

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-L950-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-L950-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

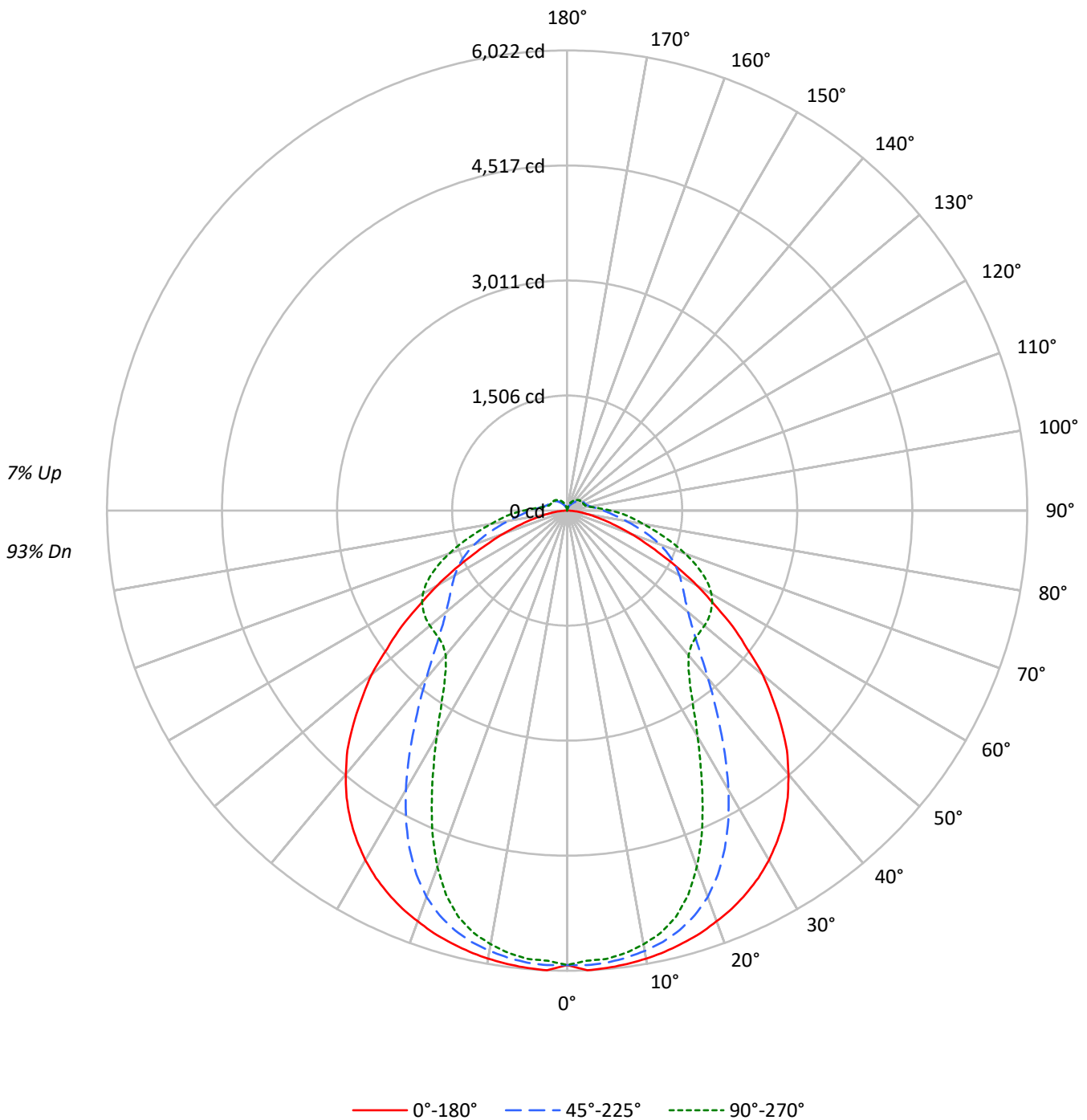
Lumens per Lamp: N/A  
Luminaire Lumens: 14955.0 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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°	24028	24028	24028
5°	24338	23519	23129
10°	24363	22890	22178
15°	24405	22143	20913
20°	24453	21021	18781
25°	24501	19279	15904
30°	24426	16980	13081
35°	24123	14461	10963
40°	23466	12259	9910
45°	22276	10667	9835
50°	20637	9763	10181
55°	18235	9398	10536
60°	15454	9278	10682
65°	12503	9090	10349
70°	10129	8641	9544
75°	7738	7843	8469
80°	5854	7072	7534
85°	4169	6711	6930



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	562.6	3.8
10°-20°	1590.2	10.6
20°-30°	2222.9	14.9
30°-40°	2305.8	15.4
40°-50°	2130.2	14.2
50°-60°	1901.8	12.7
60°-70°	1541.3	10.3
70°-80°	1025.2	6.9
80°-90°	587.1	3.9
90°-100°	324.8	2.2
100°-110°	219.9	1.5
110°-120°	183.1	1.2
120°-130°	148.9	1.0
130°-140°	107.4	0.7
140°-150°	64.8	0.4
150°-160°	31.1	0.2
160°-170°	8.1	0.1
170°-180°	0.0	0.0
0°-30°	4375.8	29.3
0°-40°	6681.5	44.7
0°-60°	10713.5	71.6
0°-90°	13867.0	92.7
90°-120°	727.8	4.9
90°-150°	1048.8	7.0
90°-180°	1088.0	7.3
0°-180°	14955.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5947	5947	5947	5947	5947	
5°	6009	5908	5939	5898	5890	572
15°	5859	5735	5686	5556	5502	1656
25°	5536	5290	4882	4370	4192	2551
35°	4944	4401	3499	2938	2807	3085
45°	3959	3138	2383	2298	2367	3044
55°	2646	2000	1861	2163	2298	2353
65°	1352	1210	1514	1856	1954	1366
75°	525	656	1021	1251	1302	575
85°	106	305	602	770	791	122
90°	5	214	476	574	569	8
95°	5	181	377	403	390	4
105°	3	158	271	264	251	3
115°	3	142	240	238	230	3
125°	3	122	212	222	217	3
135°	5	90	168	196	196	4
145°	5	57	116	152	163	3
155°	5	36	72	96	116	2
165°	5	21	36	46	62	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-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5946.7	5946.7	5946.7	5946.7	5946.7
2.5°	6021.7	5923.4	5954.5	5928.6	5895.0
5°	6008.7	5907.9	5939.0	5897.6	5889.8
7.5°	5985.5	5884.7	5902.8	5853.7	5840.7
10°	5954.5	5848.5	5851.1	5781.3	5763.2
12.5°	5913.1	5796.8	5781.3	5685.7	5659.8
15°	5858.8	5734.8	5685.7	5556.5	5502.2
17.5°	5799.4	5654.7	5553.9	5354.9	5269.6
20°	5719.3	5556.5	5380.7	5078.3	4964.6
22.5°	5639.2	5437.6	5155.9	4752.7	4600.2
25°	5535.8	5290.3	4881.9	4370.2	4191.9
27.5°	5419.5	5117.1	4566.6	3977.4	3786.1
30°	5282.5	4907.8	4220.3	3592.3	3411.4
32.5°	5122.3	4672.6	3855.9	3246.0	3078.0
35°	4944.0	4401.2	3499.3	2938.5	2806.7
37.5°	4739.8	4104.0	3168.5	2690.4	2605.1
40°	4507.2	3781.0	2863.5	2499.1	2470.7
42.5°	4256.5	3465.7	2602.5	2375.1	2400.9
45°	3959.3	3137.5	2382.8	2297.5	2367.3
47.5°	3646.6	2817.0	2204.5	2253.6	2354.4
50°	3344.2	2519.8	2064.9	2225.2	2344.1
52.5°	2969.5	2253.6	1953.8	2199.3	2328.5
55°	2646.4	2000.3	1860.8	2163.1	2297.5
57.5°	2274.3	1772.9	1778.1	2116.6	2251.0
60°	1964.1	1566.1	1698.0	2052.0	2181.2
62.5°	1648.8	1380.1	1610.1	1966.7	2083.0
65°	1351.6	1209.5	1514.5	1855.6	1953.8
67.5°	1103.5	1054.4	1405.9	1721.2	1803.9
70°	894.2	912.3	1287.0	1571.3	1641.1
72.5°	687.5	780.5	1157.8	1411.1	1470.5
75°	524.6	656.4	1020.8	1250.9	1302.5
77.5°	387.7	547.9	896.8	1106.1	1150.1
80°	273.9	452.3	780.5	979.5	1013.1
82.5°	183.5	372.2	684.9	865.8	896.8
85°	106.0	305.0	602.2	770.2	790.8
87.5°	43.9	253.3	535.0	671.9	682.3
90°	5.2	214.5	475.5	573.7	568.6
92.5°	5.2	193.8	423.8	480.7	467.8
95°	5.2	180.9	377.3	403.2	390.2
97.5°	5.2	173.2	336.0	346.3	333.4
100°	2.6	168.0	307.5	307.5	294.6
102.5°	2.6	162.8	286.9	279.1	268.8
105°	2.6	157.6	271.4	263.6	250.7
107.5°	2.6	155.1	261.0	253.3	240.3
110°	2.6	149.9	253.3	245.5	235.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	147.3	248.1	242.9	230.0
115°	2.6	142.1	240.3	237.8	230.0
117.5°	2.6	137.0	235.2	235.2	227.4
120°	2.6	131.8	227.4	232.6	224.8
122.5°	2.6	126.6	219.7	227.4	219.7
125°	2.6	121.5	211.9	222.3	217.1
127.5°	5.2	113.7	201.6	217.1	211.9
130°	2.6	106.0	191.2	211.9	209.3
132.5°	5.2	98.2	180.9	204.2	204.2
135°	5.2	90.5	168.0	196.4	196.4
137.5°	5.2	80.1	155.1	186.1	188.7
140°	5.2	72.4	142.1	175.7	180.9
142.5°	5.2	64.6	129.2	165.4	173.2
145°	5.2	56.9	116.3	152.5	162.8
147.5°	5.2	51.7	103.4	137.0	152.5
150°	5.2	43.9	93.0	124.1	139.6
152.5°	5.2	38.8	82.7	111.1	129.2
155°	5.2	36.2	72.4	95.6	116.3
157.5°	5.2	31.0	62.0	82.7	103.4
160°	5.2	25.8	51.7	72.4	87.9
162.5°	5.2	23.3	43.9	59.4	77.5
165°	5.2	20.7	36.2	46.5	62.0
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)