

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-L840-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-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

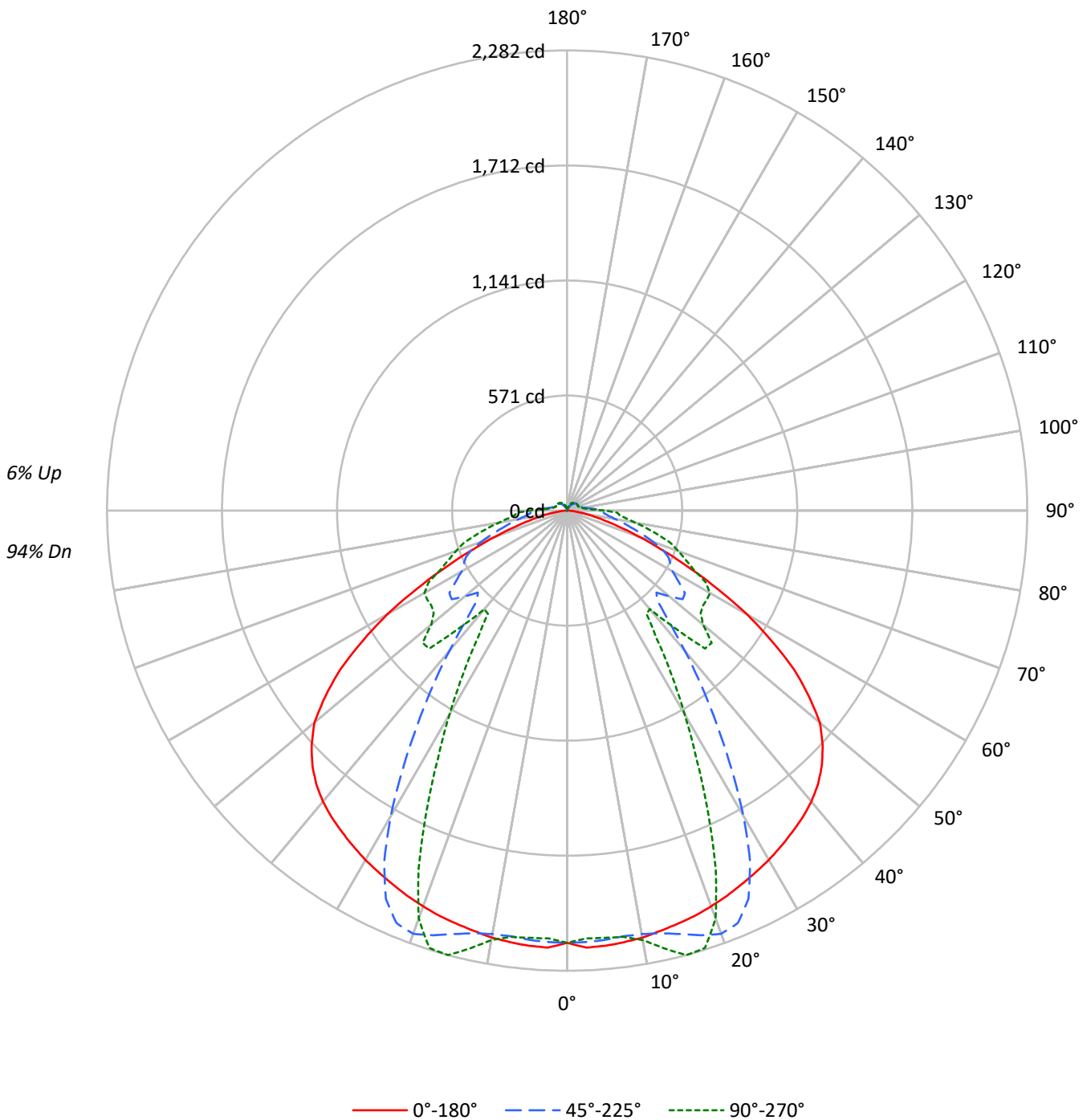
Lumens per Lamp: N/A
Luminaire Lumens: 5504.0 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	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°	17315	17315	17315
5°	17526	16910	16701
10°	17547	16652	16644
15°	17595	16887	17347
20°	17759	17389	16283
25°	17980	16712	12538
30°	18335	13997	8918
35°	18789	10601	6039
40°	19363	7707	5113
45°	19803	5590	8039
50°	19831	6190	7629
55°	18536	7124	7534
60°	15794	6519	8008
65°	11881	6574	7325
70°	8338	5985	6818
75°	5464	5014	6119
80°	3487	4295	5093
85°	1879	4084	4571



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	3.7
10°-20°	615.6	11.2
20°-30°	894.3	16.2
30°-40°	854.4	15.5
40°-50°	781.6	14.2
50°-60°	721.6	13.1
60°-70°	573.2	10.4
70°-80°	353.8	6.4
80°-90°	192.7	3.5
90°-100°	97.4	1.8
100°-110°	61.2	1.1
110°-120°	51.8	0.9
120°-130°	42.3	0.8
130°-140°	30.4	0.6
140°-150°	18.7	0.3
150°-160°	8.9	0.2
160°-170°	2.3	0.0
170°-180°	0.0	0.0
0°-30°	1713.7	31.1
0°-40°	2568.1	46.7
0°-60°	4071.3	74.0
0°-90°	5191.0	94.3
90°-120°	210.4	3.8
90°-150°	301.8	5.5
90°-180°	313.0	5.7
0°-180°	5504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2143	2143	2143	2143	2143	
5°	2166	2133	2137	2126	2126	206
15°	2121	2092	2174	2255	2282	600
25°	2046	2086	2126	1799	1652	946
35°	1946	1915	1291	889	773	1220
45°	1787	1246	630	803	968	1373
55°	1374	639	713	767	821	1210
65°	663	414	556	675	692	670
75°	195	221	333	441	470	222
85°	28	94	189	257	261	35
90°	1	70	169	200	185	1
95°	0	65	117	103	98	0
105°	0	59	72	65	64	0
115°	0	48	69	62	59	0
125°	1	39	62	60	57	1
135°	1	28	49	54	52	1
145°	1	17	34	44	46	1
155°	2	10	21	28	33	1
165°	2	6	10	13	18	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°	2142.7	2142.7	2142.7	2142.7	2142.7
2.5°	2169.2	2137.9	2141.7	2135.1	2123.7
5°	2166.4	2133.2	2137.0	2125.6	2126.5
7.5°	2158.8	2124.6	2129.4	2127.5	2132.2
10°	2150.2	2114.2	2132.2	2148.3	2162.6
12.5°	2135.1	2102.8	2146.4	2193.9	2223.3
15°	2120.8	2092.4	2174.0	2254.6	2282.1
17.5°	2106.6	2088.6	2208.1	2278.3	2274.5
20°	2088.6	2086.7	2233.7	2210.0	2152.1
22.5°	2068.7	2087.6	2213.8	2040.2	1926.4
25°	2045.9	2085.7	2125.6	1799.3	1652.3
27.5°	2023.1	2077.2	1965.3	1535.6	1390.5
30°	2000.4	2054.4	1749.0	1294.7	1162.9
32.5°	1973.8	2005.1	1513.8	1081.3	959.9
35°	1946.3	1915.0	1290.9	888.7	773.0
37.5°	1917.9	1785.1	1090.8	719.9	645.9
40°	1883.7	1621.9	906.8	617.5	637.4
42.5°	1841.0	1437.9	744.6	647.8	786.3
45°	1787.0	1246.3	629.8	803.4	967.5
47.5°	1718.7	1062.3	601.3	920.0	971.3
50°	1636.2	893.5	661.1	882.1	878.3
52.5°	1511.0	753.1	721.8	804.3	834.7
55°	1374.4	639.3	713.3	767.3	821.4
57.5°	1201.7	562.5	654.5	759.7	822.3
60°	1030.1	511.2	604.2	758.8	817.6
62.5°	840.4	464.8	578.6	740.8	775.9
65°	663.0	414.5	555.8	675.3	691.5
67.5°	508.4	363.3	516.0	602.3	634.5
70°	383.2	313.0	453.4	546.3	586.2
72.5°	276.0	265.6	388.9	497.0	538.7
75°	195.4	221.0	332.9	441.1	470.5
77.5°	134.7	180.2	285.5	379.4	403.1
80°	88.2	144.2	242.8	326.3	342.4
82.5°	53.1	115.7	210.6	285.5	294.0
85°	27.5	93.9	188.8	257.0	260.8
87.5°	8.5	78.7	176.4	243.8	248.5
90°	0.9	70.2	168.8	200.1	185.0
92.5°	0.0	66.4	146.1	136.6	122.4
95°	0.0	65.4	116.7	103.4	97.7
97.5°	0.0	63.5	95.8	86.3	83.5
100°	0.0	61.7	82.5	75.9	74.9
102.5°	0.0	60.7	74.9	69.2	68.3
105°	0.0	58.8	72.1	65.4	64.5
107.5°	0.0	56.0	70.2	63.5	61.7
110°	0.0	53.1	70.2	62.6	59.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	50.3	70.2	61.7	58.8
115°	0.0	48.4	69.2	61.7	58.8
117.5°	0.9	46.5	68.3	61.7	58.8
120°	0.0	44.6	66.4	61.7	57.9
122.5°	0.9	41.7	64.5	60.7	57.9
125°	0.9	38.9	61.7	59.8	56.9
127.5°	0.9	36.0	58.8	57.9	55.0
130°	0.9	33.2	56.0	56.9	54.1
132.5°	0.9	30.4	52.2	55.0	53.1
135°	0.9	27.5	49.3	54.1	52.2
137.5°	0.9	24.7	45.5	51.2	51.2
140°	0.9	21.8	41.7	49.3	50.3
142.5°	0.9	19.9	37.9	47.4	48.4
145°	0.9	17.1	34.1	43.6	46.5
147.5°	0.9	15.2	30.4	39.8	43.6
150°	0.9	13.3	26.6	36.0	39.8
152.5°	0.9	11.4	23.7	31.3	37.0
155°	1.9	10.4	20.9	27.5	33.2
157.5°	1.9	8.5	17.1	23.7	28.5
160°	1.9	7.6	15.2	19.9	25.6
162.5°	1.9	6.6	12.3	17.1	21.8
165°	1.9	5.7	10.4	13.3	18.0
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)