

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: P229480

Luminaire Tested: **14RLN-LD5-35-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36058)
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-L940-CD1-U
Description: METALUX 1X4 RLN LED TROFFER
Light Source: (112)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

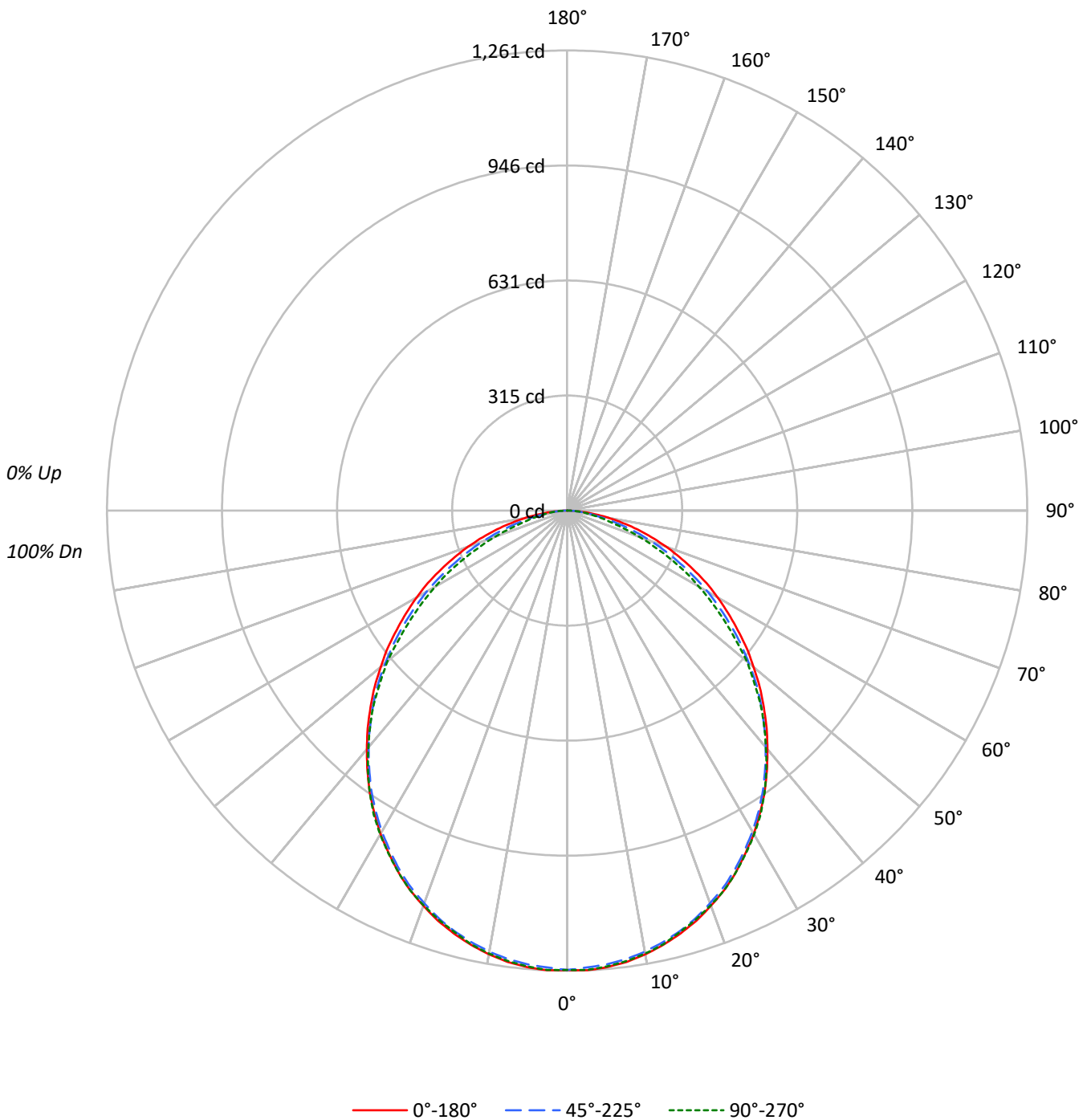
Lumens per Lamp: N/A
Luminaire Lumens: 3167.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.31
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	77	84	79	76	81	77	74	72
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4243	4243	4243
5°	4248	4222	4241
10°	4226	4199	4218
15°	4186	4162	4170
20°	4133	4105	4127
25°	4068	4039	4068
30°	3982	3951	3988
35°	3880	3848	3880
40°	3755	3724	3728
45°	3631	3582	3571
50°	3496	3406	3370
55°	3351	3214	3095
60°	3210	3000	2816
65°	3034	2712	2482
70°	2830	2408	2086
75°	2593	2017	1610
80°	2235	1510	1389
85°	1806	1264	1295



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	3.8
10°-20°	337.5	10.7
20°-30°	502.3	15.9
30°-40°	587.2	18.5
40°-50°	580.3	18.3
50°-60°	490.0	15.5
60°-70°	339.4	10.7
70°-80°	169.4	5.3
80°-90°	42.1	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°	958.7	30.3
0°-40°	1545.9	48.8
0°-60°	2616.1	82.6
0°-90°	3167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1256	1254	1248	1254	1254	119
15°	1200	1198	1193	1198	1195	338
25°	1094	1091	1086	1093	1094	503
35°	943	938	935	942	943	589
45°	762	753	752	750	749	588
55°	570	560	547	535	527	511
65°	380	363	340	322	311	377
75°	199	181	155	134	124	210
85°	47	36	33	33	34	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1259.1	1259.1	1259.1	1259.1	1259.1
2.5°	1260.7	1258.3	1252.9	1259.1	1259.9
5°	1256.0	1253.7	1248.2	1254.5	1253.7
7.5°	1247.4	1244.3	1239.7	1245.1	1245.1
10°	1235.0	1232.7	1227.2	1233.4	1232.7
12.5°	1218.7	1217.1	1211.7	1217.9	1217.1
15°	1200.0	1198.4	1193.0	1198.4	1195.3
17.5°	1178.2	1177.4	1171.2	1175.1	1174.3
20°	1152.5	1151.0	1144.7	1152.5	1151.0
22.5°	1125.3	1122.2	1118.3	1124.5	1125.3
25°	1094.1	1091.0	1086.4	1093.4	1094.1
27.5°	1058.3	1056.0	1051.3	1061.5	1059.9
30°	1023.3	1021.0	1015.5	1024.1	1024.9
32.5°	982.9	980.5	976.6	985.2	986.8
35°	943.2	938.5	935.4	942.4	943.2
37.5°	898.8	894.1	891.0	898.0	896.5
40°	853.7	848.2	846.7	852.1	847.5
42.5°	809.3	802.3	799.2	802.3	799.2
45°	761.9	753.3	751.7	750.2	749.4
47.5°	715.9	706.6	702.7	697.3	693.4
50°	666.9	656.8	649.8	644.3	642.8
52.5°	621.0	609.3	599.2	594.5	582.1
55°	570.4	560.3	547.1	535.4	526.8
57.5°	522.9	509.7	494.2	481.7	470.8
60°	476.3	459.1	445.1	425.7	417.9
62.5°	430.3	410.9	391.4	370.4	366.5
65°	380.5	362.6	340.1	322.2	311.3
67.5°	333.1	314.4	292.6	267.7	257.6
70°	287.2	266.9	244.4	220.2	211.7
72.5°	242.8	222.6	199.2	173.5	163.4
75°	199.2	181.3	154.9	133.8	123.7
77.5°	154.9	140.1	114.4	97.3	95.7
80°	115.2	101.9	77.8	73.9	71.6
82.5°	79.4	66.9	55.3	52.9	51.4
85°	46.7	35.8	32.7	32.7	33.5
87.5°	17.9	15.6	15.6	15.6	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)