

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: P229877

Luminaire Tested: **24RLN-LD5-36-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229877  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36062)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RLN-LD5-36-UNV-L935-CD1-SVPD1-U  
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR  
Light Source: (252)3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3105.0 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.31  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

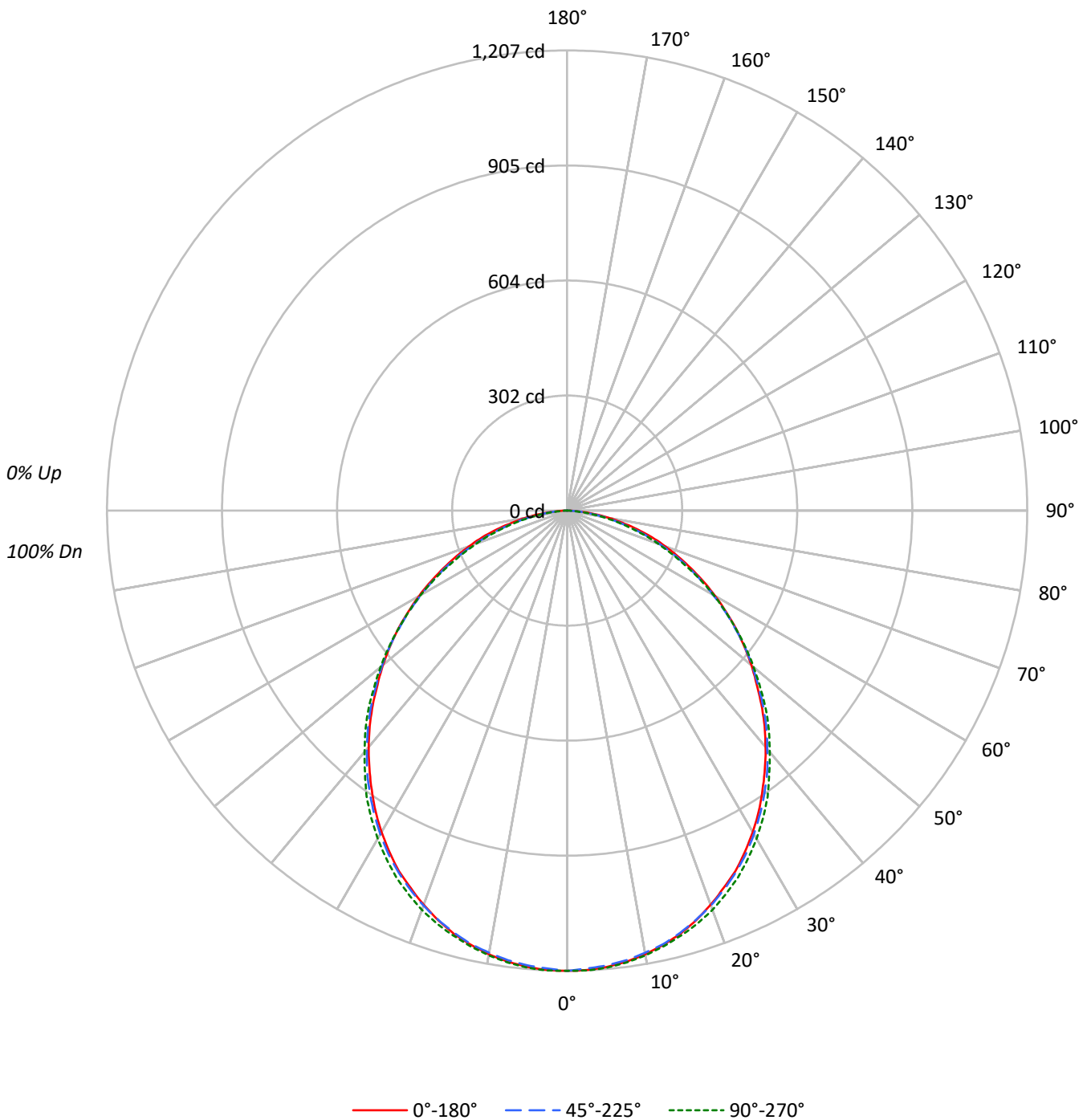
Input Watts (W): 26.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	1849	1849	1849
5°	1847	1841	1850
10°	1838	1832	1842
15°	1822	1817	1830
20°	1794	1797	1816
25°	1765	1770	1793
30°	1722	1733	1757
35°	1671	1688	1714
40°	1619	1633	1653
45°	1561	1576	1598
50°	1503	1510	1522
55°	1444	1436	1442
60°	1375	1354	1360
65°	1297	1268	1247
70°	1227	1160	1133
75°	1129	1030	995
80°	994	872	819
85°	782	608	452



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.0	3.7
10°-20°	324.0	10.4
20°-30°	482.9	15.6
30°-40°	564.6	18.2
40°-50°	560.6	18.1
50°-60°	481.4	15.5
60°-70°	346.8	11.2
70°-80°	186.7	6.0
80°-90°	44.0	1.4
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°	920.9	29.7
0°-40°	1485.4	47.8
0°-60°	2527.4	81.4
0°-90°	3105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3105.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1201	1200	1197	1201	1203	114
15°	1149	1146	1146	1153	1154	324
25°	1044	1040	1047	1058	1061	480
35°	894	893	903	913	917	559
45°	721	719	728	734	738	556
55°	541	536	538	541	540	483
65°	358	352	350	347	344	356
75°	191	179	174	169	168	202
85°	44	40	35	28	26	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1207.3	1207.3	1207.3	1207.3	1207.3
2.5°	1206.3	1205.3	1202.3	1206.3	1207.3
5°	1201.4	1200.4	1197.4	1201.4	1203.3
7.5°	1193.4	1191.5	1189.5	1193.4	1195.4
10°	1181.6	1179.6	1177.6	1182.6	1184.5
12.5°	1166.7	1164.8	1164.8	1168.7	1170.7
15°	1148.9	1146.0	1146.0	1152.9	1153.9
17.5°	1126.2	1124.2	1125.2	1133.1	1136.1
20°	1100.5	1099.5	1102.5	1111.4	1114.3
22.5°	1071.8	1070.8	1075.8	1086.7	1088.6
25°	1044.1	1040.2	1047.1	1058.0	1060.9
27.5°	1009.5	1006.6	1015.5	1025.4	1028.3
30°	973.9	971.0	979.9	990.7	993.7
32.5°	935.4	933.4	942.3	953.2	956.1
35°	893.8	892.9	902.7	912.6	916.6
37.5°	852.3	851.3	862.2	870.1	871.1
40°	809.8	807.8	816.7	825.6	826.6
42.5°	766.3	763.3	773.2	780.1	783.1
45°	720.8	718.8	727.7	733.7	737.6
47.5°	674.3	674.3	679.3	686.2	687.2
50°	630.8	627.9	633.8	637.8	638.7
52.5°	585.3	582.4	587.3	588.3	590.3
55°	540.9	535.9	537.9	540.9	539.9
57.5°	494.4	486.5	490.4	490.4	492.4
60°	448.9	442.0	442.0	442.0	444.0
62.5°	403.4	396.5	396.5	395.5	394.5
65°	357.9	352.0	350.0	347.1	344.1
67.5°	314.4	307.5	303.6	299.6	296.6
70°	273.9	262.0	259.1	253.1	253.1
72.5°	233.3	221.5	215.6	211.6	210.6
75°	190.8	179.0	174.0	169.1	168.1
77.5°	149.3	141.4	133.5	129.5	127.6
80°	112.7	105.8	98.9	92.0	92.9
82.5°	77.1	70.2	65.3	59.3	57.3
85°	44.5	40.5	34.6	27.7	25.7
87.5°	18.8	13.8	9.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)