

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: P229757

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36038)
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-U
Description: METALUX 2X4 RLN LED TROFFER
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3144.0 lumens
Efficiency: N/A
Efficacy: 118.6 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

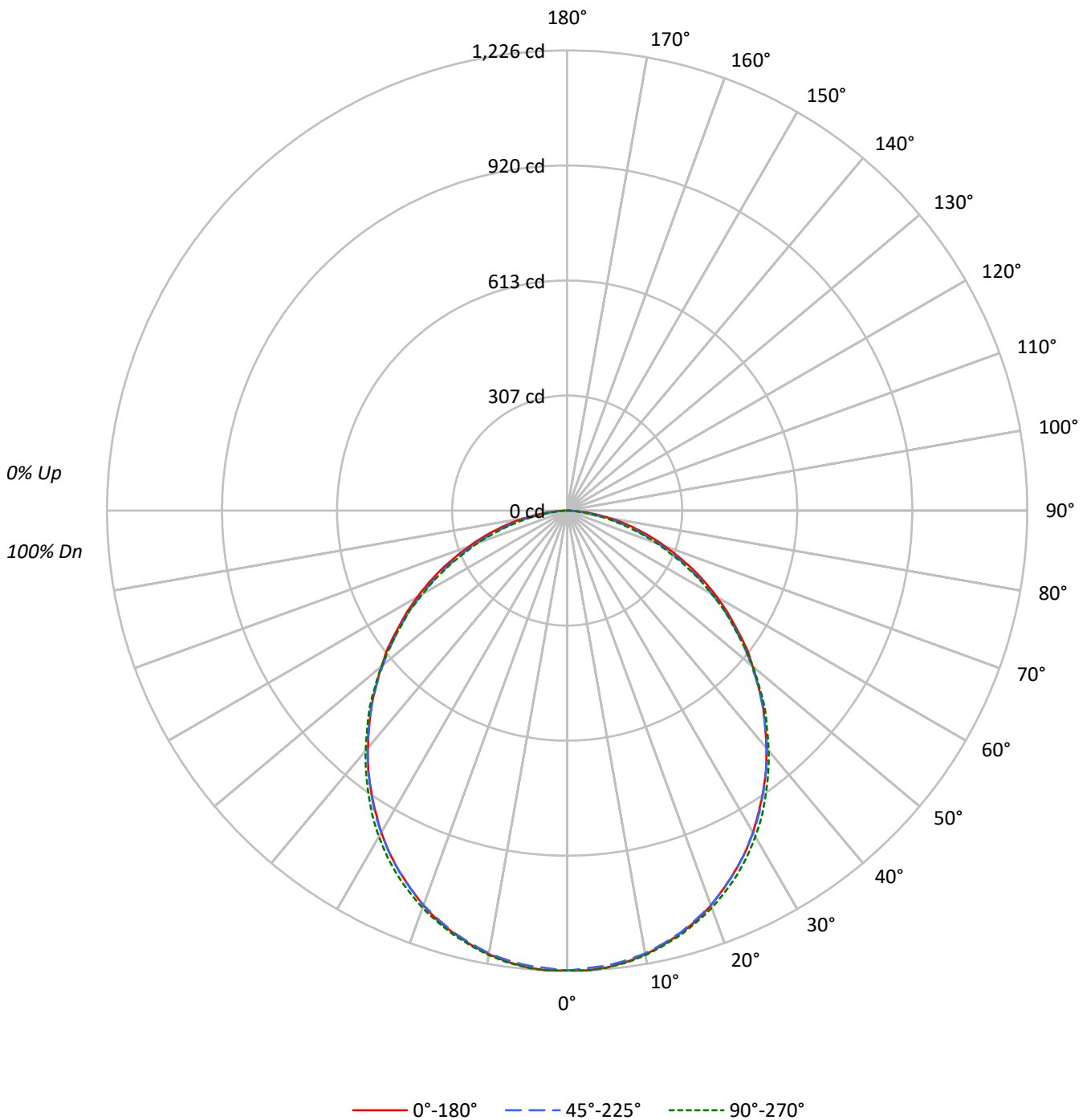
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	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	32
9	58	44	36	31	56	44	36	31	43	36	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°	1877	1877	1877
5°	1878	1870	1880
10°	1867	1863	1871
15°	1849	1846	1855
20°	1825	1823	1836
25°	1790	1792	1810
30°	1751	1753	1774
35°	1703	1705	1725
40°	1651	1655	1671
45°	1598	1594	1613
50°	1537	1527	1539
55°	1474	1455	1450
60°	1412	1369	1363
65°	1333	1276	1258
70°	1236	1160	1138
75°	1136	1024	972
80°	995	855	776
85°	817	590	469



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	3.7
10°-20°	328.9	10.5
20°-30°	489.4	15.6
30°-40°	571.8	18.2
40°-50°	568.4	18.1
50°-60°	488.4	15.5
60°-70°	350.7	11.2
70°-80°	186.8	5.9
80°-90°	43.8	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°	934.1	29.7
0°-40°	1505.9	47.9
0°-60°	2562.7	81.5
0°-90°	3144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1225	1225	1225	1225	1225	
5°	1222	1220	1216	1220	1222	116
15°	1166	1166	1164	1168	1170	329
25°	1059	1059	1060	1068	1071	488
35°	911	909	912	922	923	570
45°	738	732	736	740	745	568
55°	552	545	545	545	543	495
65°	368	357	352	348	347	364
75°	192	181	173	168	164	204
85°	46	40	34	28	27	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1225.4	1225.4	1225.4	1225.4	1225.4
2.5°	1226.4	1224.4	1220.5	1225.4	1226.4
5°	1221.5	1219.5	1216.5	1220.5	1222.5
7.5°	1212.6	1210.6	1208.6	1212.6	1214.5
10°	1200.7	1199.7	1197.7	1202.7	1202.7
12.5°	1184.9	1183.9	1181.9	1186.9	1186.9
15°	1166.1	1166.1	1164.1	1168.1	1170.0
17.5°	1145.3	1144.3	1142.3	1147.3	1149.3
20°	1119.6	1119.6	1118.6	1124.5	1126.5
22.5°	1089.9	1089.9	1089.9	1097.8	1099.8
25°	1059.3	1059.3	1060.3	1068.2	1071.1
27.5°	1026.6	1025.6	1026.6	1035.5	1038.5
30°	990.0	988.1	991.0	999.9	1002.9
32.5°	950.5	948.5	953.4	961.4	965.3
35°	910.9	908.9	911.9	921.8	922.8
37.5°	870.4	865.4	870.4	879.3	880.3
40°	825.9	821.9	827.8	831.8	835.7
42.5°	780.4	778.4	781.3	788.3	788.3
45°	737.8	731.9	735.9	739.8	744.8
47.5°	690.4	687.4	689.4	692.3	694.3
50°	644.9	639.9	640.9	643.9	645.8
52.5°	602.3	592.4	592.4	594.4	594.4
55°	551.9	545.0	545.0	545.0	543.0
57.5°	507.4	498.5	497.5	497.5	497.5
60°	460.9	450.0	447.0	447.0	445.1
62.5°	414.4	404.5	400.6	396.6	396.6
65°	367.9	357.0	352.1	348.1	347.2
67.5°	320.5	312.5	306.6	301.7	296.7
70°	275.9	267.0	259.1	254.2	254.2
72.5°	234.4	224.5	216.6	210.7	207.7
75°	191.9	181.0	173.1	168.1	164.2
77.5°	154.3	142.4	134.5	127.6	123.6
80°	112.8	103.8	96.9	90.0	88.0
82.5°	78.1	71.2	63.3	58.4	56.4
85°	46.5	39.6	33.6	27.7	26.7
87.5°	18.8	13.8	10.9	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)