

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-LD5-52SL-SLC-UNV-L935-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-52SL-SLC-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

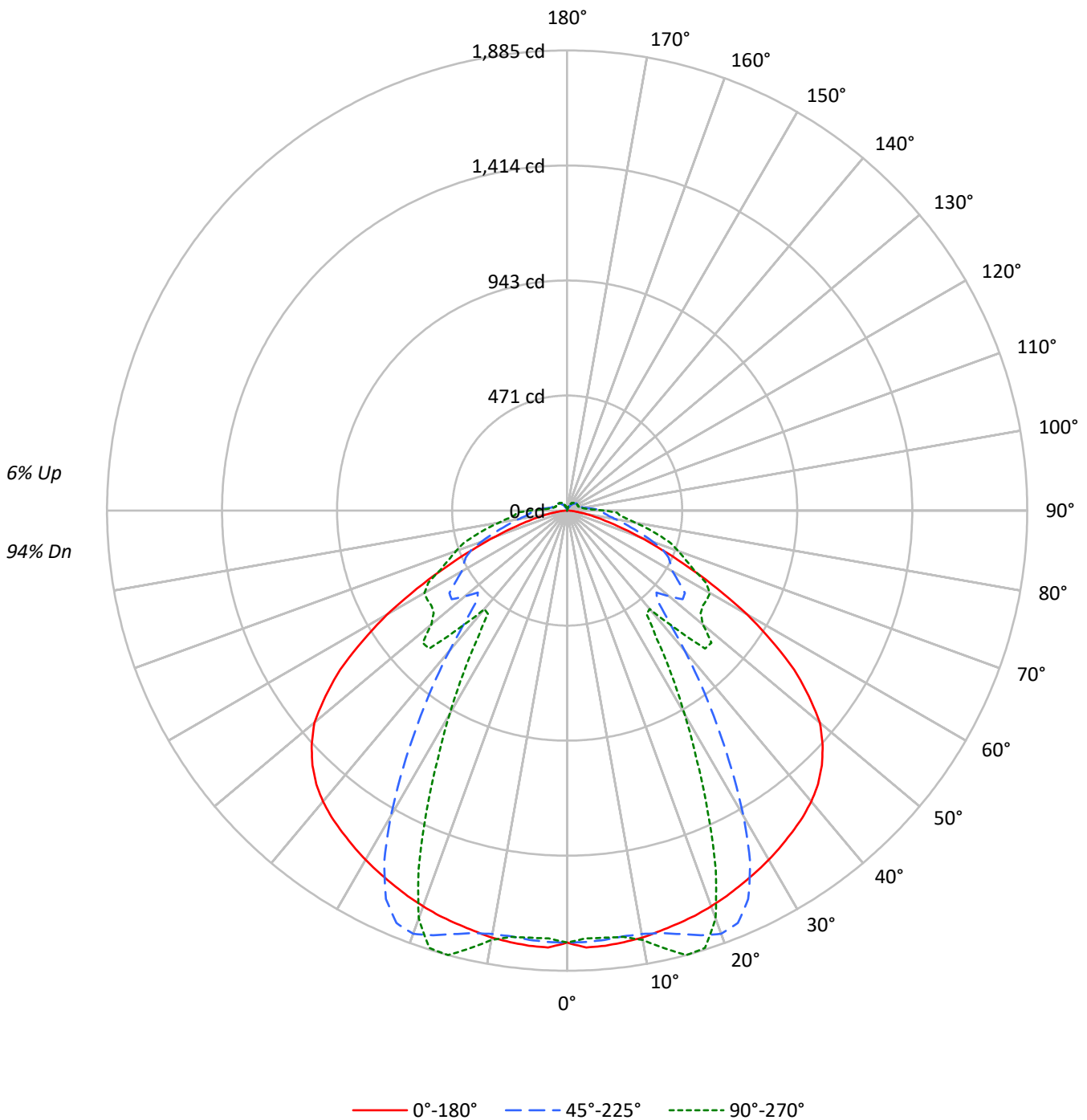
Lumens per Lamp: N/A
Luminaire Lumens: 4546.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 41
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14301	14301	14301
5°	14475	13966	13795
10°	14493	13754	13747
15°	14533	13948	14328
20°	14668	14362	13448
25°	14851	13803	10356
30°	15144	11561	7366
35°	15519	8755	4988
40°	15993	6365	4223
45°	16356	4617	6640
50°	16380	5112	6301
55°	15310	5884	6222
60°	13045	5384	6614
65°	9813	5430	6050
70°	6887	4943	5631
75°	4513	4142	5054
80°	2882	3549	4206
85°	1551	3372	3775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	3.7
10°-20°	508.4	11.2
20°-30°	738.6	16.2
30°-40°	705.7	15.5
40°-50°	645.5	14.2
50°-60°	596.0	13.1
60°-70°	473.4	10.4
70°-80°	292.2	6.4
80°-90°	159.1	3.5
90°-100°	80.4	1.8
100°-110°	50.5	1.1
110°-120°	42.8	0.9
120°-130°	35.0	0.8
130°-140°	25.1	0.6
140°-150°	15.5	0.3
150°-160°	7.3	0.2
160°-170°	1.9	0.0
170°-180°	0.0	0.0
0°-30°	1415.4	31.1
0°-40°	2121.1	46.7
0°-60°	3362.7	74.0
0°-90°	4287.5	94.3
90°-120°	173.8	3.8
90°-150°	249.3	5.5
90°-180°	259.0	5.7
0°-180°	4546.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1770	1770	1770	1770	1770	
5°	1789	1762	1765	1756	1756	170
15°	1752	1728	1796	1862	1885	496
25°	1690	1723	1756	1486	1365	781
35°	1608	1582	1066	734	638	1008
45°	1476	1029	520	664	799	1134
55°	1135	528	589	634	678	1000
65°	548	342	459	558	571	554
75°	161	182	275	364	389	183
85°	23	78	156	212	215	29
90°	1	58	139	165	153	1
95°	0	54	96	85	81	0
105°	0	49	60	54	53	0
115°	0	40	57	51	49	0
125°	1	32	51	49	47	1
135°	1	23	41	45	43	1
145°	1	14	28	36	38	1
155°	2	9	17	23	27	1
165°	2	5	9	11	15	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°	1769.7	1769.7	1769.7	1769.7	1769.7
2.5°	1791.6	1765.8	1768.9	1763.4	1754.0
5°	1789.3	1761.9	1765.0	1755.6	1756.4
7.5°	1783.0	1754.8	1758.7	1757.2	1761.1
10°	1776.0	1746.2	1761.1	1774.4	1786.2
12.5°	1763.4	1736.8	1772.8	1812.0	1836.3
15°	1751.7	1728.2	1795.6	1862.2	1884.9
17.5°	1739.9	1725.1	1823.8	1881.7	1878.6
20°	1725.1	1723.5	1844.9	1825.3	1777.5
22.5°	1708.6	1724.3	1828.5	1685.1	1591.1
25°	1689.8	1722.7	1755.6	1486.1	1364.7
27.5°	1671.0	1715.7	1623.2	1268.3	1148.5
30°	1652.2	1696.9	1444.6	1069.3	960.5
32.5°	1630.3	1656.1	1250.3	893.1	792.8
35°	1607.5	1581.7	1066.2	734.1	638.5
37.5°	1584.0	1474.4	900.9	594.6	533.5
40°	1555.8	1339.6	748.9	510.0	526.4
42.5°	1520.6	1187.6	615.0	535.1	649.4
45°	1475.9	1029.4	520.2	663.5	799.1
47.5°	1419.5	877.4	496.7	759.9	802.2
50°	1351.4	738.0	546.0	728.6	725.4
52.5°	1248.0	622.0	596.2	664.3	689.4
55°	1135.2	528.0	589.1	633.8	678.4
57.5°	992.6	464.6	540.6	627.5	679.2
60°	850.8	422.3	499.0	626.7	675.3
62.5°	694.1	383.9	477.9	611.8	640.8
65°	547.6	342.3	459.1	557.8	571.1
67.5°	419.9	300.0	426.2	497.5	524.1
70°	316.5	258.5	374.5	451.2	484.1
72.5°	228.0	219.4	321.2	410.5	445.0
75°	161.4	182.5	275.0	364.3	388.6
77.5°	111.2	148.8	235.8	313.4	332.9
80°	72.9	119.1	200.6	269.5	282.8
82.5°	43.9	95.6	173.9	235.8	242.9
85°	22.7	77.6	155.9	212.3	215.4
87.5°	7.1	65.0	145.7	201.3	205.3
90°	0.8	58.0	139.4	165.3	152.8
92.5°	0.0	54.8	120.6	112.8	101.1
95°	0.0	54.1	96.4	85.4	80.7
97.5°	0.0	52.5	79.1	71.3	68.9
100°	0.0	50.9	68.2	62.7	61.9
102.5°	0.0	50.1	61.9	57.2	56.4
105°	0.0	48.6	59.5	54.1	53.3
107.5°	0.0	46.2	58.0	52.5	50.9
110°	0.0	43.9	58.0	51.7	49.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	41.5	58.0	50.9	48.6
115°	0.0	40.0	57.2	50.9	48.6
117.5°	0.8	38.4	56.4	50.9	48.6
120°	0.0	36.8	54.8	50.9	47.8
122.5°	0.8	34.5	53.3	50.1	47.8
125°	0.8	32.1	50.9	49.4	47.0
127.5°	0.8	29.8	48.6	47.8	45.4
130°	0.8	27.4	46.2	47.0	44.7
132.5°	0.8	25.1	43.1	45.4	43.9
135°	0.8	22.7	40.7	44.7	43.1
137.5°	0.8	20.4	37.6	42.3	42.3
140°	0.8	18.0	34.5	40.7	41.5
142.5°	0.8	16.5	31.3	39.2	40.0
145°	0.8	14.1	28.2	36.0	38.4
147.5°	0.8	12.5	25.1	32.9	36.0
150°	0.8	11.0	21.9	29.8	32.9
152.5°	0.8	9.4	19.6	25.9	30.6
155°	1.6	8.6	17.2	22.7	27.4
157.5°	1.6	7.1	14.1	19.6	23.5
160°	1.6	6.3	12.5	16.5	21.2
162.5°	1.6	5.5	10.2	14.1	18.0
165°	1.6	4.7	8.6	11.0	14.9
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)