

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: P229814

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-74-RDP-UNV-L930-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5116.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

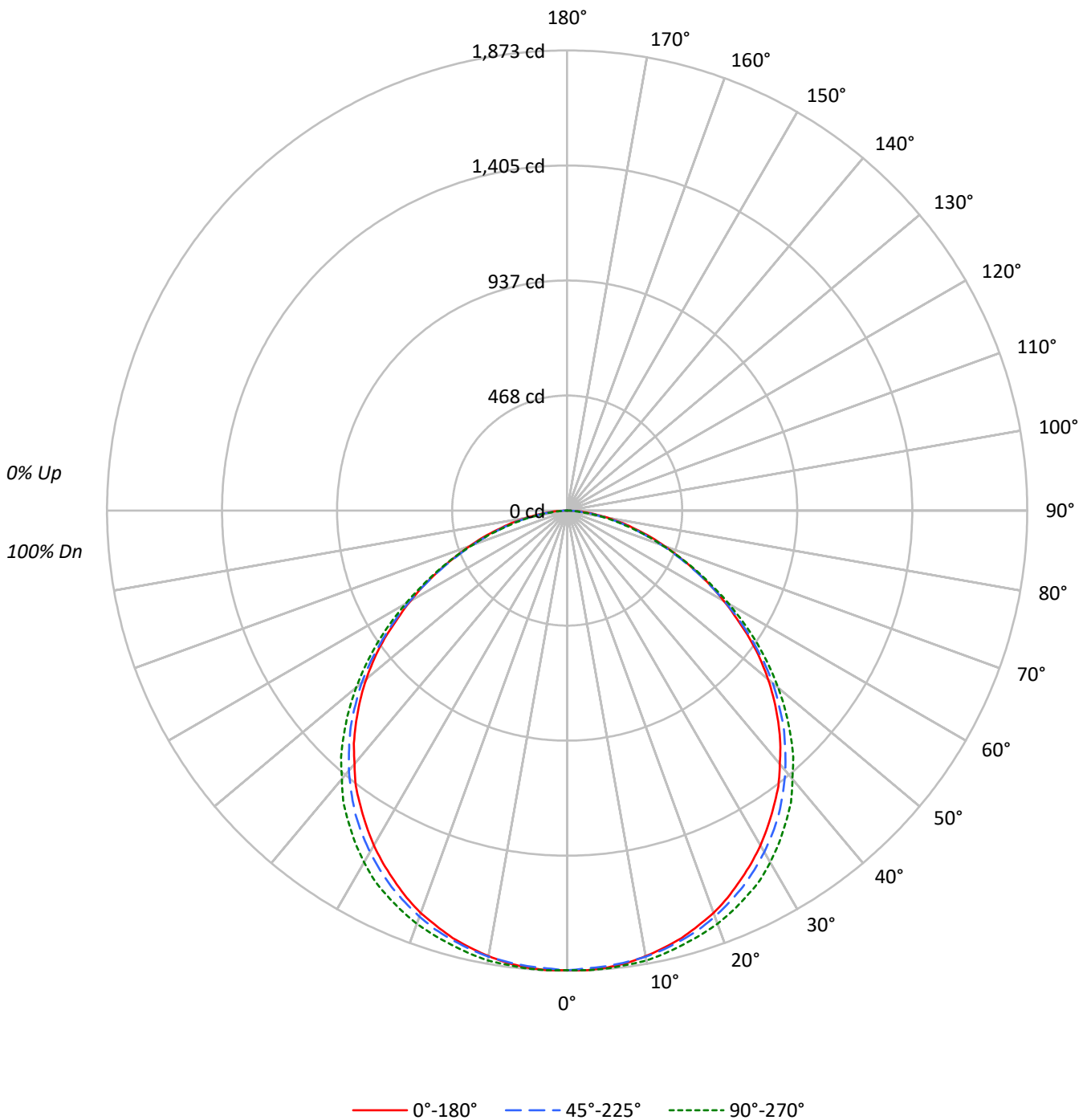
Input Watts (W): 61.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2866	2866	2866
5°	2871	2862	2877
10°	2865	2868	2892
15°	2856	2868	2899
20°	2841	2866	2917
25°	2811	2857	2926
30°	2784	2839	2925
35°	2744	2812	2900
40°	2693	2763	2852
45°	2632	2699	2783
50°	2543	2604	2673
55°	2420	2451	2524
60°	2259	2271	2331
65°	2075	2061	2110
70°	1886	1834	1843
75°	1677	1585	1574
80°	1455	1301	1267
85°	1193	921	717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	3.5
10°-20°	511.5	10.0
20°-30°	780.8	15.3
30°-40°	941.3	18.4
40°-50°	959.9	18.8
50°-60°	821.5	16.1
60°-70°	565.9	11.1
70°-80°	290.1	5.7
80°-90°	67.5	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°	1469.8	28.7
0°-40°	2411.1	47.1
0°-60°	4192.5	81.9
0°-90°	5116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1871	1871	1871	1871	1871	
5°	1867	1863	1861	1867	1871	177
15°	1801	1799	1809	1822	1828	508
25°	1663	1669	1690	1720	1731	767
35°	1467	1473	1504	1537	1551	918
45°	1215	1217	1246	1277	1285	936
55°	906	900	918	937	945	809
65°	572	559	569	572	582	569
75°	283	272	268	268	266	305
85°	68	60	52	47	41	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1870.9	1870.9	1870.9	1870.9	1870.9
2.5°	1872.9	1869.0	1865.1	1869.0	1872.9
5°	1867.1	1863.2	1861.2	1867.1	1870.9
7.5°	1857.4	1853.5	1853.5	1861.2	1865.1
10°	1841.8	1839.9	1843.8	1851.5	1859.3
12.5°	1822.4	1822.4	1828.2	1837.9	1845.7
15°	1801.1	1799.1	1808.8	1822.4	1828.2
17.5°	1772.0	1773.9	1787.5	1803.0	1810.8
20°	1742.8	1744.8	1758.4	1779.7	1789.4
22.5°	1706.0	1709.9	1725.4	1752.6	1762.3
25°	1663.3	1669.1	1690.4	1719.6	1731.2
27.5°	1620.6	1626.4	1649.7	1682.7	1698.2
30°	1574.0	1581.8	1605.0	1640.0	1653.6
32.5°	1521.6	1527.4	1556.5	1591.5	1605.0
35°	1467.3	1473.1	1504.1	1537.1	1550.7
37.5°	1412.9	1412.9	1444.0	1482.8	1496.4
40°	1346.9	1348.9	1381.9	1418.7	1426.5
42.5°	1284.8	1284.8	1313.9	1348.9	1362.4
45°	1214.9	1216.9	1246.0	1277.1	1284.8
47.5°	1143.1	1143.1	1168.4	1197.5	1205.2
50°	1067.4	1063.6	1092.7	1116.0	1121.8
52.5°	989.8	984.0	1007.3	1026.7	1034.5
55°	906.4	900.5	918.0	937.4	945.2
57.5°	819.0	811.3	830.7	848.1	852.0
60°	737.5	725.9	741.4	751.1	760.8
62.5°	656.0	642.4	654.1	659.9	667.6
65°	572.5	559.0	568.7	572.5	582.2
67.5°	493.0	483.3	485.2	491.0	494.9
70°	421.2	409.5	409.5	409.5	411.5
72.5°	355.2	337.7	335.8	337.7	337.7
75°	283.4	271.7	267.8	267.8	265.9
77.5°	227.1	211.5	209.6	205.7	201.8
80°	165.0	151.4	147.5	145.6	143.6
82.5°	114.5	102.9	99.0	95.1	89.3
85°	67.9	60.2	52.4	46.6	40.8
87.5°	25.2	23.3	19.4	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)