

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-L835-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-L835-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

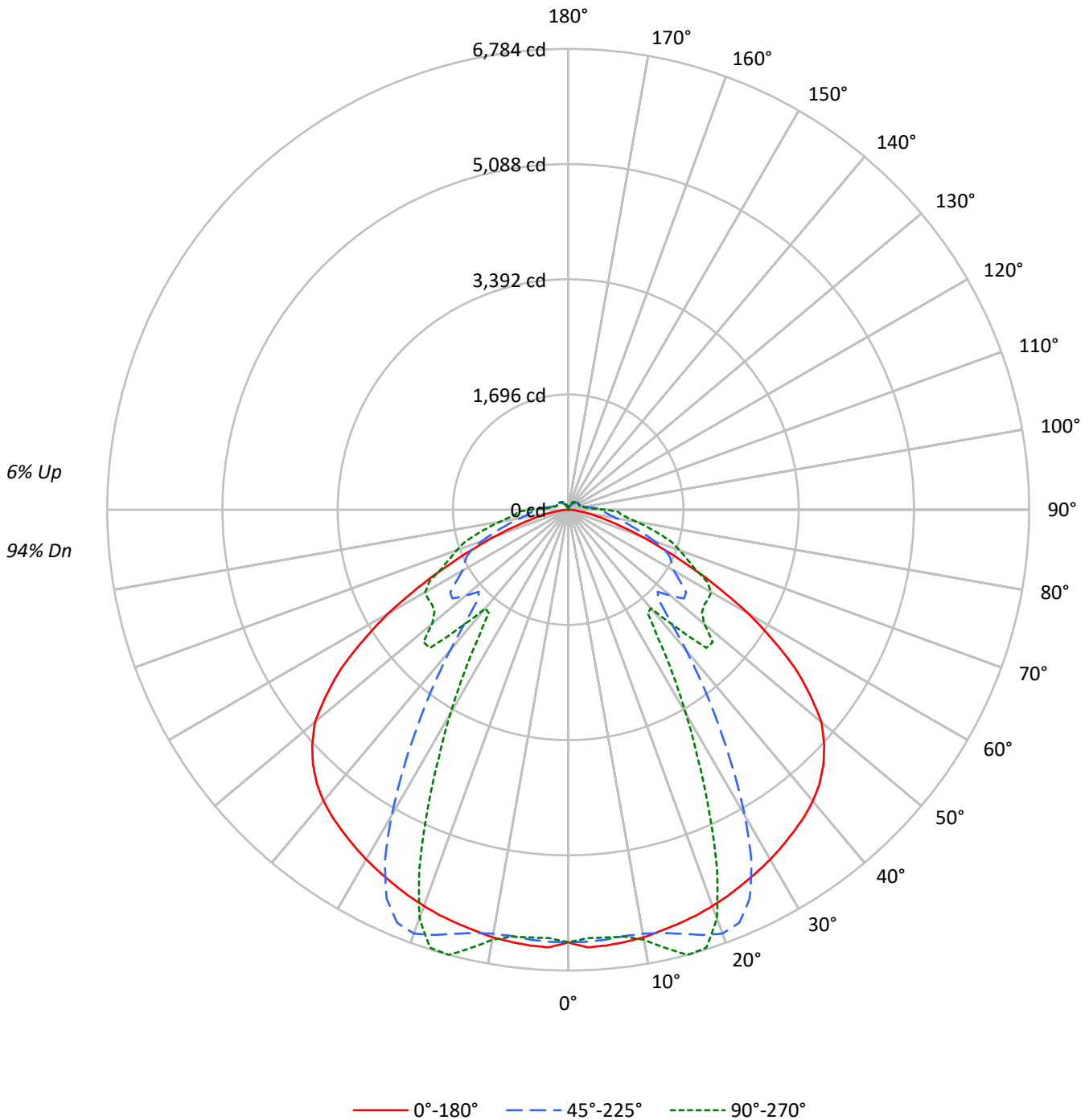
Lumens per Lamp: N/A  
Luminaire Lumens: 16361.0 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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°	25735	25735	25735
5°	26083	25156	24823
10°	26152	24796	24737
15°	26261	25167	25783
20°	26544	25940	24201
25°	26917	24952	18635
30°	27495	20918	13255
35°	28229	15858	8975
40°	29152	11540	7600
45°	29886	8380	11948
50°	30013	9292	11339
55°	28151	10708	11197
60°	24091	9814	11902
65°	18231	9917	10887
70°	12903	9048	10133
75°	8567	7603	9093
80°	5604	6540	7569
85°	3218	6253	6795



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	605.9	3.7
10°-20°	1829.9	11.2
20°-30°	2658.2	16.2
30°-40°	2539.8	15.5
40°-50°	2323.2	14.2
50°-60°	2145.1	13.1
60°-70°	1703.9	10.4
70°-80°	1051.7	6.4
80°-90°	572.7	3.5
90°-100°	289.5	1.8
100°-110°	181.9	1.1
110°-120°	154.1	0.9
120°-130°	125.8	0.8
130°-140°	90.3	0.6
140°-150°	55.7	0.3
150°-160°	26.4	0.2
160°-170°	6.9	0.0
170°-180°	0.0	0.0
0°-30°	5094.1	31.1
0°-40°	7633.9	46.7
0°-60°	12102.3	74.0
0°-90°	15430.6	94.3
90°-120°	625.4	3.8
90°-150°	897.2	5.5
90°-180°	930.0	5.7
0°-180°	16361.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6369	6369	6369	6369	6369	
5°	6440	6341	6352	6318	6321	613
15°	6304	6220	6462	6702	6784	1784
25°	6082	6200	6318	5348	4912	2811
35°	5786	5692	3837	2642	2298	3628
45°	5312	3705	1872	2388	2876	4082
55°	4085	1900	2120	2281	2442	3598
65°	1971	1232	1652	2008	2055	1993
75°	581	657	990	1311	1398	658
85°	82	279	561	764	775	104
90°	3	209	502	595	550	4
95°	0	194	347	307	290	0
105°	0	175	214	194	192	0
115°	0	144	206	183	175	1
125°	3	116	183	178	169	2
135°	3	82	147	161	155	2
145°	3	51	102	130	138	2
155°	6	31	62	82	99	2
165°	6	17	31	40	54	1
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°	6369.2	6369.2	6369.2	6369.2	6369.2
2.5°	6448.1	6355.1	6366.4	6346.6	6312.8
5°	6439.7	6341.0	6352.3	6318.4	6321.2
7.5°	6417.1	6315.6	6329.7	6324.1	6338.2
10°	6391.7	6284.6	6338.2	6386.1	6428.4
12.5°	6346.6	6250.8	6380.5	6521.4	6608.8
15°	6304.3	6219.7	6462.2	6701.9	6783.6
17.5°	6262.0	6208.5	6563.7	6772.4	6761.1
20°	6208.5	6202.8	6639.8	6569.4	6397.4
22.5°	6149.3	6205.7	6580.6	6064.7	5726.3
25°	6081.6	6200.0	6318.4	5348.5	4911.5
27.5°	6013.9	6174.6	5841.9	4564.7	4133.3
30°	5946.3	6107.0	5199.1	3848.6	3456.7
32.5°	5867.3	5960.4	4499.9	3214.2	2853.3
35°	5785.6	5692.5	3837.3	2641.8	2297.9
37.5°	5701.0	5306.2	3242.4	2140.0	1920.1
40°	5599.5	4821.3	2695.4	1835.5	1894.7
42.5°	5472.6	4274.3	2213.3	1925.7	2337.3
45°	5311.9	3704.8	1872.1	2388.1	2875.9
47.5°	5108.9	3157.8	1787.5	2734.9	2887.1
50°	4863.6	2655.9	1965.2	2622.1	2610.8
52.5°	4491.4	2238.7	2145.6	2390.9	2481.1
55°	4085.4	1900.3	2120.2	2281.0	2441.7
57.5°	3572.3	1671.9	1945.4	2258.4	2444.5
60°	3061.9	1519.7	1796.0	2255.6	2430.4
62.5°	2498.0	1381.5	1719.9	2202.0	2306.3
65°	1970.8	1232.1	1652.2	2007.5	2055.4
67.5°	1511.2	1079.9	1533.8	1790.4	1886.2
70°	1139.1	930.4	1347.7	1624.0	1742.4
72.5°	820.5	789.5	1156.0	1477.4	1601.5
75°	580.8	656.9	989.6	1311.1	1398.5
77.5°	400.4	535.7	848.7	1127.8	1198.3
80°	262.2	428.6	721.8	969.9	1017.8
82.5°	157.9	344.0	625.9	848.7	874.0
85°	81.8	279.1	561.1	764.1	775.4
87.5°	25.4	234.0	524.4	724.6	738.7
90°	2.8	208.6	501.9	594.9	549.8
92.5°	0.0	197.4	434.2	406.0	363.7
95°	0.0	194.5	346.8	307.3	290.4
97.5°	0.0	188.9	284.8	256.6	248.1
100°	0.0	183.3	245.3	225.6	222.7
102.5°	0.0	180.4	222.7	205.8	203.0
105°	0.0	174.8	214.3	194.5	191.7
107.5°	0.0	166.3	208.6	188.9	183.3
110°	0.0	157.9	208.6	186.1	177.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	149.4	208.6	183.3	174.8
115°	0.0	143.8	205.8	183.3	174.8
117.5°	2.8	138.2	203.0	183.3	174.8
120°	0.0	132.5	197.4	183.3	172.0
122.5°	2.8	124.1	191.7	180.4	172.0
125°	2.8	115.6	183.3	177.6	169.2
127.5°	2.8	107.1	174.8	172.0	163.5
130°	2.8	98.7	166.3	169.2	160.7
132.5°	2.8	90.2	155.1	163.5	157.9
135°	2.8	81.8	146.6	160.7	155.1
137.5°	2.8	73.3	135.3	152.3	152.3
140°	2.8	64.8	124.1	146.6	149.4
142.5°	2.8	59.2	112.8	141.0	143.8
145°	2.8	50.8	101.5	129.7	138.2
147.5°	2.8	45.1	90.2	118.4	129.7
150°	2.8	39.5	78.9	107.1	118.4
152.5°	2.8	33.8	70.5	93.0	110.0
155°	5.6	31.0	62.0	81.8	98.7
157.5°	5.6	25.4	50.8	70.5	84.6
160°	5.6	22.6	45.1	59.2	76.1
162.5°	5.6	19.7	36.7	50.8	64.8
165°	5.6	16.9	31.0	39.5	53.6
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)