

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-SLN-UNV-L840-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-170HL-SLN-UNV-L840-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

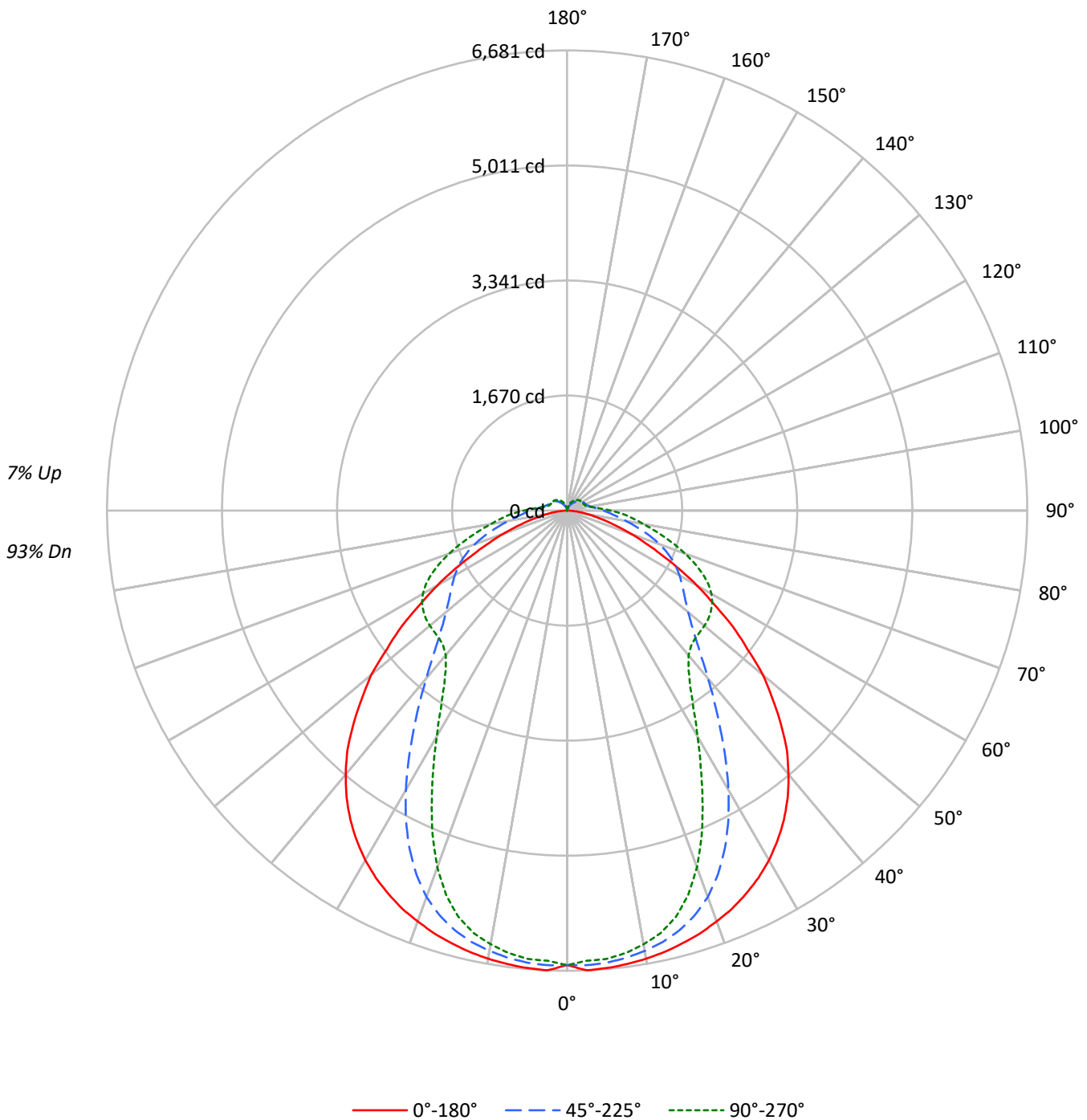
Lumens per Lamp: N/A
Luminaire Lumens: 16593.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26659	26659	26659
5°	27004	26095	25663
10°	27031	25397	24607
15°	27078	24568	23203
20°	27131	23323	20838
25°	27185	21391	17646
30°	27101	18840	14514
35°	26765	16045	12163
40°	26036	13602	10996
45°	24716	11835	10912
50°	22898	10832	11295
55°	20233	10427	11690
60°	17147	10294	11851
65°	13873	10085	11482
70°	11238	9587	10589
75°	8587	8702	9397
80°	6498	7847	8359
85°	4626	7445	7688



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.2	3.8
10°-20°	1764.4	10.6
20°-30°	2466.4	14.9
30°-40°	2558.3	15.4
40°-50°	2363.5	14.2
50°-60°	2110.1	12.7
60°-70°	1710.1	10.3
70°-80°	1137.4	6.9
80°-90°	651.3	3.9
90°-100°	360.3	2.2
100°-110°	244.0	1.5
110°-120°	203.2	1.2
120°-130°	165.2	1.0
130°-140°	119.1	0.7
140°-150°	71.8	0.4
150°-160°	34.5	0.2
160°-170°	8.9	0.1
170°-180°	0.0	0.0
0°-30°	4855.0	29.3
0°-40°	7413.3	44.7
0°-60°	11886.9	71.6
0°-90°	15385.8	92.7
90°-120°	807.5	4.9
90°-150°	1163.7	7.0
90°-180°	1207.0	7.3
0°-180°	16593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6598	6598	6598	6598	6598	
5°	6667	6555	6589	6544	6535	634
15°	6500	6363	6308	6165	6105	1837
25°	6142	5870	5417	4849	4651	2830
35°	5486	4883	3882	3260	3114	3422
45°	4393	3481	2644	2549	2627	3378
55°	2936	2219	2065	2400	2549	2611
65°	1500	1342	1680	2059	2168	1516
75°	582	728	1133	1388	1445	638
85°	118	338	668	854	877	135
90°	6	238	528	637	631	9
95°	6	201	419	447	433	4
105°	3	175	301	292	278	3
115°	3	158	267	264	255	3
125°	3	135	235	247	241	3
135°	6	100	186	218	218	4
145°	6	63	129	169	181	4
155°	6	40	80	106	129	3
165°	6	23	40	52	69	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°	6598.0	6598.0	6598.0	6598.0	6598.0
2.5°	6681.2	6572.2	6606.6	6578.0	6540.7
5°	6666.9	6555.0	6589.4	6543.6	6535.0
7.5°	6641.1	6529.2	6549.3	6494.8	6480.5
10°	6606.6	6489.1	6491.9	6414.5	6394.5
12.5°	6560.8	6431.7	6414.5	6308.4	6279.8
15°	6500.5	6362.9	6308.4	6165.1	6104.8
17.5°	6434.6	6274.0	6162.2	5941.4	5846.8
20°	6345.7	6165.1	5970.1	5634.6	5508.4
22.5°	6256.8	6033.1	5720.6	5273.3	5104.1
25°	6142.1	5869.7	5416.6	4848.9	4651.0
27.5°	6013.1	5677.6	5066.8	4413.0	4200.8
30°	5861.1	5445.3	4682.6	3985.8	3785.1
32.5°	5683.3	5184.4	4278.3	3601.5	3415.2
35°	5485.5	4883.3	3882.5	3260.3	3114.1
37.5°	5258.9	4553.5	3515.5	2985.0	2890.4
40°	5000.9	4195.1	3177.2	2772.8	2741.3
42.5°	4722.7	3845.3	2887.5	2635.2	2663.9
45°	4393.0	3481.1	2643.8	2549.2	2626.6
47.5°	4046.0	3125.5	2445.9	2500.4	2612.3
50°	3710.5	2795.8	2291.1	2468.9	2600.8
52.5°	3294.7	2500.4	2167.8	2440.2	2583.6
55°	2936.3	2219.4	2064.6	2400.1	2549.2
57.5°	2523.4	1967.1	1972.8	2348.5	2497.6
60°	2179.3	1737.7	1883.9	2276.8	2420.1
62.5°	1829.4	1531.2	1786.4	2182.1	2311.2
65°	1499.7	1342.0	1680.3	2058.8	2167.8
67.5°	1224.4	1169.9	1559.9	1909.7	2001.5
70°	992.1	1012.2	1428.0	1743.4	1820.8
72.5°	762.7	866.0	1284.6	1565.6	1631.6
75°	582.1	728.3	1132.6	1387.9	1445.2
77.5°	430.1	607.9	995.0	1227.3	1276.0
80°	304.0	501.8	866.0	1086.8	1124.0
82.5°	203.6	412.9	759.9	960.6	995.0
85°	117.6	338.4	668.1	854.5	877.4
87.5°	48.7	281.0	593.6	745.5	757.0
90°	5.7	238.0	527.6	636.6	630.8
92.5°	5.7	215.1	470.3	533.3	519.0
95°	5.7	200.7	418.7	447.3	433.0
97.5°	5.7	192.1	372.8	384.2	369.9
100°	2.9	186.4	341.2	341.2	326.9
102.5°	2.9	180.7	318.3	309.7	298.2
105°	2.9	174.9	301.1	292.5	278.1
107.5°	2.9	172.0	289.6	281.0	266.7
110°	2.9	166.3	281.0	272.4	260.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	163.4	275.3	269.5	255.2
115°	2.9	157.7	266.7	263.8	255.2
117.5°	2.9	152.0	260.9	260.9	252.3
120°	2.9	146.2	252.3	258.1	249.5
122.5°	2.9	140.5	243.7	252.3	243.7
125°	2.9	134.8	235.1	246.6	240.9
127.5°	5.7	126.2	223.7	240.9	235.1
130°	2.9	117.6	212.2	235.1	232.3
132.5°	5.7	109.0	200.7	226.5	226.5
135°	5.7	100.4	186.4	217.9	217.9
137.5°	5.7	88.9	172.0	206.5	209.3
140°	5.7	80.3	157.7	195.0	200.7
142.5°	5.7	71.7	143.4	183.5	192.1
145°	5.7	63.1	129.0	169.2	180.7
147.5°	5.7	57.3	114.7	152.0	169.2
150°	5.7	48.7	103.2	137.6	154.8
152.5°	5.7	43.0	91.8	123.3	143.4
155°	5.7	40.1	80.3	106.1	129.0
157.5°	5.7	34.4	68.8	91.8	114.7
160°	5.7	28.7	57.3	80.3	97.5
162.5°	5.7	25.8	48.7	66.0	86.0
165°	5.7	22.9	40.1	51.6	68.8
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)