

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-LD5-52HL-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-52HL-SLC-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

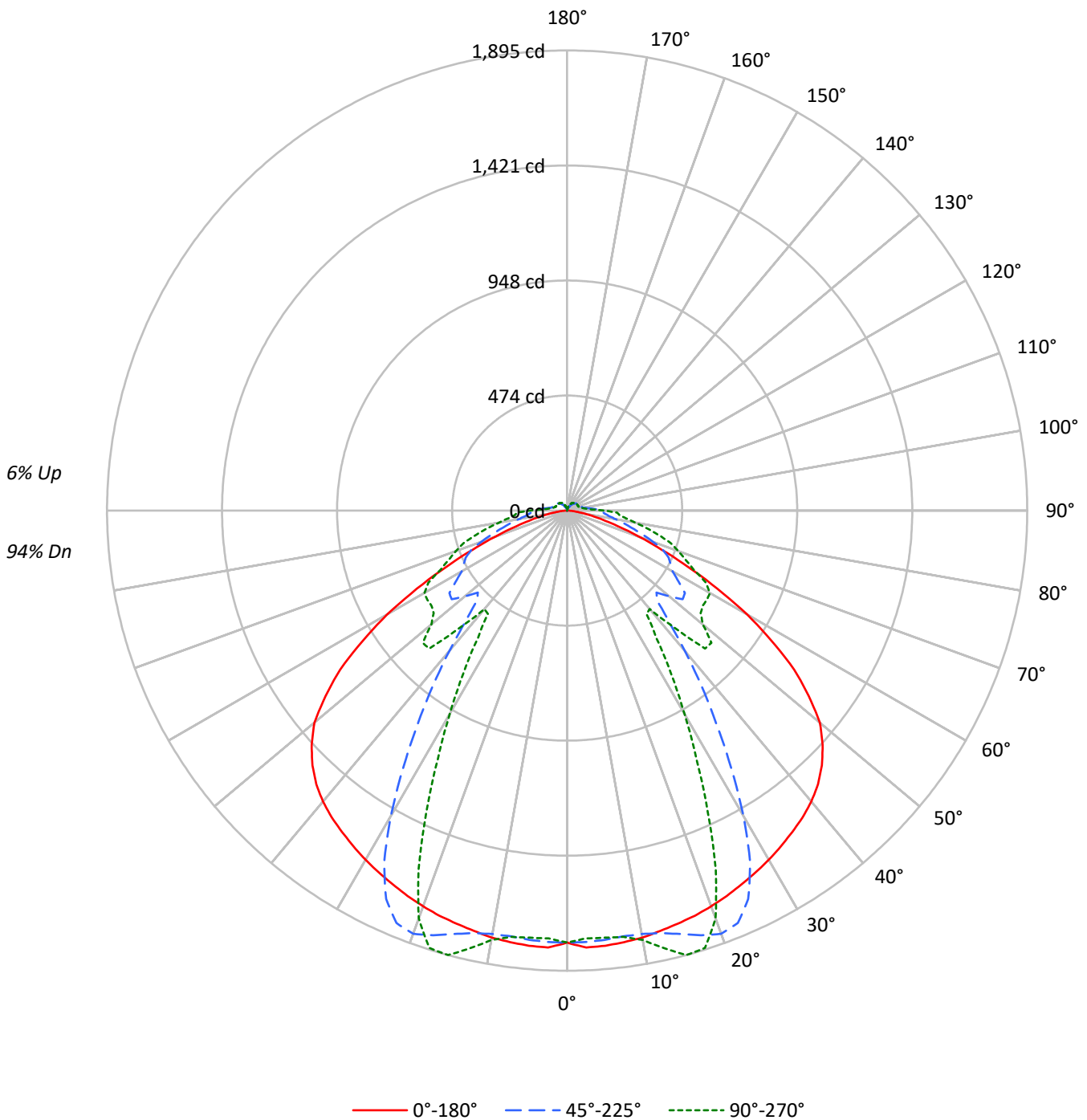
Lumens per Lamp: N/A
Luminaire Lumens: 4570.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	50	30	10	50	30	10	0		
RCR																										
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94					94			
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78					78			
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66					66			
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56					56			
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49					49			
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43					43			
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38					38			
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34					34			
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30					30			
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28					28			
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14377	14377	14377
5°	14551	14040	13868
10°	14570	13826	13819
15°	14610	14021	14403
20°	14746	14439	13520
25°	14929	13876	10410
30°	15223	11621	7405
35°	15601	8801	5014
40°	16078	6399	4245
45°	16442	4641	6675
50°	16466	5140	6335
55°	15390	5915	6255
60°	13114	5413	6649
65°	9865	5459	6082
70°	6924	4968	5661
75°	4535	4163	5080
80°	2894	3566	4229
85°	1558	3390	3796



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	3.7
10°-20°	511.1	11.2
20°-30°	742.5	16.2
30°-40°	709.4	15.5
40°-50°	648.9	14.2
50°-60°	599.2	13.1
60°-70°	475.9	10.4
70°-80°	293.8	6.4
80°-90°	160.0	3.5
90°-100°	80.9	1.8
100°-110°	50.8	1.1
110°-120°	43.0	0.9
120°-130°	35.2	0.8
130°-140°	25.2	0.6
140°-150°	15.6	0.3
150°-160°	7.4	0.2
160°-170°	1.9	0.0
170°-180°	0.0	0.0
0°-30°	1422.9	31.1
0°-40°	2132.3	46.7
0°-60°	3380.4	74.0
0°-90°	4310.1	94.3
90°-120°	174.7	3.8
90°-150°	250.6	5.5
90°-180°	260.0	5.7
0°-180°	4570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1779	1779	1779	1779	1779	
5°	1799	1771	1774	1765	1766	171
15°	1761	1737	1805	1872	1895	498
25°	1699	1732	1765	1494	1372	785
35°	1616	1590	1072	738	642	1013
45°	1484	1035	523	667	803	1140
55°	1141	531	592	637	682	1005
65°	550	344	462	561	574	557
75°	162	184	276	366	391	184
85°	23	78	157	213	217	29
90°	1	58	140	166	154	1
95°	0	54	97	86	81	0
105°	0	49	60	54	54	0
115°	0	40	58	51	49	0
125°	1	32	51	50	47	1
135°	1	23	41	45	43	1
145°	1	14	28	36	39	1
155°	2	9	17	23	28	1
165°	2	5	9	11	15	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°	1779.1	1779.1	1779.1	1779.1	1779.1
2.5°	1801.1	1775.1	1778.3	1772.8	1763.3
5°	1798.7	1771.2	1774.3	1764.9	1765.7
7.5°	1792.4	1764.1	1768.0	1766.5	1770.4
10°	1785.4	1755.4	1770.4	1783.8	1795.6
12.5°	1772.8	1746.0	1782.2	1821.6	1846.0
15°	1760.9	1737.3	1805.0	1872.0	1894.8
17.5°	1749.1	1734.2	1833.4	1891.7	1888.5
20°	1734.2	1732.6	1854.7	1835.0	1786.9
22.5°	1717.6	1733.4	1838.1	1694.0	1599.5
25°	1698.7	1731.8	1764.9	1494.0	1371.9
27.5°	1679.8	1724.7	1631.8	1275.0	1154.5
30°	1660.9	1705.8	1452.2	1075.0	965.5
32.5°	1638.9	1664.9	1256.9	897.8	797.0
35°	1616.0	1590.0	1071.8	737.9	641.8
37.5°	1592.4	1482.2	905.7	597.7	536.3
40°	1564.1	1346.7	752.9	512.7	529.2
42.5°	1528.6	1193.9	618.2	537.9	652.9
45°	1483.7	1034.8	522.9	667.0	803.3
47.5°	1427.0	882.0	499.3	763.9	806.4
50°	1358.5	741.9	548.9	732.4	729.3
52.5°	1254.6	625.3	599.3	667.8	693.0
55°	1141.1	530.8	592.2	637.1	682.0
57.5°	997.8	467.0	543.4	630.8	682.8
60°	855.3	424.5	501.7	630.0	678.9
62.5°	697.8	385.9	480.4	615.1	644.2
65°	550.5	344.2	461.5	560.7	574.1
67.5°	422.1	301.6	428.4	500.1	526.9
70°	318.2	259.9	376.4	453.6	486.7
72.5°	229.2	220.5	322.9	412.7	447.3
75°	162.2	183.5	276.4	366.2	390.6
77.5°	111.8	149.6	237.1	315.0	334.7
80°	73.2	119.7	201.6	270.9	284.3
82.5°	44.1	96.1	174.8	237.1	244.1
85°	22.8	78.0	156.7	213.4	216.6
87.5°	7.1	65.4	146.5	202.4	206.3
90°	0.8	58.3	140.2	166.2	153.6
92.5°	0.0	55.1	121.3	113.4	101.6
95°	0.0	54.3	96.9	85.8	81.1
97.5°	0.0	52.8	79.5	71.7	69.3
100°	0.0	51.2	68.5	63.0	62.2
102.5°	0.0	50.4	62.2	57.5	56.7
105°	0.0	48.8	59.9	54.3	53.6
107.5°	0.0	46.5	58.3	52.8	51.2
110°	0.0	44.1	58.3	52.0	49.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	41.7	58.3	51.2	48.8
115°	0.0	40.2	57.5	51.2	48.8
117.5°	0.8	38.6	56.7	51.2	48.8
120°	0.0	37.0	55.1	51.2	48.0
122.5°	0.8	34.7	53.6	50.4	48.0
125°	0.8	32.3	51.2	49.6	47.3
127.5°	0.8	29.9	48.8	48.0	45.7
130°	0.8	27.6	46.5	47.3	44.9
132.5°	0.8	25.2	43.3	45.7	44.1
135°	0.8	22.8	41.0	44.9	43.3
137.5°	0.8	20.5	37.8	42.5	42.5
140°	0.8	18.1	34.7	41.0	41.7
142.5°	0.8	16.5	31.5	39.4	40.2
145°	0.8	14.2	28.4	36.2	38.6
147.5°	0.8	12.6	25.2	33.1	36.2
150°	0.8	11.0	22.1	29.9	33.1
152.5°	0.8	9.5	19.7	26.0	30.7
155°	1.6	8.7	17.3	22.8	27.6
157.5°	1.6	7.1	14.2	19.7	23.6
160°	1.6	6.3	12.6	16.5	21.3
162.5°	1.6	5.5	10.2	14.2	18.1
165°	1.6	4.7	8.7	11.0	15.0
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)