

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-L930-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-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

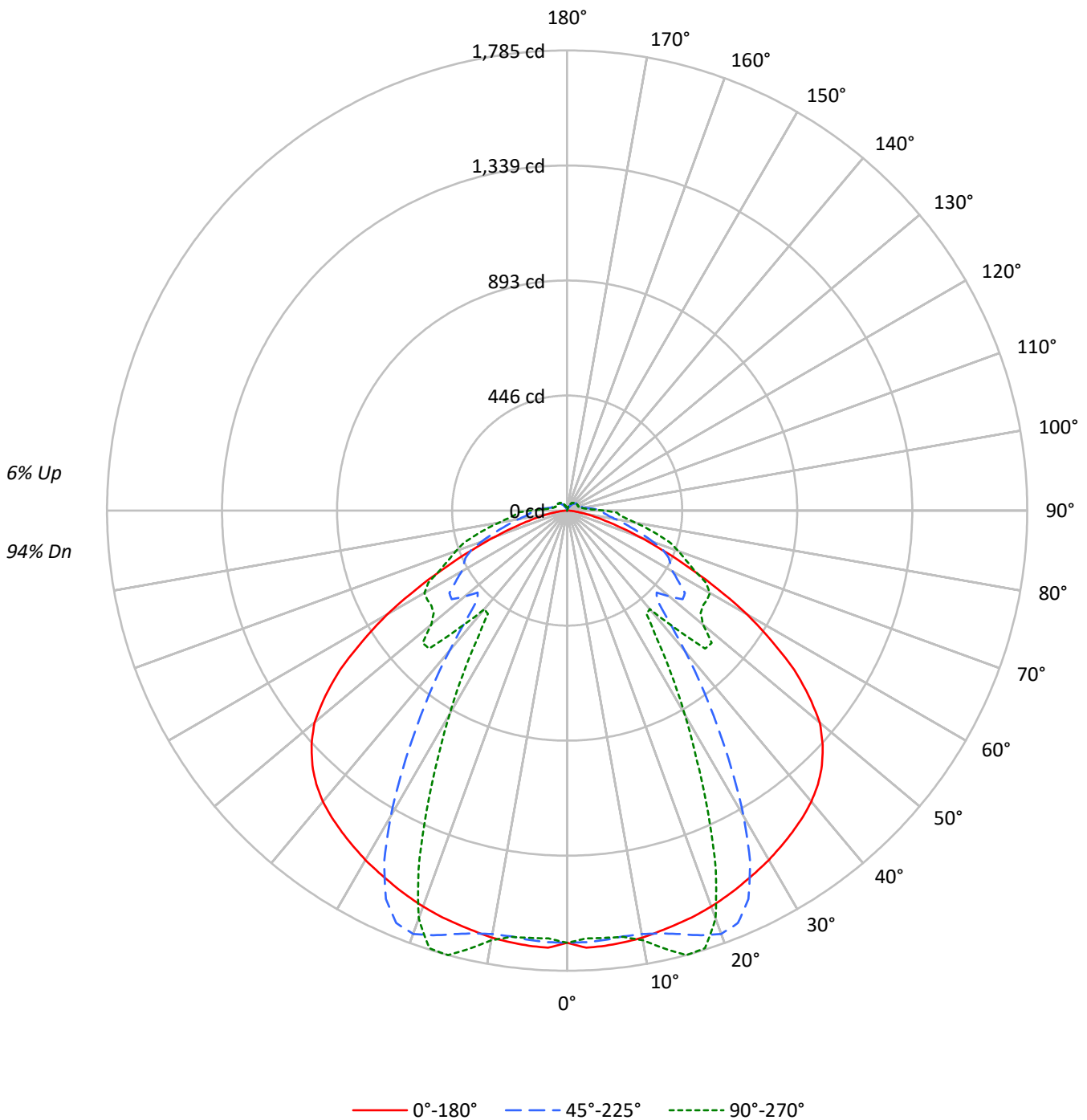
Lumens per Lamp: N/A
Luminaire Lumens: 4306.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13546	13546	13546
5°	13711	13229	13067
10°	13728	13027	13021
15°	13766	13211	13572
20°	13894	13604	12739
25°	14067	13074	9808
30°	14344	10950	6977
35°	14700	8293	4725
40°	15149	6029	4001
45°	15493	4373	6289
50°	15514	4843	5968
55°	14501	5573	5894
60°	12356	5100	6264
65°	9295	5143	5731
70°	6523	4682	5334
75°	4275	3923	4787
80°	2728	3361	3985
85°	1469	3195	3577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	3.7
10°-20°	481.6	11.2
20°-30°	699.6	16.2
30°-40°	668.4	15.5
40°-50°	611.4	14.2
50°-60°	564.6	13.1
60°-70°	448.4	10.4
70°-80°	276.8	6.4
80°-90°	150.7	3.5
90°-100°	76.2	1.8
100°-110°	47.9	1.1
110°-120°	40.5	0.9
120°-130°	33.1	0.8
130°-140°	23.8	0.6
140°-150°	14.6	0.3
150°-160°	7.0	0.2
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	1340.7	31.1
0°-40°	2009.1	46.7
0°-60°	3185.2	74.0
0°-90°	4061.1	94.3
90°-120°	164.6	3.8
90°-150°	236.1	5.5
90°-180°	245.0	5.7
0°-180°	4306.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1676	1676	1676	1676	1676	
5°	1695	1669	1672	1663	1664	161
15°	1659	1637	1701	1764	1785	470
25°	1601	1632	1663	1408	1293	740
35°	1523	1498	1010	695	605	955
45°	1398	975	493	628	757	1074
55°	1075	500	558	600	643	947
65°	519	324	435	528	541	525
75°	153	173	260	345	368	173
85°	22	74	148	201	204	27
90°	1	55	132	157	145	1
95°	0	51	91	81	76	0
105°	0	46	56	51	50	0
115°	0	38	54	48	46	0
125°	1	30	48	47	44	1
135°	1	22	39	42	41	1
145°	1	13	27	34	36	0
155°	2	8	16	22	26	1
165°	2	4	8	10	14	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°	1676.3	1676.3	1676.3	1676.3	1676.3
2.5°	1697.1	1672.6	1675.5	1670.3	1661.4
5°	1694.8	1668.9	1671.8	1662.9	1663.7
7.5°	1688.9	1662.2	1665.9	1664.4	1668.1
10°	1682.2	1654.0	1668.1	1680.7	1691.9
12.5°	1670.3	1645.1	1679.3	1716.4	1739.4
15°	1659.2	1637.0	1700.8	1763.8	1785.4
17.5°	1648.1	1634.0	1727.5	1782.4	1779.4
20°	1634.0	1632.5	1747.5	1729.0	1683.7
22.5°	1618.4	1633.2	1731.9	1596.1	1507.1
25°	1600.6	1631.8	1662.9	1407.7	1292.6
27.5°	1582.8	1625.1	1537.5	1201.4	1087.8
30°	1565.0	1607.3	1368.3	1012.9	909.7
32.5°	1544.2	1568.7	1184.3	845.9	751.0
35°	1522.7	1498.2	1009.9	695.3	604.8
37.5°	1500.4	1396.5	853.4	563.2	505.3
40°	1473.7	1268.9	709.4	483.1	498.7
42.5°	1440.3	1124.9	582.5	506.8	615.2
45°	1398.0	975.1	492.7	628.5	756.9
47.5°	1344.6	831.1	470.5	719.8	759.9
50°	1280.0	699.0	517.2	690.1	687.1
52.5°	1182.1	589.2	564.7	629.3	653.0
55°	1075.2	500.1	558.0	600.3	642.6
57.5°	940.2	440.0	512.0	594.4	643.4
60°	805.9	400.0	472.7	593.6	639.6
62.5°	657.5	363.6	452.6	579.5	607.0
65°	518.7	324.3	434.8	528.3	541.0
67.5°	397.7	284.2	403.7	471.2	496.4
70°	299.8	244.9	354.7	427.4	458.6
72.5°	215.9	207.8	304.2	388.8	421.5
75°	152.9	172.9	260.5	345.1	368.1
77.5°	105.4	141.0	223.4	296.8	315.4
80°	69.0	112.8	190.0	255.3	267.9
82.5°	41.6	90.5	164.7	223.4	230.0
85°	21.5	73.5	147.7	201.1	204.1
87.5°	6.7	61.6	138.0	190.7	194.4
90°	0.7	54.9	132.1	156.6	144.7
92.5°	0.0	51.9	114.3	106.9	95.7
95°	0.0	51.2	91.3	80.9	76.4
97.5°	0.0	49.7	74.9	67.5	65.3
100°	0.0	48.2	64.6	59.4	58.6
102.5°	0.0	47.5	58.6	54.2	53.4
105°	0.0	46.0	56.4	51.2	50.5
107.5°	0.0	43.8	54.9	49.7	48.2
110°	0.0	41.6	54.9	49.0	46.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	39.3	54.9	48.2	46.0
115°	0.0	37.8	54.2	48.2	46.0
117.5°	0.7	36.4	53.4	48.2	46.0
120°	0.0	34.9	51.9	48.2	45.3
122.5°	0.7	32.7	50.5	47.5	45.3
125°	0.7	30.4	48.2	46.7	44.5
127.5°	0.7	28.2	46.0	45.3	43.0
130°	0.7	26.0	43.8	44.5	42.3
132.5°	0.7	23.7	40.8	43.0	41.6
135°	0.7	21.5	38.6	42.3	40.8
137.5°	0.7	19.3	35.6	40.1	40.1
140°	0.7	17.1	32.7	38.6	39.3
142.5°	0.7	15.6	29.7	37.1	37.8
145°	0.7	13.4	26.7	34.1	36.4
147.5°	0.7	11.9	23.7	31.2	34.1
150°	0.7	10.4	20.8	28.2	31.2
152.5°	0.7	8.9	18.6	24.5	28.9
155°	1.5	8.2	16.3	21.5	26.0
157.5°	1.5	6.7	13.4	18.6	22.3
160°	1.5	5.9	11.9	15.6	20.0
162.5°	1.5	5.2	9.6	13.4	17.1
165°	1.5	4.5	8.2	10.4	14.1
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)