

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-L830-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-L830-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

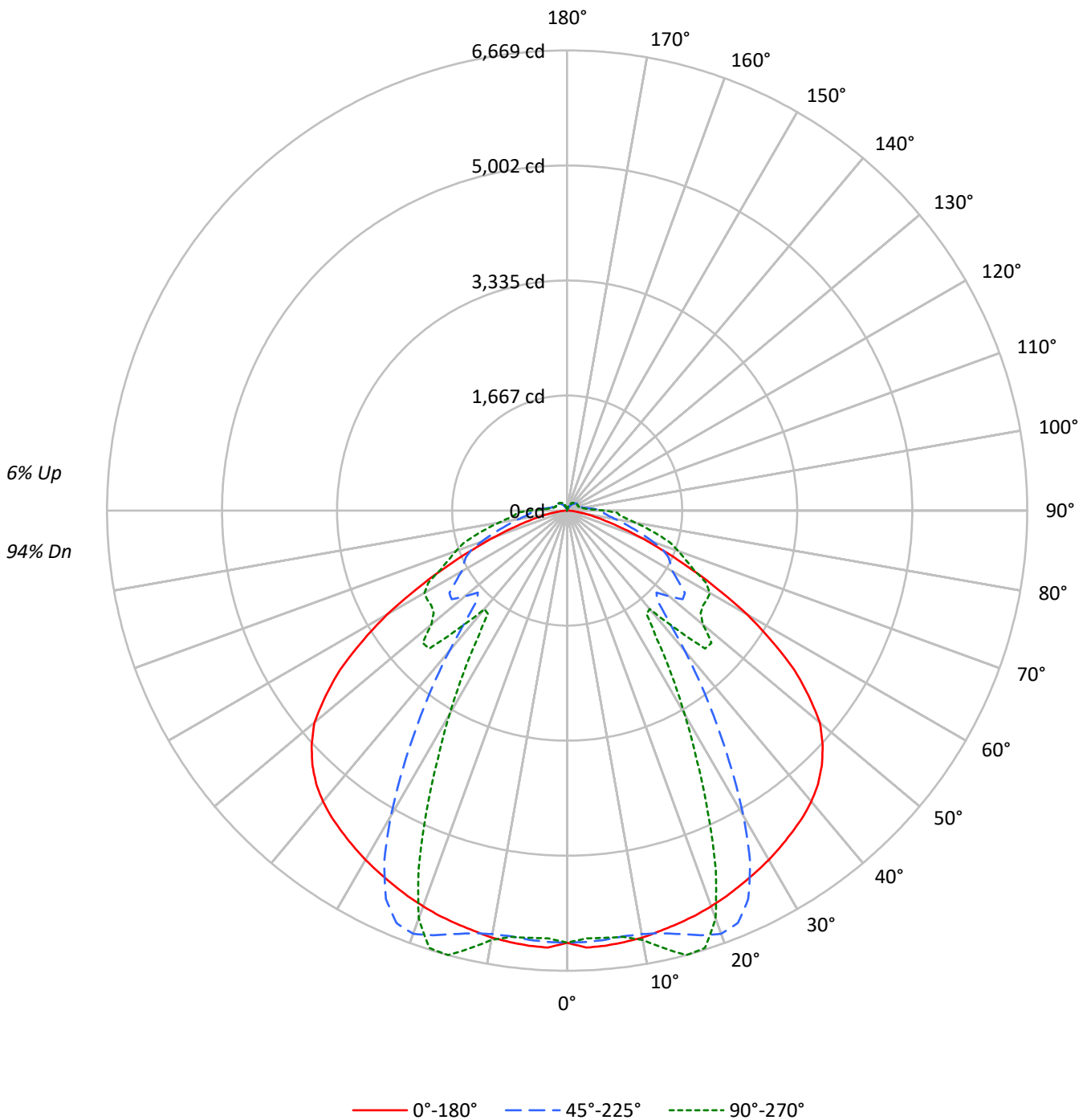
Lumens per Lamp: N/A  
Luminaire Lumens: 16084.0 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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°	25299	25299	25299
5°	25641	24730	24403
10°	25709	24376	24319
15°	25817	24741	25346
20°	26095	25501	23791
25°	26461	24530	18319
30°	27029	20564	13030
35°	27751	15589	8823
40°	28659	11345	7471
45°	29380	8239	11746
50°	29505	9134	11147
55°	27674	10526	11008
60°	23684	9648	11700
65°	17922	9748	10703
70°	12684	8895	9962
75°	8423	7475	8939
80°	5510	6430	7441
85°	3163	6147	6679



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	595.7	3.7
10°-20°	1798.9	11.2
20°-30°	2613.2	16.2
30°-40°	2496.8	15.5
40°-50°	2283.9	14.2
50°-60°	2108.8	13.1
60°-70°	1675.1	10.4
70°-80°	1033.9	6.4
80°-90°	563.0	3.5
90°-100°	284.5	1.8
100°-110°	178.8	1.1
110°-120°	151.5	0.9
120°-130°	123.7	0.8
130°-140°	88.7	0.6
140°-150°	54.7	0.3
150°-160°	26.0	0.2
160°-170°	6.7	0.0
170°-180°	0.0	0.0
0°-30°	5007.8	31.1
0°-40°	7504.6	46.7
0°-60°	11897.4	74.0
0°-90°	15169.3	94.3
90°-120°	614.8	3.8
90°-150°	882.0	5.5
90°-180°	915.0	5.7
0°-180°	16084.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6261	6261	6261	6261	6261	
5°	6331	6234	6245	6212	6214	602
15°	6198	6114	6353	6588	6669	1754
25°	5979	6095	6212	5258	4828	2763
35°	5688	5596	3772	2597	2259	3566
45°	5222	3642	1840	2348	2827	4013
55°	4016	1868	2084	2242	2400	3537
65°	1937	1211	1624	1974	2021	1959
75°	571	646	973	1289	1375	647
85°	80	274	552	751	762	102
90°	3	205	493	585	540	4
95°	0	191	341	302	286	0
105°	0	172	211	191	188	0
115°	0	141	202	180	172	1
125°	3	114	180	175	166	2
135°	3	80	144	158	152	2
145°	3	50	100	128	136	2
155°	6	30	61	80	97	2
165°	6	17	30	39	53	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°	6261.3	6261.3	6261.3	6261.3	6261.3
2.5°	6339.0	6247.5	6258.6	6239.2	6205.9
5°	6330.6	6233.6	6244.7	6211.5	6214.2
7.5°	6308.5	6208.7	6222.5	6217.0	6230.9
10°	6283.5	6178.2	6230.9	6278.0	6319.6
12.5°	6239.2	6144.9	6272.4	6411.0	6496.9
15°	6197.6	6114.4	6352.8	6588.4	6668.8
17.5°	6156.0	6103.4	6452.6	6657.7	6646.6
20°	6103.4	6097.8	6527.4	6458.1	6289.1
22.5°	6045.2	6100.6	6469.2	5962.0	5629.4
25°	5978.6	6095.0	6211.5	5258.0	4828.4
27.5°	5912.1	6070.1	5743.0	4487.4	4063.4
30°	5845.6	6003.6	5111.1	3783.4	3398.1
32.5°	5768.0	5859.4	4423.7	3159.8	2805.0
35°	5687.6	5596.1	3772.3	2597.1	2259.0
37.5°	5604.4	5216.4	3187.5	2103.7	1887.6
40°	5504.7	4739.7	2649.8	1804.4	1862.6
42.5°	5379.9	4201.9	2175.8	1893.1	2297.8
45°	5221.9	3642.1	1840.4	2347.7	2827.2
47.5°	5022.4	3104.3	1757.3	2688.6	2838.3
50°	4781.2	2611.0	1931.9	2577.7	2566.6
52.5°	4415.4	2200.8	2109.3	2350.4	2439.1
55°	4016.2	1868.1	2084.3	2242.3	2400.3
57.5°	3511.8	1643.6	1912.5	2220.2	2403.1
60°	3010.1	1494.0	1765.6	2217.4	2389.2
62.5°	2455.8	1358.1	1690.8	2164.7	2267.3
65°	1937.4	1211.2	1624.2	1973.5	2020.6
67.5°	1485.6	1061.6	1507.8	1760.1	1854.3
70°	1119.8	914.7	1324.9	1596.5	1712.9
72.5°	806.6	776.1	1136.4	1452.4	1574.3
75°	571.0	645.8	972.9	1288.9	1374.8
77.5°	393.6	526.6	834.3	1108.7	1178.0
80°	257.8	421.3	709.6	953.5	1000.6
82.5°	155.2	338.2	615.3	834.3	859.2
85°	80.4	274.4	551.6	751.1	762.2
87.5°	24.9	230.1	515.5	712.3	726.2
90°	2.8	205.1	493.4	584.8	540.5
92.5°	0.0	194.0	426.8	399.1	357.6
95°	0.0	191.2	340.9	302.1	285.5
97.5°	0.0	185.7	279.9	252.2	243.9
100°	0.0	180.2	241.1	221.7	219.0
102.5°	0.0	177.4	219.0	202.3	199.6
105°	0.0	171.8	210.7	191.2	188.5
107.5°	0.0	163.5	205.1	185.7	180.2
110°	0.0	155.2	205.1	182.9	174.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	146.9	205.1	180.2	171.8
115°	0.0	141.4	202.3	180.2	171.8
117.5°	2.8	135.8	199.6	180.2	171.8
120°	0.0	130.3	194.0	180.2	169.1
122.5°	2.8	122.0	188.5	177.4	169.1
125°	2.8	113.6	180.2	174.6	166.3
127.5°	2.8	105.3	171.8	169.1	160.8
130°	2.8	97.0	163.5	166.3	158.0
132.5°	2.8	88.7	152.4	160.8	155.2
135°	2.8	80.4	144.1	158.0	152.4
137.5°	2.8	72.1	133.0	149.7	149.7
140°	2.8	63.7	122.0	144.1	146.9
142.5°	2.8	58.2	110.9	138.6	141.4
145°	2.8	49.9	99.8	127.5	135.8
147.5°	2.8	44.3	88.7	116.4	127.5
150°	2.8	38.8	77.6	105.3	116.4
152.5°	2.8	33.3	69.3	91.5	108.1
155°	5.5	30.5	61.0	80.4	97.0
157.5°	5.5	24.9	49.9	69.3	83.2
160°	5.5	22.2	44.3	58.2	74.8
162.5°	5.5	19.4	36.0	49.9	63.7
165°	5.5	16.6	30.5	38.8	52.7
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)