

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: P229934

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-7)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-74-RDP-UNV-L930-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5053.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

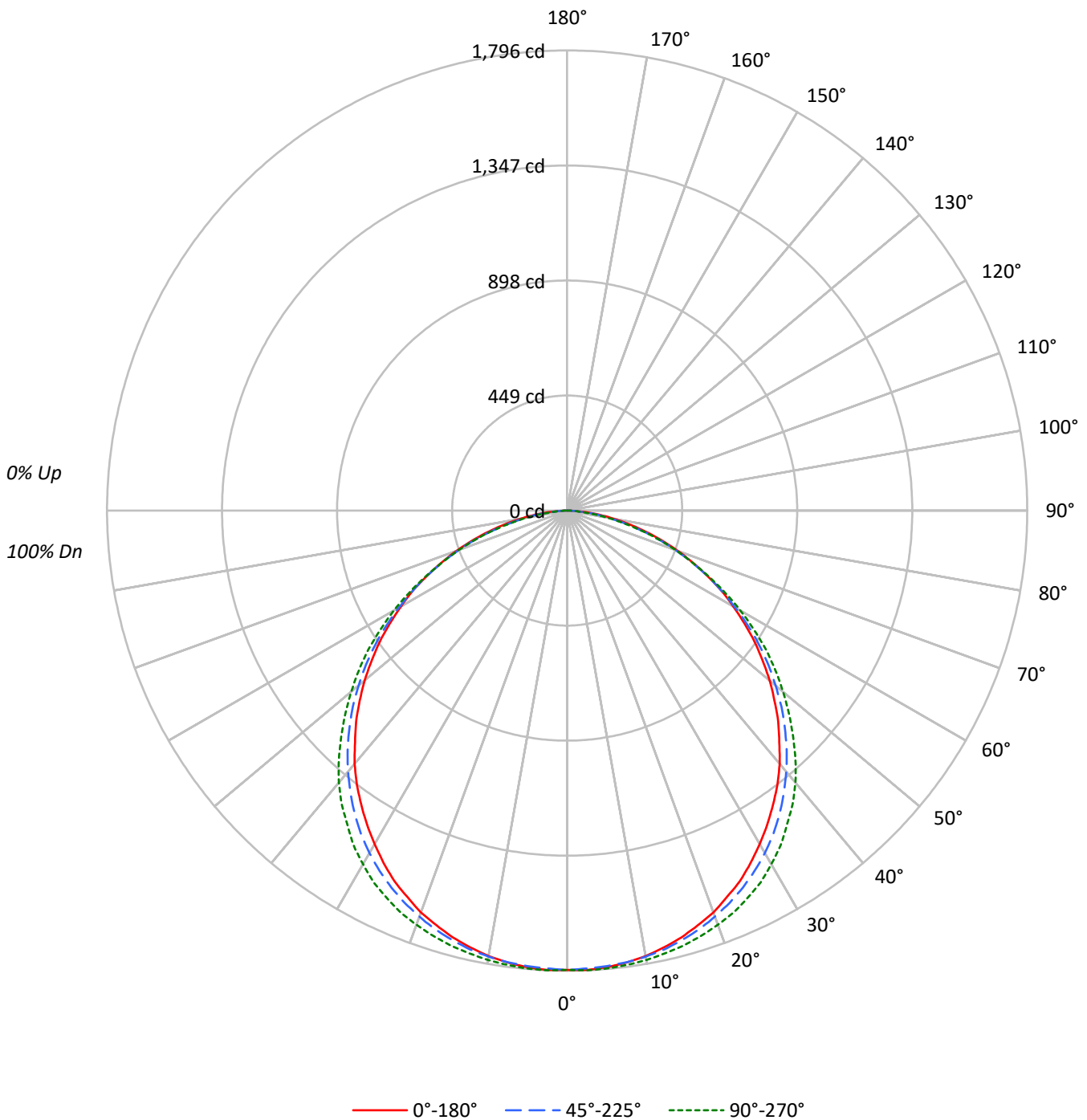
Input Watts (W): 61.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59					59			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2746	2746	2746
5°	2750	2744	2758
10°	2746	2749	2770
15°	2734	2751	2786
20°	2720	2749	2804
25°	2697	2743	2818
30°	2659	2729	2819
35°	2620	2702	2797
40°	2580	2660	2772
45°	2524	2603	2702
50°	2460	2530	2621
55°	2385	2444	2532
60°	2294	2323	2394
65°	2188	2188	2210
70°	2057	2019	2014
75°	1877	1764	1758
80°	1635	1468	1403
85°	1295	1018	796



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	3.4
10°-20°	490.7	9.7
20°-30°	749.8	14.8
30°-40°	904.5	17.9
40°-50°	927.1	18.3
50°-60°	816.8	16.2
60°-70°	597.8	11.8
70°-80°	321.3	6.4
80°-90°	74.8	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°	1410.6	27.9
0°-40°	2315.1	45.8
0°-60°	4059.1	80.3
0°-90°	5053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5053.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1793	1793	1793	1793	1793	
5°	1789	1787	1784	1790	1794	170
15°	1724	1726	1735	1749	1757	487
25°	1596	1600	1623	1655	1668	734
35°	1401	1408	1445	1485	1496	877
45°	1165	1164	1202	1237	1247	897
55°	893	888	915	936	948	797
65°	604	593	604	611	610	598
75°	317	302	298	298	297	337
85°	74	65	58	47	45	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1792.9	1792.9	1792.9	1792.9	1792.9
2.5°	1795.0	1791.8	1788.7	1791.8	1796.0
5°	1788.7	1786.6	1784.5	1789.7	1793.9
7.5°	1779.2	1777.1	1778.1	1785.5	1788.7
10°	1765.5	1765.5	1767.6	1776.0	1781.3
12.5°	1746.5	1747.6	1753.9	1764.4	1769.7
15°	1724.4	1726.5	1735.0	1748.6	1757.1
17.5°	1697.0	1702.3	1713.9	1730.7	1740.2
20°	1668.6	1671.7	1686.5	1710.7	1720.2
22.5°	1631.7	1638.0	1657.0	1685.4	1698.1
25°	1595.9	1600.1	1623.3	1654.9	1667.5
27.5°	1550.6	1556.9	1585.4	1622.2	1635.9
30°	1503.2	1510.6	1543.2	1579.0	1593.8
32.5°	1453.7	1463.2	1496.9	1534.8	1550.6
35°	1401.0	1408.4	1445.3	1485.3	1495.8
37.5°	1348.4	1350.5	1389.4	1428.4	1445.3
40°	1290.4	1292.5	1330.4	1367.3	1386.3
42.5°	1225.1	1231.4	1268.3	1304.1	1318.9
45°	1165.1	1164.0	1201.9	1236.7	1247.2
47.5°	1097.6	1099.8	1134.5	1168.2	1174.5
50°	1032.3	1031.3	1061.8	1091.3	1099.8
52.5°	960.7	959.6	990.2	1014.4	1025.0
55°	893.3	888.0	915.4	936.5	948.1
57.5°	820.6	813.2	837.5	858.5	863.8
60°	749.0	740.5	758.4	774.2	781.6
62.5°	680.5	670.0	681.6	695.2	696.3
65°	603.6	593.1	603.6	611.0	609.9
67.5°	530.9	519.3	524.6	527.8	526.7
70°	459.3	443.5	450.9	448.7	449.8
72.5°	387.7	375.0	374.0	370.8	374.0
75°	317.1	302.3	298.1	298.1	297.1
77.5°	249.7	234.9	230.7	228.6	225.4
80°	185.4	173.8	166.4	165.4	159.1
82.5°	130.6	115.9	113.8	104.3	98.0
85°	73.7	65.3	57.9	47.4	45.3
87.5°	27.4	24.2	19.0	17.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)