

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

Summary

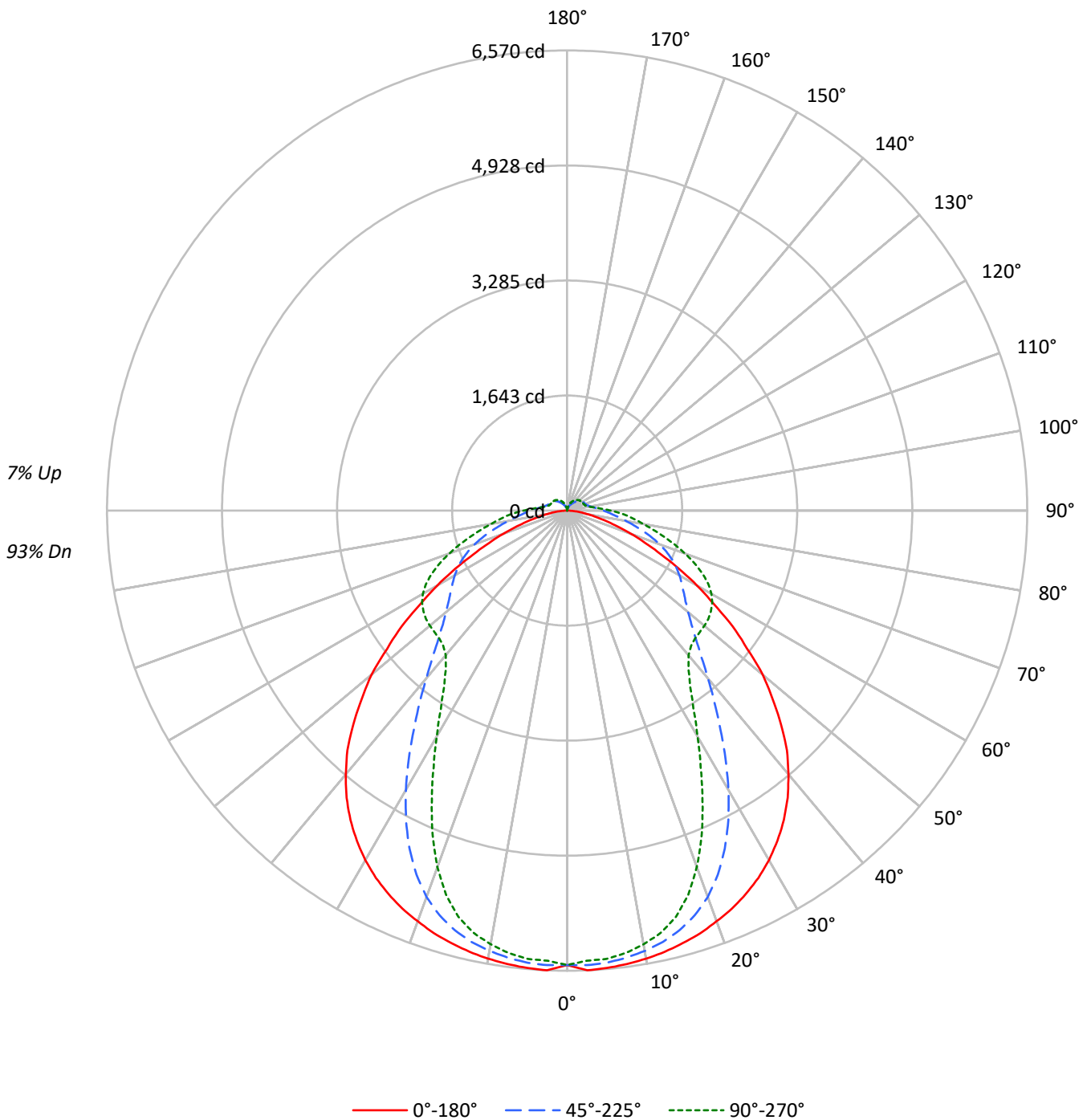
Lumens per Lamp: N/A
Luminaire Lumens: 16316.0 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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°	26214	26214	26214
5°	26553	25659	25234
10°	26580	24973	24196
15°	26627	24158	22816
20°	26678	22934	20490
25°	26731	21034	17352
30°	26649	18525	14272
35°	26318	15777	11960
40°	25601	13375	10812
45°	24303	11638	10731
50°	22516	10652	11107
55°	19895	10253	11495
60°	16861	10123	11654
65°	13641	9917	11291
70°	11051	9427	10412
75°	8444	8557	9240
80°	6389	7715	8220
85°	4547	7321	7560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.8	3.8
10°-20°	1734.9	10.6
20°-30°	2425.2	14.9
30°-40°	2515.6	15.4
40°-50°	2324.0	14.2
50°-60°	2074.9	12.7
60°-70°	1681.6	10.3
70°-80°	1118.5	6.9
80°-90°	640.5	3.9
90°-100°	354.3	2.2
100°-110°	240.0	1.5
110°-120°	199.8	1.2
120°-130°	162.4	1.0
130°-140°	117.1	0.7
140°-150°	70.6	0.4
150°-160°	33.9	0.2
160°-170°	8.8	0.1
170°-180°	0.0	0.0
0°-30°	4774.0	29.3
0°-40°	7289.6	44.7
0°-60°	11688.5	71.6
0°-90°	15129.0	92.7
90°-120°	794.1	4.9
90°-150°	1144.3	7.0
90°-180°	1187.0	7.3
0°-180°	16316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6488	6488	6488	6488	6488	
5°	6556	6446	6479	6434	6426	624
15°	6392	6257	6203	6062	6003	1806
25°	6040	5772	5326	4768	4573	2783
35°	5394	4802	3818	3206	3062	3365
45°	4320	3423	2600	2507	2583	3321
55°	2887	2182	2030	2360	2507	2567
65°	1475	1320	1652	2024	2132	1491
75°	572	716	1114	1365	1421	628
85°	116	333	657	840	863	133
90°	6	234	519	626	620	9
95°	6	197	412	440	426	4
105°	3	172	296	288	274	3
115°	3	155	262	259	251	3
125°	3	132	231	242	237	3
135°	6	99	183	214	214	4
145°	6	62	127	166	178	4
155°	6	40	79	104	127	3
165°	6	23	40	51	68	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-SLN-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6487.9	6487.9	6487.9	6487.9	6487.9
2.5°	6569.7	6462.5	6496.4	6468.2	6431.5
5°	6555.6	6445.6	6479.4	6434.3	6425.9
7.5°	6530.2	6420.2	6440.0	6386.4	6372.3
10°	6496.4	6380.7	6383.6	6307.4	6287.7
12.5°	6451.2	6324.4	6307.4	6203.1	6174.9
15°	6392.0	6256.7	6203.1	6062.1	6002.9
17.5°	6327.2	6169.3	6059.3	5842.2	5749.2
20°	6239.8	6062.1	5870.4	5540.5	5416.4
22.5°	6152.4	5932.4	5625.1	5185.2	5018.9
25°	6039.6	5771.7	5326.2	4767.9	4573.4
27.5°	5912.7	5582.8	4982.2	4339.4	4130.7
30°	5763.3	5354.4	4604.4	3919.2	3721.9
32.5°	5588.4	5097.8	4206.8	3541.4	3358.1
35°	5393.9	4801.8	3817.7	3205.9	3062.1
37.5°	5171.1	4477.5	3456.8	2935.2	2842.2
40°	4917.4	4125.1	3124.1	2726.6	2695.5
42.5°	4643.9	3781.1	2839.3	2591.2	2619.4
45°	4319.6	3423.0	2599.7	2506.6	2582.8
47.5°	3978.5	3073.4	2405.1	2458.7	2568.7
50°	3648.6	2749.1	2252.9	2427.7	2557.4
52.5°	3239.7	2458.7	2131.6	2399.5	2540.5
55°	2887.3	2182.4	2030.1	2360.0	2506.6
57.5°	2481.2	1934.2	1939.9	2309.3	2455.9
60°	2142.9	1708.7	1852.5	2238.8	2379.7
62.5°	1798.9	1505.7	1756.6	2145.7	2272.6
65°	1474.6	1319.6	1652.3	2024.5	2131.6
67.5°	1204.0	1150.4	1533.9	1877.9	1968.1
70°	975.6	995.3	1404.2	1714.3	1790.4
72.5°	750.0	851.5	1263.2	1539.5	1604.4
75°	572.4	716.2	1113.7	1364.7	1421.1
77.5°	422.9	597.8	978.4	1206.8	1254.7
80°	298.9	493.4	851.5	1068.6	1105.3
82.5°	200.2	406.0	747.2	944.6	978.4
85°	115.6	332.7	657.0	840.2	862.8
87.5°	47.9	276.3	583.7	733.1	744.4
90°	5.6	234.0	518.8	626.0	620.3
92.5°	5.6	211.5	462.4	524.4	510.3
95°	5.6	197.4	411.7	439.9	425.8
97.5°	5.6	188.9	366.5	377.8	363.7
100°	2.8	183.3	335.5	335.5	321.4
102.5°	2.8	177.6	313.0	304.5	293.2
105°	2.8	172.0	296.1	287.6	273.5
107.5°	2.8	169.2	284.8	276.3	262.2
110°	2.8	163.5	276.3	267.9	256.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	160.7	270.7	265.0	250.9
115°	2.8	155.1	262.2	259.4	250.9
117.5°	2.8	149.4	256.6	256.6	248.1
120°	2.8	143.8	248.1	253.8	245.3
122.5°	2.8	138.2	239.7	248.1	239.7
125°	2.8	132.5	231.2	242.5	236.8
127.5°	5.6	124.1	219.9	236.8	231.2
130°	2.8	115.6	208.7	231.2	228.4
132.5°	5.6	107.1	197.4	222.7	222.7
135°	5.6	98.7	183.3	214.3	214.3
137.5°	5.6	87.4	169.2	203.0	205.8
140°	5.6	78.9	155.1	191.7	197.4
142.5°	5.6	70.5	141.0	180.5	188.9
145°	5.6	62.0	126.9	166.4	177.6
147.5°	5.6	56.4	112.8	149.4	166.4
150°	5.6	47.9	101.5	135.3	152.3
152.5°	5.6	42.3	90.2	121.2	141.0
155°	5.6	39.5	78.9	104.3	126.9
157.5°	5.6	33.8	67.7	90.2	112.8
160°	5.6	28.2	56.4	78.9	95.9
162.5°	5.6	25.4	47.9	64.9	84.6
165°	5.6	22.6	39.5	50.8	67.7
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)