

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: **2SNLED-LD5-46HL-SLC-UNV-L840-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: 2SNLED-LD5-46HL-SLC-UNV-L840-CD1-U  
Description: 2FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

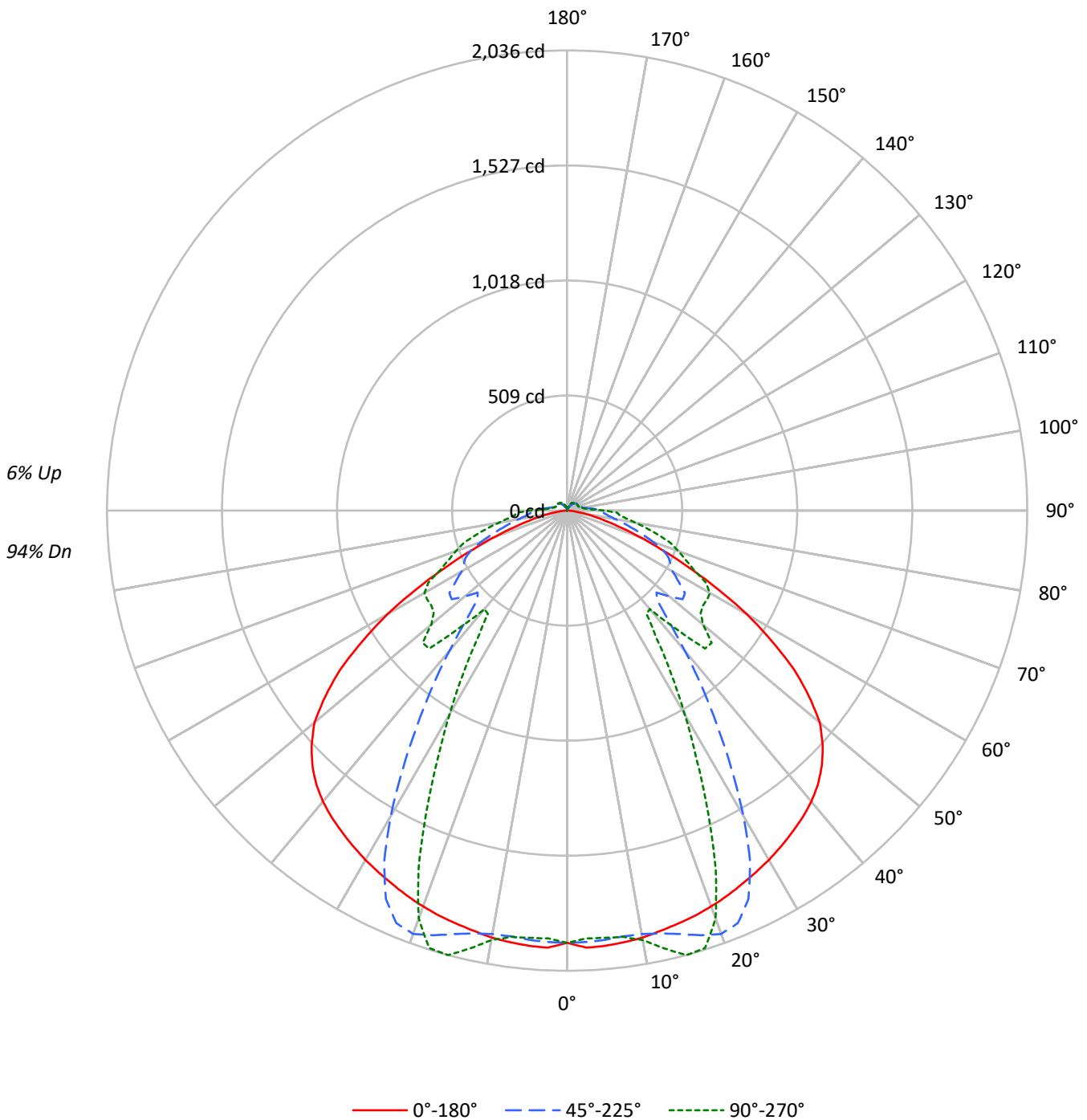
Lumens per Lamp: N/A  
Luminaire Lumens: 4911.0 lumens  
Efficiency: N/A  
Efficacy: 136.4 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 36  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	64	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°	30899	30899	30899
5°	31190	30118	29804
10°	31144	29606	29701
15°	31141	29969	30956
20°	31340	30808	29058
25°	31632	29555	22375
30°	32150	24708	15915
35°	32827	18676	10776
40°	33695	13550	9124
45°	34299	9807	14345
50°	34163	10834	13615
55°	31723	12434	13444
60°	26807	11343	14290
65°	19950	11397	13072
70°	13789	10328	12166
75°	8826	8607	10919
80°	5408	7318	9088
85°	2650	6880	8156



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.9	3.7
10°-20°	549.3	11.2
20°-30°	797.9	16.2
30°-40°	762.4	15.5
40°-50°	697.4	14.2
50°-60°	643.9	13.1
60°-70°	511.5	10.4
70°-80°	315.7	6.4
80°-90°	171.9	3.5
90°-100°	86.9	1.8
100°-110°	54.6	1.1
110°-120°	46.3	0.9
120°-130°	37.8	0.8
130°-140°	27.1	0.6
140°-150°	16.7	0.3
150°-160°	7.9	0.2
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	1529.1	31.1
0°-40°	2291.4	46.7
0°-60°	3632.7	74.0
0°-90°	4631.7	94.3
90°-120°	187.7	3.8
90°-150°	269.3	5.5
90°-180°	279.0	5.7
0°-180°	4911.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1912	1912	1912	1912	1912	
5°	1933	1903	1907	1897	1897	184
15°	1892	1867	1940	2012	2036	536
25°	1826	1861	1897	1605	1474	844
35°	1737	1709	1152	793	690	1089
45°	1594	1112	562	717	863	1225
55°	1226	570	636	685	733	1080
65°	592	370	496	603	617	598
75°	174	197	297	394	420	198
85°	24	84	168	229	233	31
90°	1	63	151	179	165	1
95°	0	58	104	92	87	0
105°	0	52	64	58	58	0
115°	0	43	62	55	52	0
125°	1	35	55	53	51	1
135°	1	24	44	48	46	1
145°	1	15	30	39	42	1
155°	2	9	19	24	30	1
165°	2	5	9	12	16	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°	1911.8	1911.8	1911.8	1911.8	1911.8
2.5°	1935.5	1907.6	1911.0	1905.0	1894.9
5°	1933.0	1903.3	1906.7	1896.6	1897.4
7.5°	1926.2	1895.7	1900.0	1898.3	1902.5
10°	1918.6	1886.4	1902.5	1916.9	1929.6
12.5°	1905.0	1876.3	1915.2	1957.5	1983.7
15°	1892.3	1867.0	1939.7	2011.7	2036.2
17.5°	1879.6	1863.6	1970.2	2032.8	2029.4
20°	1863.6	1861.9	1993.1	1971.9	1920.3
22.5°	1845.8	1862.7	1975.3	1820.4	1718.8
25°	1825.5	1861.0	1896.6	1605.4	1474.3
27.5°	1805.2	1853.4	1753.5	1370.2	1240.7
30°	1784.9	1833.1	1560.6	1155.2	1037.6
32.5°	1761.2	1789.1	1350.7	964.8	856.5
35°	1736.6	1708.7	1151.8	793.0	689.7
37.5°	1711.2	1592.7	973.3	642.3	576.3
40°	1680.8	1447.2	809.1	550.9	568.7
42.5°	1642.7	1283.0	664.4	578.0	701.6
45°	1594.4	1112.0	561.9	716.8	863.2
47.5°	1533.5	947.9	536.6	820.9	866.6
50°	1459.9	797.2	589.9	787.1	783.7
52.5°	1348.2	672.0	644.0	717.7	744.7
55°	1226.3	570.4	636.4	684.7	732.9
57.5°	1072.3	501.9	584.0	677.9	733.7
60°	919.1	456.2	539.1	677.0	729.5
62.5°	749.8	414.7	516.2	661.0	692.3
65°	591.6	369.8	495.9	602.6	617.0
67.5°	453.6	324.1	460.4	537.4	566.2
70°	341.9	279.3	404.5	487.5	523.0
72.5°	246.3	237.0	347.0	443.5	480.7
75°	174.3	197.2	297.1	393.5	419.8
77.5°	120.2	160.8	254.7	338.5	359.7
80°	78.7	128.6	216.7	291.1	305.5
82.5°	47.4	103.2	187.9	254.7	262.4
85°	24.5	83.8	168.4	229.3	232.7
87.5°	7.6	70.2	157.4	217.5	221.7
90°	0.8	62.6	150.6	178.6	165.0
92.5°	0.0	59.2	130.3	121.9	109.2
95°	0.0	58.4	104.1	92.2	87.2
97.5°	0.0	56.7	85.5	77.0	74.5
100°	0.0	55.0	73.6	67.7	66.9
102.5°	0.0	54.2	66.9	61.8	60.9
105°	0.0	52.5	64.3	58.4	57.5
107.5°	0.0	49.9	62.6	56.7	55.0
110°	0.0	47.4	62.6	55.9	53.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	44.9	62.6	55.0	52.5
115°	0.0	43.2	61.8	55.0	52.5
117.5°	0.8	41.5	60.9	55.0	52.5
120°	0.0	39.8	59.2	55.0	51.6
122.5°	0.8	37.2	57.5	54.2	51.6
125°	0.8	34.7	55.0	53.3	50.8
127.5°	0.8	32.2	52.5	51.6	49.1
130°	0.8	29.6	49.9	50.8	48.2
132.5°	0.8	27.1	46.5	49.1	47.4
135°	0.8	24.5	44.0	48.2	46.5
137.5°	0.8	22.0	40.6	45.7	45.7
140°	0.8	19.5	37.2	44.0	44.9
142.5°	0.8	17.8	33.9	42.3	43.2
145°	0.8	15.2	30.5	38.9	41.5
147.5°	0.8	13.5	27.1	35.5	38.9
150°	0.8	11.8	23.7	32.2	35.5
152.5°	0.8	10.2	21.2	27.9	33.0
155°	1.7	9.3	18.6	24.5	29.6
157.5°	1.7	7.6	15.2	21.2	25.4
160°	1.7	6.8	13.5	17.8	22.9
162.5°	1.7	5.9	11.0	15.2	19.5
165°	1.7	5.1	9.3	11.8	16.1
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)