

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: P229783

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229783  
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-LD5-67-RDP-UNV-L830-CD1-U  
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS  
Light Source: (252)3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5377.0 lumens  
Efficiency: N/A  
Efficacy: 99.8 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

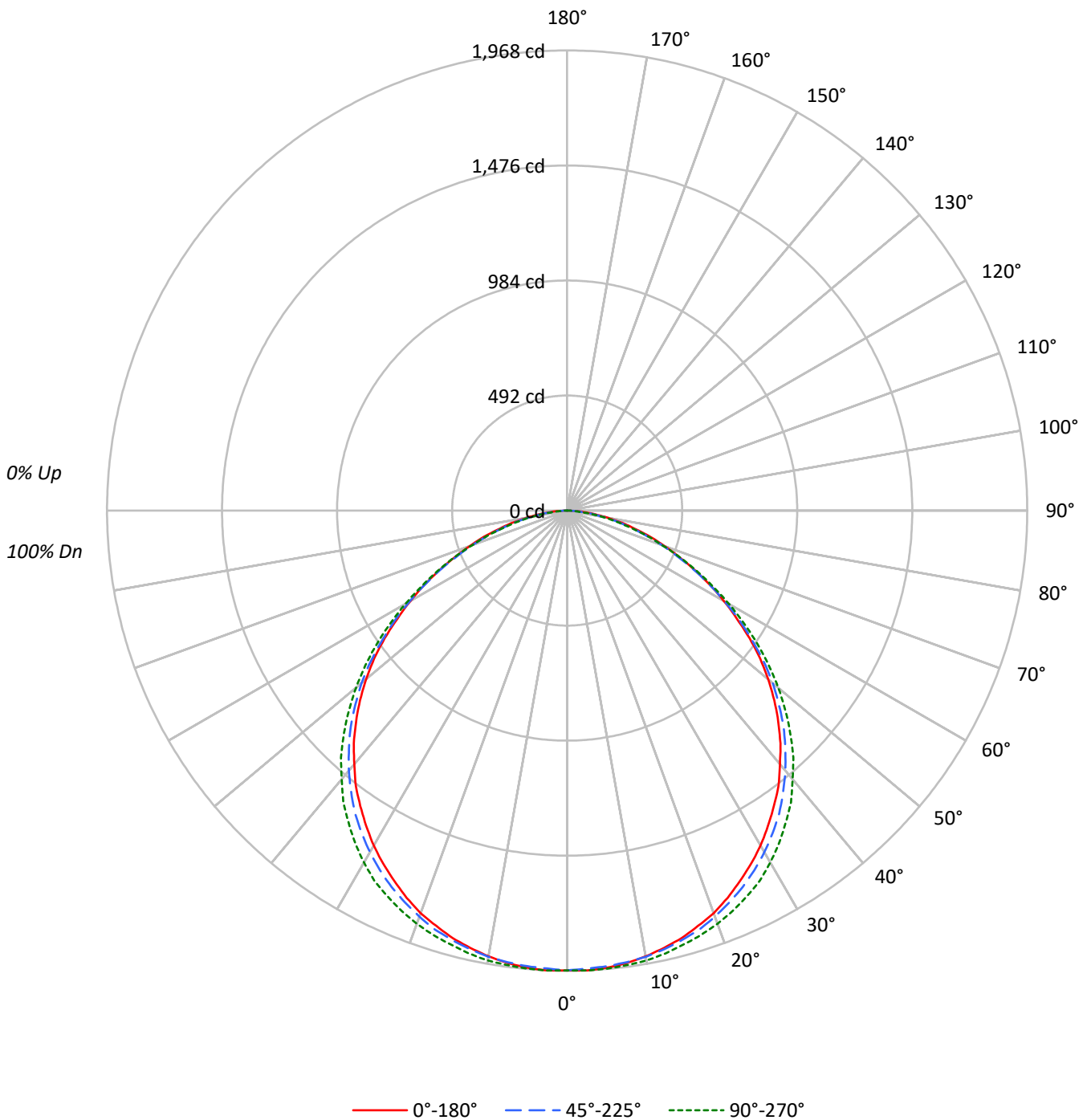
Input Watts (W): 53.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3012	3012	3012
5°	3017	3008	3023
10°	3011	3014	3039
15°	3002	3015	3047
20°	2986	3012	3065
25°	2954	3003	3075
30°	2926	2983	3074
35°	2883	2956	3047
40°	2830	2904	2998
45°	2766	2837	2925
50°	2673	2736	2809
55°	2544	2576	2653
60°	2374	2387	2449
65°	2181	2166	2218
70°	1982	1927	1936
75°	1762	1666	1654
80°	1529	1367	1331
85°	1255	968	752



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.5	3.5
10°-20°	537.6	10.0
20°-30°	820.6	15.3
30°-40°	989.3	18.4
40°-50°	1008.9	18.8
50°-60°	863.4	16.1
60°-70°	594.8	11.1
70°-80°	304.9	5.7
80°-90°	71.0	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°	1544.7	28.7
0°-40°	2534.1	47.1
0°-60°	4406.4	81.9
0°-90°	5377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5377.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1966	1966	1966	1966	1966	
5°	1962	1958	1956	1962	1966	186
15°	1893	1891	1901	1915	1922	534
25°	1748	1754	1777	1807	1820	806
35°	1542	1548	1581	1616	1630	965
45°	1277	1279	1310	1342	1350	984
55°	953	946	965	985	993	850
65°	602	588	598	602	612	598
75°	298	286	282	282	280	321
85°	71	63	55	49	43	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1966.4	1966.4	1966.4	1966.4	1966.4
2.5°	1968.4	1964.3	1960.3	1964.3	1968.4
5°	1962.3	1958.2	1956.2	1962.3	1966.4
7.5°	1952.1	1948.0	1948.0	1956.2	1960.3
10°	1935.8	1933.8	1937.8	1946.0	1954.2
12.5°	1915.4	1915.4	1921.5	1931.7	1939.9
15°	1893.0	1890.9	1901.1	1915.4	1921.5
17.5°	1862.4	1864.4	1878.7	1895.0	1903.2
20°	1831.8	1833.8	1848.1	1870.5	1880.7
22.5°	1793.0	1797.1	1813.4	1842.0	1852.2
25°	1748.1	1754.2	1776.7	1807.3	1819.5
27.5°	1703.3	1709.4	1733.8	1768.5	1784.8
30°	1654.3	1662.5	1686.9	1723.7	1737.9
32.5°	1599.2	1605.3	1635.9	1672.7	1686.9
35°	1542.1	1548.2	1580.9	1615.5	1629.8
37.5°	1485.0	1485.0	1517.6	1558.4	1572.7
40°	1415.6	1417.7	1452.4	1491.1	1499.3
42.5°	1350.4	1350.4	1381.0	1417.7	1432.0
45°	1276.9	1279.0	1309.6	1342.2	1350.4
47.5°	1201.5	1201.5	1228.0	1258.6	1266.7
50°	1121.9	1117.8	1148.4	1172.9	1179.0
52.5°	1040.3	1034.2	1058.7	1079.1	1087.2
55°	952.6	946.5	964.8	985.2	993.4
57.5°	860.8	852.6	873.0	891.4	895.5
60°	775.1	762.9	779.2	789.4	799.6
62.5°	689.5	675.2	687.4	693.5	701.7
65°	601.7	587.5	597.7	601.7	611.9
67.5°	518.1	507.9	510.0	516.1	520.2
70°	442.6	430.4	430.4	430.4	432.4
72.5°	373.3	354.9	352.9	354.9	354.9
75°	297.8	285.6	281.5	281.5	279.5
77.5°	238.7	222.3	220.3	216.2	212.1
80°	173.4	159.1	155.0	153.0	150.9
82.5°	120.3	108.1	104.0	100.0	93.8
85°	71.4	63.2	55.1	49.0	42.8
87.5°	26.5	24.5	20.4	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)