

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-LD5-46SL-SLN-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-46SL-SLN-UNV-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

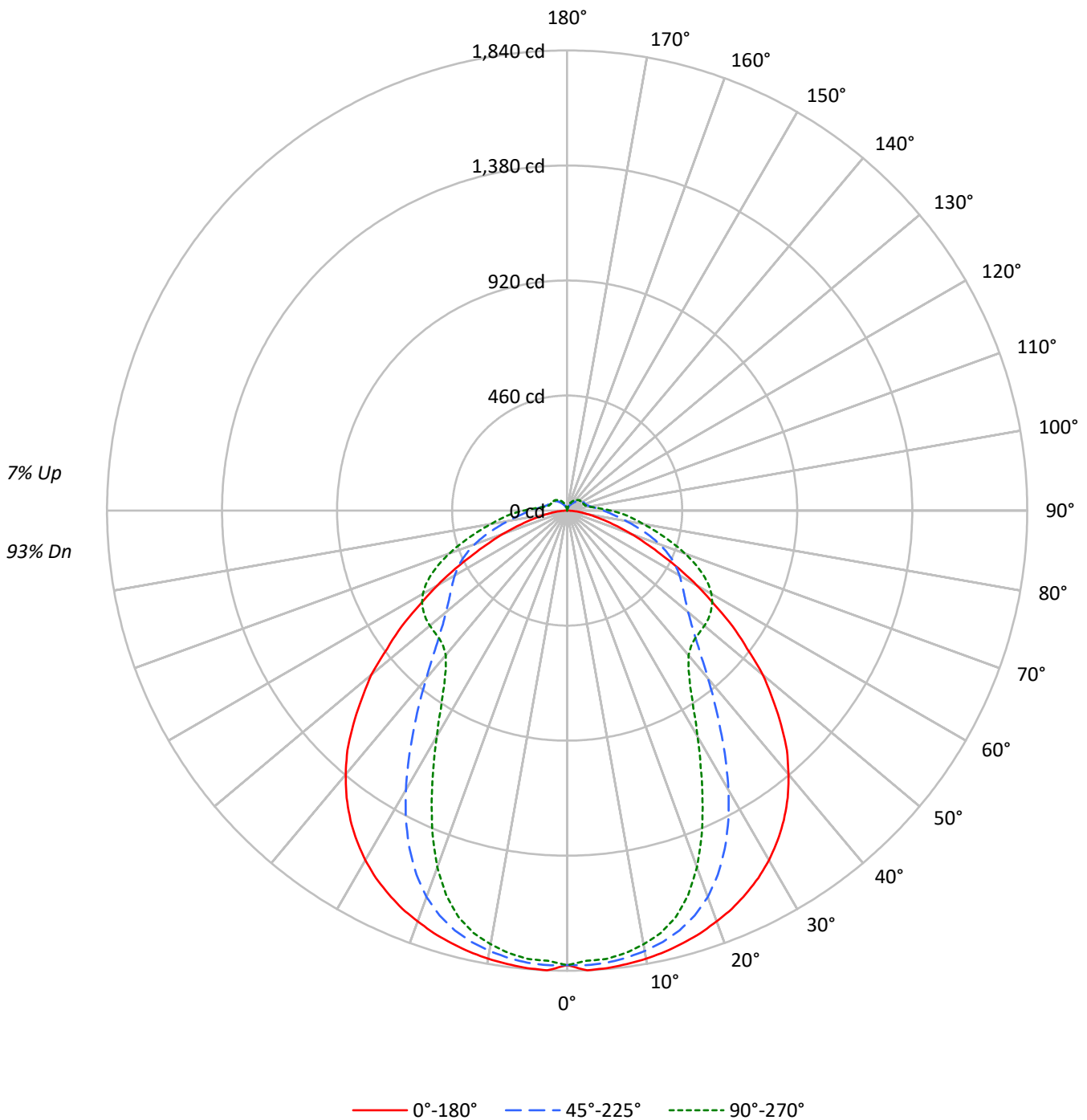
Lumens per Lamp: N/A
Luminaire Lumens: 4570.0 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 35
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



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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	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°	14685	14685	14685
5°	14854	14360	14136
10°	14849	13964	13554
15°	14854	13496	12781
20°	14861	12801	11478
25°	14866	11729	9720
30°	14795	10321	7995
35°	14585	8781	6700
40°	14158	7436	6057
45°	13408	6463	6011
50°	12386	5908	6222
55°	10907	5679	6440
60°	9202	5598	6528
65°	7401	5474	6325
70°	5947	5191	5833
75°	4482	4699	5176
80°	3309	4219	4605
85°	2213	3980	4236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	3.8
10°-20°	485.9	10.6
20°-30°	679.3	14.9
30°-40°	704.6	15.4
40°-50°	650.9	14.2
50°-60°	581.2	12.7
60°-70°	471.0	10.3
70°-80°	313.3	6.9
80°-90°	179.4	3.9
90°-100°	99.2	2.2
100°-110°	67.2	1.5
110°-120°	56.0	1.2
120°-130°	45.5	1.0
130°-140°	32.8	0.7
140°-150°	19.8	0.4
150°-160°	9.5	0.2
160°-170°	2.5	0.1
170°-180°	0.0	0.0
0°-30°	1337.2	29.3
0°-40°	2041.8	44.7
0°-60°	3273.9	71.6
0°-90°	4237.5	92.7
90°-120°	222.4	4.9
90°-150°	320.5	7.0
90°-180°	332.0	7.3
0°-180°	4570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1817	1817	1817	1817	1817	
5°	1836	1805	1815	1802	1800	175
15°	1790	1752	1738	1698	1681	506
25°	1692	1617	1492	1336	1281	779
35°	1511	1345	1069	898	858	943
45°	1210	959	728	702	723	930
55°	809	611	569	661	702	719
65°	413	370	463	567	597	418
75°	160	201	312	382	398	176
85°	32	93	184	235	242	37
90°	2	66	145	175	174	2
95°	2	55	115	123	119	1
105°	1	48	83	81	77	1
115°	1	43	73	73	70	1
125°	1	37	65	68	66	1
135°	2	28	51	60	60	1
145°	2	17	36	47	50	1
155°	2	11	22	29	36	1
165°	2	6	11	14	19	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1817.2	1817.2	1817.2	1817.2	1817.2
2.5°	1840.1	1810.1	1819.6	1811.7	1801.4
5°	1836.2	1805.4	1814.8	1802.2	1799.8
7.5°	1829.1	1798.3	1803.8	1788.8	1784.8
10°	1819.6	1787.2	1788.0	1766.7	1761.1
12.5°	1806.9	1771.4	1766.7	1737.5	1729.6
15°	1790.4	1752.5	1737.5	1698.0	1681.4
17.5°	1772.2	1728.0	1697.2	1636.4	1610.3
20°	1747.7	1698.0	1644.3	1551.9	1517.1
22.5°	1723.2	1661.6	1575.6	1452.4	1405.8
25°	1691.6	1616.6	1491.8	1335.5	1281.0
27.5°	1656.1	1563.7	1395.5	1215.4	1157.0
30°	1614.2	1499.7	1289.7	1097.8	1042.5
32.5°	1565.3	1427.9	1178.3	991.9	940.6
35°	1510.8	1344.9	1069.3	897.9	857.7
37.5°	1448.4	1254.1	968.2	822.1	796.1
40°	1377.3	1155.4	875.0	763.7	755.0
42.5°	1300.7	1059.1	795.3	725.8	733.7
45°	1209.9	958.8	728.1	702.1	723.4
47.5°	1114.3	860.8	673.7	688.7	719.5
50°	1021.9	770.0	631.0	680.0	716.3
52.5°	907.4	688.7	597.1	672.1	711.6
55°	808.7	611.3	568.6	661.0	702.1
57.5°	695.0	541.8	543.3	646.8	687.9
60°	600.2	478.6	518.9	627.1	666.5
62.5°	503.9	421.7	492.0	601.0	636.5
65°	413.0	369.6	462.8	567.0	597.1
67.5°	337.2	322.2	429.6	526.0	551.2
70°	273.3	278.8	393.3	480.2	501.5
72.5°	210.1	238.5	353.8	431.2	449.4
75°	160.3	200.6	312.0	382.2	398.0
77.5°	118.5	167.4	274.0	338.0	351.4
80°	83.7	138.2	238.5	299.3	309.6
82.5°	56.1	113.7	209.3	264.6	274.0
85°	32.4	93.2	184.0	235.3	241.7
87.5°	13.4	77.4	163.5	205.3	208.5
90°	1.6	65.5	145.3	175.3	173.7
92.5°	1.6	59.2	129.5	146.9	142.9
95°	1.6	55.3	115.3	123.2	119.3
97.5°	1.6	52.9	102.7	105.8	101.9
100°	0.8	51.3	94.0	94.0	90.0
102.5°	0.8	49.8	87.7	85.3	82.1
105°	0.8	48.2	82.9	80.6	76.6
107.5°	0.8	47.4	79.8	77.4	73.4
110°	0.8	45.8	77.4	75.0	71.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	45.0	75.8	74.2	70.3
115°	0.8	43.4	73.4	72.7	70.3
117.5°	0.8	41.9	71.9	71.9	69.5
120°	0.8	40.3	69.5	71.1	68.7
122.5°	0.8	38.7	67.1	69.5	67.1
125°	0.8	37.1	64.8	67.9	66.3
127.5°	1.6	34.7	61.6	66.3	64.8
130°	0.8	32.4	58.4	64.8	64.0
132.5°	1.6	30.0	55.3	62.4	62.4
135°	1.6	27.6	51.3	60.0	60.0
137.5°	1.6	24.5	47.4	56.9	57.7
140°	1.6	22.1	43.4	53.7	55.3
142.5°	1.6	19.7	39.5	50.5	52.9
145°	1.6	17.4	35.5	46.6	49.8
147.5°	1.6	15.8	31.6	41.9	46.6
150°	1.6	13.4	28.4	37.9	42.6
152.5°	1.6	11.8	25.3	34.0	39.5
155°	1.6	11.1	22.1	29.2	35.5
157.5°	1.6	9.5	19.0	25.3	31.6
160°	1.6	7.9	15.8	22.1	26.9
162.5°	1.6	7.1	13.4	18.2	23.7
165°	1.6	6.3	11.1	14.2	19.0
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)