

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: P295743

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295743
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-LD5-23-RDP-UNV-L93050-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: 1562.0 lumens
Efficiency: N/A
Efficacy: 74.0 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

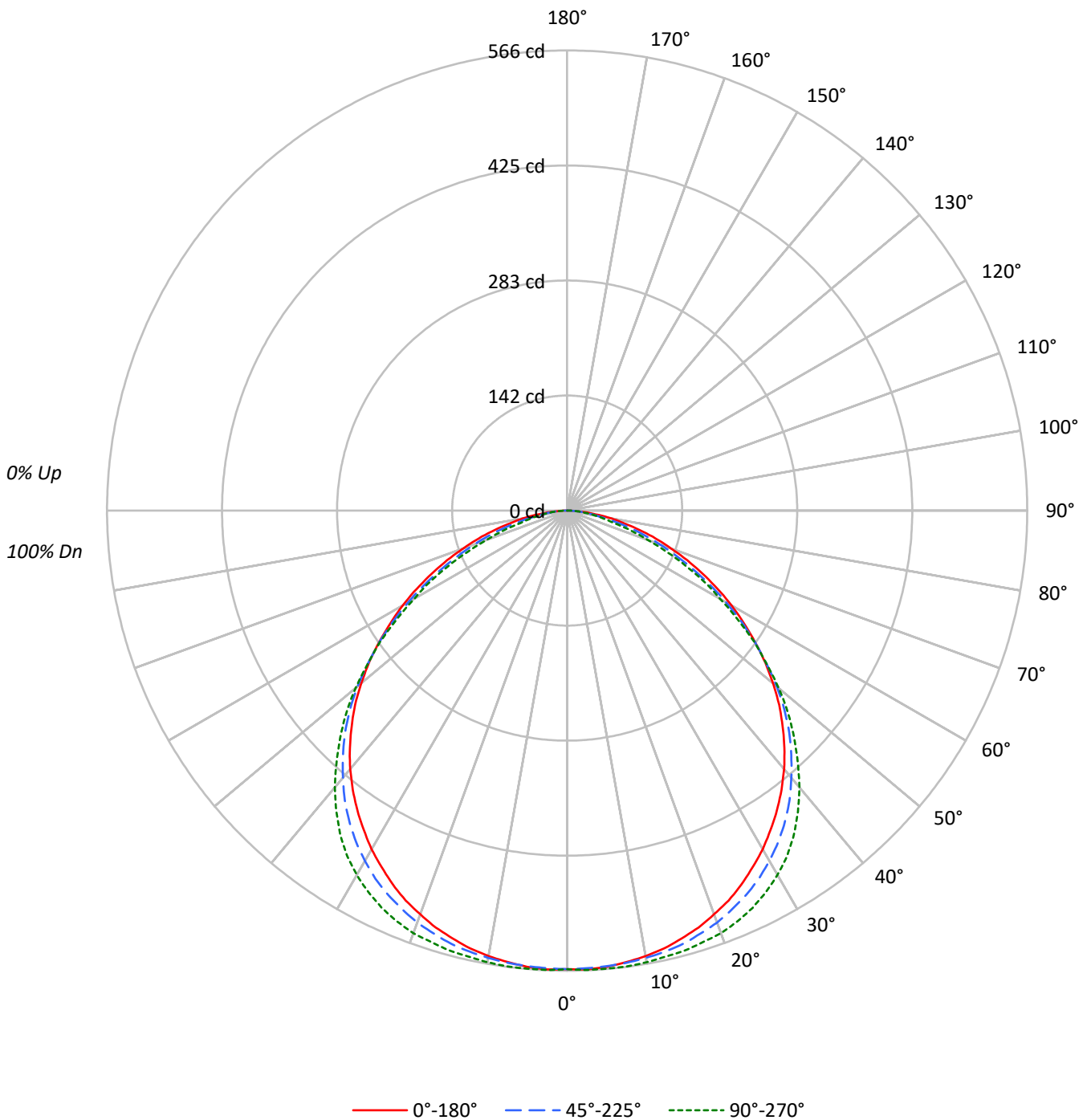
Input Watts (W): 21.111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1518	1518	1518
5°	1522	1519	1528
10°	1520	1527	1541
15°	1517	1537	1561
20°	1513	1544	1584
25°	1507	1548	1601
30°	1495	1546	1608
35°	1478	1534	1598
40°	1458	1507	1562
45°	1426	1470	1503
50°	1384	1410	1423
55°	1325	1322	1314
60°	1257	1215	1169
65°	1171	1087	1028
70°	1068	952	830
75°	960	790	621
80°	854	576	541
85°	670	479	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	3.4
10°-20°	156.1	10.0
20°-30°	240.8	15.4
30°-40°	292.1	18.7
40°-50°	296.6	19.0
50°-60°	250.9	16.1
60°-70°	169.7	10.9
70°-80°	82.1	5.3
80°-90°	20.0	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°	450.6	28.8
0°-40°	742.7	47.5
0°-60°	1290.2	82.6
0°-90°	1562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	563	563	562	565	566	54
15°	545	548	552	558	560	154
25°	508	511	521	535	539	234
35°	450	455	467	482	486	281
45°	375	376	386	394	395	289
55°	282	280	282	282	280	252
65°	184	176	171	164	161	182
75°	92	85	76	66	60	98
85°	22	17	16	16	16	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	564.1	564.1	564.1	564.1	564.1
2.5°	564.9	564.9	563.3	564.9	565.6
5°	563.3	563.3	562.5	564.9	565.6
7.5°	560.2	561.0	561.0	564.1	565.6
10°	556.3	557.9	558.7	563.3	564.1
12.5°	551.7	553.2	555.6	561.0	561.8
15°	544.7	547.8	551.7	557.9	560.2
17.5°	537.7	540.8	545.5	554.0	556.3
20°	528.4	532.3	539.3	549.4	553.2
22.5°	519.1	522.2	530.7	543.1	547.0
25°	507.5	511.3	521.4	534.6	539.3
27.5°	494.3	499.7	510.6	524.5	529.2
30°	481.1	485.7	497.4	512.9	517.5
32.5°	465.6	470.2	483.4	498.1	503.6
35°	450.0	454.7	467.1	481.8	486.5
37.5°	433.0	436.1	449.3	461.7	466.3
40°	415.1	417.4	429.1	441.5	444.6
42.5°	395.7	397.3	408.1	419.0	419.8
45°	374.8	375.5	386.4	394.2	394.9
47.5°	353.8	353.0	362.4	367.8	368.6
50°	330.5	330.5	336.8	339.9	339.9
52.5°	307.3	305.7	308.8	311.1	308.8
55°	282.4	280.1	281.7	281.7	280.1
57.5°	257.6	253.0	253.7	252.2	248.3
60°	233.6	228.1	225.8	220.4	217.3
62.5°	208.7	202.5	197.9	191.7	190.9
65°	183.9	176.1	170.7	163.7	161.4
67.5°	159.8	152.9	145.1	137.3	132.7
70°	135.8	128.0	121.0	111.0	105.5
72.5°	114.1	107.1	98.5	86.9	83.0
75°	92.3	85.4	76.0	66.0	59.7
77.5°	71.4	66.0	55.9	47.3	46.6
80°	55.1	48.9	37.2	34.9	34.9
82.5°	35.7	31.8	26.4	24.8	24.8
85°	21.7	17.1	15.5	15.5	15.5
87.5°	8.5	7.8	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)