

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-SLW-UNV-L940-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 (P27403)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-170HL-SLW-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

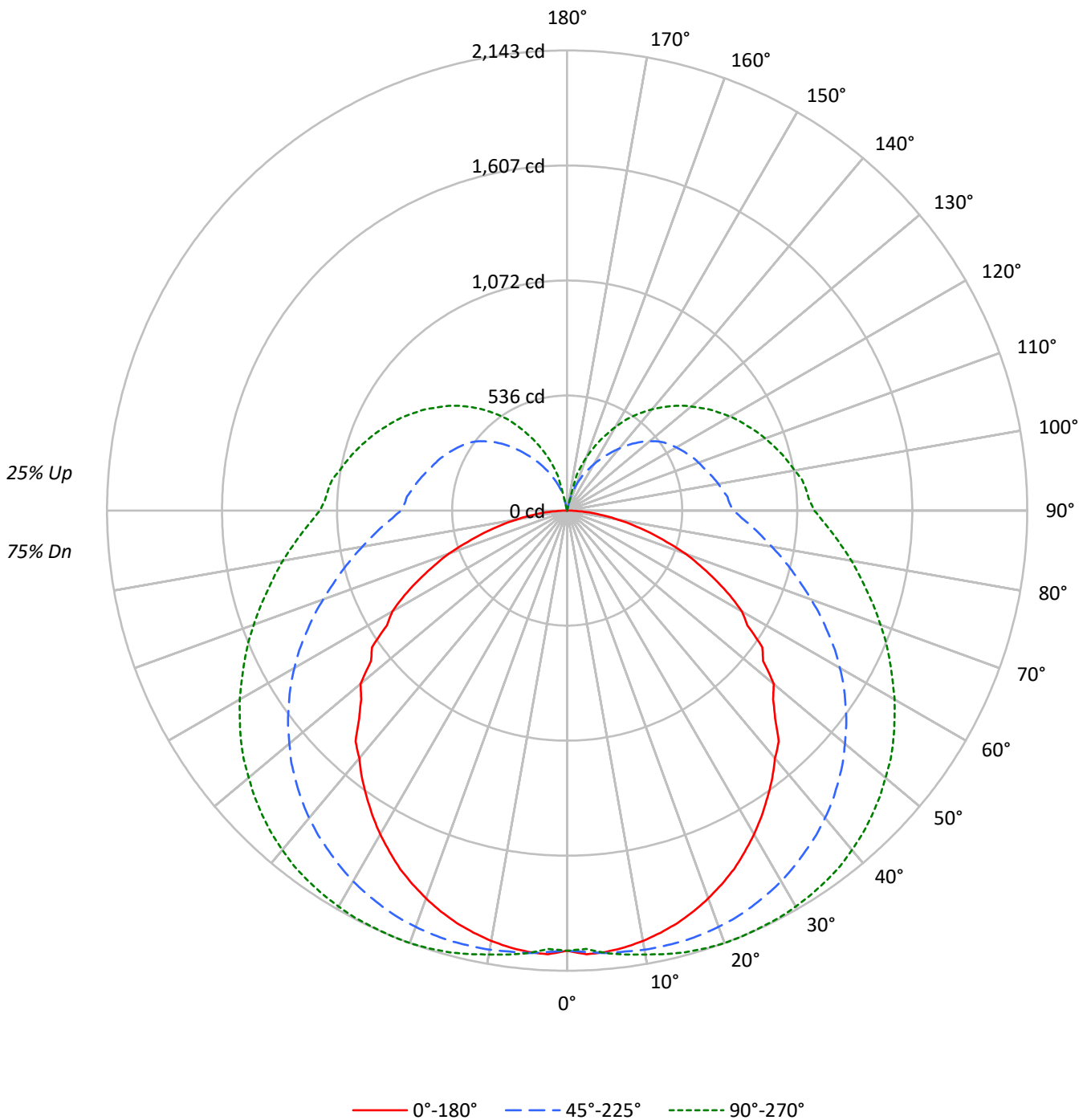
Lumens per Lamp: N/A
Luminaire Lumens: 11800.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75				
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56				
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44				
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36				
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30				
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25				
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22				
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19				
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17				
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15				
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8279	8279	8279
5°	8356	8192	8123
10°	8327	8125	8077
15°	8282	8088	8094
20°	8216	8059	8108
25°	8149	8037	8122
30°	8052	8021	8166
35°	7941	7998	8220
40°	7839	8001	8275
45°	7707	7994	8340
50°	7751	7984	8406
55°	7642	7996	8507
60°	7396	8015	8622
65°	7028	8038	8783
70°	6628	8116	9031
75°	5890	8330	9393
80°	5098	8768	10001
85°	4036	9640	10885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.0	1.7
10°-20°	583.8	4.9
20°-30°	927.8	7.9
30°-40°	1190.8	10.1
40°-50°	1344.6	11.4
50°-60°	1372.0	11.6
60°-70°	1271.1	10.8
70°-80°	1076.1	9.1
80°-90°	859.0	7.3
90°-100°	729.4	6.2
100°-110°	649.9	5.5
110°-120°	553.5	4.7
120°-130°	439.7	3.7
130°-140°	311.9	2.6
140°-150°	186.2	1.6
150°-160°	86.8	0.7
160°-170°	20.6	0.2
170°-180°	0.0	0.0
0°-30°	1708.5	14.5
0°-40°	2899.2	24.6
0°-60°	5615.9	47.6
0°-90°	8822.1	74.8
90°-120°	1932.8	16.4
90°-150°	2870.5	24.3
90°-180°	2978.0	25.2
0°-180°	11800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2049	2049	2049	2049	2049	
5°	2063	2046	2068	2068	2068	196
15°	1988	2005	2077	2116	2130	561
25°	1841	1902	2035	2107	2141	848
35°	1628	1747	1935	2055	2105	1019
45°	1370	1556	1786	1941	2008	1064
55°	1109	1295	1583	1777	1855	974
65°	760	1012	1339	1569	1658	754
75°	399	707	1084	1350	1445	425
85°	103	455	865	1145	1242	112
90°	6	372	774	1054	1151	8
95°	0	349	749	1023	1117	0
105°	0	322	682	940	1032	0
115°	0	300	621	846	929	0
125°	0	258	552	746	818	0
135°	0	191	444	629	688	1
145°	0	125	311	471	538	1
155°	3	78	191	288	358	1
165°	3	42	86	119	169	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°	2049.1	2049.1	2049.1	2049.1	2049.1
2.5°	2068.5	2046.3	2057.4	2054.7	2043.6
5°	2063.0	2046.3	2068.5	2068.5	2068.5
7.5°	2051.9	2040.8	2071.3	2082.4	2085.2
10°	2035.2	2035.2	2076.8	2093.5	2099.0
12.5°	2013.1	2021.4	2076.8	2101.8	2115.7
15°	1988.1	2004.7	2076.8	2115.7	2129.5
17.5°	1957.6	1985.3	2071.3	2118.4	2137.8
20°	1921.6	1963.1	2063.0	2118.4	2143.4
22.5°	1882.7	1935.4	2051.9	2112.9	2143.4
25°	1841.1	1902.1	2035.2	2107.3	2140.6
27.5°	1791.2	1868.9	2015.8	2099.0	2137.8
30°	1741.3	1830.1	1993.6	2087.9	2129.5
32.5°	1685.9	1788.5	1965.9	2071.3	2118.4
35°	1627.6	1746.9	1935.4	2054.7	2104.6
37.5°	1569.4	1697.0	1904.9	2032.5	2087.9
40°	1505.6	1647.0	1868.9	2004.7	2063.0
42.5°	1458.5	1594.4	1830.1	1977.0	2038.0
45°	1369.8	1555.5	1785.7	1941.0	2007.5
47.5°	1300.4	1480.7	1741.3	1904.9	1974.2
50°	1256.1	1419.7	1688.6	1863.3	1935.4
52.5°	1150.7	1378.1	1638.7	1821.7	1899.4
55°	1109.1	1294.9	1583.3	1777.4	1855.0
57.5°	995.4	1236.7	1527.8	1727.5	1807.9
60°	940.0	1156.3	1466.8	1677.5	1760.7
62.5°	854.0	1086.9	1405.8	1622.1	1708.0
65°	759.7	1012.1	1339.3	1569.4	1658.1
67.5°	671.0	937.2	1275.5	1514.0	1608.2
70°	585.1	859.6	1208.9	1458.5	1552.8
72.5°	485.2	781.9	1145.2	1405.8	1500.1
75°	399.3	707.1	1084.2	1350.4	1444.6
77.5°	316.1	635.0	1025.9	1300.4	1394.7
80°	238.5	565.7	967.7	1247.8	1344.8
82.5°	166.4	507.4	915.0	1197.9	1292.1
85°	102.6	454.7	865.1	1145.2	1242.2
87.5°	47.1	407.6	815.2	1095.3	1195.1
90°	5.5	371.6	773.6	1053.7	1150.7
92.5°	2.8	360.5	757.0	1034.3	1128.5
95°	0.0	349.4	748.7	1023.2	1117.4
97.5°	0.0	338.3	729.2	1006.5	1103.6
100°	0.0	332.7	715.4	981.6	1075.8
102.5°	0.0	324.4	698.7	959.4	1053.7
105°	0.0	321.6	682.1	940.0	1031.5
107.5°	0.0	316.1	665.5	915.0	1006.5
110°	0.0	310.6	651.6	892.8	981.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	305.0	637.7	870.7	956.6
115°	0.0	299.5	621.1	845.7	928.9
117.5°	0.0	291.1	604.5	820.8	903.9
120°	0.0	280.1	587.8	798.6	876.2
122.5°	0.0	269.0	571.2	770.8	845.7
125°	0.0	257.9	551.8	745.9	818.0
127.5°	0.0	241.2	529.6	718.2	784.7
130°	0.0	224.6	501.9	690.4	754.2
132.5°	2.8	208.0	474.2	659.9	723.7
135°	0.0	191.3	443.6	629.4	687.7
137.5°	0.0	177.5	410.4	596.2	651.6
140°	0.0	160.8	377.1	557.3	615.6
142.5°	0.0	141.4	343.8	515.7	576.7
145°	0.0	124.8	310.6	471.4	537.9
147.5°	2.8	110.9	280.1	424.2	496.3
150°	2.8	99.8	249.6	377.1	449.2
152.5°	2.8	88.7	219.1	332.7	402.1
155°	2.8	77.6	191.3	288.4	357.7
157.5°	2.8	66.5	160.8	244.0	310.6
160°	2.8	58.2	133.1	205.2	266.2
162.5°	2.8	49.9	108.1	160.8	219.1
165°	2.8	41.6	86.0	119.2	169.1
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)