

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-L830-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-L830-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

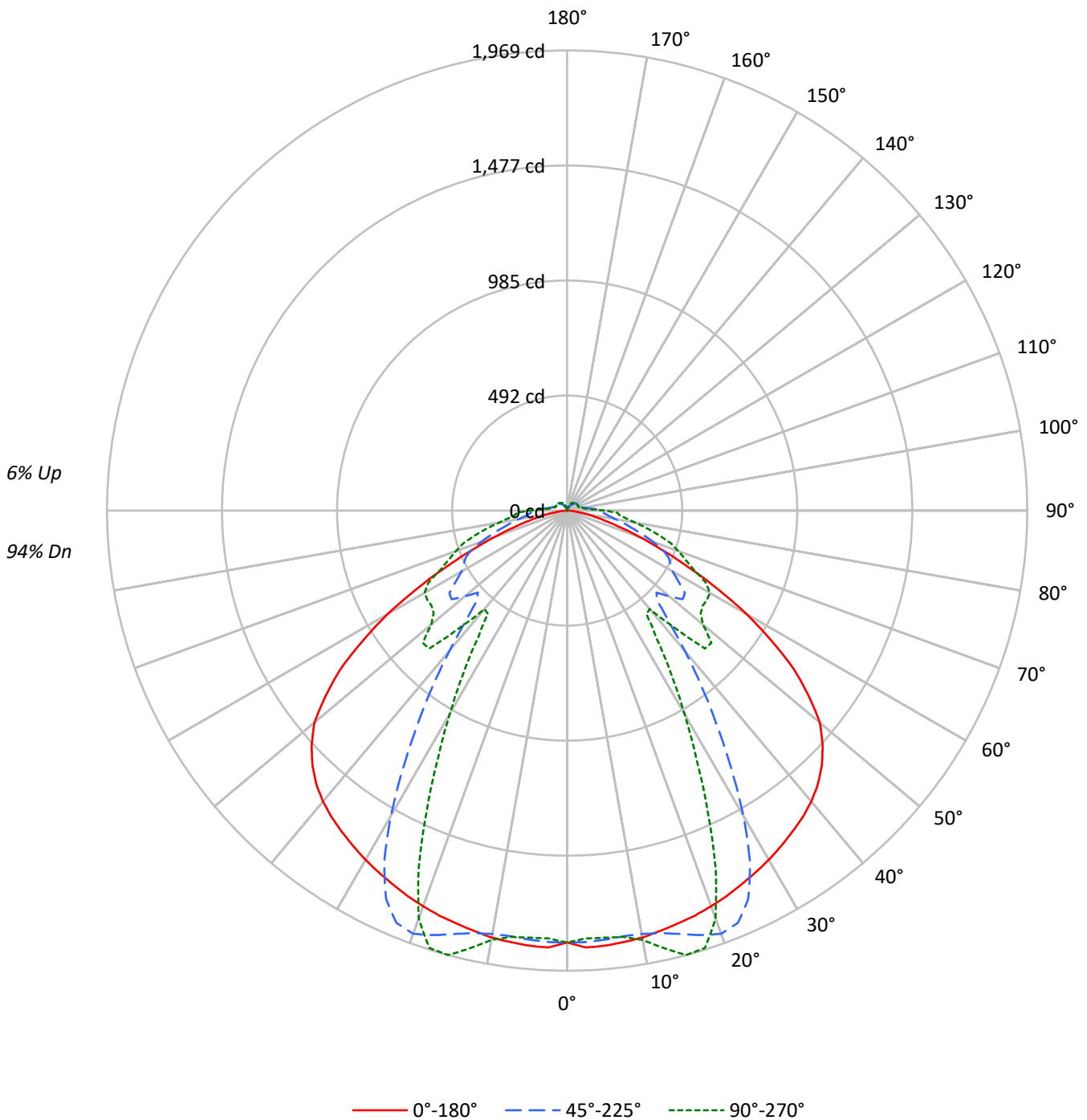
Lumens per Lamp: N/A
Luminaire Lumens: 4748.0 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 36
Input Voltage (V): NR
Input Current (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	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°	29874	29874	29874
5°	30154	29118	28815
10°	30110	28624	28715
15°	30107	28976	29929
20°	30299	29785	28092
25°	30582	28573	21631
30°	31082	23888	15386
35°	31738	18057	10418
40°	32576	13100	8821
45°	33161	9482	13870
50°	33028	10474	13163
55°	30670	12022	12998
60°	25918	10966	13816
65°	19286	11020	12638
70°	13333	9986	11764
75°	8537	8320	10554
80°	5229	7075	8787
85°	2564	6651	7886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	3.7
10°-20°	531.0	11.2
20°-30°	771.4	16.2
30°-40°	737.1	15.5
40°-50°	674.2	14.2
50°-60°	622.5	13.1
60°-70°	494.5	10.4
70°-80°	305.2	6.4
80°-90°	166.2	3.5
90°-100°	84.0	1.8
100°-110°	52.8	1.1
110°-120°	44.7	0.9
120°-130°	36.5	0.8
130°-140°	26.2	0.6
140°-150°	16.2	0.3
150°-160°	7.7	0.2
160°-170°	2.0	0.0
170°-180°	0.0	0.0
0°-30°	1478.3	31.1
0°-40°	2215.4	46.7
0°-60°	3512.1	74.0
0°-90°	4478.0	94.3
90°-120°	181.5	3.8
90°-150°	260.3	5.5
90°-180°	270.0	5.7
0°-180°	4748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1848	1848	1848	1848	1848	
5°	1869	1840	1843	1834	1834	178
15°	1830	1805	1875	1945	1969	518
25°	1765	1799	1834	1552	1425	816
35°	1679	1652	1114	767	667	1053
45°	1542	1075	543	693	835	1185
55°	1186	552	615	662	709	1044
65°	572	358	480	583	596	578
75°	169	191	287	380	406	191
85°	24	81	163	222	225	30
90°	1	60	146	173	160	1
95°	0	56	101	89	84	0
105°	0	51	62	56	56	0
115°	0	42	60	53	51	0
125°	1	34	53	52	49	1
135°	1	24	42	47	45	1
145°	1	15	30	38	40	1
155°	2	9	18	24	29	1
165°	2	5	9	12	16	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-SLC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1848.4	1848.4	1848.4	1848.4	1848.4
2.5°	1871.3	1844.3	1847.5	1841.8	1832.0
5°	1868.8	1840.2	1843.4	1833.6	1834.4
7.5°	1862.3	1832.8	1836.9	1835.3	1839.4
10°	1854.9	1823.8	1839.4	1853.3	1865.5
12.5°	1841.8	1814.0	1851.6	1892.5	1917.9
15°	1829.5	1805.0	1875.4	1944.9	1968.6
17.5°	1817.3	1801.7	1904.8	1965.4	1962.1
20°	1801.7	1800.1	1926.9	1906.4	1856.5
22.5°	1784.5	1800.9	1909.7	1760.0	1661.8
25°	1764.9	1799.3	1833.6	1552.2	1425.3
27.5°	1745.3	1791.9	1695.3	1324.7	1199.5
30°	1725.6	1772.3	1508.8	1116.9	1003.1
32.5°	1702.7	1729.7	1305.9	932.8	828.0
35°	1679.0	1652.0	1113.6	766.7	666.8
37.5°	1654.4	1539.9	940.9	621.0	557.2
40°	1625.0	1399.2	782.2	532.7	549.8
42.5°	1588.2	1240.4	642.3	558.8	678.3
45°	1541.5	1075.1	543.3	693.0	834.6
47.5°	1482.6	916.4	518.7	793.7	837.9
50°	1411.4	770.8	570.3	760.9	757.7
52.5°	1303.4	649.7	622.7	693.8	720.0
55°	1185.6	551.5	615.3	661.9	708.6
57.5°	1036.7	485.2	564.6	655.4	709.4
60°	888.6	441.0	521.2	654.6	705.3
62.5°	724.9	400.9	499.1	639.0	669.3
65°	571.9	357.6	479.5	582.6	596.5
67.5°	438.6	313.4	445.1	519.6	547.4
70°	330.6	270.0	391.1	471.3	505.7
72.5°	238.1	229.1	335.5	428.7	464.7
75°	168.6	190.6	287.2	380.5	405.8
77.5°	116.2	155.5	246.3	327.3	347.7
80°	76.1	124.4	209.5	281.5	295.4
82.5°	45.8	99.8	181.6	246.3	253.6
85°	23.7	81.0	162.8	221.7	225.0
87.5°	7.4	67.9	152.2	210.3	214.4
90°	0.8	60.5	145.6	172.6	159.6
92.5°	0.0	57.3	126.0	117.8	105.5
95°	0.0	56.5	100.6	89.2	84.3
97.5°	0.0	54.8	82.6	74.5	72.0
100°	0.0	53.2	71.2	65.5	64.6
102.5°	0.0	52.4	64.6	59.7	58.9
105°	0.0	50.7	62.2	56.5	55.6
107.5°	0.0	48.3	60.5	54.8	53.2
110°	0.0	45.8	60.5	54.0	51.5



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	43.4	60.5	53.2	50.7
115°	0.0	41.7	59.7	53.2	50.7
117.5°	0.8	40.1	58.9	53.2	50.7
120°	0.0	38.5	57.3	53.2	49.9
122.5°	0.8	36.0	55.6	52.4	49.9
125°	0.8	33.5	53.2	51.5	49.1
127.5°	0.8	31.1	50.7	49.9	47.5
130°	0.8	28.6	48.3	49.1	46.6
132.5°	0.8	26.2	45.0	47.5	45.8
135°	0.8	23.7	42.5	46.6	45.0
137.5°	0.8	21.3	39.3	44.2	44.2
140°	0.8	18.8	36.0	42.5	43.4
142.5°	0.8	17.2	32.7	40.9	41.7
145°	0.8	14.7	29.5	37.6	40.1
147.5°	0.8	13.1	26.2	34.4	37.6
150°	0.8	11.5	22.9	31.1	34.4
152.5°	0.8	9.8	20.5	27.0	31.9
155°	1.6	9.0	18.0	23.7	28.6
157.5°	1.6	7.4	14.7	20.5	24.5
160°	1.6	6.5	13.1	17.2	22.1
162.5°	1.6	5.7	10.6	14.7	18.8
165°	1.6	4.9	9.0	11.5	15.5
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)