

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-LD5-45HL-SLN-UNV-L930-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNLED-LD5-45HL-SLN-UNV-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

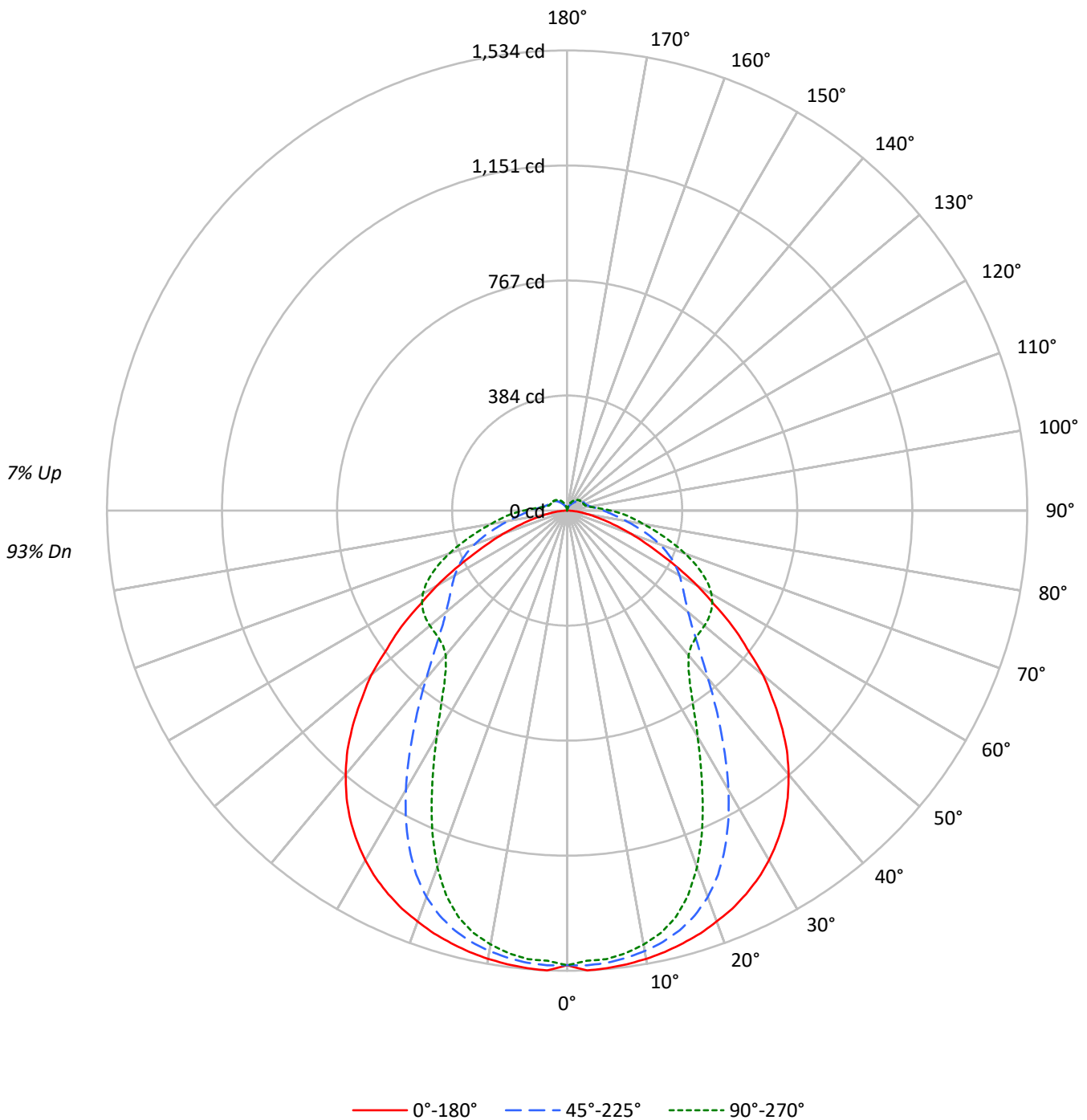
Lumens per Lamp: N/A
Luminaire Lumens: 3811.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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-LD5-45HL-SLN-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-45HL-SLN-UNV-L930-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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24492	24492	24492
5°	24707	23905	23576
10°	24631	23203	22605
15°	24570	22386	21316
20°	24510	21195	19143
25°	24444	19387	16211
30°	24246	17027	13333
35°	23816	14459	11174
40°	23026	12220	10102
45°	21706	10597	10026
50°	19942	9664	10376
55°	17446	9265	10740
60°	14598	9104	10887
65°	11614	8869	10549
70°	9191	8375	9729
75°	6770	7535	8632
80°	4796	6717	7681
85°	2920	6271	7063



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-45HL-SLN-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.8
10°-20°	405.2	10.6
20°-30°	566.5	14.9
30°-40°	587.6	15.4
40°-50°	542.8	14.2
50°-60°	484.6	12.7
60°-70°	392.8	10.3
70°-80°	261.2	6.9
80°-90°	149.6	3.9
90°-100°	82.8	2.2
100°-110°	56.1	1.5
110°-120°	46.7	1.2
120°-130°	37.9	1.0
130°-140°	27.4	0.7
140°-150°	16.5	0.4
150°-160°	7.9	0.2
160°-170°	2.1	0.1
170°-180°	0.0	0.0
0°-30°	1115.1	29.3
0°-40°	1702.7	44.7
0°-60°	2730.1	71.6
0°-90°	3533.7	92.7
90°-120°	185.5	4.9
90°-150°	267.3	7.0
90°-180°	277.0	7.3
0°-180°	3811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1531	1506	1513	1503	1501	146
15°	1493	1461	1449	1416	1402	422
25°	1411	1348	1244	1114	1068	650
35°	1260	1122	892	749	715	786
45°	1009	800	607	586	603	776
55°	674	510	474	551	586	600
65°	344	308	386	473	498	348
75°	134	167	260	319	332	147
85°	27	78	154	196	202	31
90°	1	55	121	146	145	2
95°	1	46	96	103	99	1
105°	1	40	69	67	64	1
115°	1	36	61	61	59	1
125°	1	31	54	57	55	1
135°	1	23	43	50	50	1
145°	1	14	30	39	42	1
155°	1	9	18	24	30	1
165°	1	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-LD5-45HL-SLN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1515.4	1515.4	1515.4	1515.4	1515.4
2.5°	1534.5	1509.5	1517.4	1510.8	1502.2
5°	1531.2	1505.5	1513.4	1502.9	1500.9
7.5°	1525.3	1499.6	1504.2	1491.7	1488.4
10°	1517.4	1490.4	1491.0	1473.3	1468.6
12.5°	1506.8	1477.2	1473.3	1448.9	1442.3
15°	1493.0	1461.4	1448.9	1416.0	1402.1
17.5°	1477.9	1441.0	1415.3	1364.6	1342.9
20°	1457.5	1416.0	1371.2	1294.1	1265.1
22.5°	1437.0	1385.7	1313.9	1211.1	1172.3
25°	1410.7	1348.1	1244.1	1113.7	1068.2
27.5°	1381.1	1304.0	1163.7	1013.6	964.8
30°	1346.1	1250.7	1075.5	915.4	869.3
32.5°	1305.3	1190.7	982.6	827.2	784.4
35°	1259.9	1121.6	891.7	748.8	715.2
37.5°	1207.8	1045.8	807.4	685.6	663.9
40°	1148.6	963.5	729.7	636.9	629.6
42.5°	1084.7	883.2	663.2	605.2	611.8
45°	1009.0	799.5	607.2	585.5	603.3
47.5°	929.3	717.9	561.8	574.3	600.0
50°	852.2	642.1	526.2	567.0	597.3
52.5°	756.7	574.3	497.9	560.5	593.4
55°	674.4	509.7	474.2	551.2	585.5
57.5°	579.6	451.8	453.1	539.4	573.6
60°	500.5	399.1	432.7	522.9	555.8
62.5°	420.2	351.7	410.3	501.2	530.8
65°	344.4	308.2	385.9	472.9	497.9
67.5°	281.2	268.7	358.3	438.6	459.7
70°	227.9	232.5	328.0	400.4	418.2
72.5°	175.2	198.9	295.0	359.6	374.7
75°	133.7	167.3	260.1	318.8	331.9
77.5°	98.8	139.6	228.5	281.9	293.1
80°	69.8	115.3	198.9	249.6	258.2
82.5°	46.8	94.8	174.5	220.6	228.5
85°	27.0	77.7	153.5	196.3	201.5
87.5°	11.2	64.5	136.3	171.2	173.9
90°	1.3	54.7	121.2	146.2	144.9
92.5°	1.3	49.4	108.0	122.5	119.2
95°	1.3	46.1	96.2	102.7	99.4
97.5°	1.3	44.1	85.6	88.3	85.0
100°	0.7	42.8	78.4	78.4	75.1
102.5°	0.7	41.5	73.1	71.1	68.5
105°	0.7	40.2	69.2	67.2	63.9
107.5°	0.7	39.5	66.5	64.5	61.2
110°	0.7	38.2	64.5	62.6	59.9



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-45HL-SLN-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	37.5	63.2	61.9	58.6
115°	0.7	36.2	61.2	60.6	58.6
117.5°	0.7	34.9	59.9	59.9	58.0
120°	0.7	33.6	58.0	59.3	57.3
122.5°	0.7	32.3	56.0	58.0	56.0
125°	0.7	31.0	54.0	56.6	55.3
127.5°	1.3	29.0	51.4	55.3	54.0
130°	0.7	27.0	48.7	54.0	53.3
132.5°	1.3	25.0	46.1	52.0	52.0
135°	1.3	23.1	42.8	50.1	50.1
137.5°	1.3	20.4	39.5	47.4	48.1
140°	1.3	18.4	36.2	44.8	46.1
142.5°	1.3	16.5	32.9	42.1	44.1
145°	1.3	14.5	29.6	38.9	41.5
147.5°	1.3	13.2	26.3	34.9	38.9
150°	1.3	11.2	23.7	31.6	35.6
152.5°	1.3	9.9	21.1	28.3	32.9
155°	1.3	9.2	18.4	24.4	29.6
157.5°	1.3	7.9	15.8	21.1	26.3
160°	1.3	6.6	13.2	18.4	22.4
162.5°	1.3	5.9	11.2	15.1	19.8
165°	1.3	5.3	9.2	11.9	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)