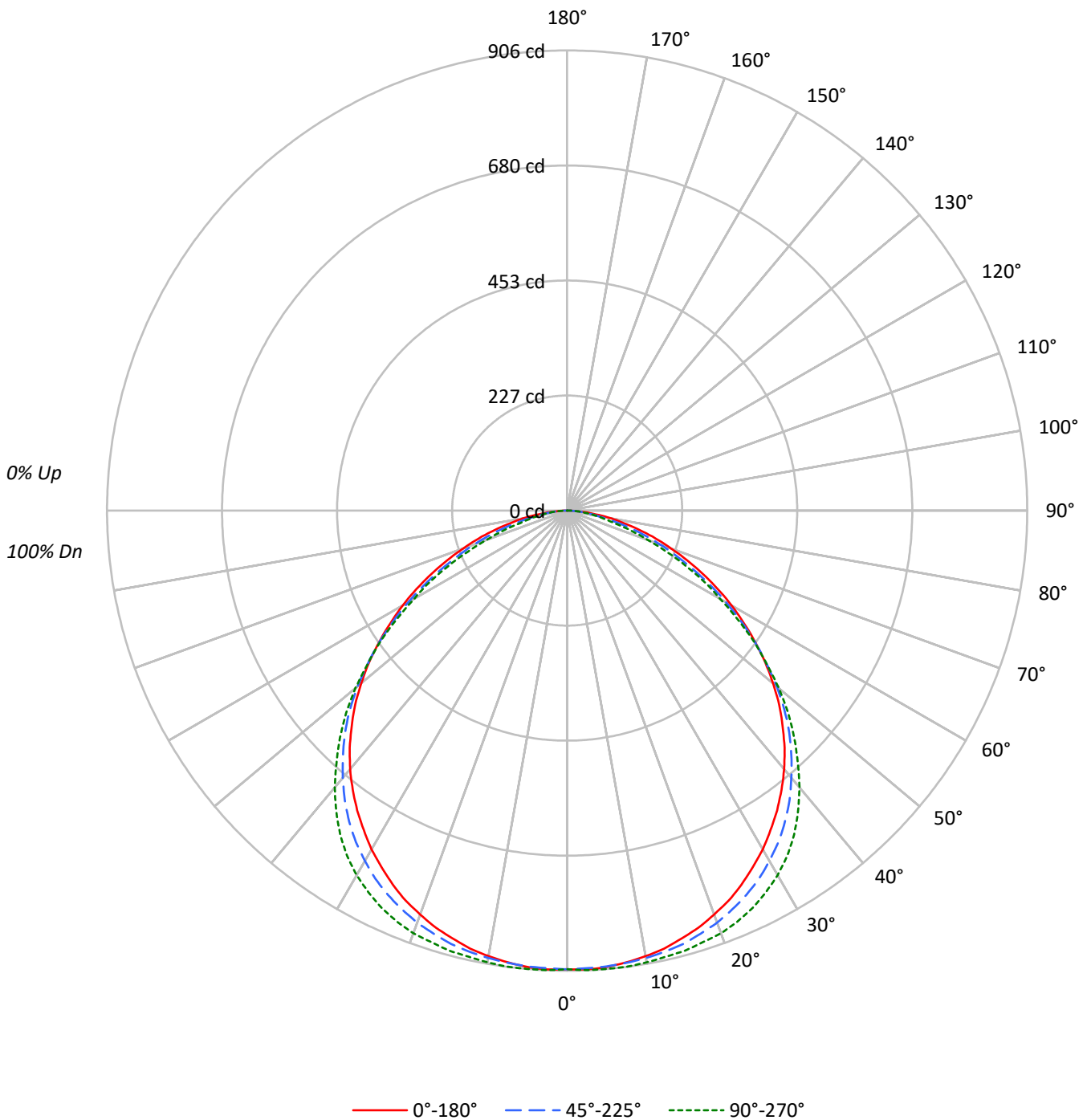
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	2430	2430	2430
5°	2437	2433	2447
10°	2434	2444	2468
15°	2430	2461	2499
20°	2423	2473	2537
25°	2412	2479	2564
30°	2394	2475	2575
35°	2367	2457	2559
40°	2335	2413	2501
45°	2284	2355	2407
50°	2215	2257	2278
55°	2122	2116	2104
60°	2013	1946	1872
65°	1875	1740	1645
70°	1710	1525	1330
75°	1537	1266	995
80°	1367	924	866
85°	1074	766	766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	3.4
10°-20°	249.9	10.0
20°-30°	385.6	15.4
30°-40°	467.7	18.7
40°-50°	474.9	19.0
50°-60°	401.7	16.1
60°-70°	271.8	10.9
70°-80°	131.4	5.3
80°-90°	32.0	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°	721.5	28.8
0°-40°	1189.2	47.5
0°-60°	2065.8	82.6
0°-90°	2501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2501.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	902	902	901	904	906	86
15°	872	877	883	893	897	246
25°	812	819	835	856	863	374
35°	721	728	748	772	779	450
45°	600	601	619	631	632	463
55°	452	448	451	451	448	404
65°	294	282	273	262	258	292
75°	148	137	122	106	96	158
85°	35	27	25	25	25	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	903.2	903.2	903.2	903.2	903.2
2.5°	904.4	904.4	902.0	904.4	905.7
5°	902.0	902.0	900.7	904.4	905.7
7.5°	897.0	898.2	898.2	903.2	905.7
10°	890.8	893.3	894.5	902.0	903.2
12.5°	883.3	885.8	889.5	898.2	899.5
15°	872.1	877.1	883.3	893.3	897.0
17.5°	861.0	865.9	873.4	887.1	890.8
20°	846.1	852.3	863.4	879.6	885.8
22.5°	831.1	836.1	849.8	869.7	875.9
25°	812.5	818.7	834.9	856.0	863.4
27.5°	791.4	800.1	817.5	839.8	847.3
30°	770.3	777.7	796.4	821.2	828.7
32.5°	745.4	752.9	774.0	797.6	806.3
35°	720.6	728.0	747.9	771.5	779.0
37.5°	693.2	698.2	719.3	739.2	746.7
40°	664.7	668.4	687.0	706.9	711.9
42.5°	633.6	636.1	653.5	670.9	672.1
45°	600.1	601.3	618.7	631.1	632.4
47.5°	566.5	565.3	580.2	588.9	590.1
50°	529.2	529.2	539.2	544.2	544.2
52.5°	492.0	489.5	494.5	498.2	494.5
55°	452.2	448.5	451.0	451.0	448.5
57.5°	412.5	405.0	406.3	403.8	397.6
60°	374.0	365.3	361.5	352.8	347.9
62.5°	334.2	324.3	316.8	306.9	305.6
65°	294.4	282.0	273.3	262.1	258.4
67.5°	255.9	244.7	232.3	219.9	212.4
70°	217.4	205.0	193.8	177.7	169.0
72.5°	182.6	171.4	157.8	139.1	132.9
75°	147.8	136.7	121.8	105.6	95.7
77.5°	114.3	105.6	89.5	75.8	74.5
80°	88.2	78.3	59.6	55.9	55.9
82.5°	57.1	50.9	42.2	39.8	39.8
85°	34.8	27.3	24.8	24.8	24.8
87.5°	13.7	12.4	12.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)