

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-LD5-52SL-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-52SL-SLC-UNV-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

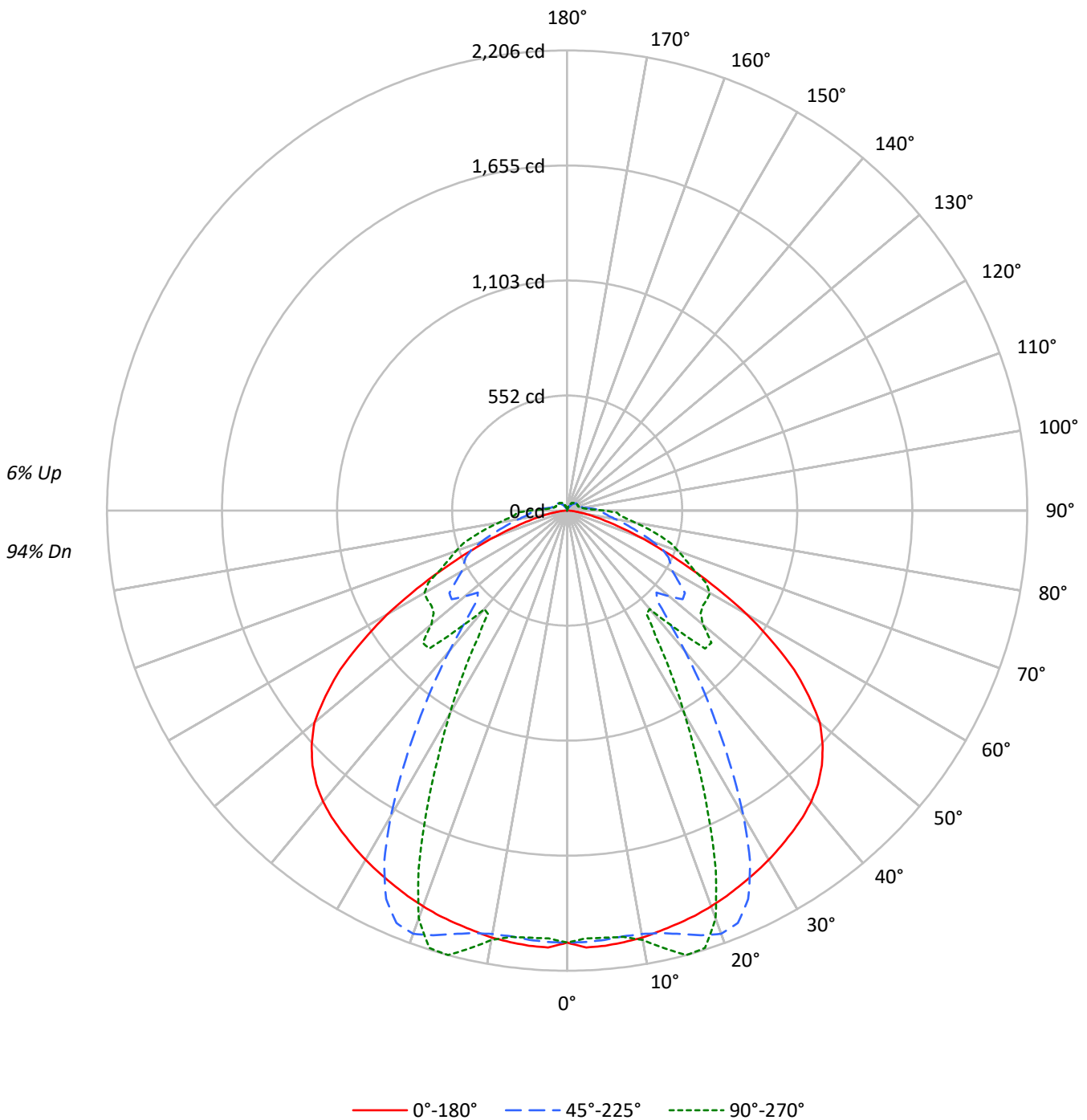
Lumens per Lamp: N/A
Luminaire Lumens: 5319.9 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 41
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	64	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°	16736	16736	16736
5°	16939	16344	16143
10°	16961	16095	16088
15°	17007	16322	16767
20°	17166	16808	15739
25°	17379	16153	12118
30°	17722	13529	8620
35°	18161	10246	5837
40°	18716	7448	4942
45°	19141	5403	7770
50°	19168	5983	7374
55°	17916	6885	7282
60°	15265	6301	7740
65°	11483	6354	7080
70°	8060	5784	6590
75°	5282	4847	5913
80°	3372	4152	4923
85°	1817	3945	4418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.0	3.7
10°-20°	595.0	11.2
20°-30°	864.4	16.2
30°-40°	825.8	15.5
40°-50°	755.4	14.2
50°-60°	697.5	13.1
60°-70°	554.0	10.4
70°-80°	342.0	6.4
80°-90°	186.2	3.5
90°-100°	94.1	1.8
100°-110°	59.1	1.1
110°-120°	50.1	0.9
120°-130°	40.9	0.8
130°-140°	29.4	0.6
140°-150°	18.1	0.3
150°-160°	8.6	0.2
160°-170°	2.2	0.0
170°-180°	0.0	0.0
0°-30°	1656.4	31.1
0°-40°	2482.3	46.7
0°-60°	3935.2	74.0
0°-90°	5017.4	94.3
90°-120°	203.3	3.8
90°-150°	291.7	5.5
90°-180°	303.0	5.7
0°-180°	5319.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2071	2071	2071	2071	2071	
5°	2094	2062	2066	2054	2055	199
15°	2050	2022	2101	2179	2206	580
25°	1978	2016	2054	1739	1597	914
35°	1881	1851	1248	859	747	1180
45°	1727	1205	609	776	935	1327
55°	1328	618	689	742	794	1170
65°	641	401	537	653	668	648
75°	189	214	322	426	455	214
85°	27	91	182	248	252	34
90°	1	68	163	193	179	1
95°	0	63	113	100	94	0
105°	0	57	70	63	62	0
115°	0	47	67	60	57	0
125°	1	38	60	58	55	1
135°	1	27	48	52	50	1
145°	1	16	33	42	45	1
155°	2	10	20	27	32	1
165°	2	6	10	13	17	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°	2071.0	2071.0	2071.0	2071.0	2071.0
2.5°	2096.7	2066.4	2070.1	2063.7	2052.7
5°	2093.9	2061.9	2065.5	2054.5	2055.4
7.5°	2086.6	2053.6	2058.2	2056.4	2060.9
10°	2078.4	2043.5	2060.9	2076.5	2090.3
12.5°	2063.7	2032.5	2074.7	2120.5	2149.0
15°	2049.9	2022.4	2101.3	2179.2	2205.8
17.5°	2036.2	2018.8	2134.3	2202.1	2198.5
20°	2018.8	2016.9	2159.0	2136.1	2080.2
22.5°	1999.5	2017.9	2139.8	1972.0	1862.0
25°	1977.5	2016.0	2054.5	1739.1	1597.0
27.5°	1955.5	2007.8	1899.6	1484.3	1344.0
30°	1933.5	1985.8	1690.6	1251.4	1124.0
32.5°	1907.8	1938.1	1463.2	1045.1	927.8
35°	1881.2	1851.0	1247.7	859.0	747.2
37.5°	1853.7	1725.4	1054.3	695.8	624.3
40°	1820.7	1567.7	876.4	596.8	616.1
42.5°	1779.5	1389.9	719.7	626.2	760.0
45°	1727.2	1204.7	608.7	776.5	935.1
47.5°	1661.2	1026.8	581.2	889.3	938.8
50°	1581.5	863.6	639.0	852.6	848.9
52.5°	1460.4	727.9	697.7	777.4	806.8
55°	1328.4	617.9	689.4	741.7	793.9
57.5°	1161.6	543.7	632.6	734.3	794.9
60°	995.6	494.1	584.0	733.4	790.3
62.5°	812.3	449.2	559.2	716.0	749.9
65°	640.8	400.6	537.2	652.8	668.3
67.5°	491.4	351.1	498.7	582.2	613.3
70°	370.4	302.5	438.2	528.1	566.6
72.5°	266.8	256.7	375.9	480.4	520.7
75°	188.9	213.6	321.8	426.3	454.7
77.5°	130.2	174.2	276.0	366.7	389.6
80°	85.3	139.4	234.7	315.4	331.0
82.5°	51.3	111.8	203.5	276.0	284.2
85°	26.6	90.8	182.4	248.4	252.1
87.5°	8.3	76.1	170.5	235.6	240.2
90°	0.9	67.8	163.2	193.4	178.8
92.5°	0.0	64.2	141.2	132.0	118.3
95°	0.0	63.3	112.8	99.9	94.4
97.5°	0.0	61.4	92.6	83.4	80.7
100°	0.0	59.6	79.8	73.3	72.4
102.5°	0.0	58.7	72.4	66.9	66.0
105°	0.0	56.8	69.7	63.3	62.3
107.5°	0.0	54.1	67.8	61.4	59.6
110°	0.0	51.3	67.8	60.5	57.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	48.6	67.8	59.6	56.8
115°	0.0	46.8	66.9	59.6	56.8
117.5°	0.9	44.9	66.0	59.6	56.8
120°	0.0	43.1	64.2	59.6	55.9
122.5°	0.9	40.3	62.3	58.7	55.9
125°	0.9	37.6	59.6	57.8	55.0
127.5°	0.9	34.8	56.8	55.9	53.2
130°	0.9	32.1	54.1	55.0	52.3
132.5°	0.9	29.3	50.4	53.2	51.3
135°	0.9	26.6	47.7	52.3	50.4
137.5°	0.9	23.8	44.0	49.5	49.5
140°	0.9	21.1	40.3	47.7	48.6
142.5°	0.9	19.3	36.7	45.8	46.8
145°	0.9	16.5	33.0	42.2	44.9
147.5°	0.9	14.7	29.3	38.5	42.2
150°	0.9	12.8	25.7	34.8	38.5
152.5°	0.9	11.0	22.9	30.3	35.8
155°	1.8	10.1	20.2	26.6	32.1
157.5°	1.8	8.3	16.5	22.9	27.5
160°	1.8	7.3	14.7	19.3	24.8
162.5°	1.8	6.4	11.9	16.5	21.1
165°	1.8	5.5	10.1	12.8	17.4
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)