

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: P229820

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229820
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-LD5-50-RDP-UNV-L935-CD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH RDP LENS
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3570.0 lumens
Efficiency: N/A
Efficacy: 94.4 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

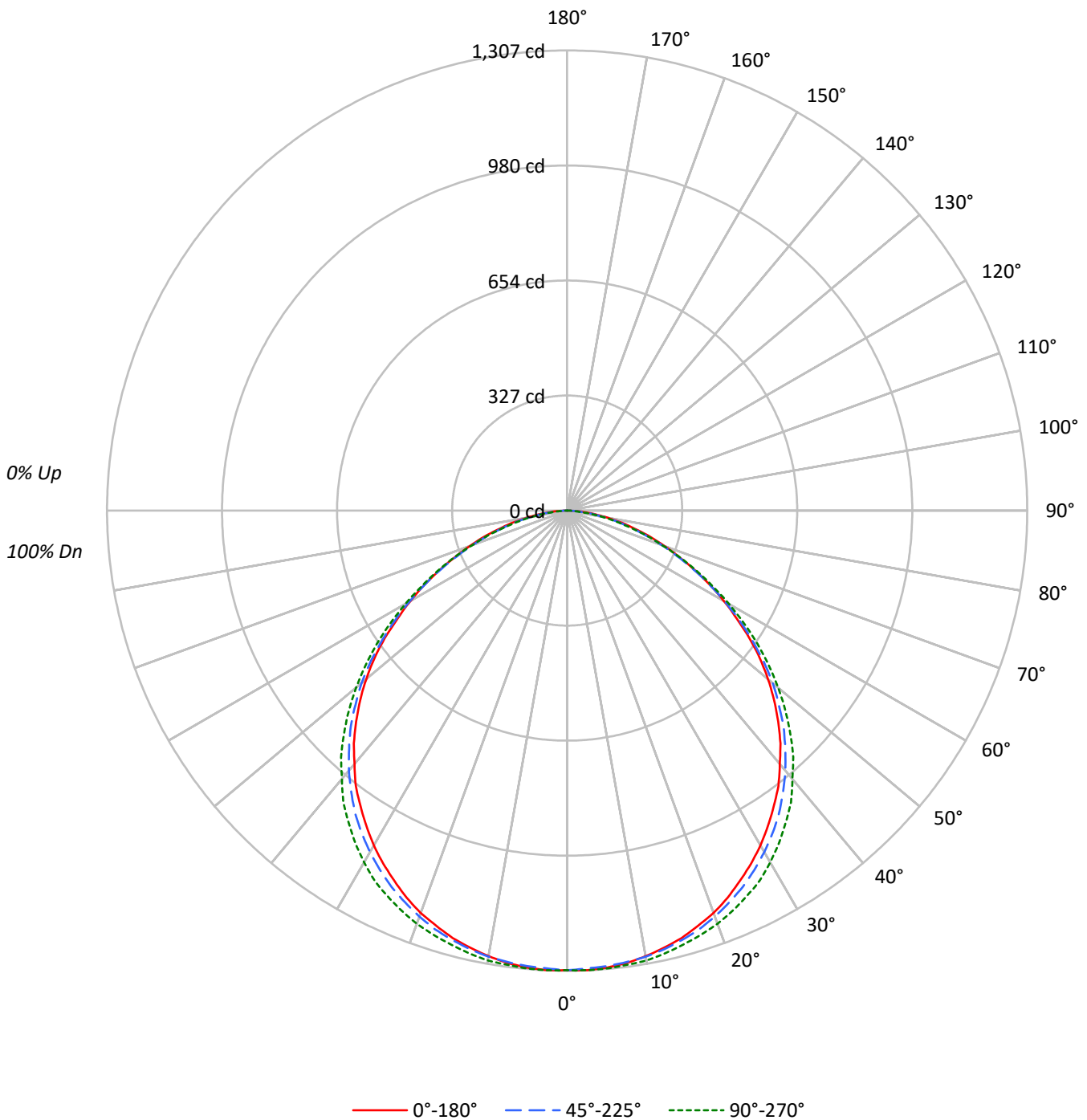
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	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	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2000	2000	2000
5°	2003	1997	2007
10°	1999	2001	2018
15°	1993	2001	2023
20°	1982	2000	2035
25°	1962	1994	2042
30°	1943	1981	2041
35°	1915	1963	2023
40°	1879	1928	1990
45°	1836	1883	1942
50°	1775	1817	1865
55°	1689	1711	1761
60°	1576	1585	1626
65°	1448	1438	1473
70°	1316	1280	1286
75°	1170	1106	1098
80°	1015	908	884
85°	833	643	499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	3.5
10°-20°	356.9	10.0
20°-30°	544.8	15.3
30°-40°	656.8	18.4
40°-50°	669.8	18.8
50°-60°	573.3	16.1
60°-70°	394.9	11.1
70°-80°	202.4	5.7
80°-90°	47.1	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°	1025.6	28.7
0°-40°	1682.5	47.1
0°-60°	2925.6	81.9
0°-90°	3570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1303	1300	1299	1303	1306	124
15°	1257	1256	1262	1272	1276	354
25°	1161	1165	1180	1200	1208	535
35°	1024	1028	1050	1073	1082	641
45°	848	849	870	891	897	653
55°	632	628	641	654	660	564
65°	400	390	397	400	406	397
75°	198	190	187	187	186	213
85°	47	42	37	32	28	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1305.6	1305.6	1305.6	1305.6	1305.6
2.5°	1306.9	1304.2	1301.5	1304.2	1306.9
5°	1302.9	1300.1	1298.8	1302.9	1305.6
7.5°	1296.1	1293.4	1293.4	1298.8	1301.5
10°	1285.2	1283.9	1286.6	1292.0	1297.4
12.5°	1271.7	1271.7	1275.8	1282.5	1288.0
15°	1256.8	1255.5	1262.2	1271.7	1275.8
17.5°	1236.5	1237.8	1247.3	1258.2	1263.6
20°	1216.2	1217.5	1227.0	1241.9	1248.7
22.5°	1190.4	1193.2	1204.0	1222.9	1229.7
25°	1160.7	1164.7	1179.6	1199.9	1208.1
27.5°	1130.9	1134.9	1151.2	1174.2	1185.0
30°	1098.4	1103.8	1120.0	1144.4	1153.9
32.5°	1061.8	1065.8	1086.2	1110.5	1120.0
35°	1023.9	1027.9	1049.6	1072.6	1082.1
37.5°	985.9	985.9	1007.6	1034.7	1044.2
40°	939.9	941.3	964.3	990.0	995.4
42.5°	896.6	896.6	916.9	941.3	950.7
45°	847.8	849.2	869.5	891.1	896.6
47.5°	797.7	797.7	815.3	835.6	841.0
50°	744.9	742.2	762.5	778.7	782.8
52.5°	690.7	686.6	702.9	716.4	721.9
55°	632.5	628.4	640.6	654.1	659.6
57.5°	571.5	566.1	579.6	591.8	594.5
60°	514.6	506.5	517.3	524.1	530.9
62.5°	457.8	448.3	456.4	460.5	465.9
65°	399.5	390.0	396.8	399.5	406.3
67.5°	344.0	337.2	338.6	342.6	345.4
70°	293.9	285.8	285.8	285.8	287.1
72.5°	247.8	235.7	234.3	235.7	235.7
75°	197.7	189.6	186.9	186.9	185.5
77.5°	158.5	147.6	146.3	143.6	140.8
80°	115.1	105.6	102.9	101.6	100.2
82.5°	79.9	71.8	69.1	66.4	62.3
85°	47.4	42.0	36.6	32.5	28.4
87.5°	17.6	16.3	13.5	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)