

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: **8SNLED-LD5-170HL-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: 8SNLED-LD5-170HL-SLN-UNV-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

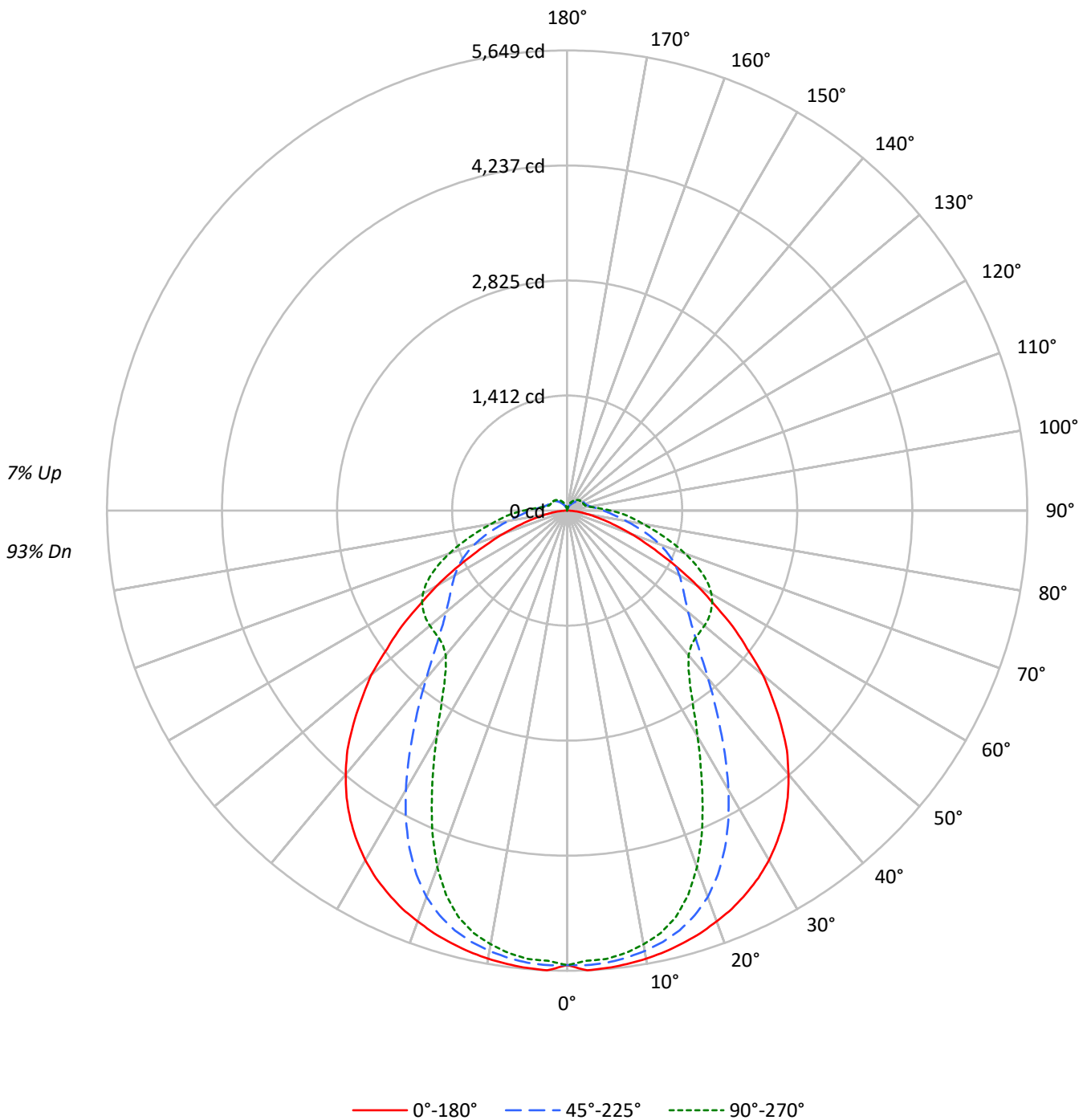
Lumens per Lamp: N/A  
Luminaire Lumens: 14030.0 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 124  
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°	22542	22542	22542
5°	22833	22064	21699
10°	22856	21474	20806
15°	22896	20773	19619
20°	22940	19721	17620
25°	22986	18087	14921
30°	22915	15930	12272
35°	22631	13566	10285
40°	22014	11501	9297
45°	20898	10007	9227
50°	19361	9159	9551
55°	17107	8816	9885
60°	14499	8704	10021
65°	11730	8528	9709
70°	9503	8106	8954
75°	7261	7358	7946
80°	5493	6634	7068
85°	3910	6295	6501



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	527.8	3.8
10°-20°	1491.8	10.6
20°-30°	2085.5	14.9
30°-40°	2163.1	15.4
40°-50°	1998.4	14.2
50°-60°	1784.2	12.7
60°-70°	1446.0	10.3
70°-80°	961.7	6.9
80°-90°	550.7	3.9
90°-100°	304.7	2.2
100°-110°	206.3	1.5
110°-120°	171.8	1.2
120°-130°	139.7	1.0
130°-140°	100.7	0.7
140°-150°	60.7	0.4
150°-160°	29.2	0.2
160°-170°	7.6	0.1
170°-180°	0.0	0.0
0°-30°	4105.1	29.3
0°-40°	6268.3	44.7
0°-60°	10050.9	71.6
0°-90°	13009.3	92.7
90°-120°	682.8	4.9
90°-150°	983.9	7.0
90°-180°	1021.0	7.3
0°-180°	14030.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5579	5579	5579	5579	5579	
5°	5637	5542	5572	5533	5526	536
15°	5496	5380	5334	5213	5162	1553
25°	5193	4963	4580	4100	3933	2393
35°	4638	4129	3283	2757	2633	2894
45°	3714	2943	2235	2155	2221	2856
55°	2483	1877	1746	2029	2155	2208
65°	1268	1135	1421	1741	1833	1282
75°	492	616	958	1174	1222	540
85°	99	286	565	722	742	114
90°	5	201	446	538	533	8
95°	5	170	354	378	366	4
105°	2	148	255	247	235	3
115°	2	133	226	223	216	2
125°	2	114	199	208	204	3
135°	5	85	158	184	184	3
145°	5	53	109	143	153	3
155°	5	34	68	90	109	2
165°	5	19	34	44	58	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-SLN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5578.9	5578.9	5578.9	5578.9	5578.9
2.5°	5649.2	5557.1	5586.2	5561.9	5530.4
5°	5637.1	5542.5	5571.6	5532.8	5525.5
7.5°	5615.3	5520.7	5537.7	5491.6	5479.5
10°	5586.2	5486.8	5489.2	5423.7	5406.7
12.5°	5547.4	5438.3	5423.7	5334.0	5309.8
15°	5496.5	5380.1	5334.0	5212.8	5161.9
17.5°	5440.7	5304.9	5210.4	5023.7	4943.7
20°	5365.5	5212.8	5047.9	4764.2	4657.6
22.5°	5290.4	5101.3	4837.0	4458.7	4315.7
25°	5193.4	4963.1	4580.0	4099.9	3932.6
27.5°	5084.3	4800.6	4284.2	3731.4	3552.0
30°	4955.8	4604.2	3959.3	3370.1	3200.4
32.5°	4805.5	4383.6	3617.4	3045.2	2887.6
35°	4638.2	4129.0	3282.8	2756.7	2633.1
37.5°	4446.6	3850.2	2972.5	2524.0	2443.9
40°	4228.4	3547.1	2686.4	2344.5	2317.9
42.5°	3993.2	3251.3	2441.5	2228.2	2252.4
45°	3714.4	2943.4	2235.4	2155.4	2220.9
47.5°	3421.0	2642.8	2068.1	2114.2	2208.8
50°	3137.4	2363.9	1937.2	2087.5	2199.1
52.5°	2785.8	2114.2	1833.0	2063.3	2184.5
55°	2482.7	1876.6	1745.7	2029.3	2155.4
57.5°	2133.6	1663.2	1668.1	1985.7	2111.8
60°	1842.7	1469.3	1592.9	1925.1	2046.3
62.5°	1546.9	1294.7	1510.5	1845.1	1954.2
65°	1268.0	1134.7	1420.8	1740.8	1833.0
67.5°	1035.3	989.2	1319.0	1614.8	1692.3
70°	838.9	855.9	1207.4	1474.1	1539.6
72.5°	644.9	732.2	1086.2	1323.8	1379.6
75°	492.2	615.8	957.7	1173.5	1222.0
77.5°	363.7	514.0	841.3	1037.7	1078.9
80°	257.0	424.3	732.2	918.9	950.4
82.5°	172.1	349.1	642.5	812.2	841.3
85°	99.4	286.1	564.9	722.5	741.9
87.5°	41.2	237.6	501.9	630.4	640.1
90°	4.8	201.2	446.1	538.3	533.4
92.5°	4.8	181.8	397.6	451.0	438.8
95°	4.8	169.7	354.0	378.2	366.1
97.5°	4.8	162.4	315.2	324.9	312.8
100°	2.4	157.6	288.5	288.5	276.4
102.5°	2.4	152.7	269.1	261.9	252.2
105°	2.4	147.9	254.6	247.3	235.2
107.5°	2.4	145.5	244.9	237.6	225.5
110°	2.4	140.6	237.6	230.3	220.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	138.2	232.8	227.9	215.8
115°	2.4	133.4	225.5	223.1	215.8
117.5°	2.4	128.5	220.6	220.6	213.4
120°	2.4	123.7	213.4	218.2	210.9
122.5°	2.4	118.8	206.1	213.4	206.1
125°	2.4	114.0	198.8	208.5	203.7
127.5°	4.8	106.7	189.1	203.7	198.8
130°	2.4	99.4	179.4	198.8	196.4
132.5°	4.8	92.1	169.7	191.5	191.5
135°	4.8	84.9	157.6	184.3	184.3
137.5°	4.8	75.2	145.5	174.6	177.0
140°	4.8	67.9	133.4	164.9	169.7
142.5°	4.8	60.6	121.2	155.2	162.4
145°	4.8	53.3	109.1	143.0	152.7
147.5°	4.8	48.5	97.0	128.5	143.0
150°	4.8	41.2	87.3	116.4	130.9
152.5°	4.8	36.4	77.6	104.3	121.2
155°	4.8	33.9	67.9	89.7	109.1
157.5°	4.8	29.1	58.2	77.6	97.0
160°	4.8	24.2	48.5	67.9	82.4
162.5°	4.8	21.8	41.2	55.8	72.7
165°	4.8	19.4	33.9	43.6	58.2
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)