

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

Summary

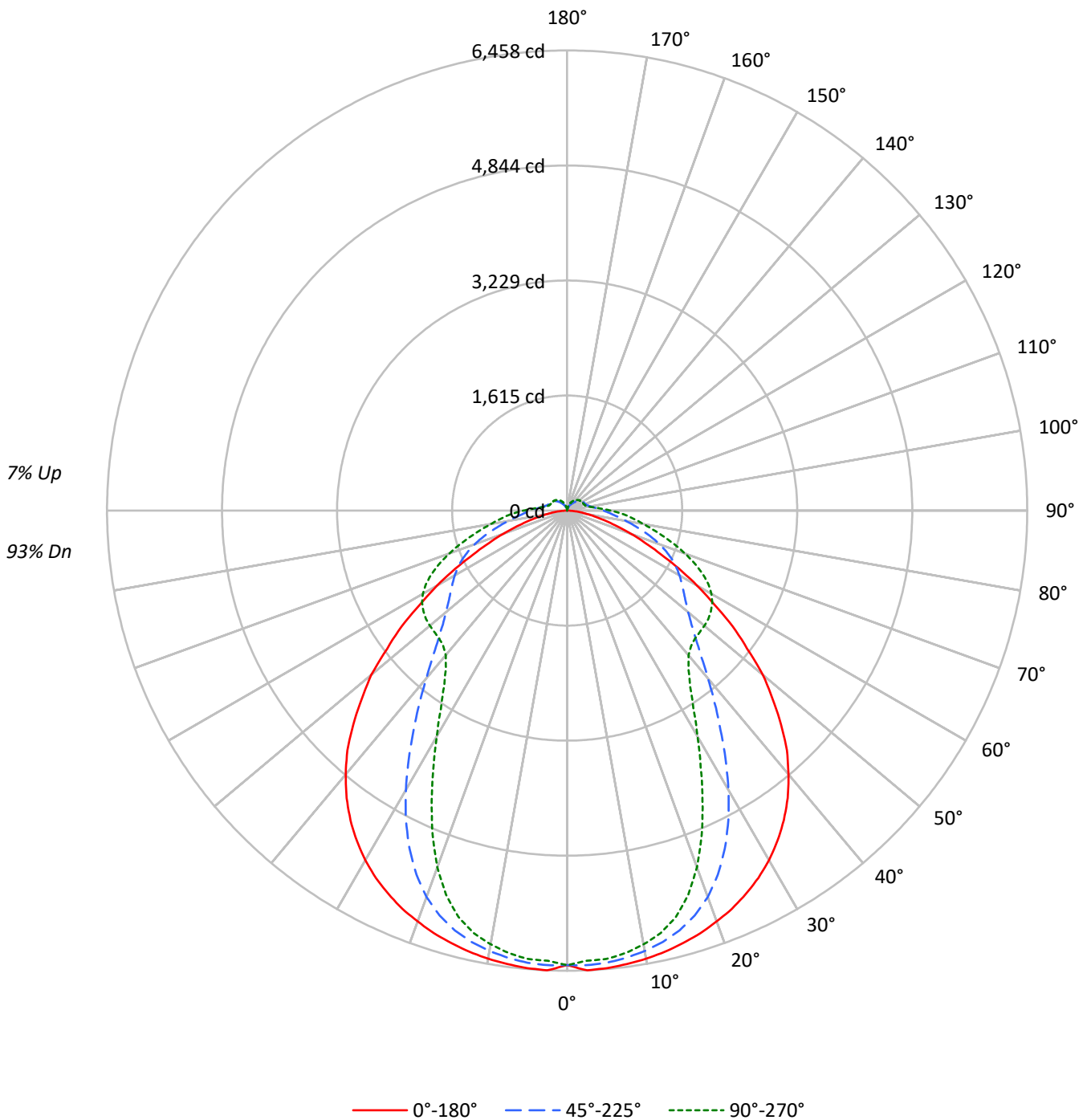
Lumens per Lamp: N/A
Luminaire Lumens: 16040.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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°	25771	25771	25771
5°	26104	25225	24807
10°	26131	24551	23786
15°	26176	23750	22430
20°	26227	22546	20144
25°	26279	20678	17058
30°	26198	18212	14030
35°	25872	15510	11758
40°	25168	13149	10629
45°	23892	11441	10549
50°	22134	10471	10919
55°	19558	10079	11301
60°	16575	9951	11457
65°	13411	9749	11100
70°	10864	9268	10237
75°	8300	8413	9084
80°	6280	7585	8081
85°	4468	7198	7433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.4	3.8
10°-20°	1705.6	10.6
20°-30°	2384.2	14.9
30°-40°	2473.1	15.4
40°-50°	2284.7	14.2
50°-60°	2039.8	12.7
60°-70°	1653.1	10.3
70°-80°	1099.5	6.9
80°-90°	629.6	3.9
90°-100°	348.3	2.2
100°-110°	235.9	1.5
110°-120°	196.4	1.2
120°-130°	159.7	1.0
130°-140°	115.2	0.7
140°-150°	69.4	0.4
150°-160°	33.4	0.2
160°-170°	8.6	0.1
170°-180°	0.0	0.0
0°-30°	4693.2	29.3
0°-40°	7166.3	44.7
0°-60°	11490.8	71.6
0°-90°	14873.1	92.7
90°-120°	780.6	4.9
90°-150°	1124.9	7.0
90°-180°	1167.0	7.3
0°-180°	16040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6378	6378	6378	6378	6378	
5°	6445	6337	6370	6326	6317	613
15°	6284	6151	6098	5960	5901	1776
25°	5937	5674	5236	4687	4496	2736
35°	5303	4720	3753	3152	3010	3308
45°	4247	3365	2556	2464	2539	3265
55°	2838	2146	1996	2320	2464	2524
65°	1450	1297	1624	1990	2096	1465
75°	563	704	1095	1342	1397	617
85°	114	327	646	826	848	131
90°	6	230	510	615	610	9
95°	6	194	405	432	419	4
105°	3	169	291	283	269	3
115°	3	152	258	255	247	3
125°	3	130	227	238	233	3
135°	6	97	180	211	211	4
145°	6	61	125	164	175	3
155°	6	39	78	103	125	3
165°	6	22	39	50	66	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-SLN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6378.1	6378.1	6378.1	6378.1	6378.1
2.5°	6458.5	6353.2	6386.5	6358.7	6322.7
5°	6444.7	6336.6	6369.8	6325.5	6317.2
7.5°	6419.7	6311.6	6331.0	6278.4	6264.5
10°	6386.5	6272.8	6275.6	6200.7	6181.3
12.5°	6342.1	6217.4	6200.7	6098.2	6070.5
15°	6283.9	6150.8	6098.2	5959.6	5901.4
17.5°	6220.1	6064.9	5956.8	5743.4	5651.9
20°	6134.2	5959.6	5771.1	5446.8	5324.8
22.5°	6048.3	5832.1	5529.9	5097.5	4934.0
25°	5937.4	5674.1	5236.1	4687.3	4496.0
27.5°	5812.7	5488.4	4898.0	4266.0	4060.8
30°	5665.8	5263.8	4526.5	3852.9	3658.9
32.5°	5493.9	5011.6	4135.7	3481.5	3301.3
35°	5302.6	4720.5	3753.2	3151.7	3010.3
37.5°	5083.7	4401.8	3398.4	2885.5	2794.1
40°	4834.2	4055.3	3071.3	2680.4	2649.9
42.5°	4565.3	3717.1	2791.3	2547.4	2575.1
45°	4246.6	3365.1	2555.7	2464.2	2539.1
47.5°	3911.2	3021.4	2364.4	2417.1	2525.2
50°	3586.8	2702.6	2214.7	2386.6	2514.1
52.5°	3184.9	2417.1	2095.6	2358.9	2497.5
55°	2838.4	2145.5	1995.8	2320.1	2464.2
57.5°	2439.3	1901.5	1907.1	2270.2	2414.3
60°	2106.6	1679.8	1821.1	2200.9	2339.5
62.5°	1768.5	1480.2	1726.9	2109.4	2234.2
65°	1449.7	1297.2	1624.3	1990.2	2095.6
67.5°	1183.6	1130.9	1507.9	1846.1	1934.8
70°	959.1	978.5	1380.4	1685.3	1760.2
72.5°	737.3	837.1	1241.8	1513.5	1577.2
75°	562.7	704.1	1094.9	1341.6	1397.0
77.5°	415.8	587.6	961.8	1186.4	1233.5
80°	293.8	485.1	837.1	1050.6	1086.6
82.5°	196.8	399.2	734.6	928.6	961.8
85°	113.6	327.1	645.9	826.0	848.2
87.5°	47.1	271.6	573.8	720.7	731.8
90°	5.5	230.1	510.0	615.4	609.8
92.5°	5.5	207.9	454.6	515.6	501.7
95°	5.5	194.0	404.7	432.4	418.6
97.5°	5.5	185.7	360.3	371.4	357.6
100°	2.8	180.2	329.9	329.9	316.0
102.5°	2.8	174.6	307.7	299.4	288.3
105°	2.8	169.1	291.0	282.7	268.9
107.5°	2.8	166.3	280.0	271.6	257.8
110°	2.8	160.8	271.6	263.3	252.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	158.0	266.1	260.6	246.7
115°	2.8	152.5	257.8	255.0	246.7
117.5°	2.8	146.9	252.2	252.2	243.9
120°	2.8	141.4	243.9	249.5	241.2
122.5°	2.8	135.8	235.6	243.9	235.6
125°	2.8	130.3	227.3	238.4	232.8
127.5°	5.5	122.0	216.2	232.8	227.3
130°	2.8	113.6	205.1	227.3	224.5
132.5°	5.5	105.3	194.0	219.0	219.0
135°	5.5	97.0	180.2	210.7	210.7
137.5°	5.5	85.9	166.3	199.6	202.3
140°	5.5	77.6	152.5	188.5	194.0
142.5°	5.5	69.3	138.6	177.4	185.7
145°	5.5	61.0	124.7	163.5	174.6
147.5°	5.5	55.4	110.9	146.9	163.5
150°	5.5	47.1	99.8	133.1	149.7
152.5°	5.5	41.6	88.7	119.2	138.6
155°	5.5	38.8	77.6	102.6	124.7
157.5°	5.5	33.3	66.5	88.7	110.9
160°	5.5	27.7	55.4	77.6	94.2
162.5°	5.5	24.9	47.1	63.8	83.2
165°	5.5	22.2	38.8	49.9	66.5
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)