

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-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-46SL-SLC-UNV-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

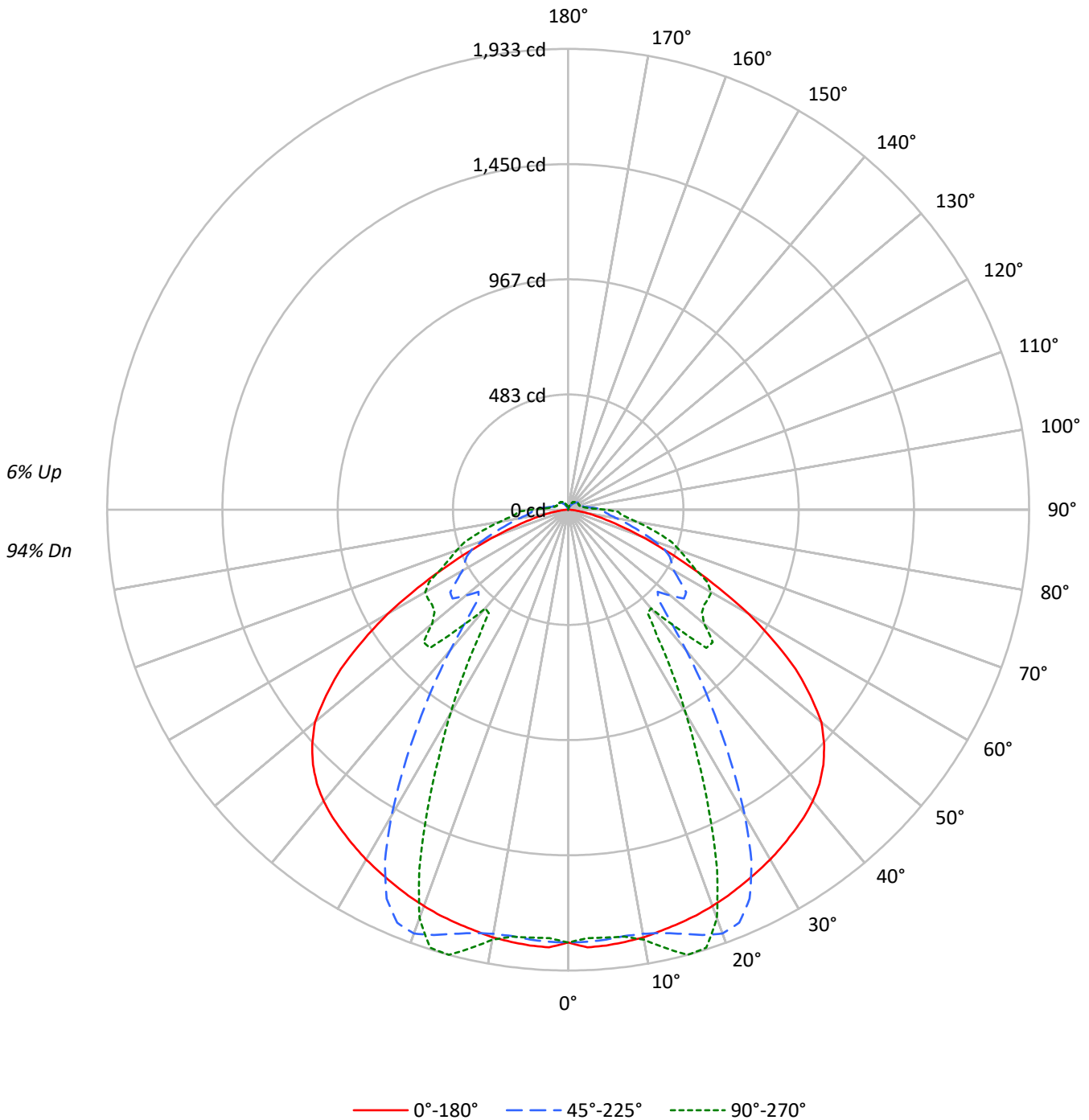
Lumens per Lamp: N/A
Luminaire Lumens: 4662.0 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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	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°	14666	14666	14666
5°	14845	14323	14147
10°	14863	14104	14097
15°	14904	14303	14694
20°	15043	14729	13792
25°	15229	14155	10620
30°	15531	11856	7554
35°	15915	8979	5115
40°	16401	6527	4331
45°	16774	4735	6809
50°	16798	5243	6462
55°	15700	6035	6381
60°	13377	5522	6782
65°	10064	5569	6205
70°	7063	5069	5775
75°	4628	4247	5182
80°	2953	3639	4313
85°	1592	3459	3871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.7	3.7
10°-20°	521.4	11.2
20°-30°	757.5	16.2
30°-40°	723.7	15.5
40°-50°	662.0	14.2
50°-60°	611.2	13.1
60°-70°	485.5	10.4
70°-80°	299.7	6.4
80°-90°	163.2	3.5
90°-100°	82.5	1.8
100°-110°	51.8	1.1
110°-120°	43.9	0.9
120°-130°	35.8	0.8
130°-140°	25.7	0.6
140°-150°	15.9	0.3
150°-160°	7.5	0.2
160°-170°	2.0	0.0
170°-180°	0.0	0.0
0°-30°	1451.5	31.1
0°-40°	2175.3	46.7
0°-60°	3448.5	74.0
0°-90°	4396.9	94.3
90°-120°	178.2	3.8
90°-150°	255.6	5.5
90°-180°	265.0	5.7
0°-180°	4662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1815	1815	1815	1815	1815	
5°	1835	1807	1810	1800	1801	175
15°	1796	1772	1841	1910	1933	508
25°	1733	1767	1800	1524	1400	801
35°	1649	1622	1093	753	655	1034
45°	1514	1056	534	680	820	1163
55°	1164	542	604	650	696	1025
65°	562	351	471	572	586	568
75°	166	187	282	374	398	188
85°	23	80	160	218	221	30
90°	1	60	143	170	157	1
95°	0	55	99	88	83	0
105°	0	50	61	55	55	0
115°	0	41	59	52	50	0
125°	1	33	52	51	48	1
135°	1	23	42	46	44	1
145°	1	14	29	37	39	1
155°	2	9	18	23	28	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°	1814.9	1814.9	1814.9	1814.9	1814.9
2.5°	1837.4	1810.9	1814.1	1808.4	1798.8
5°	1835.0	1806.8	1810.1	1800.4	1801.2
7.5°	1828.5	1799.6	1803.6	1802.0	1806.0
10°	1821.3	1790.8	1806.0	1819.7	1831.7
12.5°	1808.4	1781.1	1818.1	1858.3	1883.2
15°	1796.4	1772.3	1841.4	1909.7	1933.0
17.5°	1784.3	1769.1	1870.3	1929.8	1926.5
20°	1769.1	1767.5	1892.0	1871.9	1822.9
22.5°	1752.2	1768.3	1875.1	1728.1	1631.7
25°	1732.9	1766.7	1800.4	1524.0	1399.5
27.5°	1713.6	1759.4	1664.6	1300.7	1177.8
30°	1694.4	1740.2	1481.5	1096.6	985.0
32.5°	1671.9	1698.4	1282.2	915.9	813.0
35°	1648.6	1622.1	1093.4	752.8	654.8
37.5°	1624.5	1512.0	923.9	609.8	547.1
40°	1595.5	1373.8	768.0	523.0	539.9
42.5°	1559.4	1217.9	630.7	548.7	666.0
45°	1513.6	1055.7	533.5	680.5	819.5
47.5°	1455.8	899.8	509.4	779.3	822.7
50°	1385.9	756.8	560.0	747.2	743.9
52.5°	1279.8	637.9	611.4	681.3	707.0
55°	1164.1	541.5	604.2	649.9	695.7
57.5°	1017.9	476.4	554.3	643.5	696.5
60°	872.5	433.0	511.8	642.7	692.5
62.5°	711.8	393.7	490.1	627.5	657.2
65°	561.6	351.1	470.8	572.0	585.7
67.5°	430.6	307.7	437.0	510.2	537.5
70°	324.6	265.1	384.0	462.8	496.5
72.5°	233.8	225.0	329.4	421.0	456.3
75°	165.5	187.2	282.0	373.6	398.5
77.5°	114.1	152.6	241.8	321.4	341.4
80°	74.7	122.1	205.7	276.4	290.0
82.5°	45.0	98.0	178.4	241.8	249.1
85°	23.3	79.5	159.9	217.7	220.9
87.5°	7.2	66.7	149.4	206.5	210.5
90°	0.8	59.5	143.0	169.5	156.7
92.5°	0.0	56.2	123.7	115.7	103.6
95°	0.0	55.4	98.8	87.6	82.7
97.5°	0.0	53.8	81.1	73.1	70.7
100°	0.0	52.2	69.9	64.3	63.5
102.5°	0.0	51.4	63.5	58.6	57.8
105°	0.0	49.8	61.1	55.4	54.6
107.5°	0.0	47.4	59.5	53.8	52.2
110°	0.0	45.0	59.5	53.0	50.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	42.6	59.5	52.2	49.8
115°	0.0	41.0	58.6	52.2	49.8
117.5°	0.8	39.4	57.8	52.2	49.8
120°	0.0	37.8	56.2	52.2	49.0
122.5°	0.8	35.3	54.6	51.4	49.0
125°	0.8	32.9	52.2	50.6	48.2
127.5°	0.8	30.5	49.8	49.0	46.6
130°	0.8	28.1	47.4	48.2	45.8
132.5°	0.8	25.7	44.2	46.6	45.0
135°	0.8	23.3	41.8	45.8	44.2
137.5°	0.8	20.9	38.6	43.4	43.4
140°	0.8	18.5	35.3	41.8	42.6
142.5°	0.8	16.9	32.1	40.2	41.0
145°	0.8	14.5	28.9	37.0	39.4
147.5°	0.8	12.9	25.7	33.7	37.0
150°	0.8	11.2	22.5	30.5	33.7
152.5°	0.8	9.6	20.1	26.5	31.3
155°	1.6	8.8	17.7	23.3	28.1
157.5°	1.6	7.2	14.5	20.1	24.1
160°	1.6	6.4	12.9	16.9	21.7
162.5°	1.6	5.6	10.4	14.5	18.5
165°	1.6	4.8	8.8	11.2	15.3
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)