

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: P295974

Luminaire Tested: **24RLN-LD5-50-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-50-UNV-L93050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4242.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

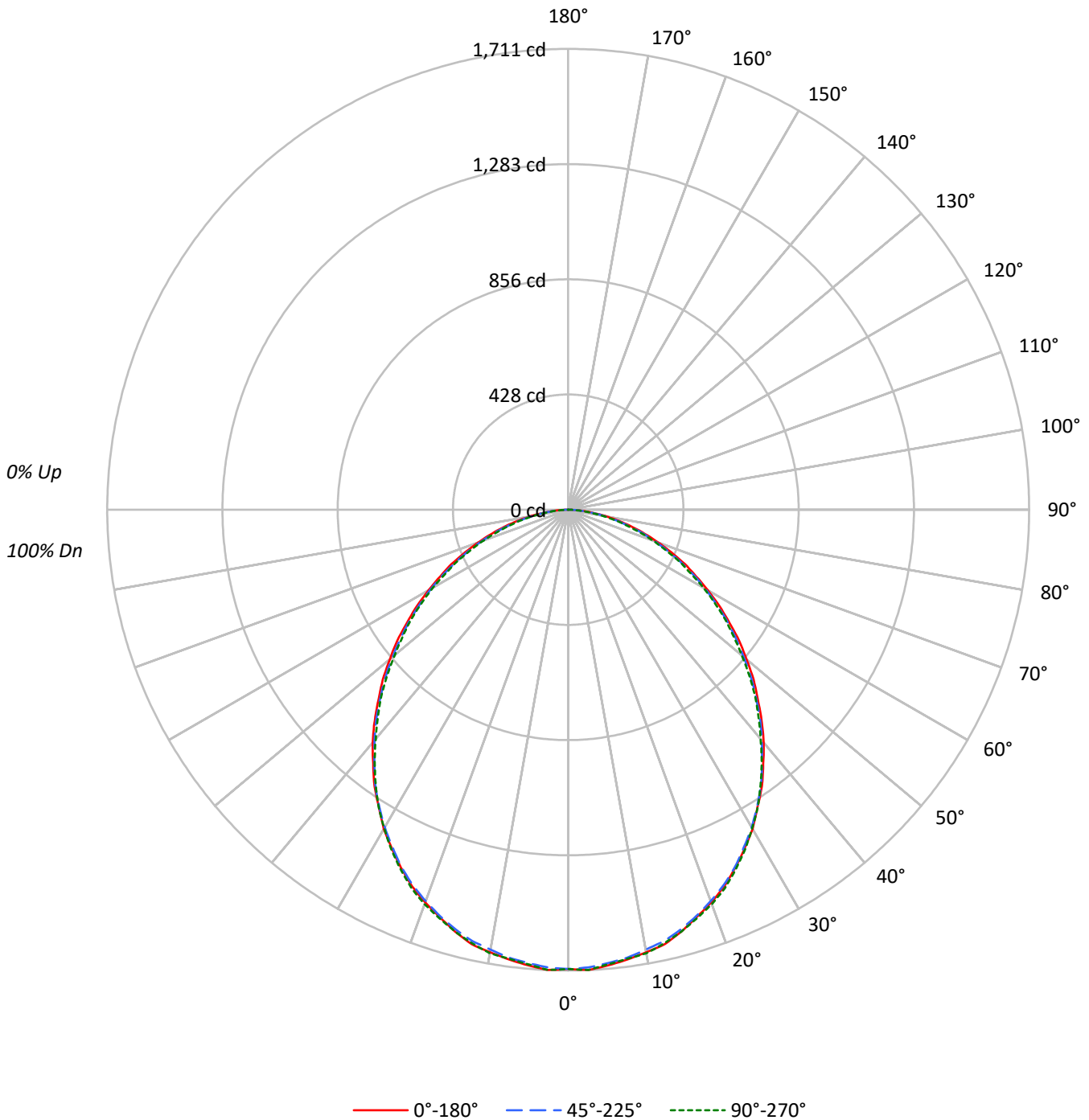
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2294	2294	2294
5°	2294	2283	2288
10°	2279	2266	2285
15°	2259	2248	2259
20°	2222	2214	2232
25°	2178	2174	2186
30°	2126	2116	2122
35°	2059	2050	2045
40°	1983	1964	1952
45°	1893	1875	1867
50°	1807	1779	1759
55°	1711	1685	1669
60°	1609	1580	1561
65°	1521	1464	1451
70°	1394	1341	1314
75°	1280	1202	1153
80°	1124	1050	986
85°	908	844	718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	3.8
10°-20°	456.1	10.8
20°-30°	674.7	15.9
30°-40°	778.7	18.4
40°-50°	760.5	17.9
50°-60°	642.2	15.1
60°-70°	457.4	10.8
70°-80°	247.7	5.8
80°-90°	63.9	1.5
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°	1291.7	30.4
0°-40°	2070.3	48.8
0°-60°	3473.0	81.9
0°-90°	4242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4242.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1705	1705	1705	1705	1705	
5°	1698	1698	1690	1694	1694	161
15°	1622	1615	1614	1620	1622	457
25°	1467	1459	1464	1470	1472	675
35°	1254	1244	1248	1244	1245	782
45°	995	987	985	981	981	769
55°	729	720	718	712	712	654
65°	478	468	460	454	456	471
75°	246	238	231	226	222	261
85°	59	58	55	48	46	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1705.2	1705.2	1705.2	1705.2	1705.2
2.5°	1710.6	1703.8	1701.1	1702.4	1710.6
5°	1698.3	1698.3	1690.1	1694.2	1694.2
7.5°	1684.6	1686.0	1677.8	1684.6	1681.9
10°	1668.2	1664.1	1658.6	1669.6	1672.3
12.5°	1653.2	1643.6	1640.8	1647.7	1649.1
15°	1621.7	1614.8	1613.5	1620.3	1621.7
17.5°	1586.1	1587.5	1582.0	1591.6	1590.2
20°	1551.9	1549.2	1546.4	1557.4	1558.7
22.5°	1513.6	1505.4	1508.1	1517.7	1520.4
25°	1467.0	1458.8	1464.3	1469.8	1472.5
27.5°	1417.8	1413.7	1412.3	1419.1	1421.9
30°	1368.5	1361.7	1361.7	1369.9	1365.8
32.5°	1308.3	1302.8	1305.6	1308.3	1309.7
35°	1253.6	1244.0	1248.1	1244.0	1245.3
37.5°	1189.2	1182.4	1181.0	1179.7	1179.7
40°	1129.0	1123.5	1118.1	1118.1	1111.2
42.5°	1063.3	1056.5	1053.8	1049.6	1045.5
45°	994.9	986.7	985.3	981.2	981.2
47.5°	933.3	921.0	919.6	911.4	911.4
50°	863.5	855.3	849.8	844.4	840.3
52.5°	800.6	792.4	784.2	778.7	774.6
55°	729.4	719.8	718.5	711.6	711.6
57.5°	665.1	656.9	651.4	643.2	644.6
60°	598.0	589.8	587.1	580.2	580.2
62.5°	535.1	528.2	524.1	517.3	511.8
65°	477.6	468.0	459.8	454.3	455.7
67.5°	414.7	403.7	399.6	394.1	390.0
70°	354.4	347.6	340.8	333.9	333.9
72.5°	298.3	291.5	287.4	279.2	276.4
75°	246.3	238.1	231.3	225.8	221.7
77.5°	194.3	186.1	182.0	175.2	175.2
80°	145.1	139.6	135.5	132.7	127.3
82.5°	99.9	97.2	93.1	89.0	84.8
85°	58.8	57.5	54.7	47.9	46.5
87.5°	23.3	23.3	20.5	19.2	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)