

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-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: 2SNLED-LD5-46HL-SLC-UNV-L835-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

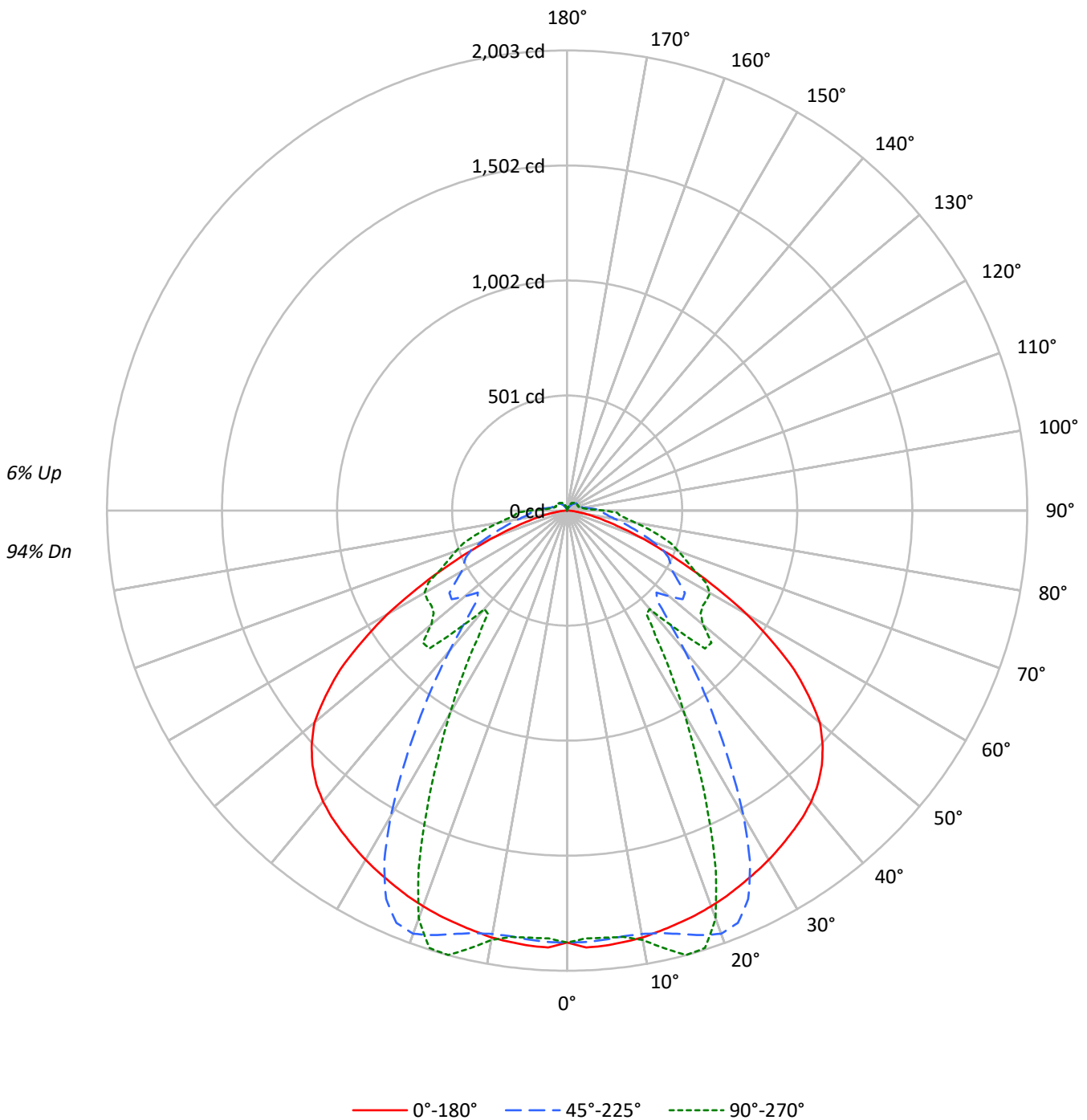
Lumens per Lamp: N/A
Luminaire Lumens: 4830.0 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 2SNLED-LD5-46HL-SLC-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-SLC-UNV-L835-CD1-U

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°	30389	30389	30389
5°	30675	29622	29313
10°	30629	29118	29212
15°	30627	29475	30446
20°	30822	30299	28578
25°	31110	29067	22004
30°	31619	24299	15653
35°	32286	18368	10599
40°	33137	13326	8974
45°	33733	9646	14109
50°	33599	10654	13390
55°	31200	12229	13222
60°	26364	11156	14055
65°	19620	11211	12856
70°	13563	10160	11966
75°	8684	8465	10736
80°	5319	7197	8939
85°	2607	6765	8023



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-SLC-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	3.7
10°-20°	540.2	11.2
20°-30°	784.8	16.2
30°-40°	749.8	15.5
40°-50°	685.8	14.2
50°-60°	633.3	13.1
60°-70°	503.0	10.4
70°-80°	310.5	6.4
80°-90°	169.1	3.5
90°-100°	85.5	1.8
100°-110°	53.7	1.1
110°-120°	45.5	0.9
120°-130°	37.1	0.8
130°-140°	26.6	0.6
140°-150°	16.4	0.3
150°-160°	7.8	0.2
160°-170°	2.0	0.0
170°-180°	0.0	0.0
0°-30°	1503.8	31.1
0°-40°	2253.6	46.7
0°-60°	3572.8	74.0
0°-90°	4555.3	94.3
90°-120°	184.6	3.8
90°-150°	264.8	5.5
90°-180°	275.0	5.7
0°-180°	4830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1880	1880	1880	1880	1880	
5°	1901	1872	1875	1865	1866	181
15°	1861	1836	1908	1978	2003	527
25°	1795	1830	1865	1579	1450	830
35°	1708	1680	1133	780	678	1071
45°	1568	1094	553	705	849	1205
55°	1206	561	626	673	721	1062
65°	582	364	488	593	607	588
75°	172	194	292	387	413	194
85°	24	82	166	226	229	31
90°	1	62	148	176	162	1
95°	0	57	102	91	86	0
105°	0	52	63	57	57	0
115°	0	42	61	54	52	0
125°	1	34	54	52	50	1
135°	1	24	43	47	46	1
145°	1	15	30	38	41	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-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1880.3	1880.3	1880.3	1880.3	1880.3
2.5°	1903.6	1876.1	1879.4	1873.6	1863.6
5°	1901.1	1871.9	1875.3	1865.3	1866.1
7.5°	1894.4	1864.5	1868.6	1867.0	1871.1
10°	1886.9	1855.3	1871.1	1885.3	1897.8
12.5°	1873.6	1845.3	1883.6	1925.2	1951.0
15°	1861.1	1836.2	1907.7	1978.5	2002.6
17.5°	1848.6	1832.8	1937.7	1999.3	1996.0
20°	1832.8	1831.2	1960.2	1939.4	1888.6
22.5°	1815.3	1832.0	1942.7	1790.4	1690.5
25°	1795.4	1830.3	1865.3	1579.0	1449.9
27.5°	1775.4	1822.8	1724.6	1347.6	1220.2
30°	1755.4	1802.9	1534.8	1136.2	1020.5
32.5°	1732.1	1759.6	1328.4	948.9	842.3
35°	1708.0	1680.5	1132.8	779.9	678.4
37.5°	1683.0	1566.5	957.2	631.8	566.8
40°	1653.0	1423.3	795.7	541.9	559.3
42.5°	1615.6	1261.8	653.4	568.5	690.0
45°	1568.1	1093.7	552.7	705.0	849.0
47.5°	1508.2	932.2	527.7	807.4	852.3
50°	1435.8	784.1	580.1	774.1	770.8
52.5°	1325.9	660.9	633.4	705.8	732.5
55°	1206.1	561.0	625.9	673.4	720.8
57.5°	1054.6	493.6	574.3	666.7	721.6
60°	903.9	448.6	530.2	665.9	717.5
62.5°	737.5	407.9	507.7	650.1	680.9
65°	581.8	363.7	487.8	592.6	606.8
67.5°	446.1	318.8	452.8	528.5	556.8
70°	336.3	274.7	397.9	479.4	514.4
72.5°	242.2	233.1	341.3	436.2	472.8
75°	171.5	193.9	292.2	387.0	412.8
77.5°	118.2	158.1	250.5	332.9	353.7
80°	77.4	126.5	213.1	286.3	300.5
82.5°	46.6	101.5	184.8	250.5	258.0
85°	24.1	82.4	165.6	225.6	228.9
87.5°	7.5	69.1	154.8	213.9	218.1
90°	0.8	61.6	148.2	175.6	162.3
92.5°	0.0	58.3	128.2	119.9	107.4
95°	0.0	57.4	102.4	90.7	85.7
97.5°	0.0	55.8	84.1	75.7	73.2
100°	0.0	54.1	72.4	66.6	65.8
102.5°	0.0	53.3	65.8	60.8	59.9
105°	0.0	51.6	63.3	57.4	56.6
107.5°	0.0	49.1	61.6	55.8	54.1
110°	0.0	46.6	61.6	54.9	52.4



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-SLC-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	44.1	61.6	54.1	51.6
115°	0.0	42.4	60.8	54.1	51.6
117.5°	0.8	40.8	59.9	54.1	51.6
120°	0.0	39.1	58.3	54.1	50.8
122.5°	0.8	36.6	56.6	53.3	50.8
125°	0.8	34.1	54.1	52.4	49.9
127.5°	0.8	31.6	51.6	50.8	48.3
130°	0.8	29.1	49.1	49.9	47.4
132.5°	0.8	26.6	45.8	48.3	46.6
135°	0.8	24.1	43.3	47.4	45.8
137.5°	0.8	21.6	40.0	44.9	44.9
140°	0.8	19.1	36.6	43.3	44.1
142.5°	0.8	17.5	33.3	41.6	42.4
145°	0.8	15.0	30.0	38.3	40.8
147.5°	0.8	13.3	26.6	35.0	38.3
150°	0.8	11.7	23.3	31.6	35.0
152.5°	0.8	10.0	20.8	27.5	32.5
155°	1.7	9.2	18.3	24.1	29.1
157.5°	1.7	7.5	15.0	20.8	25.0
160°	1.7	6.7	13.3	17.5	22.5
162.5°	1.7	5.8	10.8	15.0	19.1
165°	1.7	5.0	9.2	11.7	15.8
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)