

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: P229536

Luminaire Tested: **14RLN-LD5-40-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36064)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-40-UNV-L935-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR
Light Source: (112)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3414.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

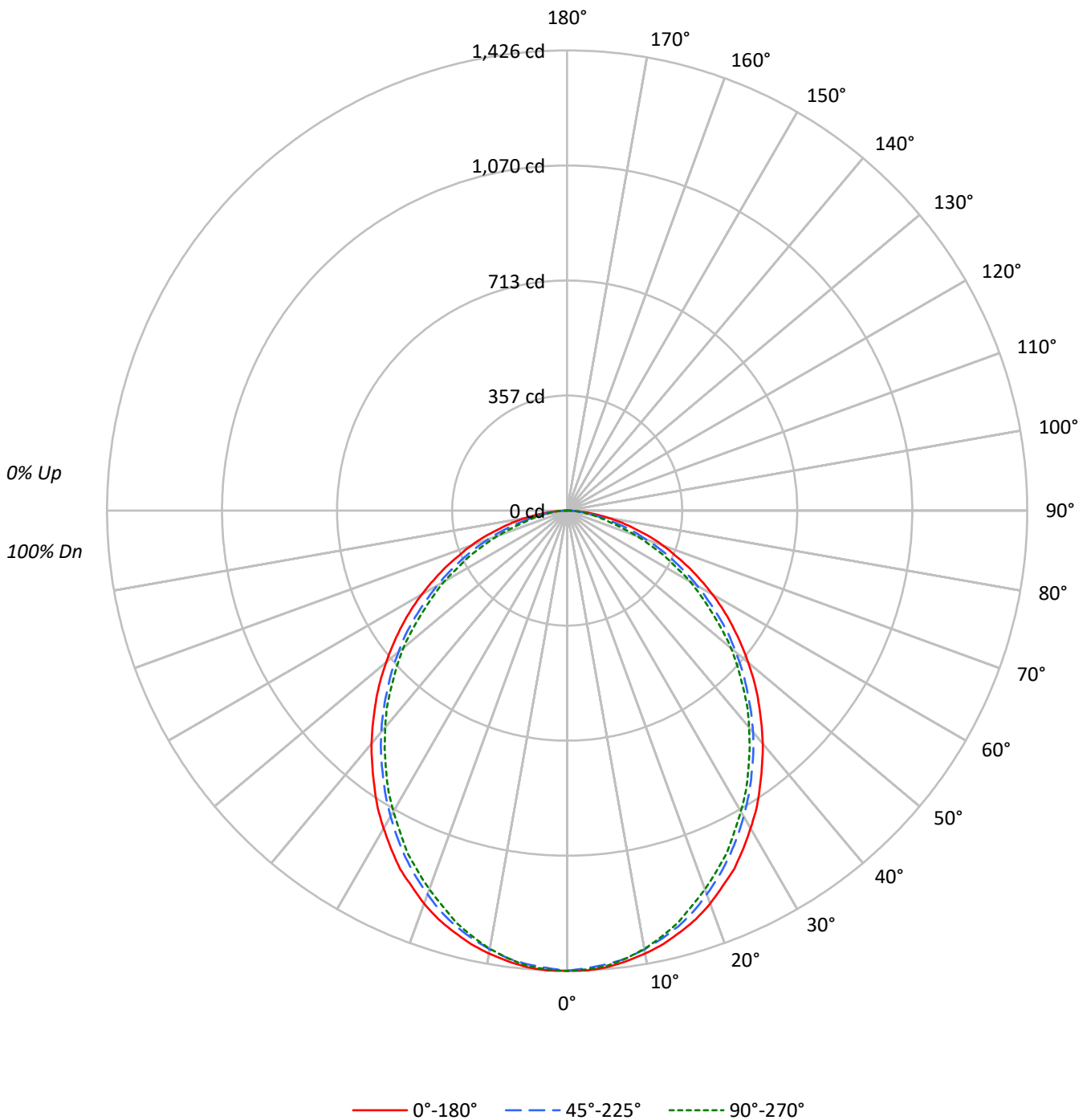
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61					61			
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53					53			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46					46			
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41					41			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36					36			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32					32			
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29					29			
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4806	4806	4806
5°	4804	4774	4790
10°	4769	4723	4719
15°	4718	4651	4615
20°	4649	4538	4479
25°	4556	4408	4353
30°	4424	4257	4188
35°	4288	4100	4027
40°	4150	3942	3858
45°	3997	3757	3666
50°	3839	3576	3476
55°	3678	3374	3201
60°	3502	3134	2965
65°	3308	2873	2661
70°	3113	2546	2255
75°	2807	2172	1750
80°	2494	1719	1547
85°	2057	1369	1427



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	3.9
10°-20°	376.2	11.0
20°-30°	548.3	16.1
30°-40°	628.6	18.4
40°-50°	614.5	18.0
50°-60°	518.4	15.2
60°-70°	362.4	10.6
70°-80°	184.8	5.4
80°-90°	46.6	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°	1058.6	31.0
0°-40°	1687.2	49.4
0°-60°	2820.2	82.6
0°-90°	3414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1420	1417	1412	1416	1416	135
15°	1352	1348	1333	1329	1323	381
25°	1226	1211	1186	1174	1171	563
35°	1042	1028	997	986	979	652
45°	839	816	788	778	769	647
55°	626	602	574	558	545	560
65°	415	390	360	340	334	411
75°	216	198	167	146	134	232
85°	53	40	35	37	37	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1426.3	1426.3	1426.3	1426.3	1426.3
2.5°	1426.3	1423.3	1418.9	1424.8	1423.3
5°	1420.4	1417.4	1411.5	1416.0	1416.0
7.5°	1408.6	1405.6	1399.7	1402.7	1399.7
10°	1393.8	1390.9	1380.5	1382.0	1379.1
12.5°	1376.1	1370.2	1358.4	1356.9	1352.5
15°	1352.5	1348.0	1333.3	1328.9	1322.9
17.5°	1327.4	1318.5	1302.3	1293.4	1284.6
20°	1296.4	1284.6	1265.4	1255.0	1249.1
22.5°	1259.5	1250.6	1227.0	1215.2	1209.3
25°	1225.5	1210.7	1185.6	1173.8	1170.9
27.5°	1181.2	1169.4	1141.3	1131.0	1122.1
30°	1136.9	1123.6	1094.1	1083.8	1076.4
32.5°	1092.6	1077.8	1046.8	1035.0	1030.6
35°	1042.4	1027.6	996.6	986.3	978.9
37.5°	992.2	974.5	947.9	936.1	928.7
40°	943.5	922.8	896.2	882.9	877.0
42.5°	890.3	868.2	843.1	829.8	826.8
45°	838.7	816.5	788.5	778.1	769.3
47.5°	787.0	761.9	736.8	722.0	716.1
50°	732.3	708.7	682.1	667.4	663.0
52.5°	679.2	655.6	630.5	614.2	603.9
55°	626.0	602.4	574.4	558.1	544.8
57.5°	574.4	546.3	518.3	499.1	491.7
60°	519.7	494.6	465.1	445.9	440.0
62.5°	466.6	444.4	413.4	391.3	380.9
65°	414.9	389.8	360.3	339.6	333.7
67.5°	361.7	339.6	310.1	286.4	276.1
70°	316.0	287.9	258.4	237.7	228.9
72.5°	267.2	242.1	214.1	190.5	177.2
75°	215.6	197.9	166.8	146.2	134.4
77.5°	174.2	153.6	125.5	109.3	106.3
80°	128.5	112.2	88.6	81.2	79.7
82.5°	90.1	73.8	60.5	57.6	56.1
85°	53.2	39.9	35.4	36.9	36.9
87.5°	22.1	16.2	16.2	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)