

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-L835-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-L835-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

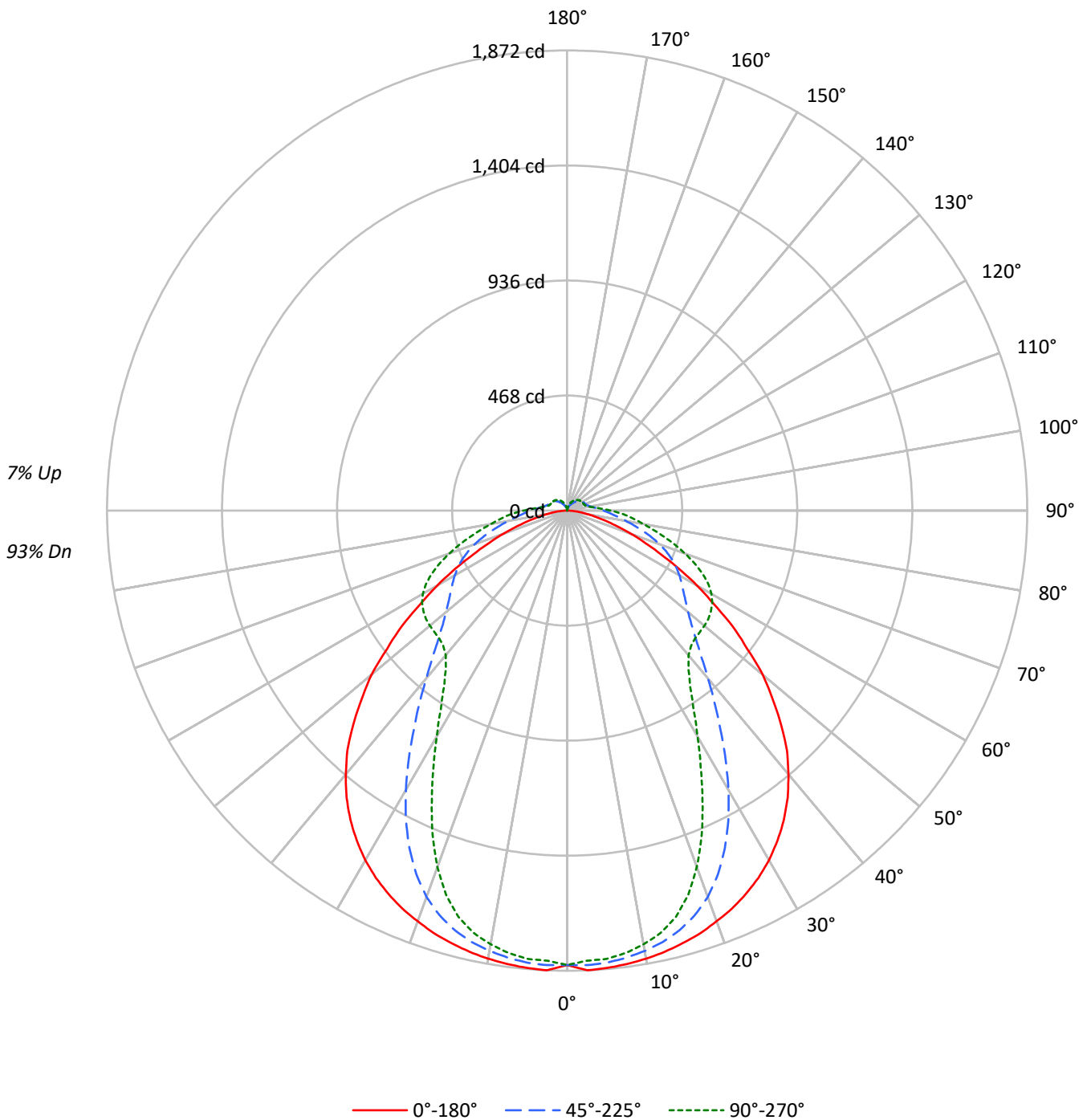
Lumens per Lamp: N/A  
Luminaire Lumens: 4649.0 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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°	14939	14939	14939
5°	15111	14609	14381
10°	15105	14205	13789
15°	15111	13729	13002
20°	15117	13022	11677
25°	15124	11932	9888
30°	15052	10500	8133
35°	14837	8933	6816
40°	14403	7565	6162
45°	13640	6575	6115
50°	12600	6010	6330
55°	11096	5777	6551
60°	9362	5694	6641
65°	7530	5569	6435
70°	6049	5281	5934
75°	4561	4779	5266
80°	3368	4292	4684
85°	2248	4049	4308



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.9	3.8
10°-20°	494.3	10.6
20°-30°	691.0	14.9
30°-40°	716.8	15.4
40°-50°	662.2	14.2
50°-60°	591.2	12.7
60°-70°	479.1	10.3
70°-80°	318.7	6.9
80°-90°	182.5	3.9
90°-100°	101.0	2.2
100°-110°	68.4	1.5
110°-120°	56.9	1.2
120°-130°	46.3	1.0
130°-140°	33.4	0.7
140°-150°	20.1	0.4
150°-160°	9.7	0.2
160°-170°	2.5	0.1
170°-180°	0.0	0.0
0°-30°	1360.3	29.3
0°-40°	2077.1	44.7
0°-60°	3330.5	71.6
0°-90°	4310.8	92.7
90°-120°	226.2	4.9
90°-150°	326.0	7.0
90°-180°	338.0	7.3
0°-180°	4649.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1849	1849	1849	1849	1849	
5°	1868	1837	1846	1833	1831	178
15°	1821	1783	1768	1727	1710	515
25°	1721	1645	1518	1359	1303	793
35°	1537	1368	1088	914	872	959
45°	1231	975	741	714	736	946
55°	823	622	578	672	714	732
65°	420	376	471	577	607	425
75°	163	204	317	389	405	179
85°	33	95	187	239	246	38
90°	2	67	148	178	177	3
95°	2	56	117	125	121	1
105°	1	49	84	82	78	1
115°	1	44	75	74	72	1
125°	1	38	66	69	68	1
135°	2	28	52	61	61	1
145°	2	18	36	47	51	1
155°	2	11	22	30	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°	1848.6	1848.6	1848.6	1848.6	1848.6
2.5°	1871.9	1841.4	1851.0	1843.0	1832.6
5°	1867.9	1836.6	1846.2	1833.4	1831.0
7.5°	1860.7	1829.3	1835.0	1819.7	1815.7
10°	1851.0	1818.1	1818.9	1797.2	1791.6
12.5°	1838.2	1802.0	1797.2	1767.5	1759.5
15°	1821.3	1782.7	1767.5	1727.3	1710.4
17.5°	1802.8	1757.8	1726.5	1664.6	1638.1
20°	1777.9	1727.3	1672.7	1578.7	1543.3
22.5°	1753.0	1690.4	1602.8	1477.5	1430.1
25°	1720.9	1644.6	1517.6	1358.6	1303.1
27.5°	1684.7	1590.7	1419.6	1236.4	1177.0
30°	1642.2	1525.7	1312.0	1116.7	1060.5
32.5°	1592.3	1452.6	1198.7	1009.1	956.9
35°	1536.9	1368.2	1087.8	913.5	872.5
37.5°	1473.4	1275.8	985.0	836.3	809.8
40°	1401.1	1175.4	890.2	776.9	768.1
42.5°	1323.2	1077.4	809.0	738.3	746.4
45°	1230.8	975.3	740.7	714.2	735.9
47.5°	1133.6	875.7	685.3	700.6	731.9
50°	1039.6	783.3	641.9	691.7	728.7
52.5°	923.1	700.6	607.4	683.7	723.9
55°	822.7	621.8	578.4	672.4	714.2
57.5°	707.0	551.1	552.7	658.0	699.8
60°	610.6	486.9	527.8	637.9	678.1
62.5°	512.6	429.0	500.5	611.4	647.5
65°	420.2	376.0	470.8	576.8	607.4
67.5°	343.1	327.8	437.1	535.1	560.8
70°	278.0	283.6	400.1	488.5	510.2
72.5°	213.7	242.6	359.9	438.7	457.1
75°	163.1	204.1	317.3	388.8	404.9
77.5°	120.5	170.3	278.8	343.9	357.5
80°	85.2	140.6	242.6	304.5	314.9
82.5°	57.0	115.7	212.9	269.1	278.8
85°	32.9	94.8	187.2	239.4	245.8
87.5°	13.7	78.7	166.3	208.9	212.1
90°	1.6	66.7	147.8	178.4	176.7
92.5°	1.6	60.3	131.8	149.4	145.4
95°	1.6	56.2	117.3	125.3	121.3
97.5°	1.6	53.8	104.4	107.7	103.6
100°	0.8	52.2	95.6	95.6	91.6
102.5°	0.8	50.6	89.2	86.8	83.6
105°	0.8	49.0	84.4	81.9	77.9
107.5°	0.8	48.2	81.1	78.7	74.7
110°	0.8	46.6	78.7	76.3	73.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	45.8	77.1	75.5	71.5
115°	0.8	44.2	74.7	73.9	71.5
117.5°	0.8	42.6	73.1	73.1	70.7
120°	0.8	41.0	70.7	72.3	69.9
122.5°	0.8	39.4	68.3	70.7	68.3
125°	0.8	37.8	65.9	69.1	67.5
127.5°	1.6	35.3	62.7	67.5	65.9
130°	0.8	32.9	59.5	65.9	65.1
132.5°	1.6	30.5	56.2	63.5	63.5
135°	1.6	28.1	52.2	61.1	61.1
137.5°	1.6	24.9	48.2	57.8	58.6
140°	1.6	22.5	44.2	54.6	56.2
142.5°	1.6	20.1	40.2	51.4	53.8
145°	1.6	17.7	36.2	47.4	50.6
147.5°	1.6	16.1	32.1	42.6	47.4
150°	1.6	13.7	28.9	38.6	43.4
152.5°	1.6	12.1	25.7	34.5	40.2
155°	1.6	11.2	22.5	29.7	36.2
157.5°	1.6	9.6	19.3	25.7	32.1
160°	1.6	8.0	16.1	22.5	27.3
162.5°	1.6	7.2	13.7	18.5	24.1
165°	1.6	6.4	11.2	14.5	19.3
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)