

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: **4SNLED-LD5-35SL-SLN-UNV-L840-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-35SL-SLN-UNV-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

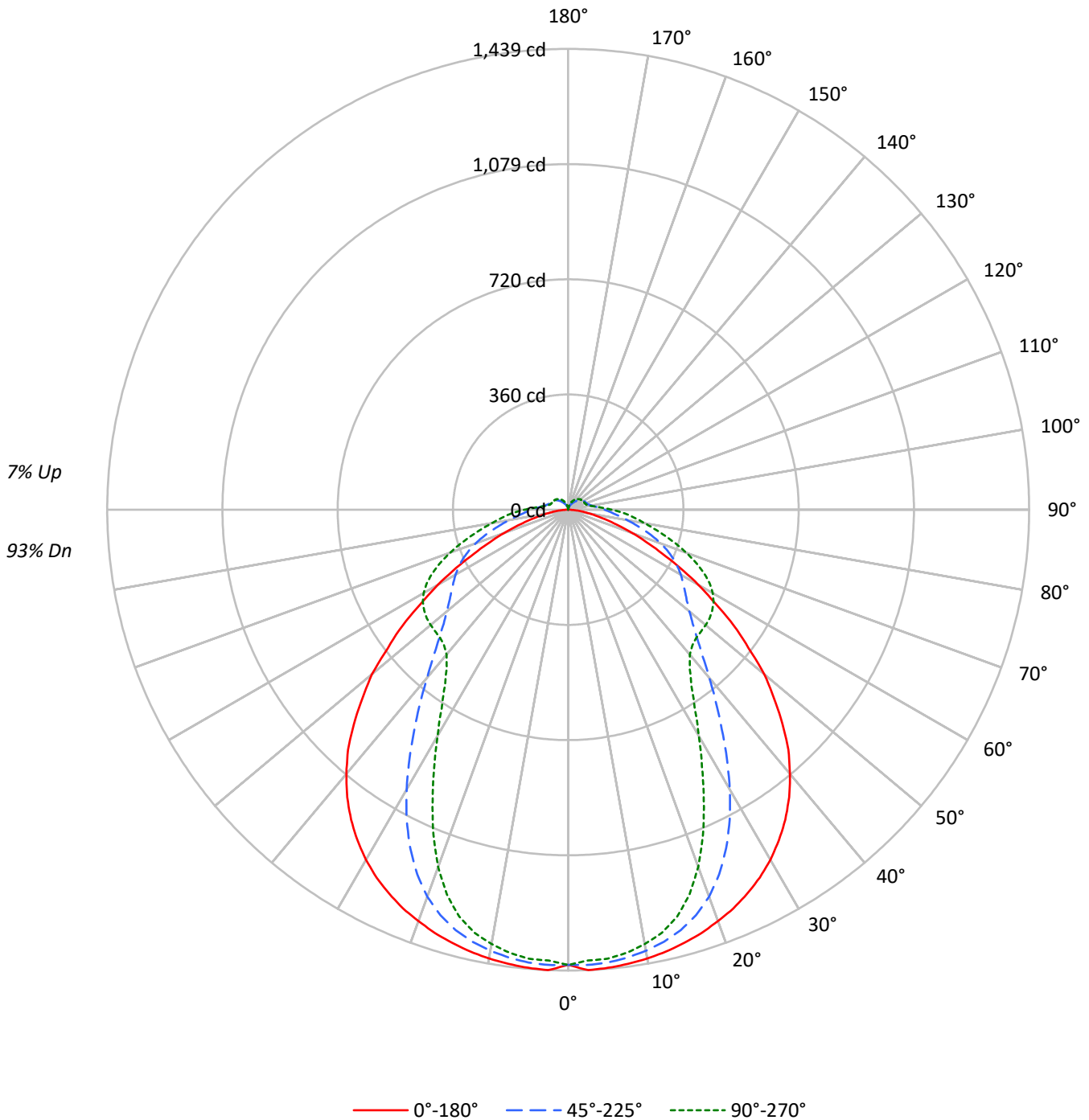
Lumens per Lamp: N/A
Luminaire Lumens: 3574.0 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
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

TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-SLN-UNV-L840-CD1-U

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11485	11485	11485
5°	11617	11231	11055
10°	11613	10920	10600
15°	11617	10555	9995
20°	11622	10011	8977
25°	11627	9173	7602
30°	11571	8072	6253
35°	11406	6868	5239
40°	11072	5816	4737
45°	10486	5055	4701
50°	9687	4621	4866
55°	8530	4441	5036
60°	7197	4378	5106
65°	5788	4281	4946
70°	4650	4060	4562
75°	3506	3675	4048
80°	2589	3299	3601
85°	1728	3113	3312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	3.8
10°-20°	380.0	10.6
20°-30°	531.2	14.9
30°-40°	551.0	15.4
40°-50°	509.1	14.2
50°-60°	454.5	12.7
60°-70°	368.3	10.3
70°-80°	245.0	6.9
80°-90°	140.3	3.9
90°-100°	77.6	2.2
100°-110°	52.6	1.5
110°-120°	43.8	1.2
120°-130°	35.6	1.0
130°-140°	25.7	0.7
140°-150°	15.5	0.4
150°-160°	7.4	0.2
160°-170°	1.9	0.1
170°-180°	0.0	0.0
0°-30°	1045.7	29.3
0°-40°	1596.8	44.7
0°-60°	2560.4	71.6
0°-90°	3314.0	92.7
90°-120°	173.9	4.9
90°-150°	250.6	7.0
90°-180°	260.0	7.3
0°-180°	3574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1436	1412	1419	1409	1408	137
15°	1400	1370	1359	1328	1315	396
25°	1323	1264	1167	1044	1002	610
35°	1182	1052	836	702	671	737
45°	946	750	570	549	566	728
55°	632	478	445	517	549	562
65°	323	289	362	444	467	326
75°	125	157	244	299	311	137
85°	25	73	144	184	189	29
90°	1	51	114	137	136	2
95°	1	43	90	96	93	1
105°	1	38	65	63	60	1
115°	1	34	57	57	55	1
125°	1	29	51	53	52	1
135°	1	22	40	47	47	1
145°	1	14	28	36	39	1
155°	1	9	17	23	28	1
165°	1	5	9	11	15	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-SLN-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1421.2	1421.2	1421.2	1421.2	1421.2
2.5°	1439.1	1415.6	1423.0	1416.8	1408.8
5°	1436.0	1411.9	1419.3	1409.4	1407.6
7.5°	1430.4	1406.3	1410.7	1398.9	1395.8
10°	1423.0	1397.7	1398.3	1381.6	1377.3
12.5°	1413.1	1385.3	1381.6	1358.8	1352.6
15°	1400.2	1370.5	1358.8	1327.9	1314.9
17.5°	1386.0	1351.4	1327.3	1279.7	1259.3
20°	1366.8	1327.9	1285.9	1213.6	1186.5
22.5°	1347.7	1299.5	1232.2	1135.8	1099.4
25°	1323.0	1264.3	1166.7	1044.4	1001.8
27.5°	1295.2	1222.9	1091.4	950.5	904.8
30°	1262.4	1172.9	1008.6	858.5	815.3
32.5°	1224.1	1116.7	921.5	775.7	735.6
35°	1181.5	1051.8	836.3	702.2	670.7
37.5°	1132.7	980.8	757.2	643.0	622.6
40°	1077.1	903.6	684.3	597.2	590.5
42.5°	1017.2	828.2	622.0	567.6	573.8
45°	946.2	749.8	569.5	549.1	565.7
47.5°	871.5	673.2	526.8	538.6	562.7
50°	799.2	602.2	493.5	531.8	560.2
52.5°	709.7	538.6	466.9	525.6	556.5
55°	632.5	478.0	444.7	517.0	549.1
57.5°	543.5	423.7	424.9	505.8	538.0
60°	469.4	374.3	405.8	490.4	521.3
62.5°	394.0	329.8	384.8	470.0	497.8
65°	323.0	289.1	361.9	443.5	466.9
67.5°	263.7	252.0	336.0	411.3	431.1
70°	213.7	218.0	307.6	375.5	392.2
72.5°	164.3	186.5	276.7	337.2	351.4
75°	125.4	156.9	244.0	298.9	311.3
77.5°	92.6	130.9	214.3	264.3	274.8
80°	65.5	108.1	186.5	234.1	242.1
82.5°	43.9	88.9	163.7	206.9	214.3
85°	25.3	72.9	143.9	184.1	189.0
87.5°	10.5	60.5	127.8	160.6	163.1
90°	1.2	51.3	113.6	137.1	135.9
92.5°	1.2	46.3	101.3	114.9	111.8
95°	1.2	43.2	90.2	96.4	93.3
97.5°	1.2	41.4	80.3	82.8	79.7
100°	0.6	40.1	73.5	73.5	70.4
102.5°	0.6	38.9	68.6	66.7	64.2
105°	0.6	37.7	64.9	63.0	59.9
107.5°	0.6	37.1	62.4	60.5	57.4
110°	0.6	35.8	60.5	58.7	56.2



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	35.2	59.3	58.1	55.0
115°	0.6	34.0	57.4	56.8	55.0
117.5°	0.6	32.7	56.2	56.2	54.4
120°	0.6	31.5	54.4	55.6	53.7
122.5°	0.6	30.3	52.5	54.4	52.5
125°	0.6	29.0	50.6	53.1	51.9
127.5°	1.2	27.2	48.2	51.9	50.6
130°	0.6	25.3	45.7	50.6	50.0
132.5°	1.2	23.5	43.2	48.8	48.8
135°	1.2	21.6	40.1	46.9	46.9
137.5°	1.2	19.1	37.1	44.5	45.1
140°	1.2	17.3	34.0	42.0	43.2
142.5°	1.2	15.4	30.9	39.5	41.4
145°	1.2	13.6	27.8	36.4	38.9
147.5°	1.2	12.4	24.7	32.7	36.4
150°	1.2	10.5	22.2	29.6	33.4
152.5°	1.2	9.3	19.8	26.6	30.9
155°	1.2	8.6	17.3	22.9	27.8
157.5°	1.2	7.4	14.8	19.8	24.7
160°	1.2	6.2	12.4	17.3	21.0
162.5°	1.2	5.6	10.5	14.2	18.5
165°	1.2	4.9	8.6	11.1	14.8
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)