

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-SLC-UNV-L935-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: 8SNLED-LD5-170HL-SLC-UNV-L935-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

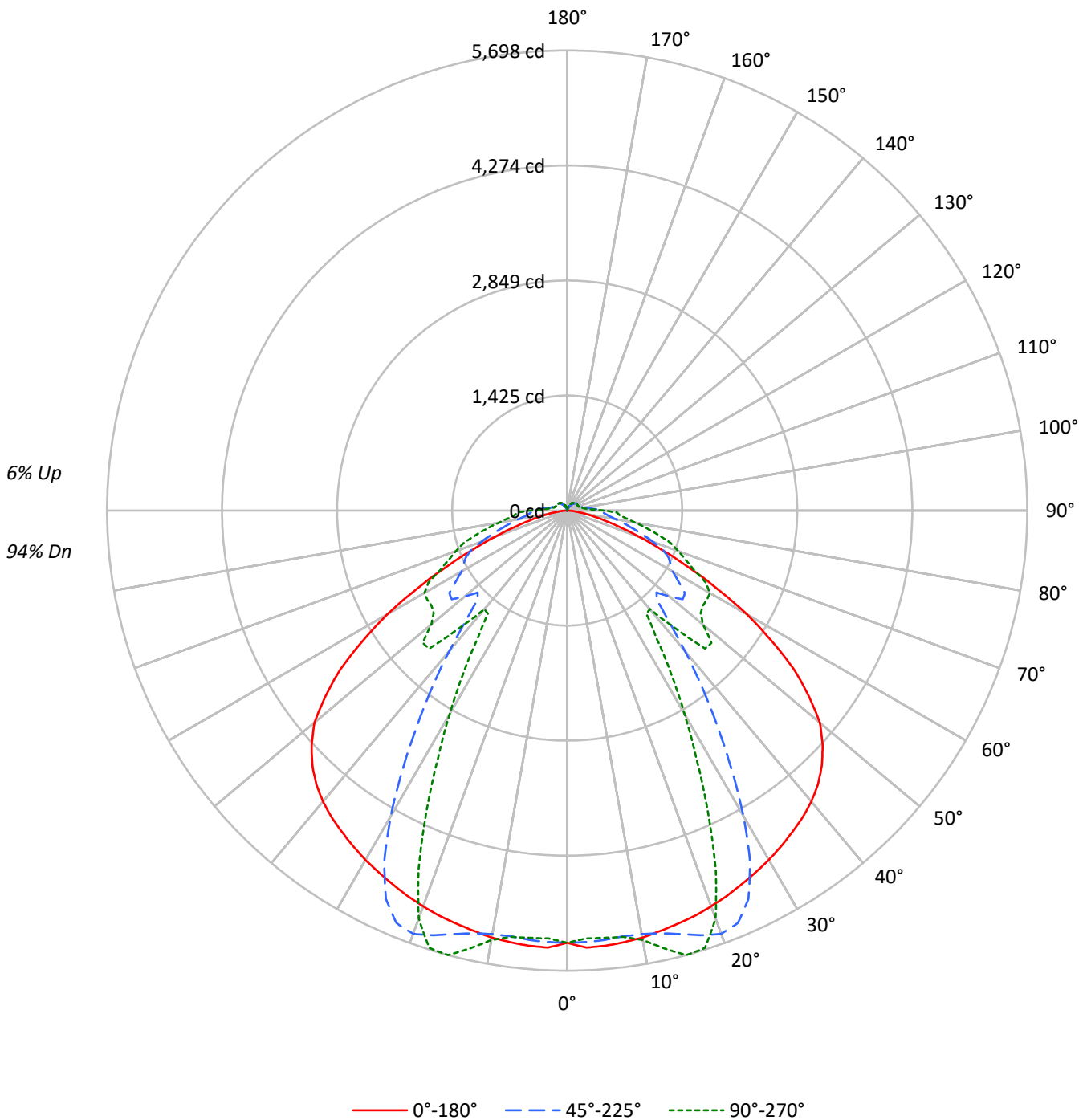
Lumens per Lamp: N/A  
Luminaire Lumens: 13743.0 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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	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°	21617	21617	21617
5°	21909	21131	20851
10°	21968	20828	20779
15°	22059	21140	21657
20°	22297	21789	20329
25°	22610	20959	15653
30°	23095	17571	11134
35°	23712	13320	7539
40°	24488	9693	6384
45°	25104	7040	10036
50°	25210	7805	9525
55°	23647	8995	9406
60°	20237	8243	9997
65°	15315	8330	9145
70°	10838	7601	8512
75°	7197	6387	7638
80°	4709	5494	6358
85°	2702	5252	5707



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	509.0	3.7
10°-20°	1537.1	11.2
20°-30°	2232.9	16.2
30°-40°	2133.4	15.5
40°-50°	1951.5	14.2
50°-60°	1801.9	13.1
60°-70°	1431.3	10.4
70°-80°	883.4	6.4
80°-90°	481.1	3.5
90°-100°	243.1	1.8
100°-110°	152.8	1.1
110°-120°	129.4	0.9
120°-130°	105.7	0.8
130°-140°	75.8	0.6
140°-150°	46.8	0.3
150°-160°	22.2	0.2
160°-170°	5.8	0.0
170°-180°	0.0	0.0
0°-30°	4278.9	31.1
0°-40°	6412.4	46.7
0°-60°	10165.7	74.0
0°-90°	12961.5	94.3
90°-120°	525.3	3.8
90°-150°	753.6	5.5
90°-180°	782.0	5.7
0°-180°	13743.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5350	5350	5350	5350	5350	
5°	5409	5326	5336	5307	5310	515
15°	5296	5224	5428	5630	5698	1499
25°	5108	5208	5307	4493	4126	2361
35°	4860	4782	3223	2219	1930	3047
45°	4462	3112	1573	2006	2416	3429
55°	3432	1596	1781	1916	2051	3022
65°	1656	1035	1388	1686	1726	1674
75°	488	552	831	1101	1175	553
85°	69	234	471	642	651	88
90°	2	175	422	500	462	4
95°	0	163	291	258	244	0
105°	0	147	180	163	161	0
115°	0	121	173	154	147	1
125°	2	97	154	149	142	2
135°	2	69	123	135	130	2
145°	2	43	85	109	116	2
155°	5	26	52	69	83	2
165°	5	14	26	33	45	1
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°	5350.0	5350.0	5350.0	5350.0	5350.0
2.5°	5416.3	5338.2	5347.7	5331.1	5302.7
5°	5409.2	5326.3	5335.8	5307.4	5309.8
7.5°	5390.3	5305.0	5316.9	5312.1	5324.0
10°	5369.0	5279.0	5324.0	5364.2	5399.8
12.5°	5331.1	5250.5	5359.5	5477.9	5551.3
15°	5295.5	5224.5	5428.2	5629.5	5698.2
17.5°	5260.0	5215.0	5513.4	5688.7	5679.2
20°	5215.0	5210.3	5577.4	5518.2	5373.7
22.5°	5165.3	5212.7	5527.6	5094.2	4810.0
25°	5108.5	5207.9	5307.4	4492.7	4125.6
27.5°	5051.6	5186.6	4907.1	3834.3	3471.9
30°	4994.8	5129.8	4367.2	3232.7	2903.6
32.5°	4928.5	5006.6	3779.8	2699.9	2396.7
35°	4859.8	4781.6	3223.3	2219.1	1930.2
37.5°	4788.7	4457.2	2723.6	1797.5	1612.8
40°	4703.5	4049.8	2264.1	1541.8	1591.5
42.5°	4596.9	3590.4	1859.1	1617.6	1963.3
45°	4461.9	3112.0	1572.6	2006.0	2415.7
47.5°	4291.4	2652.5	1501.5	2297.3	2425.2
50°	4085.3	2231.0	1650.7	2202.5	2193.1
52.5°	3772.7	1880.4	1802.3	2008.3	2084.1
55°	3431.7	1596.2	1781.0	1916.0	2051.0
57.5°	3000.7	1404.4	1634.1	1897.0	2053.3
60°	2572.0	1276.5	1508.6	1894.7	2041.5
62.5°	2098.3	1160.5	1444.7	1849.7	1937.3
65°	1655.5	1035.0	1387.8	1686.2	1726.5
67.5°	1269.4	907.1	1288.4	1503.9	1584.4
70°	956.8	781.5	1132.1	1364.1	1463.6
72.5°	689.2	663.1	971.0	1241.0	1345.2
75°	487.9	551.8	831.3	1101.3	1174.7
77.5°	336.3	450.0	712.9	947.3	1006.5
80°	220.3	360.0	606.3	814.7	855.0
82.5°	132.6	288.9	525.8	712.9	734.2
85°	68.7	234.5	471.3	641.8	651.3
87.5°	21.3	196.6	440.5	608.7	620.5
90°	2.4	175.3	421.6	499.7	461.8
92.5°	0.0	165.8	364.7	341.0	305.5
95°	0.0	163.4	291.3	258.1	243.9
97.5°	0.0	158.7	239.2	215.5	208.4
100°	0.0	153.9	206.0	189.5	187.1
102.5°	0.0	151.6	187.1	172.9	170.5
105°	0.0	146.8	180.0	163.4	161.0
107.5°	0.0	139.7	175.3	158.7	153.9
110°	0.0	132.6	175.3	156.3	149.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	125.5	175.3	153.9	146.8
115°	0.0	120.8	172.9	153.9	146.8
117.5°	2.4	116.0	170.5	153.9	146.8
120°	0.0	111.3	165.8	153.9	144.5
122.5°	2.4	104.2	161.0	151.6	144.5
125°	2.4	97.1	153.9	149.2	142.1
127.5°	2.4	90.0	146.8	144.5	137.4
130°	2.4	82.9	139.7	142.1	135.0
132.5°	2.4	75.8	130.3	137.4	132.6
135°	2.4	68.7	123.2	135.0	130.3
137.5°	2.4	61.6	113.7	127.9	127.9
140°	2.4	54.5	104.2	123.2	125.5
142.5°	2.4	49.7	94.7	118.4	120.8
145°	2.4	42.6	85.3	108.9	116.0
147.5°	2.4	37.9	75.8	99.5	108.9
150°	2.4	33.2	66.3	90.0	99.5
152.5°	2.4	28.4	59.2	78.2	92.4
155°	4.7	26.1	52.1	68.7	82.9
157.5°	4.7	21.3	42.6	59.2	71.0
160°	4.7	18.9	37.9	49.7	63.9
162.5°	4.7	16.6	30.8	42.6	54.5
165°	4.7	14.2	26.1	33.2	45.0
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)