

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-L940-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-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

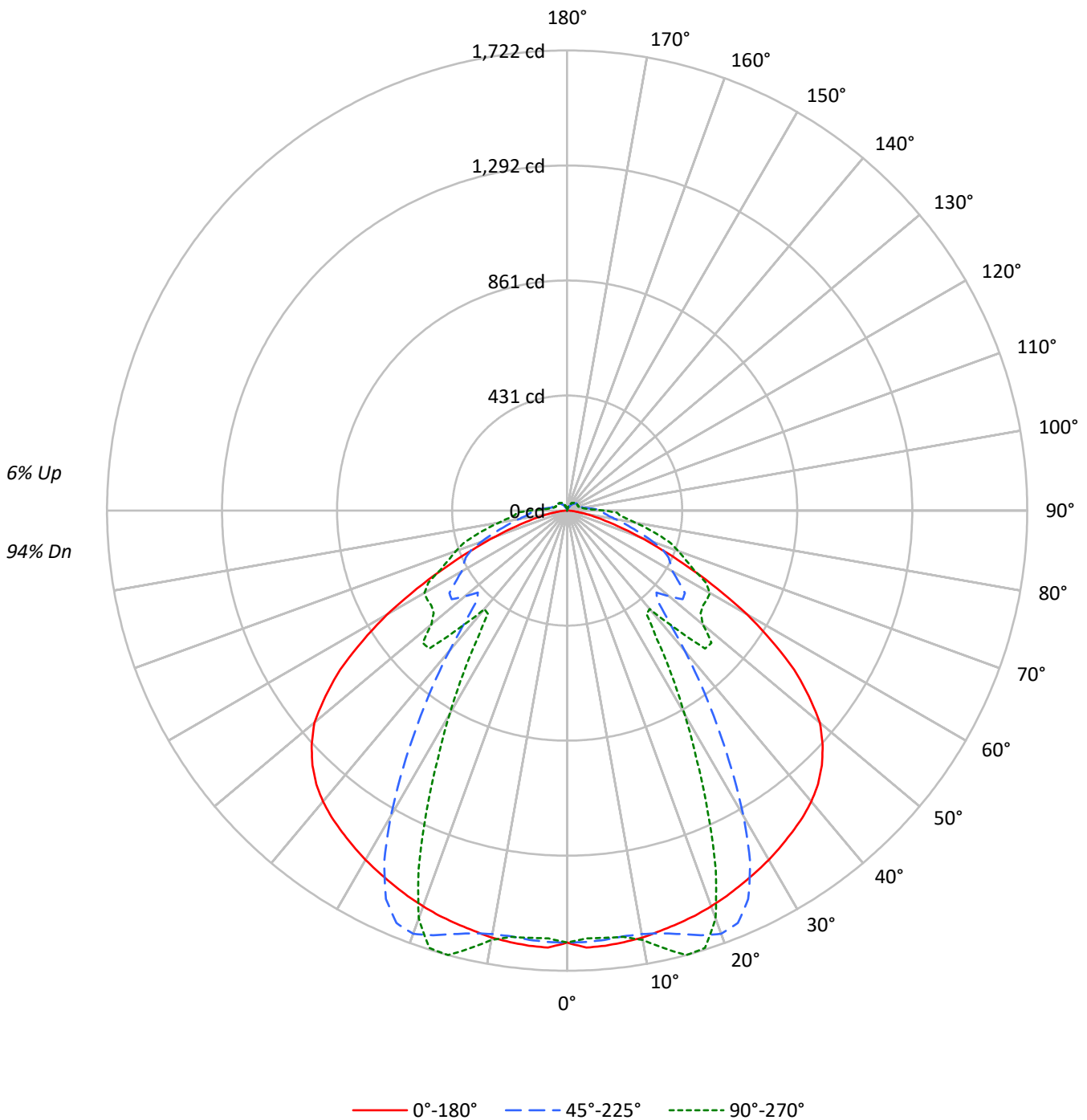
Lumens per Lamp: N/A
Luminaire Lumens: 4153.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 36
Input Voltage (V): NR
Input Current (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°	26129	26129	26129
5°	26375	25469	25205
10°	26336	25037	25118
15°	26335	25343	26178
20°	26501	26052	24573
25°	26749	24992	18920
30°	27188	20894	13458
35°	27761	15793	9113
40°	28492	11458	7716
45°	29005	8294	12131
50°	28888	9161	11513
55°	26826	10515	11369
60°	22668	9592	12084
65°	16871	9639	11053
70°	11659	8735	10289
75°	7464	7277	9233
80°	4577	6187	7687
85°	2250	5818	6898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	3.7
10°-20°	464.5	11.2
20°-30°	674.8	16.2
30°-40°	644.7	15.5
40°-50°	589.7	14.2
50°-60°	544.5	13.1
60°-70°	432.5	10.4
70°-80°	267.0	6.4
80°-90°	145.4	3.5
90°-100°	73.5	1.8
100°-110°	46.2	1.1
110°-120°	39.1	0.9
120°-130°	31.9	0.8
130°-140°	22.9	0.6
140°-150°	14.1	0.3
150°-160°	6.7	0.2
160°-170°	1.7	0.0
170°-180°	0.0	0.0
0°-30°	1293.1	31.1
0°-40°	1937.7	46.7
0°-60°	3072.0	74.0
0°-90°	3916.8	94.3
90°-120°	158.8	3.8
90°-150°	227.7	5.5
90°-180°	236.0	5.7
0°-180°	4153.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1635	1610	1612	1604	1605	156
15°	1600	1579	1640	1701	1722	453
25°	1544	1574	1604	1358	1247	713
35°	1469	1445	974	671	583	921
45°	1348	940	475	606	730	1036
55°	1037	482	538	579	620	913
65°	500	313	419	510	522	506
75°	147	167	251	333	355	167
85°	21	71	142	194	197	26
90°	1	53	127	151	140	1
95°	0	49	88	78	74	0
105°	0	44	54	49	49	0
115°	0	36	52	46	44	0
125°	1	29	46	45	43	1
135°	1	21	37	41	39	1
145°	1	13	26	33	35	0
155°	1	8	16	21	25	1
165°	1	4	8	10	14	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°	1616.7	1616.7	1616.7	1616.7	1616.7
2.5°	1636.8	1613.1	1616.0	1611.0	1602.4
5°	1634.6	1609.6	1612.4	1603.8	1604.6
7.5°	1628.9	1603.1	1606.7	1605.3	1608.9
10°	1622.4	1595.3	1608.9	1621.0	1631.8
12.5°	1611.0	1586.7	1619.6	1655.4	1677.6
15°	1600.3	1578.8	1640.3	1701.2	1721.9
17.5°	1589.5	1575.9	1666.1	1719.1	1716.2
20°	1575.9	1574.5	1685.4	1667.5	1623.9
22.5°	1560.9	1575.2	1670.4	1539.4	1453.5
25°	1543.7	1573.8	1603.8	1357.6	1246.7
27.5°	1526.5	1567.3	1482.9	1158.7	1049.2
30°	1509.4	1550.2	1319.7	976.9	877.4
32.5°	1489.3	1512.9	1142.2	815.9	724.3
35°	1468.6	1445.0	974.0	670.6	583.3
37.5°	1447.1	1346.9	823.0	543.2	487.4
40°	1421.3	1223.8	684.2	465.9	480.9
42.5°	1389.1	1085.0	561.8	488.8	593.3
45°	1348.3	940.4	475.2	606.2	730.0
47.5°	1296.8	801.6	453.7	694.2	732.9
50°	1234.5	674.2	498.8	665.6	662.7
52.5°	1140.1	568.3	544.6	606.9	629.8
55°	1037.0	482.4	538.2	579.0	619.8
57.5°	906.8	424.4	493.8	573.3	620.5
60°	777.2	385.8	455.9	572.5	616.9
62.5°	634.1	350.7	436.6	558.9	585.4
65°	500.3	312.8	419.4	509.6	521.7
67.5°	383.6	274.1	389.3	454.5	478.8
70°	289.1	236.2	342.1	412.2	442.3
72.5°	208.3	200.4	293.4	375.0	406.5
75°	147.4	166.8	251.2	332.8	355.0
77.5°	101.6	136.0	215.4	286.3	304.2
80°	66.6	108.8	183.2	246.2	258.4
82.5°	40.1	87.3	158.9	215.4	221.9
85°	20.8	70.9	142.4	193.9	196.8
87.5°	6.4	59.4	133.1	183.9	187.5
90°	0.7	53.0	127.4	151.0	139.6
92.5°	0.0	50.1	110.2	103.1	92.3
95°	0.0	49.4	88.0	78.0	73.7
97.5°	0.0	48.0	72.3	65.1	63.0
100°	0.0	46.5	62.3	57.3	56.5
102.5°	0.0	45.8	56.5	52.2	51.5
105°	0.0	44.4	54.4	49.4	48.7
107.5°	0.0	42.2	53.0	48.0	46.5
110°	0.0	40.1	53.0	47.2	45.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	37.9	53.0	46.5	44.4
115°	0.0	36.5	52.2	46.5	44.4
117.5°	0.7	35.1	51.5	46.5	44.4
120°	0.0	33.6	50.1	46.5	43.7
122.5°	0.7	31.5	48.7	45.8	43.7
125°	0.7	29.3	46.5	45.1	42.9
127.5°	0.7	27.2	44.4	43.7	41.5
130°	0.7	25.0	42.2	42.9	40.8
132.5°	0.7	22.9	39.4	41.5	40.1
135°	0.7	20.8	37.2	40.8	39.4
137.5°	0.7	18.6	34.4	38.6	38.6
140°	0.7	16.5	31.5	37.2	37.9
142.5°	0.7	15.0	28.6	35.8	36.5
145°	0.7	12.9	25.8	32.9	35.1
147.5°	0.7	11.5	22.9	30.1	32.9
150°	0.7	10.0	20.0	27.2	30.1
152.5°	0.7	8.6	17.9	23.6	27.9
155°	1.4	7.9	15.7	20.8	25.0
157.5°	1.4	6.4	12.9	17.9	21.5
160°	1.4	5.7	11.5	15.0	19.3
162.5°	1.4	5.0	9.3	12.9	16.5
165°	1.4	4.3	7.9	10.0	13.6
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)