

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: P229535

Luminaire Tested: **14RLN-LD5-35-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229535
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-LD5-35-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: 3007.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

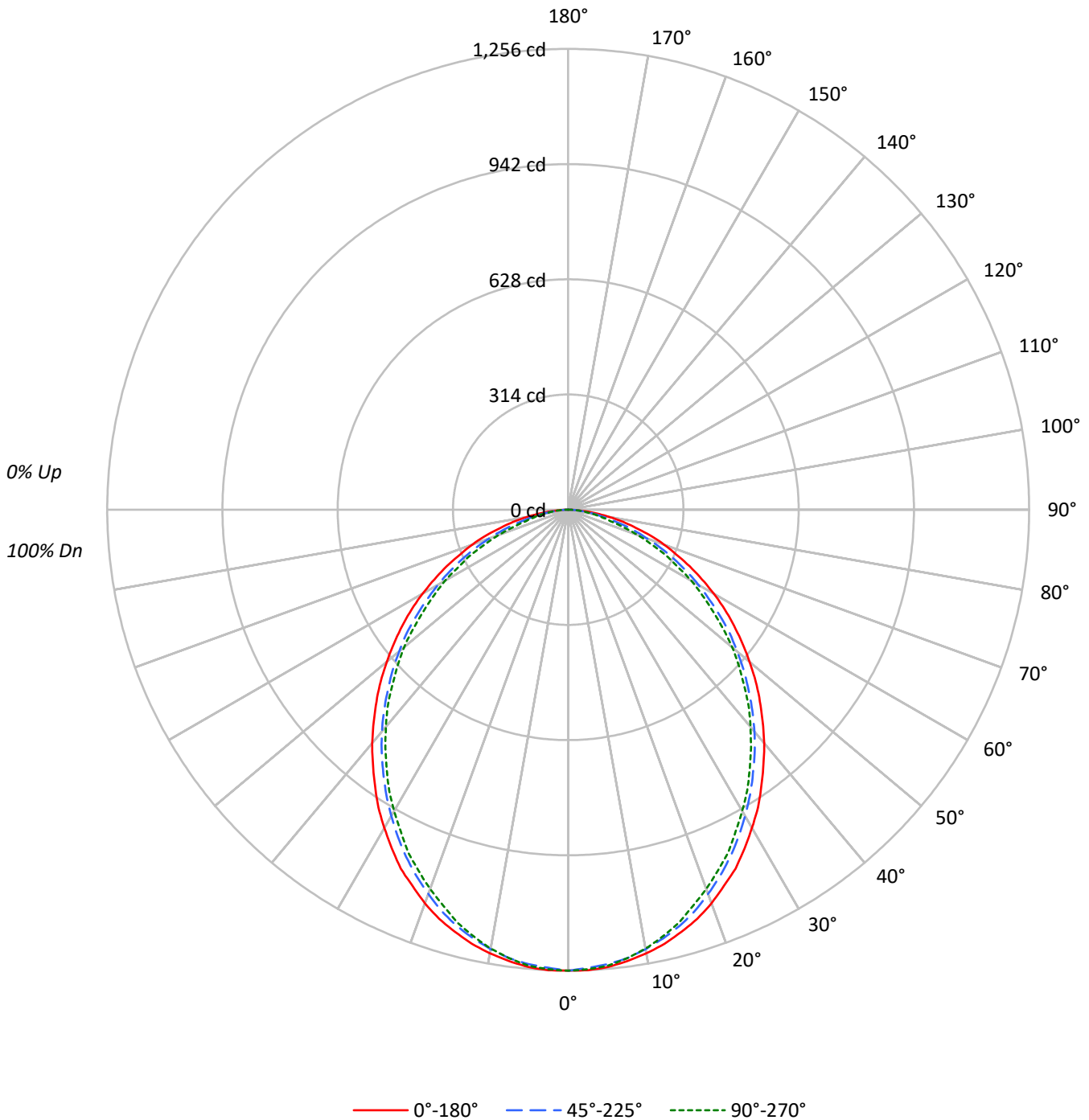
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4233	4233	4233
5°	4232	4205	4219
10°	4201	4161	4156
15°	4155	4096	4065
20°	4094	3996	3945
25°	4013	3883	3834
30°	3896	3750	3689
35°	3777	3611	3547
40°	3655	3472	3398
45°	3520	3310	3229
50°	3381	3149	3061
55°	3239	2972	2819
60°	3085	2761	2611
65°	2913	2530	2343
70°	2742	2242	1986
75°	2472	1914	1540
80°	2195	1514	1362
85°	1809	1206	1257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	3.9
10°-20°	331.3	11.0
20°-30°	482.9	16.1
30°-40°	553.6	18.4
40°-50°	541.3	18.0
50°-60°	456.6	15.2
60°-70°	319.2	10.6
70°-80°	162.8	5.4
80°-90°	41.0	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°	932.4	31.0
0°-40°	1486.1	49.4
0°-60°	2484.0	82.6
0°-90°	3007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3007.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1256	1256	1256	1256	1256	
5°	1251	1248	1243	1247	1247	119
15°	1191	1187	1174	1170	1165	336
25°	1079	1066	1044	1034	1031	496
35°	918	905	878	869	862	574
45°	739	719	694	685	678	570
55°	551	531	506	492	480	493
65°	365	343	317	299	294	362
75°	190	174	147	129	118	204
85°	47	35	31	32	32	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1256.3	1256.3	1256.3	1256.3	1256.3
2.5°	1256.3	1253.7	1249.8	1255.0	1253.7
5°	1251.1	1248.5	1243.3	1247.2	1247.2
7.5°	1240.7	1238.1	1232.9	1235.5	1232.9
10°	1227.7	1225.1	1216.0	1217.3	1214.7
12.5°	1212.0	1206.8	1196.4	1195.1	1191.2
15°	1191.2	1187.3	1174.3	1170.4	1165.2
17.5°	1169.1	1161.3	1147.0	1139.2	1131.4
20°	1141.8	1131.4	1114.5	1105.4	1100.2
22.5°	1109.3	1101.5	1080.7	1070.3	1065.1
25°	1079.4	1066.4	1044.3	1033.9	1031.3
27.5°	1040.4	1030.0	1005.3	996.2	988.4
30°	1001.4	989.7	963.7	954.6	948.1
32.5°	962.4	949.4	922.0	911.6	907.7
35°	918.1	905.1	877.8	868.7	862.2
37.5°	873.9	858.3	834.9	824.5	818.0
40°	831.0	812.8	789.4	777.7	772.5
42.5°	784.2	764.7	742.6	730.9	728.3
45°	738.7	719.2	694.5	685.4	677.6
47.5°	693.2	671.0	648.9	635.9	630.7
50°	645.0	624.2	600.8	587.8	583.9
52.5°	598.2	577.4	555.3	541.0	531.9
55°	551.4	530.6	505.9	491.6	479.9
57.5°	505.9	481.2	456.5	439.6	433.1
60°	457.8	435.7	409.7	392.7	387.5
62.5°	411.0	391.4	364.1	344.6	335.5
65°	365.4	343.3	317.3	299.1	293.9
67.5°	318.6	299.1	273.1	252.3	243.2
70°	278.3	253.6	227.6	209.4	201.6
72.5°	235.4	213.3	188.6	167.8	156.1
75°	189.9	174.3	147.0	128.7	118.3
77.5°	153.5	135.3	110.5	96.2	93.6
80°	113.1	98.8	78.0	71.5	70.2
82.5°	79.3	65.0	53.3	50.7	49.4
85°	46.8	35.1	31.2	32.5	32.5
87.5°	19.5	14.3	14.3	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)