

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

**Summary**

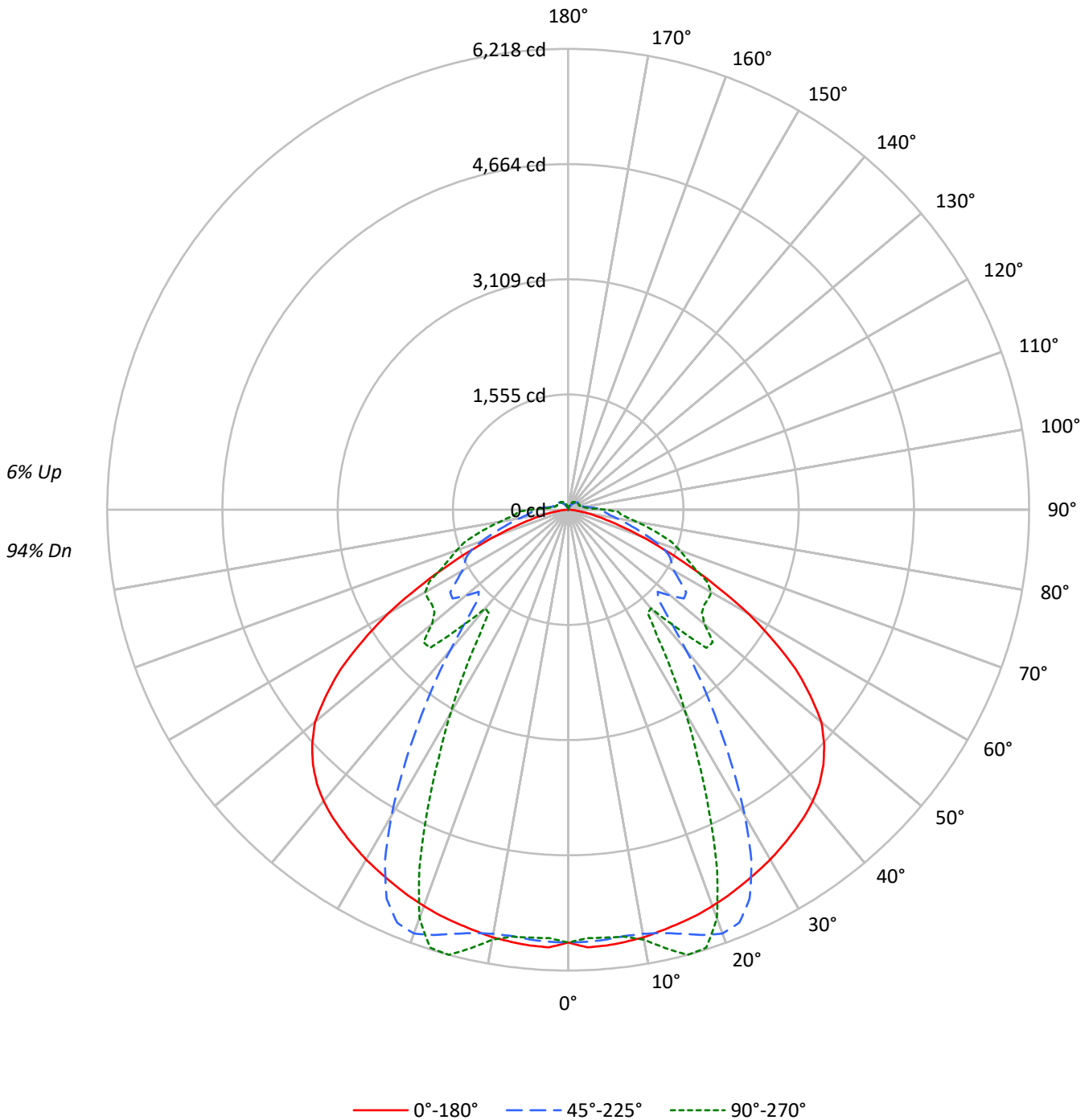
Lumens per Lamp: N/A  
Luminaire Lumens: 14997.0 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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°	23589	23589	23589
5°	23909	23059	22754
10°	23972	22729	22675
15°	24072	23069	23633
20°	24331	23777	22183
25°	24673	22872	17081
30°	25202	19174	12150
35°	25875	14536	8227
40°	26722	10578	6966
45°	27394	7682	10952
50°	27511	8517	10394
55°	25804	9815	10264
60°	22083	8996	10910
65°	16711	9090	9979
70°	11827	8294	9289
75°	7854	6970	8335
80°	5138	5995	6938
85°	2946	5731	6228



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.4	3.7
10°-20°	1677.3	11.2
20°-30°	2436.6	16.2
30°-40°	2328.1	15.5
40°-50°	2129.6	14.2
50°-60°	1966.3	13.1
60°-70°	1561.9	10.4
70°-80°	964.0	6.4
80°-90°	524.9	3.5
90°-100°	265.3	1.8
100°-110°	166.7	1.1
110°-120°	141.2	0.9
120°-130°	115.3	0.8
130°-140°	82.8	0.6
140°-150°	51.0	0.3
150°-160°	24.2	0.2
160°-170°	6.3	0.0
170°-180°	0.0	0.0
0°-30°	4669.4	31.1
0°-40°	6997.5	46.7
0°-60°	11093.3	74.0
0°-90°	14144.1	94.3
90°-120°	573.3	3.8
90°-150°	822.4	5.5
90°-180°	853.0	5.7
0°-180°	14997.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5838	5838	5838	5838	5838	
5°	5903	5812	5823	5792	5794	562
15°	5779	5701	5924	6143	6218	1635
25°	5575	5683	5792	4903	4502	2577
35°	5303	5218	3517	2422	2106	3325
45°	4869	3396	1716	2189	2636	3742
55°	3745	1742	1944	2091	2238	3298
65°	1806	1129	1514	1840	1884	1827
75°	532	602	907	1202	1282	604
85°	75	256	514	700	711	96
90°	3	191	460	545	504	4
95°	0	178	318	282	266	0
105°	0	160	196	178	176	0
115°	0	132	189	168	160	1
125°	3	106	168	163	155	2
135°	3	75	134	147	142	2
145°	3	46	93	119	127	2
155°	5	28	57	75	90	2
165°	5	16	28	36	49	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-SLC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5838.2	5838.2	5838.2	5838.2	5838.2
2.5°	5910.6	5825.3	5835.6	5817.5	5786.5
5°	5902.8	5812.3	5822.7	5791.7	5794.3
7.5°	5882.1	5789.1	5802.0	5796.8	5809.8
10°	5858.9	5760.7	5809.8	5853.7	5892.5
12.5°	5817.5	5729.6	5848.5	5977.7	6057.9
15°	5778.7	5701.2	5923.5	6143.1	6218.1
17.5°	5740.0	5690.9	6016.5	6207.8	6197.4
20°	5690.9	5685.7	6086.3	6021.7	5864.0
22.5°	5636.6	5688.3	6032.0	5559.1	5248.9
25°	5574.6	5683.1	5791.7	4902.6	4502.0
27.5°	5512.6	5659.9	5354.9	4184.2	3788.7
30°	5450.5	5597.8	4765.7	3527.7	3168.5
32.5°	5378.2	5463.4	4124.7	2946.2	2615.4
35°	5303.2	5217.9	3517.4	2421.6	2106.3
37.5°	5225.7	4863.9	2972.1	1961.6	1760.0
40°	5132.6	4419.3	2470.7	1682.5	1736.7
42.5°	5016.3	3918.0	2028.8	1765.2	2142.5
45°	4869.0	3395.9	1716.1	2189.0	2636.1
47.5°	4683.0	2894.5	1638.5	2506.9	2646.4
50°	4458.1	2434.5	1801.3	2403.5	2393.2
52.5°	4117.0	2052.0	1966.7	2191.6	2274.3
55°	3744.8	1741.9	1943.5	2090.8	2238.1
57.5°	3274.5	1532.6	1783.2	2070.1	2240.7
60°	2806.7	1393.0	1646.3	2067.5	2227.8
62.5°	2289.8	1266.4	1576.5	2018.4	2114.0
65°	1806.5	1129.4	1514.5	1840.1	1884.0
67.5°	1385.2	989.8	1405.9	1641.1	1729.0
70°	1044.1	852.9	1235.3	1488.6	1597.2
72.5°	752.1	723.6	1059.6	1354.2	1467.9
75°	532.4	602.2	907.1	1201.8	1281.9
77.5°	367.0	491.0	777.9	1033.8	1098.4
80°	240.4	392.8	661.6	889.0	933.0
82.5°	144.7	315.3	573.7	777.9	801.2
85°	74.9	255.9	514.3	700.4	710.7
87.5°	23.3	214.5	480.7	664.2	677.1
90°	2.6	191.2	460.0	545.3	504.0
92.5°	0.0	180.9	398.0	372.2	333.4
95°	0.0	178.3	317.9	281.7	266.2
97.5°	0.0	173.2	261.0	235.2	227.4
100°	0.0	168.0	224.8	206.8	204.2
102.5°	0.0	165.4	204.2	188.7	186.1
105°	0.0	160.2	196.4	178.3	175.7
107.5°	0.0	152.5	191.2	173.2	168.0
110°	0.0	144.7	191.2	170.6	162.8



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CATALOG NUMBER: 8SNLED-LD5-170HL-SLC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	137.0	191.2	168.0	160.2
115°	0.0	131.8	188.7	168.0	160.2
117.5°	2.6	126.6	186.1	168.0	160.2
120°	0.0	121.5	180.9	168.0	157.6
122.5°	2.6	113.7	175.7	165.4	157.6
125°	2.6	106.0	168.0	162.8	155.1
127.5°	2.6	98.2	160.2	157.6	149.9
130°	2.6	90.5	152.5	155.1	147.3
132.5°	2.6	82.7	142.1	149.9	144.7
135°	2.6	74.9	134.4	147.3	142.1
137.5°	2.6	67.2	124.1	139.6	139.6
140°	2.6	59.4	113.7	134.4	137.0
142.5°	2.6	54.3	103.4	129.2	131.8
145°	2.6	46.5	93.0	118.9	126.6
147.5°	2.6	41.4	82.7	108.5	118.9
150°	2.6	36.2	72.4	98.2	108.5
152.5°	2.6	31.0	64.6	85.3	100.8
155°	5.2	28.4	56.9	74.9	90.5
157.5°	5.2	23.3	46.5	64.6	77.5
160°	5.2	20.7	41.4	54.3	69.8
162.5°	5.2	18.1	33.6	46.5	59.4
165°	5.2	15.5	28.4	36.2	49.1
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)