

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: P295748

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295748
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-LD5-26-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: 1763.0 lumens
Efficiency: N/A
Efficacy: 72.4 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

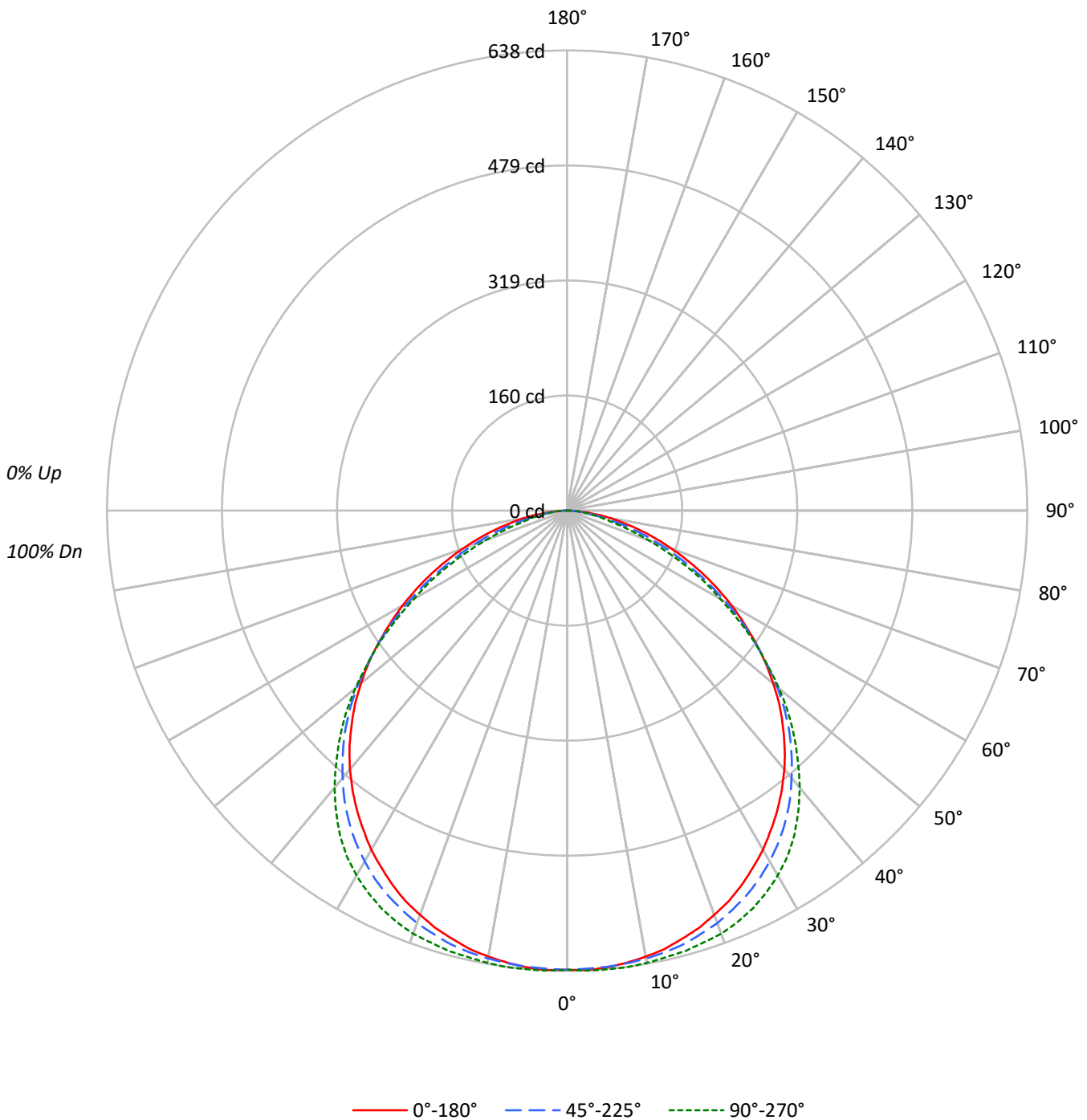
Input Watts (W): 24.366
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1713	1713	1713
5°	1717	1715	1724
10°	1716	1723	1740
15°	1713	1735	1762
20°	1708	1743	1788
25°	1701	1747	1807
30°	1687	1744	1815
35°	1668	1732	1804
40°	1646	1701	1763
45°	1610	1660	1697
50°	1562	1591	1606
55°	1496	1491	1483
60°	1419	1371	1320
65°	1322	1227	1160
70°	1206	1075	937
75°	1083	892	701
80°	964	651	611
85°	756	540	540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	3.4
10°-20°	176.1	10.0
20°-30°	271.8	15.4
30°-40°	329.7	18.7
40°-50°	334.7	19.0
50°-60°	283.2	16.1
60°-70°	191.6	10.9
70°-80°	92.6	5.3
80°-90°	22.6	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°	508.6	28.8
0°-40°	838.3	47.5
0°-60°	1456.2	82.6
0°-90°	1763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1763.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	636	636	635	638	638	60
15°	615	618	623	630	632	174
25°	573	577	588	603	609	264
35°	508	513	527	544	549	318
45°	423	424	436	445	446	326
55°	319	316	318	318	316	285
65°	208	199	193	185	182	206
75°	104	96	86	74	67	111
85°	24	19	18	18	18	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	636.7	636.7	636.7	636.7	636.7
2.5°	637.6	637.6	635.8	637.6	638.4
5°	635.8	635.8	634.9	637.6	638.4
7.5°	632.3	633.2	633.2	636.7	638.4
10°	627.9	629.7	630.6	635.8	636.7
12.5°	622.7	624.4	627.1	633.2	634.1
15°	614.8	618.3	622.7	629.7	632.3
17.5°	606.9	610.4	615.7	625.3	627.9
20°	596.4	600.8	608.7	620.0	624.4
22.5°	585.9	589.4	599.0	613.0	617.4
25°	572.8	577.1	588.5	603.4	608.7
27.5°	557.9	564.0	576.3	592.0	597.3
30°	543.0	548.2	561.4	578.9	584.1
32.5°	525.5	530.7	545.6	562.2	568.4
35°	507.9	513.2	527.2	543.9	549.1
37.5°	488.7	492.2	507.1	521.1	526.3
40°	468.5	471.2	484.3	498.3	501.8
42.5°	446.6	448.4	460.7	472.9	473.8
45°	423.0	423.9	436.1	444.9	445.8
47.5°	399.4	398.5	409.0	415.1	416.0
50°	373.1	373.1	380.1	383.6	383.6
52.5°	346.8	345.1	348.6	351.2	348.6
55°	318.8	316.2	317.9	317.9	316.2
57.5°	290.8	285.5	286.4	284.6	280.2
60°	263.6	257.5	254.8	248.7	245.2
62.5°	235.6	228.6	223.3	216.3	215.4
65°	207.6	198.8	192.7	184.8	182.2
67.5°	180.4	172.5	163.8	155.0	149.8
70°	153.3	144.5	136.6	125.2	119.1
72.5°	128.7	120.9	111.2	98.1	93.7
75°	104.2	96.3	85.8	74.4	67.4
77.5°	80.6	74.4	63.1	53.4	52.5
80°	62.2	55.2	42.0	39.4	39.4
82.5°	40.3	35.9	29.8	28.0	28.0
85°	24.5	19.3	17.5	17.5	17.5
87.5°	9.6	8.8	8.8	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)