

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

**Summary**

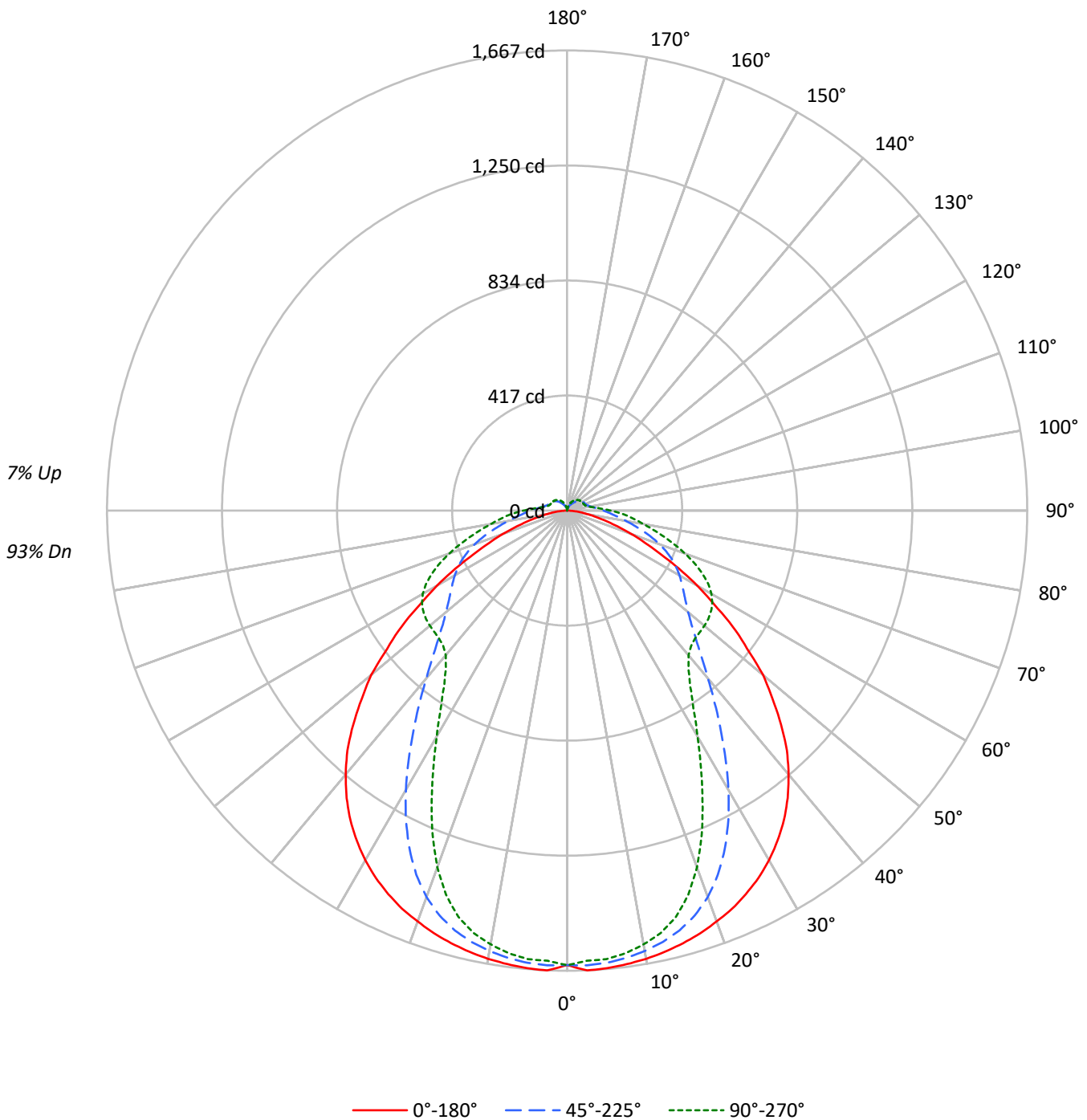
Lumens per Lamp: N/A  
Luminaire Lumens: 4141.0 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')  
CIE Type: Direct

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



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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	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°	26612	26612	26612
5°	26846	25976	25618
10°	26764	25212	24563
15°	26698	24325	23162
20°	26633	23030	20802
25°	26560	21065	17615
30°	26347	18501	14488
35°	25878	15711	12143
40°	25018	13279	10976
45°	23584	11515	10893
50°	21669	10502	11276
55°	18957	10066	11670
60°	15864	9893	11831
65°	12622	9637	11462
70°	9986	9100	10571
75°	7357	8190	9381
80°	5216	7298	8344
85°	3169	6810	7676



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.8	3.8
10°-20°	440.3	10.6
20°-30°	615.5	14.9
30°-40°	638.5	15.4
40°-50°	589.8	14.2
50°-60°	526.6	12.7
60°-70°	426.8	10.3
70°-80°	283.9	6.9
80°-90°	162.5	3.9
90°-100°	89.9	2.2
100°-110°	60.9	1.5
110°-120°	50.7	1.2
120°-130°	41.2	1.0
130°-140°	29.7	0.7
140°-150°	17.9	0.4
150°-160°	8.6	0.2
160°-170°	2.2	0.1
170°-180°	0.0	0.0
0°-30°	1211.6	29.3
0°-40°	1850.1	44.7
0°-60°	2966.5	71.6
0°-90°	3839.7	92.7
90°-120°	201.5	4.9
90°-150°	290.4	7.0
90°-180°	301.0	7.3
0°-180°	4141.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1647	1647	1647	1647	1647	
5°	1664	1636	1644	1633	1631	158
15°	1622	1588	1574	1539	1524	458
25°	1533	1465	1352	1210	1161	706
35°	1369	1219	969	814	777	854
45°	1096	869	660	636	656	843
55°	733	554	515	599	636	652
65°	374	335	419	514	541	378
75°	145	182	283	346	361	159
85°	29	84	167	213	219	34
90°	1	59	132	159	157	2
95°	1	50	104	112	108	1
105°	1	44	75	73	69	1
115°	1	39	67	66	64	1
125°	1	34	59	62	60	1
135°	1	25	46	54	54	1
145°	1	16	32	42	45	1
155°	1	10	20	26	32	1
165°	1	6	10	13	17	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1646.6	1646.6	1646.6	1646.6	1646.6
2.5°	1667.4	1640.2	1648.8	1641.6	1632.3
5°	1663.8	1635.9	1644.5	1633.0	1630.9
7.5°	1657.4	1629.5	1634.5	1620.9	1617.3
10°	1648.8	1619.4	1620.1	1600.8	1595.8
12.5°	1637.3	1605.1	1600.8	1574.4	1567.2
15°	1622.3	1587.9	1574.4	1538.6	1523.5
17.5°	1605.8	1565.8	1537.9	1482.8	1459.1
20°	1583.7	1538.6	1489.9	1406.2	1374.7
22.5°	1561.5	1505.7	1427.6	1316.0	1273.8
25°	1532.8	1464.9	1351.8	1210.1	1160.7
27.5°	1500.6	1416.9	1264.5	1101.3	1048.4
30°	1462.7	1359.0	1168.6	994.7	944.6
32.5°	1418.3	1293.8	1067.7	898.8	852.3
35°	1369.0	1218.7	968.9	813.7	777.2
37.5°	1312.4	1136.4	877.3	745.0	721.3
40°	1248.0	1046.9	792.9	692.0	684.1
42.5°	1178.6	959.6	720.6	657.6	664.8
45°	1096.3	868.8	659.8	636.2	655.5
47.5°	1009.7	780.0	610.4	624.0	651.9
50°	926.0	697.7	571.8	616.1	649.1
52.5°	822.2	624.0	541.0	609.0	644.8
55°	732.8	553.9	515.2	599.0	636.2
57.5°	629.7	490.9	492.3	586.1	623.3
60°	543.9	433.7	470.2	568.2	604.0
62.5°	456.6	382.1	445.8	544.6	576.8
65°	374.3	334.9	419.3	513.8	541.0
67.5°	305.6	292.0	389.3	476.6	499.5
70°	247.6	252.6	356.4	435.1	454.4
72.5°	190.4	216.1	320.6	390.7	407.2
75°	145.3	181.8	282.7	346.4	360.7
77.5°	107.3	151.7	248.3	306.3	318.4
80°	75.9	125.2	216.1	271.2	280.5
82.5°	50.8	103.0	189.6	239.7	248.3
85°	29.3	84.4	166.7	213.3	219.0
87.5°	12.2	70.1	148.1	186.1	188.9
90°	1.4	59.4	131.7	158.9	157.4
92.5°	1.4	53.7	117.4	133.1	129.5
95°	1.4	50.1	104.5	111.6	108.1
97.5°	1.4	47.9	93.0	95.9	92.3
100°	0.7	46.5	85.2	85.2	81.6
102.5°	0.7	45.1	79.4	77.3	74.4
105°	0.7	43.7	75.1	73.0	69.4
107.5°	0.7	42.9	72.3	70.1	66.6
110°	0.7	41.5	70.1	68.0	65.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	40.8	68.7	67.3	63.7
115°	0.7	39.4	66.6	65.8	63.7
117.5°	0.7	37.9	65.1	65.1	63.0
120°	0.7	36.5	63.0	64.4	62.3
122.5°	0.7	35.1	60.8	63.0	60.8
125°	0.7	33.6	58.7	61.5	60.1
127.5°	1.4	31.5	55.8	60.1	58.7
130°	0.7	29.3	53.0	58.7	58.0
132.5°	1.4	27.2	50.1	56.5	56.5
135°	1.4	25.0	46.5	54.4	54.4
137.5°	1.4	22.2	42.9	51.5	52.2
140°	1.4	20.0	39.4	48.7	50.1
142.5°	1.4	17.9	35.8	45.8	47.9
145°	1.4	15.7	32.2	42.2	45.1
147.5°	1.4	14.3	28.6	37.9	42.2
150°	1.4	12.2	25.8	34.3	38.6
152.5°	1.4	10.7	22.9	30.8	35.8
155°	1.4	10.0	20.0	26.5	32.2
157.5°	1.4	8.6	17.2	22.9	28.6
160°	1.4	7.2	14.3	20.0	24.3
162.5°	1.4	6.4	12.2	16.5	21.5
165°	1.4	5.7	10.0	12.9	17.2
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)