

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-L850-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-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

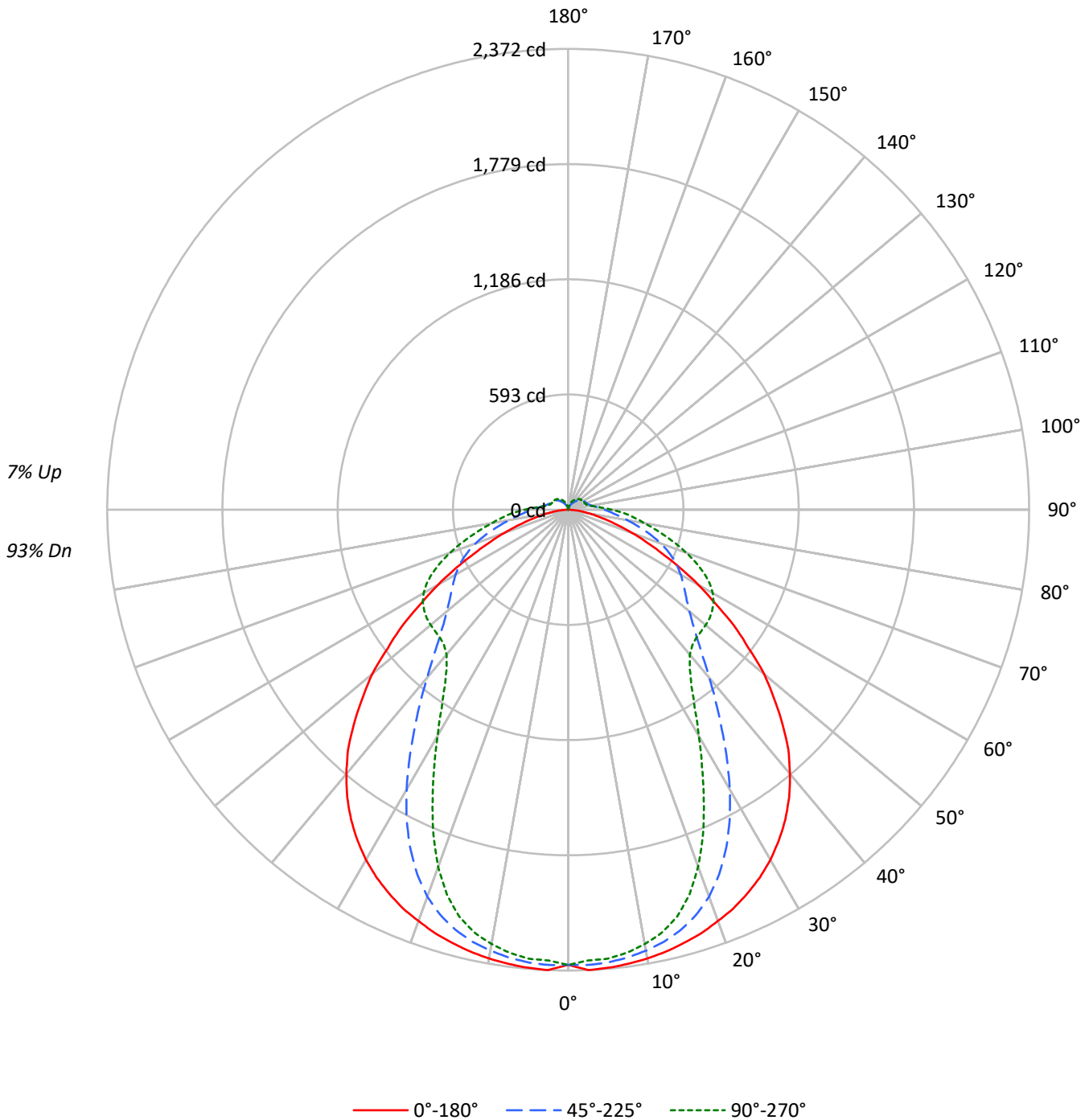
Lumens per Lamp: N/A
Luminaire Lumens: 5891.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	18930	18930	18930
5°	19148	18511	18222
10°	19142	18000	17472
15°	19148	17397	16476
20°	19156	16500	14796
25°	19164	15120	12530
30°	19073	13304	10306
35°	18801	11319	8637
40°	18251	9586	7807
45°	17283	8331	7748
50°	15966	7616	8021
55°	14060	7321	8301
60°	11862	7216	8415
65°	9541	7057	8153
70°	7664	6692	7520
75°	5780	6056	6673
80°	4265	5438	5936
85°	2849	5131	5459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.6	3.8
10°-20°	626.4	10.6
20°-30°	875.7	14.9
30°-40°	908.3	15.4
40°-50°	839.1	14.2
50°-60°	749.2	12.7
60°-70°	607.1	10.3
70°-80°	403.8	6.9
80°-90°	231.2	3.9
90°-100°	127.9	2.2
100°-110°	86.6	1.5
110°-120°	72.1	1.2
120°-130°	58.6	1.0
130°-140°	42.3	0.7
140°-150°	25.5	0.4
150°-160°	12.3	0.2
160°-170°	3.2	0.1
170°-180°	0.0	0.0
0°-30°	1723.7	29.3
0°-40°	2632.0	44.7
0°-60°	4220.2	71.6
0°-90°	5462.4	92.7
90°-120°	286.7	4.9
90°-150°	413.1	7.0
90°-180°	429.0	7.3
0°-180°	5891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2342	2342	2342	2342	2342	
5°	2367	2327	2339	2323	2320	225
15°	2308	2259	2240	2189	2167	652
25°	2181	2084	1923	1722	1651	1005
35°	1948	1734	1378	1158	1106	1215
45°	1560	1236	939	905	932	1199
55°	1042	788	733	852	905	927
65°	532	476	597	731	770	538
75°	207	259	402	493	513	227
85°	42	120	237	303	312	48
90°	2	84	187	226	224	3
95°	2	71	149	159	154	1
105°	1	62	107	104	99	1
115°	1	56	95	94	91	1
125°	1	48	84	88	86	1
135°	2	36	66	77	77	1
145°	2	22	46	60	64	1
155°	2	14	28	38	46	1
165°	2	8	14	18	24	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°	2342.5	2342.5	2342.5	2342.5	2342.5
2.5°	2372.0	2333.3	2345.6	2335.4	2322.1
5°	2366.9	2327.2	2339.4	2323.2	2320.1
7.5°	2357.8	2318.1	2325.2	2305.8	2300.8
10°	2345.6	2303.8	2304.8	2277.3	2270.2
12.5°	2329.3	2283.5	2277.3	2239.7	2229.5
15°	2307.9	2259.0	2239.7	2188.8	2167.4
17.5°	2284.5	2227.5	2187.8	2109.4	2075.8
20°	2252.9	2188.8	2119.5	2000.4	1955.6
22.5°	2221.4	2141.9	2031.0	1872.2	1812.1
25°	2180.6	2083.9	1923.1	1721.5	1651.3
27.5°	2134.8	2015.7	1798.9	1566.8	1491.4
30°	2080.9	1933.2	1662.5	1415.1	1343.8
32.5°	2017.7	1840.6	1518.9	1278.7	1212.5
35°	1947.5	1733.7	1378.4	1157.5	1105.6
37.5°	1867.1	1616.6	1248.1	1059.8	1026.2
40°	1775.5	1489.4	1128.0	984.4	973.2
42.5°	1676.7	1365.2	1025.2	935.6	945.8
45°	1559.6	1235.9	938.6	905.0	932.5
47.5°	1436.4	1109.7	868.4	887.7	927.4
50°	1317.3	992.6	813.4	876.5	923.4
52.5°	1169.7	887.7	769.6	866.3	917.2
55°	1042.5	788.0	733.0	852.1	905.0
57.5°	895.9	698.4	700.4	833.8	886.7
60°	773.7	616.9	668.8	808.3	859.2
62.5°	649.5	543.6	634.2	774.7	820.5
65°	532.4	476.4	596.6	730.9	769.6
67.5°	434.7	415.4	553.8	678.0	710.6
70°	352.2	359.4	507.0	619.0	646.5
72.5°	270.8	307.4	456.1	555.8	579.3
75°	206.7	258.6	402.1	492.7	513.1
77.5°	152.7	215.8	353.3	435.7	453.0
80°	107.9	178.2	307.4	385.8	399.1
82.5°	72.3	146.6	269.8	341.0	353.3
85°	41.7	120.1	237.2	303.4	311.5
87.5°	17.3	99.8	210.7	264.7	268.8
90°	2.0	84.5	187.3	226.0	224.0
92.5°	2.0	76.4	167.0	189.4	184.3
95°	2.0	71.3	148.6	158.8	153.7
97.5°	2.0	68.2	132.3	136.4	131.3
100°	1.0	66.2	121.1	121.1	116.1
102.5°	1.0	64.1	113.0	109.9	105.9
105°	1.0	62.1	106.9	103.8	98.7
107.5°	1.0	61.1	102.8	99.8	94.7
110°	1.0	59.0	99.8	96.7	92.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	58.0	97.7	95.7	90.6
115°	1.0	56.0	94.7	93.7	90.6
117.5°	1.0	54.0	92.6	92.6	89.6
120°	1.0	51.9	89.6	91.6	88.6
122.5°	1.0	49.9	86.5	89.6	86.5
125°	1.0	47.8	83.5	87.6	85.5
127.5°	2.0	44.8	79.4	85.5	83.5
130°	1.0	41.7	75.3	83.5	82.5
132.5°	2.0	38.7	71.3	80.4	80.4
135°	2.0	35.6	66.2	77.4	77.4
137.5°	2.0	31.6	61.1	73.3	74.3
140°	2.0	28.5	56.0	69.2	71.3
142.5°	2.0	25.5	50.9	65.2	68.2
145°	2.0	22.4	45.8	60.1	64.1
147.5°	2.0	20.4	40.7	54.0	60.1
150°	2.0	17.3	36.6	48.9	55.0
152.5°	2.0	15.3	32.6	43.8	50.9
155°	2.0	14.3	28.5	37.7	45.8
157.5°	2.0	12.2	24.4	32.6	40.7
160°	2.0	10.2	20.4	28.5	34.6
162.5°	2.0	9.2	17.3	23.4	30.5
165°	2.0	8.1	14.3	18.3	24.4
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)