

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: **4SNLED-LD5-50HL-SLN-UNV-L935-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: 4SNLED-LD5-50HL-SLN-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

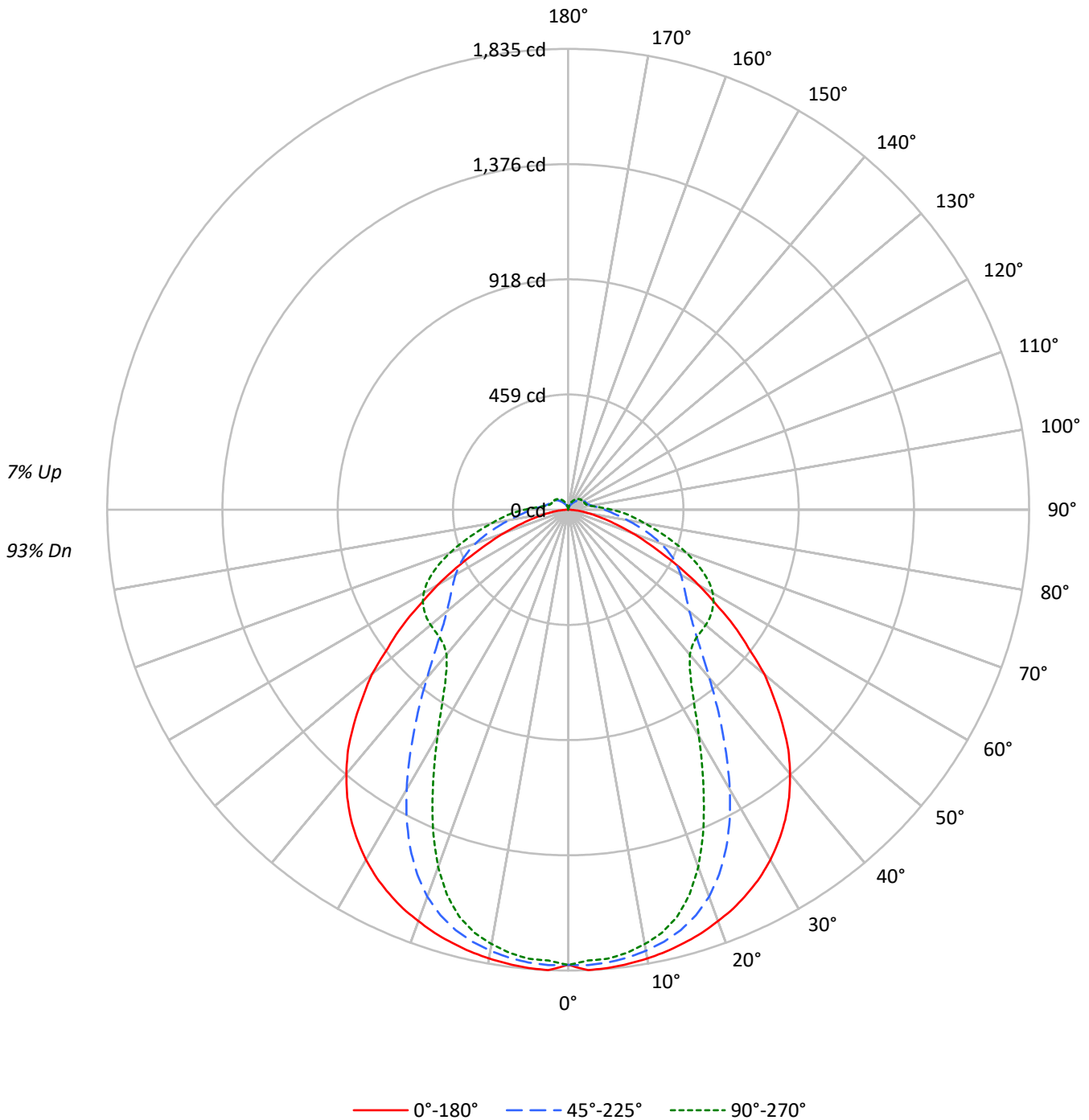
Lumens per Lamp: N/A
Luminaire Lumens: 4558.0 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 37
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°	14646	14646	14646
5°	14815	14323	14099
10°	14810	13927	13519
15°	14815	13461	12748
20°	14821	12767	11448
25°	14828	11698	9695
30°	14757	10294	7974
35°	14546	8758	6682
40°	14121	7417	6041
45°	13373	6446	5995
50°	12354	5893	6205
55°	10879	5664	6422
60°	9178	5583	6511
65°	7383	5460	6308
70°	5929	5178	5818
75°	4471	4686	5163
80°	3301	4208	4593
85°	2207	3969	4224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	3.8
10°-20°	484.7	10.6
20°-30°	677.5	14.9
30°-40°	702.8	15.4
40°-50°	649.2	14.2
50°-60°	579.6	12.7
60°-70°	469.8	10.3
70°-80°	312.4	6.9
80°-90°	178.9	3.9
90°-100°	99.0	2.2
100°-110°	67.0	1.5
110°-120°	55.8	1.2
120°-130°	45.4	1.0
130°-140°	32.7	0.7
140°-150°	19.7	0.4
150°-160°	9.5	0.2
160°-170°	2.5	0.1
170°-180°	0.0	0.0
0°-30°	1333.6	29.3
0°-40°	2036.4	44.7
0°-60°	3265.3	71.6
0°-90°	4226.4	92.7
90°-120°	221.8	4.9
90°-150°	319.7	7.0
90°-180°	332.0	7.3
0°-180°	4558.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1831	1801	1810	1798	1795	174
15°	1786	1748	1733	1694	1677	505
25°	1687	1612	1488	1332	1278	777
35°	1507	1341	1066	896	855	940
45°	1207	956	726	700	722	928
55°	807	610	567	659	700	717
65°	412	369	462	566	596	416
75°	160	200	311	381	397	175
85°	32	93	184	235	241	37
90°	2	65	145	175	173	2
95°	2	55	115	123	119	1
105°	1	48	83	80	76	1
115°	1	43	73	72	70	1
125°	1	37	65	68	66	1
135°	2	28	51	60	60	1
145°	2	17	35	46	50	1
155°	2	11	22	29	35	1
165°	2	6	11	14	19	0
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°	1812.4	1812.4	1812.4	1812.4	1812.4
2.5°	1835.3	1805.4	1814.8	1806.9	1796.7
5°	1831.3	1800.6	1810.1	1797.5	1795.1
7.5°	1824.3	1793.5	1799.1	1784.1	1780.1
10°	1814.8	1782.5	1783.3	1762.0	1756.5
12.5°	1802.2	1766.8	1762.0	1732.9	1725.0
15°	1785.7	1747.9	1732.9	1693.5	1677.0
17.5°	1767.5	1723.4	1692.7	1632.1	1606.1
20°	1743.1	1693.5	1639.9	1547.8	1513.1
22.5°	1718.7	1657.3	1571.4	1448.5	1402.1
25°	1687.2	1612.4	1487.9	1332.0	1277.6
27.5°	1651.8	1559.6	1391.8	1212.2	1153.9
30°	1610.0	1495.8	1286.3	1094.9	1039.7
32.5°	1561.2	1424.1	1175.2	989.3	938.1
35°	1506.8	1341.4	1066.5	895.6	855.4
37.5°	1444.6	1250.8	965.7	820.0	794.0
40°	1373.7	1152.4	872.7	761.7	753.0
42.5°	1297.3	1056.3	793.2	723.9	731.8
45°	1206.7	956.2	726.2	700.2	721.5
47.5°	1111.4	858.6	671.9	686.9	717.6
50°	1019.3	768.0	629.4	678.2	714.4
52.5°	905.0	686.9	595.5	670.3	709.7
55°	806.6	609.7	567.1	659.3	700.2
57.5°	693.2	540.3	541.9	645.1	686.1
60°	598.6	477.3	517.5	625.4	664.8
62.5°	502.5	420.6	490.7	599.4	634.9
65°	412.0	368.6	461.6	565.6	595.5
67.5°	336.3	321.4	428.5	524.6	549.8
70°	272.5	278.0	392.3	478.9	500.2
72.5°	209.5	237.9	352.9	430.1	448.2
75°	159.9	200.1	311.1	381.2	397.0
77.5°	118.2	167.0	273.3	337.1	350.5
80°	83.5	137.8	237.9	298.5	308.8
82.5°	55.9	113.4	208.7	263.9	273.3
85°	32.3	92.9	183.5	234.7	241.0
87.5°	13.4	77.2	163.0	204.8	207.9
90°	1.6	65.4	144.9	174.9	173.3
92.5°	1.6	59.1	129.2	146.5	142.6
95°	1.6	55.1	115.0	122.9	118.9
97.5°	1.6	52.8	102.4	105.5	101.6
100°	0.8	51.2	93.7	93.7	89.8
102.5°	0.8	49.6	87.4	85.1	81.9
105°	0.8	48.0	82.7	80.3	76.4
107.5°	0.8	47.3	79.6	77.2	73.3
110°	0.8	45.7	77.2	74.8	71.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	44.9	75.6	74.0	70.1
115°	0.8	43.3	73.3	72.5	70.1
117.5°	0.8	41.7	71.7	71.7	69.3
120°	0.8	40.2	69.3	70.9	68.5
122.5°	0.8	38.6	67.0	69.3	67.0
125°	0.8	37.0	64.6	67.7	66.2
127.5°	1.6	34.7	61.4	66.2	64.6
130°	0.8	32.3	58.3	64.6	63.8
132.5°	1.6	29.9	55.1	62.2	62.2
135°	1.6	27.6	51.2	59.9	59.9
137.5°	1.6	24.4	47.3	56.7	57.5
140°	1.6	22.1	43.3	53.6	55.1
142.5°	1.6	19.7	39.4	50.4	52.8
145°	1.6	17.3	35.4	46.5	49.6
147.5°	1.6	15.8	31.5	41.7	46.5
150°	1.6	13.4	28.4	37.8	42.5
152.5°	1.6	11.8	25.2	33.9	39.4
155°	1.6	11.0	22.1	29.1	35.4
157.5°	1.6	9.5	18.9	25.2	31.5
160°	1.6	7.9	15.8	22.1	26.8
162.5°	1.6	7.1	13.4	18.1	23.6
165°	1.6	6.3	11.0	14.2	18.9
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)