

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-LD5-56SL-SLN-UNV-L930-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-LD5-56SL-SLN-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

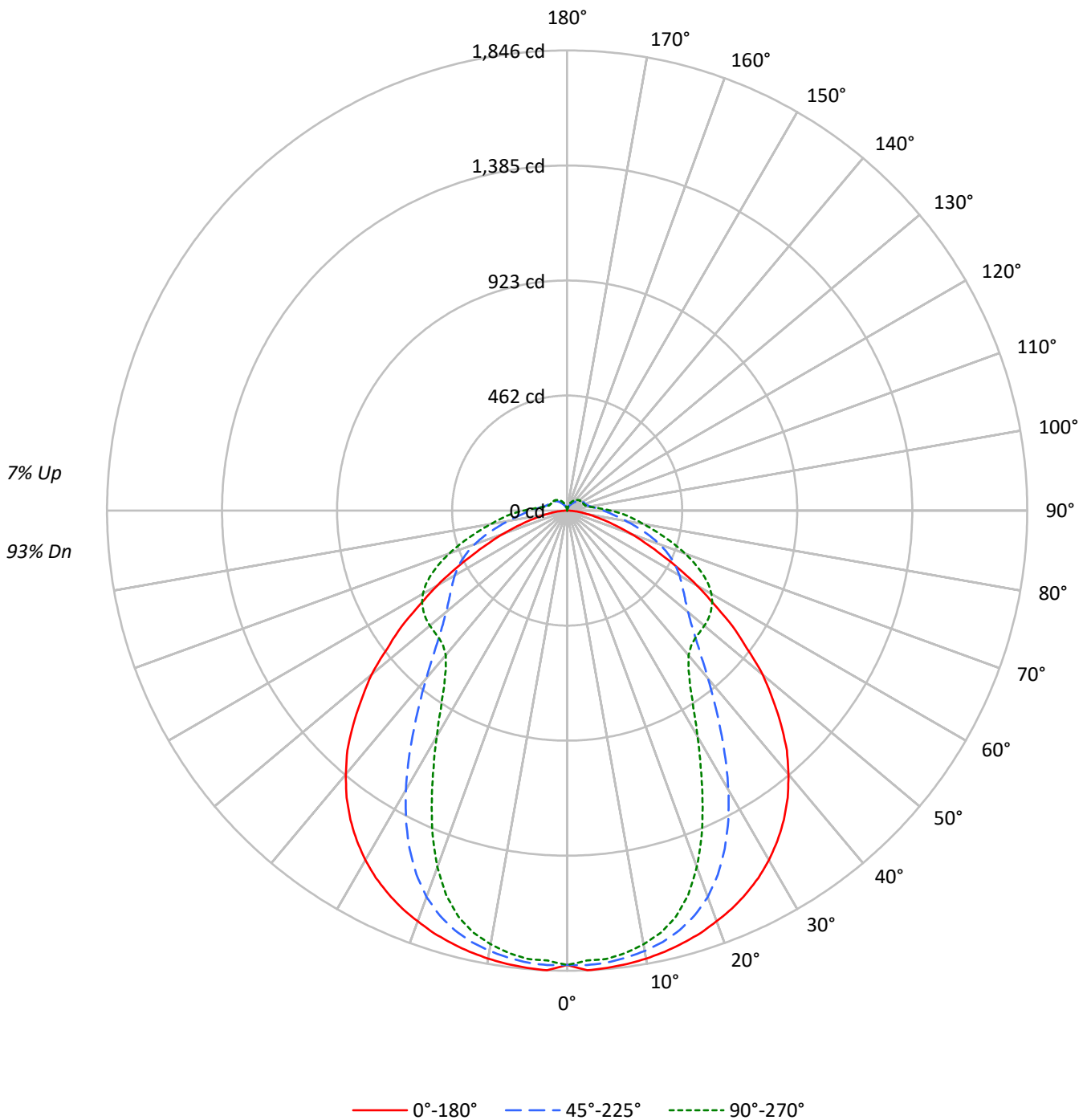
Lumens per Lamp: N/A
Luminaire Lumens: 4584.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 46
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°	14730	14730	14730
5°	14900	14405	14180
10°	14895	14007	13595
15°	14899	13537	12820
20°	14906	12840	11514
25°	14912	11765	9750
30°	14841	10352	8020
35°	14629	8808	6721
40°	14201	7459	6075
45°	13449	6483	6029
50°	12425	5926	6241
55°	10941	5697	6459
60°	9230	5616	6548
65°	7424	5491	6344
70°	5964	5207	5851
75°	4496	4713	5193
80°	3321	4231	4618
85°	2220	3993	4248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.5	3.8
10°-20°	487.4	10.6
20°-30°	681.4	14.9
30°-40°	706.8	15.4
40°-50°	652.9	14.2
50°-60°	582.9	12.7
60°-70°	472.4	10.3
70°-80°	314.2	6.9
80°-90°	180.0	3.9
90°-100°	99.6	2.2
100°-110°	67.4	1.5
110°-120°	56.1	1.2
120°-130°	45.6	1.0
130°-140°	32.9	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°	1341.3	29.3
0°-40°	2048.0	44.7
0°-60°	3283.9	71.6
0°-90°	4250.5	92.7
90°-120°	223.1	4.9
90°-150°	321.5	7.0
90°-180°	334.0	7.3
0°-180°	4584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1823	1823	1823	1823	1823	
5°	1842	1811	1820	1808	1805	175
15°	1796	1758	1743	1703	1686	507
25°	1697	1622	1496	1340	1285	782
35°	1515	1349	1073	901	860	945
45°	1214	962	730	704	726	933
55°	811	613	570	663	704	721
65°	414	371	464	569	599	419
75°	161	201	313	383	399	176
85°	32	94	185	236	242	37
90°	2	66	146	176	174	3
95°	2	56	116	124	120	1
105°	1	48	83	81	77	1
115°	1	44	74	73	70	1
125°	1	37	65	68	66	1
135°	2	28	52	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°	1822.8	1822.8	1822.8	1822.8	1822.8
2.5°	1845.8	1815.7	1825.2	1817.2	1806.9
5°	1841.8	1810.9	1820.4	1807.7	1805.4
7.5°	1834.7	1803.8	1809.3	1794.3	1790.3
10°	1825.2	1792.7	1793.5	1772.1	1766.5
12.5°	1812.5	1776.8	1772.1	1742.8	1734.9
15°	1795.8	1757.8	1742.8	1703.2	1686.5
17.5°	1777.6	1733.3	1702.4	1641.4	1615.2
20°	1753.1	1703.2	1649.3	1556.6	1521.8
22.5°	1728.5	1666.7	1580.4	1456.8	1410.1
25°	1696.8	1621.6	1496.4	1339.6	1284.9
27.5°	1661.2	1568.5	1399.8	1219.1	1160.5
30°	1619.2	1504.3	1293.6	1101.1	1045.7
32.5°	1570.1	1432.2	1181.9	995.0	943.5
35°	1515.4	1349.1	1072.6	900.7	860.3
37.5°	1452.8	1258.0	971.2	824.6	798.5
40°	1381.5	1158.9	877.7	766.0	757.3
42.5°	1304.7	1062.3	797.7	728.0	735.9
45°	1213.6	961.7	730.4	704.2	725.6
47.5°	1117.8	863.5	675.7	690.8	721.7
50°	1025.1	772.4	632.9	682.1	718.5
52.5°	910.2	690.8	598.9	674.1	713.7
55°	811.2	613.1	570.4	663.0	704.2
57.5°	697.1	543.4	545.0	648.8	690.0
60°	602.0	480.1	520.5	629.0	668.6
62.5°	505.4	423.0	493.5	602.8	638.5
65°	414.3	370.7	464.2	568.8	598.9
67.5°	338.3	323.2	430.9	527.6	552.9
70°	274.1	279.6	394.5	481.6	503.0
72.5°	210.7	239.2	354.9	432.5	450.7
75°	160.8	201.2	312.9	383.4	399.3
77.5°	118.8	167.9	274.9	339.0	352.5
80°	84.0	138.6	239.2	300.2	310.5
82.5°	56.2	114.1	209.9	265.4	274.9
85°	32.5	93.5	184.6	236.1	242.4
87.5°	13.5	77.6	164.0	206.0	209.1
90°	1.6	65.8	145.8	175.9	174.3
92.5°	1.6	59.4	129.9	147.3	143.4
95°	1.6	55.5	115.7	123.6	119.6
97.5°	1.6	53.1	103.0	106.2	102.2
100°	0.8	51.5	94.3	94.3	90.3
102.5°	0.8	49.9	87.9	85.6	82.4
105°	0.8	48.3	83.2	80.8	76.8
107.5°	0.8	47.5	80.0	77.6	73.7
110°	0.8	45.9	77.6	75.3	72.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	45.2	76.0	74.5	70.5
115°	0.8	43.6	73.7	72.9	70.5
117.5°	0.8	42.0	72.1	72.1	69.7
120°	0.8	40.4	69.7	71.3	68.9
122.5°	0.8	38.8	67.3	69.7	67.3
125°	0.8	37.2	65.0	68.1	66.5
127.5°	1.6	34.9	61.8	66.5	65.0
130°	0.8	32.5	58.6	65.0	64.2
132.5°	1.6	30.1	55.5	62.6	62.6
135°	1.6	27.7	51.5	60.2	60.2
137.5°	1.6	24.6	47.5	57.0	57.8
140°	1.6	22.2	43.6	53.9	55.5
142.5°	1.6	19.8	39.6	50.7	53.1
145°	1.6	17.4	35.6	46.7	49.9
147.5°	1.6	15.8	31.7	42.0	46.7
150°	1.6	13.5	28.5	38.0	42.8
152.5°	1.6	11.9	25.3	34.1	39.6
155°	1.6	11.1	22.2	29.3	35.6
157.5°	1.6	9.5	19.0	25.3	31.7
160°	1.6	7.9	15.8	22.2	26.9
162.5°	1.6	7.1	13.5	18.2	23.8
165°	1.6	6.3	11.1	14.3	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)