

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: P229929

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229929  
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-LD5-45-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: 3091.0 lumens  
Efficiency: N/A  
Efficacy: 90.9 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

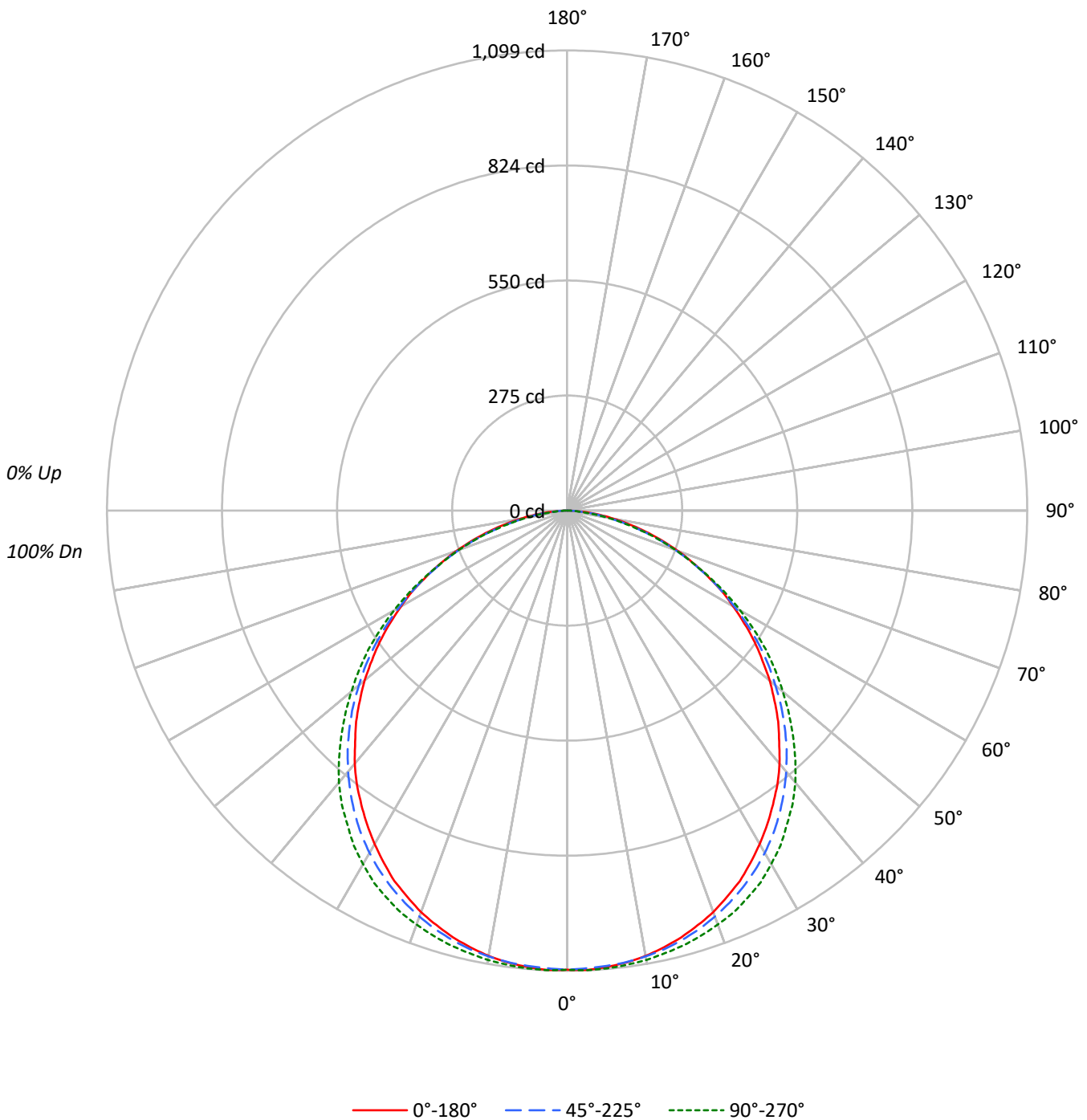
Input Watts (W): 34  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	1680	1680	1680
5°	1682	1678	1687
10°	1680	1682	1695
15°	1673	1683	1704
20°	1664	1682	1715
25°	1650	1678	1724
30°	1626	1670	1724
35°	1602	1653	1711
40°	1578	1627	1696
45°	1544	1593	1653
50°	1505	1548	1603
55°	1459	1495	1549
60°	1404	1421	1465
65°	1338	1338	1352
70°	1258	1235	1232
75°	1148	1079	1075
80°	1000	898	858
85°	793	622	487



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.1	3.4
10°-20°	300.2	9.7
20°-30°	458.6	14.8
30°-40°	553.3	17.9
40°-50°	567.1	18.3
50°-60°	499.7	16.2
60°-70°	365.7	11.8
70°-80°	196.5	6.4
80°-90°	45.8	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°	862.9	27.9
0°-40°	1416.2	45.8
0°-60°	2483.0	80.3
0°-90°	3091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3091.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1097	1097	1097	1097	1097	
5°	1094	1093	1092	1095	1097	104
15°	1055	1056	1061	1070	1075	298
25°	976	979	993	1012	1020	449
35°	857	862	884	909	915	536
45°	713	712	735	756	763	549
55°	546	543	560	573	580	488
65°	369	363	369	374	373	366
75°	194	185	182	182	182	206
85°	45	40	35	29	28	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1096.7	1096.7	1096.7	1096.7	1096.7
2.5°	1098.0	1096.1	1094.2	1096.1	1098.7
5°	1094.2	1092.9	1091.6	1094.8	1097.4
7.5°	1088.4	1087.1	1087.7	1092.2	1094.2
10°	1080.0	1080.0	1081.3	1086.4	1089.6
12.5°	1068.4	1069.0	1072.9	1079.3	1082.6
15°	1054.9	1056.1	1061.3	1069.7	1074.8
17.5°	1038.1	1041.3	1048.4	1058.7	1064.5
20°	1020.7	1022.6	1031.7	1046.5	1052.3
22.5°	998.1	1002.0	1013.6	1031.0	1038.7
25°	976.2	978.8	993.0	1012.3	1020.1
27.5°	948.5	952.4	969.8	992.3	1000.7
30°	919.5	924.0	944.0	965.9	974.9
32.5°	889.2	895.0	915.7	938.9	948.5
35°	857.0	861.5	884.1	908.6	915.0
37.5°	824.8	826.1	849.9	873.8	884.1
40°	789.4	790.7	813.9	836.4	848.0
42.5°	749.4	753.3	775.8	797.7	806.8
45°	712.7	712.0	735.2	756.5	762.9
47.5°	671.4	672.7	694.0	714.6	718.5
50°	631.5	630.8	649.5	667.6	672.7
52.5°	587.7	587.0	605.7	620.5	627.0
55°	546.4	543.2	560.0	572.9	579.9
57.5°	502.0	497.5	512.3	525.2	528.4
60°	458.2	453.0	464.0	473.6	478.1
62.5°	416.3	409.8	416.9	425.3	425.9
65°	369.2	362.8	369.2	373.7	373.1
67.5°	324.8	317.7	320.9	322.8	322.2
70°	281.0	271.3	275.8	274.5	275.2
72.5°	237.1	229.4	228.8	226.8	228.8
75°	194.0	184.9	182.4	182.4	181.7
77.5°	152.7	143.7	141.1	139.8	137.9
80°	113.4	106.3	101.8	101.2	97.3
82.5°	79.9	70.9	69.6	63.8	59.9
85°	45.1	40.0	35.4	29.0	27.7
87.5°	16.8	14.8	11.6	11.0	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)