

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: P229465

Luminaire Tested: **14RLN-LD5-35-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229465
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-L840-CD1-U
Description: METALUX 1X4 RLN LED TROFFER
Light Source: (112)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

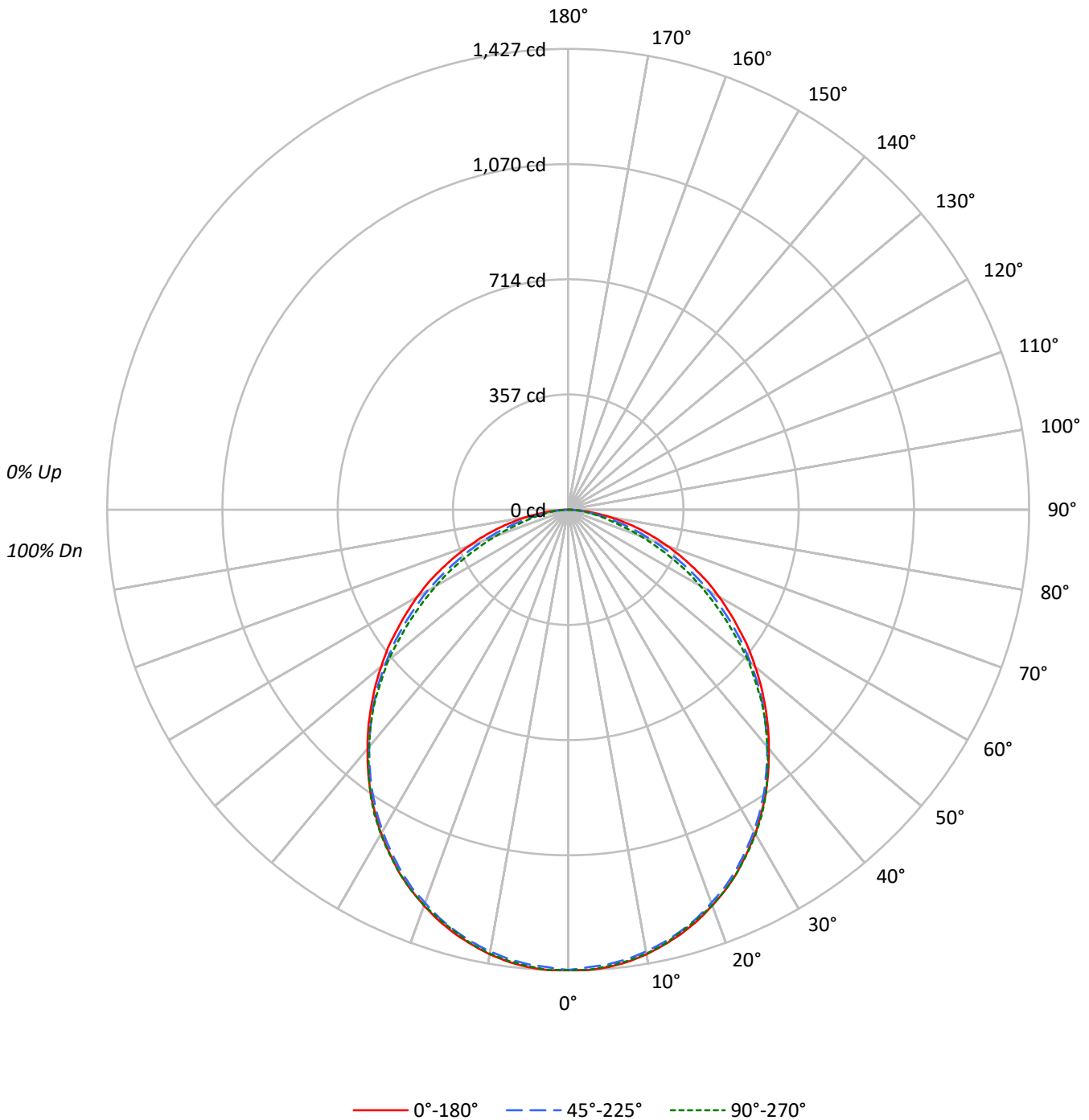
Lumens per Lamp: N/A
Luminaire Lumens: 3585.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.31
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4803	4803	4803
5°	4809	4779	4800
10°	4783	4753	4774
15°	4739	4711	4720
20°	4678	4647	4672
25°	4605	4572	4605
30°	4507	4473	4514
35°	4392	4356	4392
40°	4251	4216	4220
45°	4110	4055	4042
50°	3957	3856	3814
55°	3793	3638	3504
60°	3633	3396	3188
65°	3435	3070	2810
70°	3203	2725	2361
75°	2936	2282	1824
80°	2530	1710	1572
85°	2045	1430	1465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	3.8
10°-20°	382.0	10.7
20°-30°	568.6	15.9
30°-40°	664.7	18.5
40°-50°	656.9	18.3
50°-60°	554.6	15.5
60°-70°	384.2	10.7
70°-80°	191.7	5.3
80°-90°	47.7	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°	1085.3	30.3
0°-40°	1749.9	48.8
0°-60°	2961.5	82.6
0°-90°	3585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3585.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1425	1425	1425	1425	1425	
5°	1422	1419	1413	1420	1419	135
15°	1358	1357	1350	1357	1353	383
25°	1239	1235	1230	1238	1239	570
35°	1068	1062	1059	1067	1068	667
45°	862	853	851	849	848	666
55°	646	634	619	606	596	579
65°	431	410	385	365	352	427
75°	226	205	175	152	140	238
85°	53	40	37	37	38	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1425.3	1425.3	1425.3	1425.3	1425.3
2.5°	1427.1	1424.4	1418.3	1425.3	1426.2
5°	1421.8	1419.1	1413.0	1420.0	1419.1
7.5°	1412.1	1408.6	1403.3	1409.5	1409.5
10°	1398.0	1395.4	1389.2	1396.2	1395.4
12.5°	1379.5	1377.7	1371.6	1378.6	1377.7
15°	1358.4	1356.6	1350.4	1356.6	1353.1
17.5°	1333.7	1332.8	1325.8	1330.2	1329.3
20°	1304.6	1302.9	1295.8	1304.6	1302.9
22.5°	1273.8	1270.3	1265.9	1272.9	1273.8
25°	1238.6	1235.0	1229.7	1237.7	1238.6
27.5°	1198.0	1195.4	1190.1	1201.6	1199.8
30°	1158.4	1155.7	1149.6	1159.3	1160.2
32.5°	1112.6	1109.9	1105.5	1115.2	1117.0
35°	1067.7	1062.4	1058.9	1066.8	1067.7
37.5°	1017.4	1012.2	1008.6	1016.6	1014.8
40°	966.4	960.2	958.4	964.6	959.3
42.5°	916.1	908.2	904.7	908.2	904.7
45°	862.4	852.7	851.0	849.2	848.3
47.5°	810.4	799.9	795.5	789.3	784.9
50°	754.9	743.5	735.6	729.4	727.6
52.5°	703.0	689.8	678.3	673.0	658.9
55°	645.7	634.3	619.3	606.1	596.4
57.5°	592.0	577.0	559.4	545.3	532.9
60°	539.1	519.7	503.9	481.9	473.0
62.5°	487.1	465.1	443.1	419.3	414.9
65°	430.8	410.5	385.0	364.7	352.4
67.5°	377.0	355.9	331.2	303.0	291.6
70°	325.1	302.2	276.6	249.3	239.6
72.5°	274.8	251.9	225.5	196.4	185.0
75°	225.5	205.3	175.3	151.5	140.1
77.5°	175.3	158.6	129.5	110.1	108.4
80°	130.4	115.4	88.1	83.7	81.0
82.5°	89.9	75.8	62.5	59.9	58.1
85°	52.9	40.5	37.0	37.0	37.9
87.5°	20.3	17.6	17.6	17.6	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)