

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: P229515

Luminaire Tested: **14RLN-LD5-35-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229515
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-L830-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR
Light Source: (112)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3353.0 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

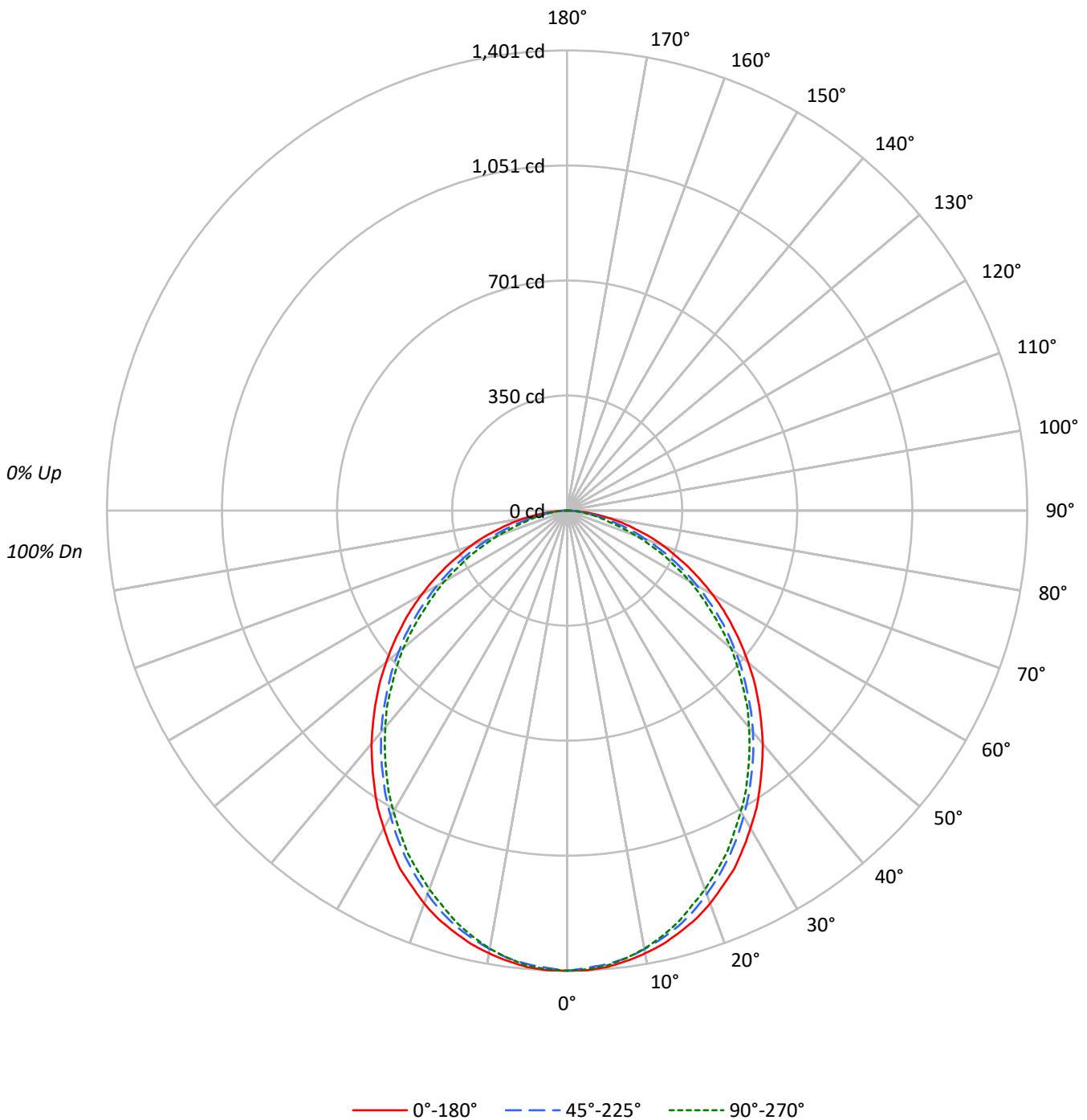
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4720	4720	4720
5°	4719	4689	4704
10°	4684	4639	4634
15°	4634	4568	4533
20°	4565	4456	4399
25°	4475	4329	4275
30°	4345	4181	4113
35°	4211	4026	3955
40°	4076	3872	3789
45°	3925	3690	3600
50°	3771	3512	3413
55°	3612	3314	3144
60°	3440	3078	2912
65°	3249	2821	2613
70°	3057	2500	2215
75°	2756	2134	1719
80°	2449	1688	1519
85°	2018	1345	1403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	3.9
10°-20°	369.5	11.0
20°-30°	538.5	16.1
30°-40°	617.3	18.4
40°-50°	603.6	18.0
50°-60°	509.2	15.2
60°-70°	355.9	10.6
70°-80°	181.5	5.4
80°-90°	45.8	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°	1039.7	31.0
0°-40°	1657.1	49.4
0°-60°	2769.8	82.6
0°-90°	3353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3353.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1395	1392	1386	1391	1391	132
15°	1328	1324	1310	1305	1299	375
25°	1204	1189	1164	1153	1150	553
35°	1024	1009	979	969	961	640
45°	824	802	774	764	756	636
55°	615	592	564	548	535	550
65°	408	383	354	334	328	404
75°	212	194	164	144	132	228
85°	52	39	35	36	36	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1400.8	1397.9	1393.6	1399.4	1397.9
5°	1395.0	1392.1	1386.3	1390.7	1390.7
7.5°	1383.4	1380.5	1374.7	1377.6	1374.7
10°	1368.9	1366.0	1355.9	1357.3	1354.4
12.5°	1351.5	1345.7	1334.1	1332.7	1328.3
15°	1328.3	1324.0	1309.5	1305.1	1299.3
17.5°	1303.7	1295.0	1279.0	1270.3	1261.6
20°	1273.2	1261.6	1242.8	1232.6	1226.8
22.5°	1237.0	1228.3	1205.1	1193.5	1187.7
25°	1203.6	1189.1	1164.4	1152.8	1149.9
27.5°	1160.1	1148.5	1120.9	1110.8	1102.1
30°	1116.6	1103.5	1074.5	1064.4	1057.1
32.5°	1073.1	1058.6	1028.1	1016.5	1012.2
35°	1023.8	1009.3	978.8	968.7	961.4
37.5°	974.5	957.1	931.0	919.4	912.1
40°	926.6	906.3	880.2	867.2	861.4
42.5°	874.4	852.7	828.0	815.0	812.1
45°	823.7	801.9	774.4	764.2	755.5
47.5°	772.9	748.3	723.6	709.1	703.3
50°	719.3	696.1	670.0	655.5	651.1
52.5°	667.1	643.9	619.2	603.3	593.1
55°	614.9	591.6	564.1	548.1	535.1
57.5°	564.1	536.5	509.0	490.1	482.9
60°	510.4	485.8	456.8	437.9	432.1
62.5°	458.2	436.5	406.0	384.3	374.1
65°	407.5	382.8	353.8	333.5	327.7
67.5°	355.3	333.5	304.5	281.3	271.2
70°	310.3	282.8	253.8	233.5	224.8
72.5°	262.5	237.8	210.3	187.1	174.0
75°	211.7	194.3	163.9	143.6	132.0
77.5°	171.1	150.8	123.3	107.3	104.4
80°	126.2	110.2	87.0	79.8	78.3
82.5°	88.5	72.5	59.5	56.6	55.1
85°	52.2	39.2	34.8	36.3	36.3
87.5°	21.8	16.0	16.0	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)