

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-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-LD5-46SL-SLN-UNV-L850-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

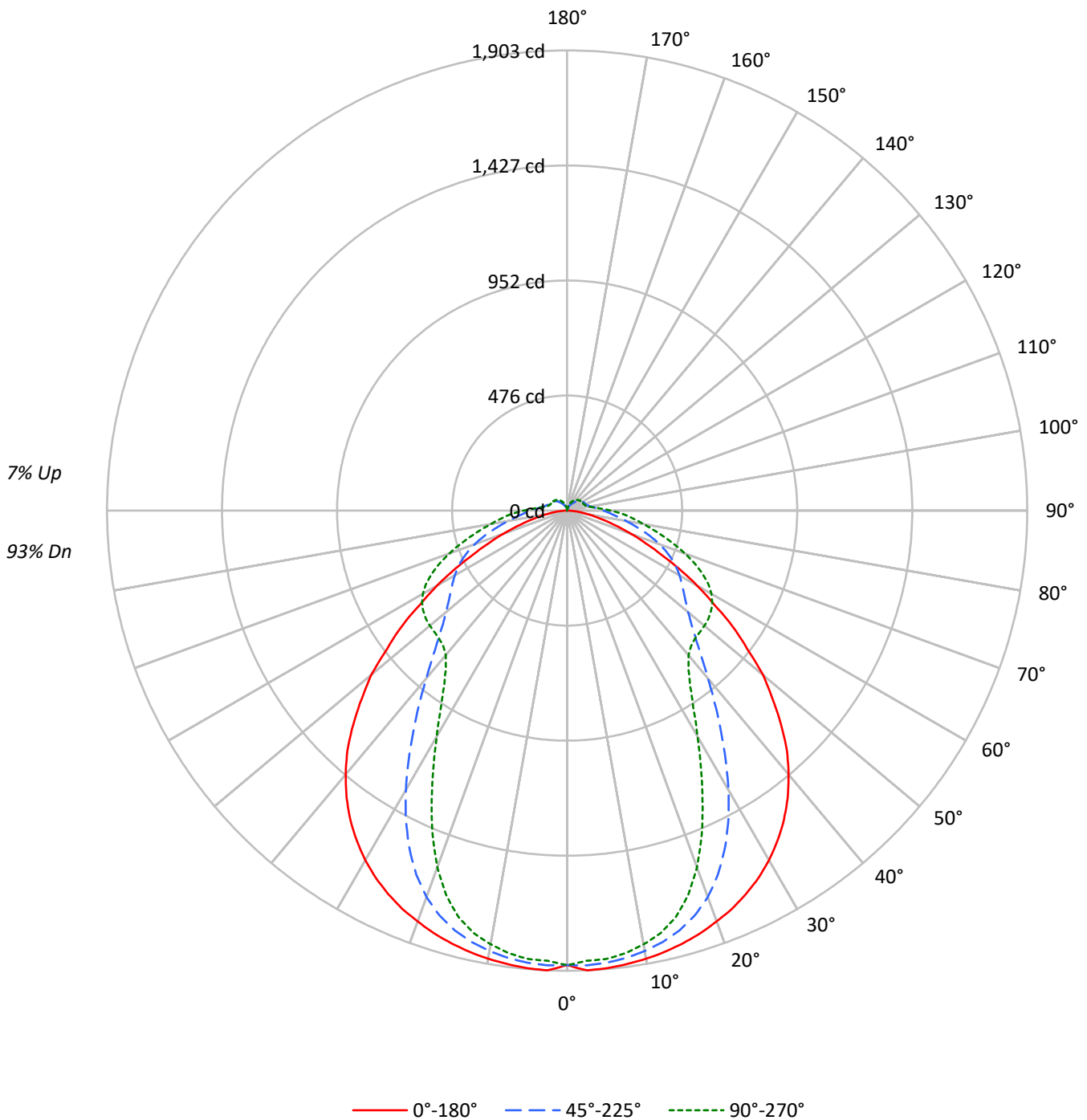
Lumens per Lamp: N/A  
Luminaire Lumens: 4727.0 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 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°	15189	15189	15189
5°	15364	14854	14622
10°	15359	14443	14020
15°	15364	13959	13220
20°	15372	13240	11872
25°	15378	12132	10054
30°	15304	10676	8270
35°	15086	9083	6930
40°	14644	7692	6265
45°	13869	6686	6218
50°	12811	6111	6436
55°	11282	5875	6661
60°	9518	5790	6752
65°	7656	5662	6543
70°	6149	5370	6033
75°	4636	4860	5354
80°	3423	4364	4762
85°	2289	4116	4381



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.8	3.8
10°-20°	502.6	10.6
20°-30°	702.6	14.9
30°-40°	728.8	15.4
40°-50°	673.3	14.2
50°-60°	601.1	12.7
60°-70°	487.2	10.3
70°-80°	324.0	6.9
80°-90°	185.6	3.9
90°-100°	102.7	2.2
100°-110°	69.5	1.5
110°-120°	57.9	1.2
120°-130°	47.1	1.0
130°-140°	33.9	0.7
140°-150°	20.5	0.4
150°-160°	9.8	0.2
160°-170°	2.5	0.1
170°-180°	0.0	0.0
0°-30°	1383.1	29.3
0°-40°	2111.9	44.7
0°-60°	3386.3	71.6
0°-90°	4383.1	92.7
90°-120°	230.1	4.9
90°-150°	331.5	7.0
90°-180°	344.0	7.3
0°-180°	4727.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1880	1880	1880	1880	1880	
5°	1899	1867	1877	1864	1862	181
15°	1852	1813	1797	1756	1739	523
25°	1750	1672	1543	1381	1325	806
35°	1563	1391	1106	929	887	975
45°	1252	992	753	726	748	962
55°	836	632	588	684	726	744
65°	427	382	479	586	618	432
75°	166	208	323	395	412	182
85°	34	96	190	243	250	39
90°	2	68	150	181	180	3
95°	2	57	119	127	123	1
105°	1	50	86	83	79	1
115°	1	45	76	75	73	1
125°	1	38	67	70	69	1
135°	2	29	53	62	62	1
145°	2	18	37	48	52	1
155°	2	11	23	30	37	1
165°	2	6	11	15	20	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°	1879.6	1879.6	1879.6	1879.6	1879.6
2.5°	1903.3	1872.3	1882.1	1873.9	1863.3
5°	1899.2	1867.4	1877.2	1864.1	1861.7
7.5°	1891.9	1860.0	1865.8	1850.2	1846.2
10°	1882.1	1848.6	1849.4	1827.4	1821.6
12.5°	1869.0	1832.3	1827.4	1797.1	1789.0
15°	1851.9	1812.7	1797.1	1756.3	1739.1
17.5°	1833.1	1787.3	1755.5	1692.6	1665.6
20°	1807.8	1756.3	1700.7	1605.2	1569.2
22.5°	1782.4	1718.7	1629.7	1502.2	1454.0
25°	1749.8	1672.2	1543.1	1381.3	1325.0
27.5°	1713.0	1617.4	1443.4	1257.2	1196.7
30°	1669.7	1551.3	1334.0	1135.5	1078.3
32.5°	1619.1	1476.9	1218.8	1026.0	972.9
35°	1562.7	1391.1	1106.1	928.8	887.1
37.5°	1498.2	1297.2	1001.5	850.4	823.4
40°	1424.6	1195.1	905.1	789.9	780.9
42.5°	1345.4	1095.4	822.6	750.7	758.9
45°	1251.5	991.7	753.2	726.2	748.3
47.5°	1152.6	890.4	696.8	712.3	744.2
50°	1057.0	796.5	652.7	703.3	740.9
52.5°	938.6	712.3	617.6	695.2	736.0
55°	836.5	632.3	588.2	683.7	726.2
57.5°	718.9	560.4	562.0	669.0	711.5
60°	620.8	495.0	536.7	648.6	689.4
62.5°	521.2	436.2	508.9	621.6	658.4
65°	427.2	382.3	478.7	586.5	617.6
67.5°	348.8	333.3	444.4	544.0	570.2
70°	282.6	288.4	406.8	496.7	518.7
72.5°	217.3	246.7	366.0	446.0	464.8
75°	165.8	207.5	322.7	395.4	411.7
77.5°	122.5	173.2	283.5	349.6	363.5
80°	86.6	143.0	246.7	309.6	320.2
82.5°	58.0	117.6	216.5	273.7	283.5
85°	33.5	96.4	190.3	243.4	250.0
87.5°	13.9	80.1	169.1	212.4	215.7
90°	1.6	67.8	150.3	181.3	179.7
92.5°	1.6	61.3	134.0	151.9	147.9
95°	1.6	57.2	119.3	127.4	123.3
97.5°	1.6	54.7	106.2	109.5	105.4
100°	0.8	53.1	97.2	97.2	93.1
102.5°	0.8	51.5	90.7	88.2	85.0
105°	0.8	49.8	85.8	83.3	79.2
107.5°	0.8	49.0	82.5	80.1	76.0
110°	0.8	47.4	80.1	77.6	74.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	46.6	78.4	76.8	72.7
115°	0.8	44.9	76.0	75.2	72.7
117.5°	0.8	43.3	74.3	74.3	71.9
120°	0.8	41.7	71.9	73.5	71.1
122.5°	0.8	40.0	69.4	71.9	69.4
125°	0.8	38.4	67.0	70.3	68.6
127.5°	1.6	35.9	63.7	68.6	67.0
130°	0.8	33.5	60.4	67.0	66.2
132.5°	1.6	31.0	57.2	64.5	64.5
135°	1.6	28.6	53.1	62.1	62.1
137.5°	1.6	25.3	49.0	58.8	59.6
140°	1.6	22.9	44.9	55.5	57.2
142.5°	1.6	20.4	40.8	52.3	54.7
145°	1.6	18.0	36.8	48.2	51.5
147.5°	1.6	16.3	32.7	43.3	48.2
150°	1.6	13.9	29.4	39.2	44.1
152.5°	1.6	12.3	26.1	35.1	40.8
155°	1.6	11.4	22.9	30.2	36.8
157.5°	1.6	9.8	19.6	26.1	32.7
160°	1.6	8.2	16.3	22.9	27.8
162.5°	1.6	7.4	13.9	18.8	24.5
165°	1.6	6.5	11.4	14.7	19.6
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)