

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-L850-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-L850-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

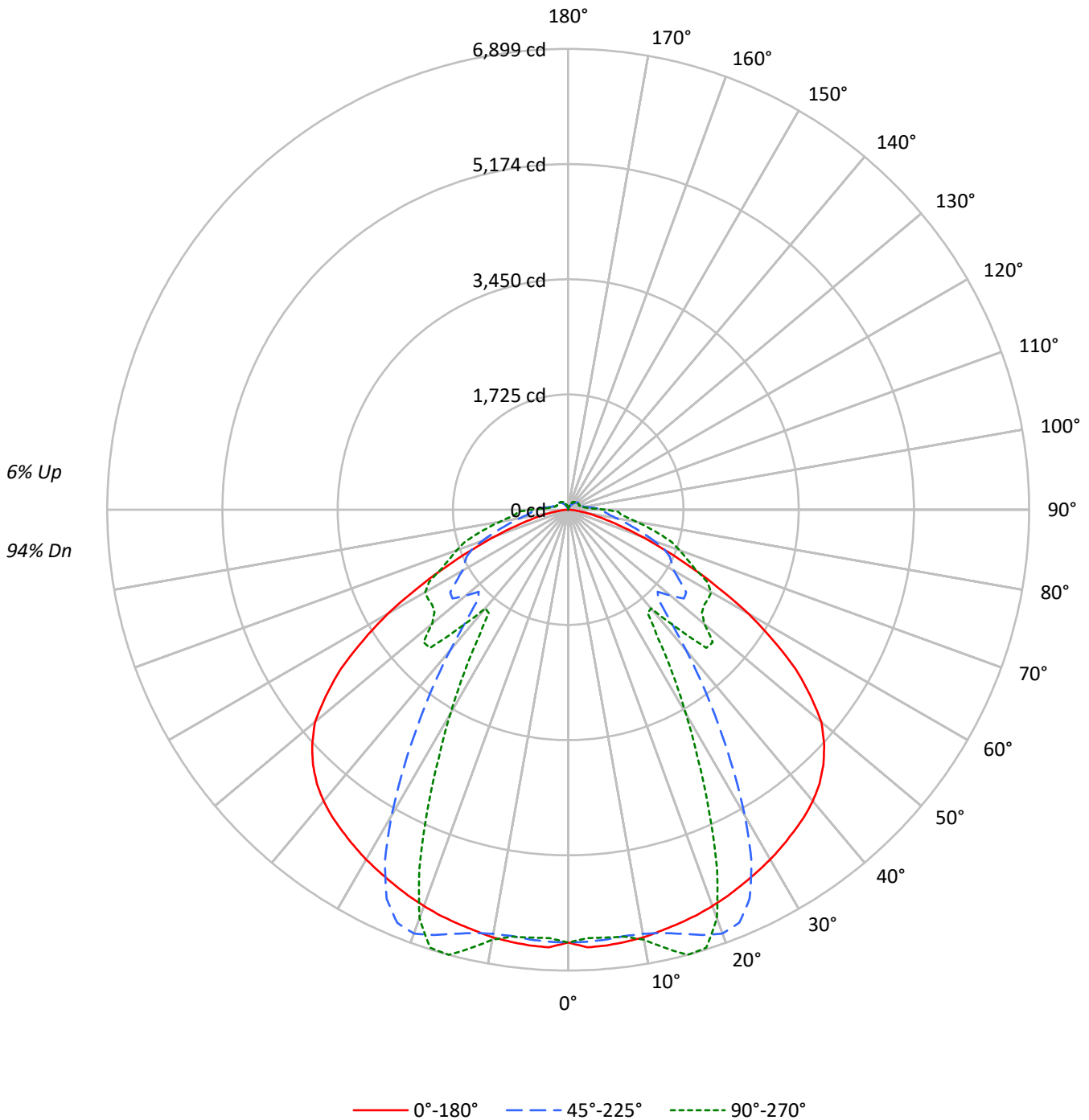
Lumens per Lamp: N/A
Luminaire Lumens: 16639.0 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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°	26172	26172	26172
5°	26527	25583	25245
10°	26596	25217	25158
15°	26708	25595	26221
20°	26996	26381	24612
25°	27374	25376	18951
30°	27962	21273	13480
35°	28709	16127	9128
40°	29648	11736	7729
45°	30393	8523	12151
50°	30523	9449	11532
55°	28629	10890	11387
60°	24501	9981	12104
65°	18541	10085	11072
70°	13122	9202	10305
75°	8713	7733	9247
80°	5701	6651	7698
85°	3273	6359	6909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.2	3.7
10°-20°	1861.0	11.2
20°-30°	2703.4	16.2
30°-40°	2583.0	15.5
40°-50°	2362.7	14.2
50°-60°	2181.6	13.1
60°-70°	1732.9	10.4
70°-80°	1069.6	6.4
80°-90°	582.4	3.5
90°-100°	294.4	1.8
100°-110°	185.0	1.1
110°-120°	156.7	0.9
120°-130°	128.0	0.8
130°-140°	91.8	0.6
140°-150°	56.6	0.3
150°-160°	26.9	0.2
160°-170°	7.0	0.0
170°-180°	0.0	0.0
0°-30°	5180.6	31.1
0°-40°	7763.6	46.7
0°-60°	12307.9	74.0
0°-90°	15692.7	94.3
90°-120°	636.0	3.8
90°-150°	912.4	5.5
90°-180°	946.0	5.7
0°-180°	16639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6477	6477	6477	6477	6477	
5°	6549	6449	6460	6426	6429	623
15°	6412	6325	6572	6816	6899	1815
25°	6185	6305	6426	5439	4995	2859
35°	5884	5789	3902	2687	2337	3690
45°	5402	3768	1904	2429	2925	4152
55°	4155	1933	2156	2320	2483	3659
65°	2004	1253	1680	2042	2090	2027
75°	591	668	1006	1333	1422	670
85°	83	284	571	777	788	106
90°	3	212	510	605	559	4
95°	0	198	353	312	295	0
105°	0	178	218	198	195	0
115°	0	146	209	186	178	1
125°	3	118	186	181	172	2
135°	3	83	149	163	158	2
145°	3	52	103	132	140	2
155°	6	32	63	83	100	2
165°	6	17	32	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°	6477.4	6477.4	6477.4	6477.4	6477.4
2.5°	6557.7	6463.1	6474.5	6454.5	6420.1
5°	6549.1	6448.7	6460.2	6425.8	6428.7
7.5°	6526.1	6422.9	6437.3	6431.5	6445.9
10°	6500.3	6391.4	6445.9	6494.6	6537.6
12.5°	6454.5	6357.0	6488.9	6632.2	6721.1
15°	6411.5	6325.4	6572.0	6815.8	6898.9
17.5°	6368.4	6314.0	6675.3	6887.4	6876.0
20°	6314.0	6308.2	6752.7	6681.0	6506.1
22.5°	6253.7	6311.1	6692.5	6167.7	5823.6
25°	6184.9	6305.4	6425.8	5439.4	4995.0
27.5°	6116.1	6279.6	5941.2	4642.3	4203.6
30°	6047.3	6210.7	5287.4	3914.0	3515.4
32.5°	5967.0	6061.6	4576.3	3268.8	2901.8
35°	5883.9	5789.2	3902.5	2686.7	2336.9
37.5°	5797.8	5396.4	3297.5	2176.3	1952.7
40°	5694.6	4903.2	2741.2	1866.7	1926.9
42.5°	5565.6	4346.9	2250.9	1958.4	2377.1
45°	5402.1	3767.7	1903.9	2428.7	2924.7
47.5°	5195.7	3211.5	1817.9	2781.4	2936.2
50°	4946.2	2701.1	1998.6	2666.7	2655.2
52.5°	4567.7	2276.7	2182.1	2431.5	2523.3
55°	4154.8	1932.6	2156.3	2319.7	2483.1
57.5°	3633.0	1700.4	1978.5	2296.8	2486.0
60°	3114.0	1545.5	1826.5	2293.9	2471.7
62.5°	2540.5	1405.0	1749.1	2239.4	2345.5
65°	2004.3	1253.0	1680.3	2041.6	2090.3
67.5°	1536.9	1098.2	1559.9	1820.8	1918.3
70°	1158.4	946.2	1370.6	1651.6	1772.0
72.5°	834.4	802.9	1175.6	1502.5	1628.7
75°	590.7	668.1	1006.4	1333.3	1422.2
77.5°	407.2	544.8	863.1	1147.0	1218.6
80°	266.7	435.8	734.0	986.4	1035.1
82.5°	160.6	349.8	636.6	863.1	888.9
85°	83.2	283.9	570.6	777.1	788.5
87.5°	25.8	238.0	533.3	736.9	751.3
90°	2.9	212.2	510.4	605.0	559.1
92.5°	0.0	200.7	441.6	412.9	369.9
95°	0.0	197.8	352.7	312.5	295.3
97.5°	0.0	192.1	289.6	260.9	252.3
100°	0.0	186.4	249.5	229.4	226.5
102.5°	0.0	183.5	226.5	209.3	206.5
105°	0.0	177.8	217.9	197.8	195.0
107.5°	0.0	169.2	212.2	192.1	186.4
110°	0.0	160.6	212.2	189.2	180.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	152.0	212.2	186.4	177.8
115°	0.0	146.2	209.3	186.4	177.8
117.5°	2.9	140.5	206.5	186.4	177.8
120°	0.0	134.8	200.7	186.4	174.9
122.5°	2.9	126.2	195.0	183.5	174.9
125°	2.9	117.6	186.4	180.6	172.0
127.5°	2.9	109.0	177.8	174.9	166.3
130°	2.9	100.4	169.2	172.0	163.4
132.5°	2.9	91.8	157.7	166.3	160.6
135°	2.9	83.2	149.1	163.4	157.7
137.5°	2.9	74.6	137.6	154.8	154.8
140°	2.9	65.9	126.2	149.1	152.0
142.5°	2.9	60.2	114.7	143.4	146.2
145°	2.9	51.6	103.2	131.9	140.5
147.5°	2.9	45.9	91.8	120.4	131.9
150°	2.9	40.1	80.3	109.0	120.4
152.5°	2.9	34.4	71.7	94.6	111.8
155°	5.7	31.5	63.1	83.2	100.4
157.5°	5.7	25.8	51.6	71.7	86.0
160°	5.7	22.9	45.9	60.2	77.4
162.5°	5.7	20.1	37.3	51.6	65.9
165°	5.7	17.2	31.5	40.1	54.5
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)