

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: P#

Luminaire Tested: **4SRL-LD5-34SL-LC-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35657)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SRL-LD5-34SL-LC-UNV-L830-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

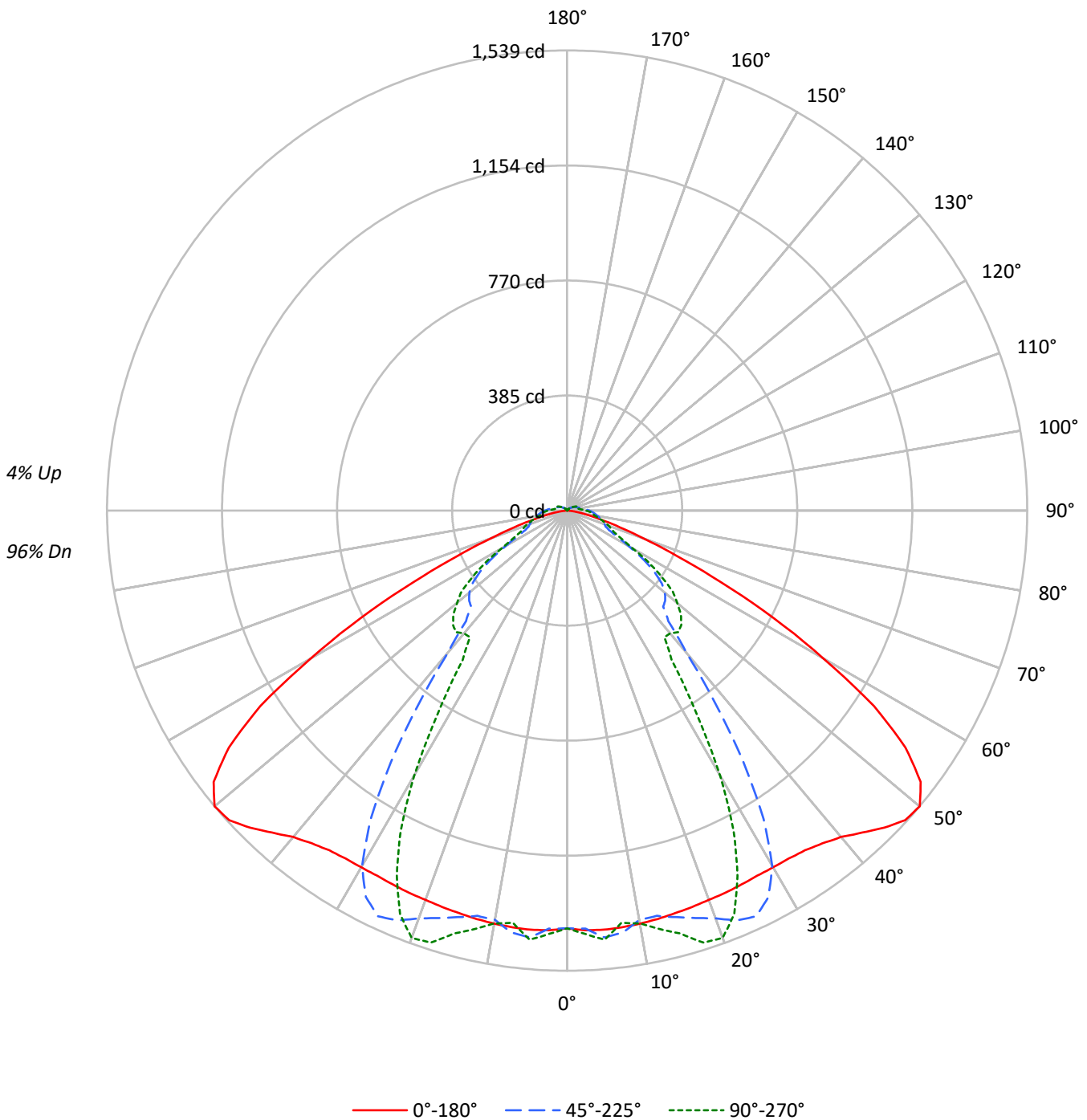
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3369.0 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Spacing Criteria (0/90/45): 1.54 / 1.13 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 3.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (A_{in}): 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	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	96	
1	109	105	101	97	106	102	99	95	97	94	92	93	90	88	89	87	85	89	87	85	83	
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	80	77	74	72	
3	93	83	76	70	90	81	75	69	78	72	67	75	70	66	72	68	64	72	68	64	62	
4	86	75	67	61	83	73	66	60	70	64	59	68	62	58	65	60	57	65	60	57	54	
5	79	67	59	53	77	66	59	53	64	57	52	61	56	51	59	54	50	59	54	50	48	
6	74	61	53	47	72	60	52	47	58	51	46	56	50	46	54	49	45	54	49	45	43	
7	69	56	48	42	67	55	47	42	53	46	41	52	45	41	50	45	40	50	45	40	38	
8	64	51	43	38	62	51	43	38	49	42	37	48	41	37	46	41	37	46	41	37	35	
9	60	47	40	35	58	47	39	34	45	39	34	44	38	34	43	37	33	43	37	33	32	
10	56	44	36	32	55	43	36	31	42	36	31	41	35	31	40	34	31	40	34	31	29	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16404	16404	16404
5°	16519	16177	16047
10°	16592	15220	14958
15°	16744	15078	15105
20°	17031	15322	15291
25°	17505	15705	13324
30°	18201	14411	10026
35°	19268	10898	5956
40°	21041	6674	5270
45°	23822	5017	5377
50°	26673	4873	4893
55°	26553	4227	4047
60°	21557	2984	2741
65°	14337	2064	1989
70°	8268	1914	1794
75°	4542	1880	1523
80°	2511	1803	1301
85°	1144	1777	1280



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	4.0
10°-20°	405.0	12.0
20°-30°	644.6	19.1
30°-40°	656.9	19.5
40°-50°	554.9	16.5
50°-60°	427.7	12.7
60°-70°	220.9	6.6
70°-80°	122.1	3.6
80°-90°	77.7	2.3
90°-100°	47.8	1.4
100°-110°	30.8	0.9
110°-120°	22.4	0.7
120°-130°	12.9	0.4
130°-140°	6.2	0.2
140°-150°	2.6	0.1
150°-160°	0.9	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	1184.7	35.2
0°-40°	1841.6	54.7
0°-60°	2824.2	83.8
0°-90°	3244.9	96.3
90°-120°	101.0	3.0
90°-150°	122.8	3.6
90°-180°	124.0	3.7
0°-180°	3369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1397	1397	1397	1397	1397	
5°	1407	1412	1433	1446	1441	134
15°	1394	1395	1408	1458	1464	395
25°	1380	1389	1497	1424	1348	639
35°	1387	1452	1028	699	609	875
45°	1500	875	454	524	540	1158
55°	1381	322	355	386	386	1196
65°	566	147	154	174	174	584
75°	117	97	119	120	117	141
85°	13	63	89	86	82	18
90°	0	49	74	68	63	1
95°	0	38	59	52	47	0
105°	0	23	39	36	34	0
115°	1	14	28	34	33	0
125°	1	7	18	22	19	1
135°	1	4	10	12	10	1
145°	1	1	5	6	5	0
155°	1	1	2	3	1	0
165°	1	1	1	1	0	0
175°	1	1	1	1	0	0
180°	1	1	1	1	1	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1397.0	1397.0	1397.0	1397.0	1397.0
2.5°	1404.9	1399.8	1399.8	1417.8	1417.8
5°	1407.0	1412.1	1432.9	1446.5	1440.8
7.5°	1405.6	1428.6	1423.5	1403.4	1390.5
10°	1402.7	1437.2	1389.8	1403.4	1402.0
12.5°	1399.1	1424.3	1388.3	1436.5	1433.6
15°	1394.1	1394.8	1407.7	1458.0	1464.5
17.5°	1389.8	1376.1	1428.6	1496.1	1514.8
20°	1385.5	1370.4	1450.9	1528.5	1520.6
22.5°	1383.3	1375.4	1483.9	1504.0	1460.2
25°	1379.7	1389.1	1496.8	1423.5	1348.1
27.5°	1376.8	1404.9	1457.3	1286.3	1205.8
30°	1377.6	1427.1	1371.8	1125.3	1024.0
32.5°	1379.7	1448.7	1223.1	909.7	804.8
35°	1386.9	1452.3	1028.3	699.2	609.4
37.5°	1402.7	1412.8	816.3	553.3	533.9
40°	1425.0	1293.5	619.4	516.7	536.1
42.5°	1460.9	1093.0	500.9	522.4	551.2
45°	1499.7	875.3	454.2	523.9	539.7
47.5°	1532.8	646.0	444.8	504.5	516.0
50°	1539.2	486.5	426.8	473.6	480.7
52.5°	1490.4	384.5	398.1	432.6	445.5
55°	1381.2	321.9	355.0	385.9	385.9
57.5°	1216.6	273.1	298.2	327.7	324.8
60°	990.2	224.9	237.9	255.8	251.5
62.5°	779.0	180.4	184.7	204.1	207.0
65°	566.3	147.3	154.5	173.9	173.9
67.5°	397.4	125.8	139.4	157.4	158.8
70°	270.9	113.5	132.9	147.3	148.0
72.5°	184.7	104.9	126.5	134.4	132.2
75°	117.1	97.0	119.3	120.0	117.1
77.5°	76.2	88.4	112.1	106.4	104.2
80°	46.7	79.8	102.8	95.6	92.0
82.5°	26.6	71.1	95.6	90.5	87.0
85°	12.9	63.2	89.1	86.2	81.9
87.5°	5.0	56.1	81.9	77.6	73.3
90°	0.0	48.9	74.0	68.3	63.2
92.5°	0.0	43.1	66.1	58.9	54.6
95°	0.0	38.1	58.9	51.7	47.4
97.5°	0.0	33.8	52.5	46.0	41.0
100°	0.0	30.2	47.4	41.0	37.4
102.5°	0.0	26.6	42.4	38.1	35.9
105°	0.0	23.0	38.8	35.9	33.8
107.5°	0.0	20.1	35.2	34.5	33.1
110°	0.0	18.0	33.1	33.8	34.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	15.8	30.2	34.5	35.2
115°	0.7	13.7	28.0	33.8	33.1
117.5°	0.7	11.5	25.2	30.2	28.7
120°	0.7	10.1	23.0	27.3	25.2
122.5°	0.7	8.6	20.1	23.7	22.3
125°	0.7	7.2	18.0	21.6	19.4
127.5°	0.7	6.5	15.8	18.7	17.2
130°	0.7	5.7	13.7	16.5	15.1
132.5°	0.7	4.3	12.2	14.4	12.2
135°	0.7	3.6	10.1	12.2	10.1
137.5°	0.7	2.9	8.6	10.1	8.6
140°	0.7	2.2	7.2	8.6	7.2
142.5°	0.7	2.2	5.7	7.9	5.7
145°	0.7	1.4	5.0	6.5	5.0
147.5°	0.7	1.4	4.3	5.7	4.3
150°	0.7	1.4	3.6	5.0	2.9
152.5°	0.7	0.7	2.9	4.3	2.2
155°	0.7	0.7	2.2	2.9	1.4
157.5°	0.7	0.7	2.2	2.2	1.4
160°	0.7	0.7	2.2	2.2	0.7
162.5°	0.7	0.7	1.4	1.4	0.0
165°	0.7	1.4	1.4	1.4	0.0
167.5°	0.7	1.4	1.4	1.4	0.0
170°	0.7	1.4	1.4	1.4	0.0
172.5°	0.7	1.4	1.4	1.4	0.0
175°	1.4	1.4	1.4	1.4	0.0
177.5°	1.4	1.4	1.4	1.4	0.0
180°	0.7	0.7	0.7	0.7	0.7

(END OF REPORT)