

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: P284604

Luminaire Tested: **8SNLED-LD5-104SL-SLW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P284604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-104SL-SLW-UNV-L850-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10583.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

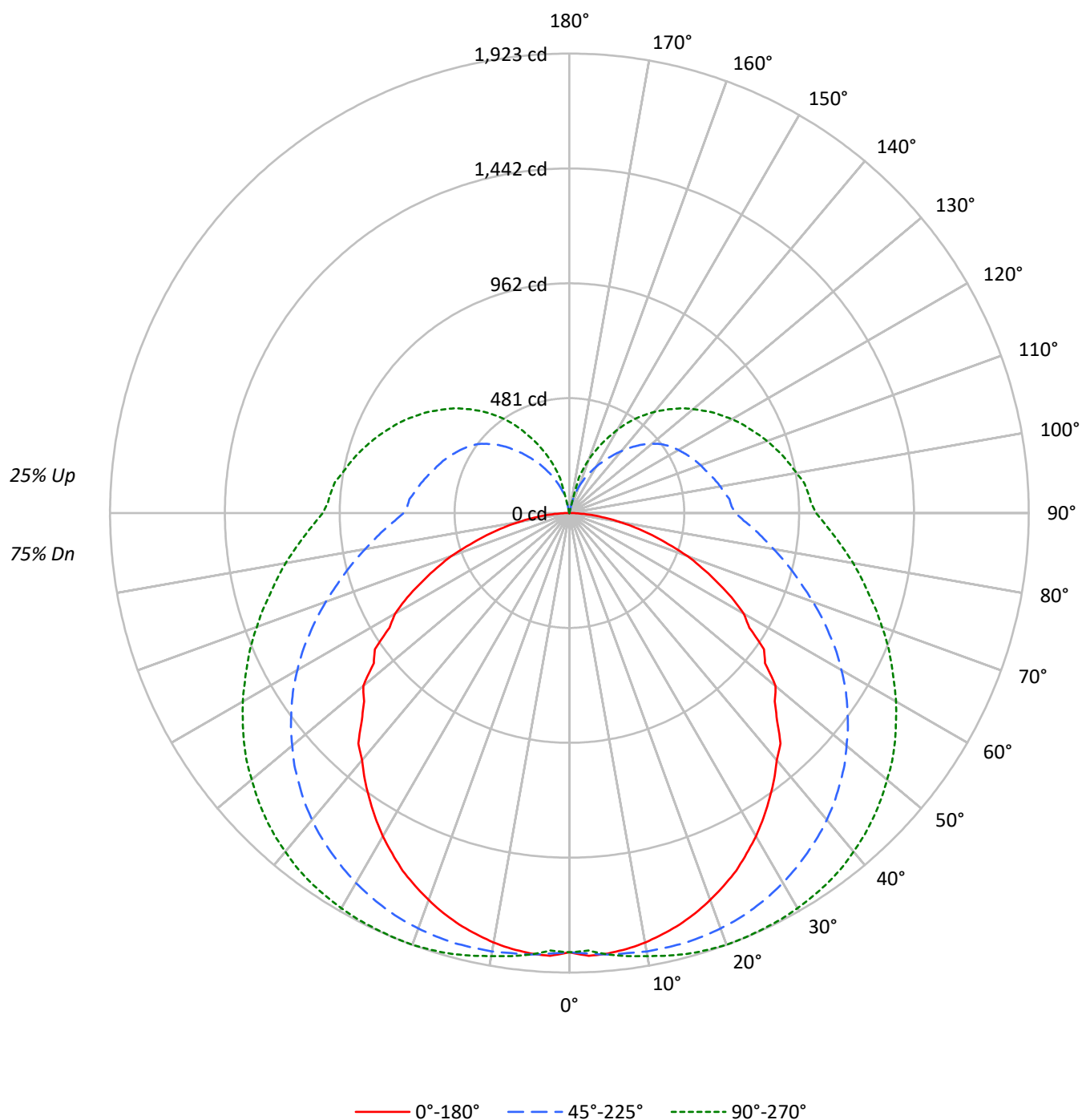
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75		
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56		
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44		
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36		
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30		
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25		
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22		
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19		
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17		
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15		
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7427	7427	7427
5°	7494	7345	7284
10°	7468	7288	7244
15°	7427	7255	7259
20°	7368	7228	7273
25°	7309	7208	7284
30°	7221	7193	7324
35°	7122	7174	7373
40°	7029	7177	7421
45°	6913	7168	7480
50°	6953	7161	7540
55°	6853	7171	7629
60°	6632	7187	7732
65°	6301	7210	7877
70°	5945	7281	8098
75°	5287	7471	8426
80°	4576	7862	8968
85°	3615	8645	9762



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	1.7
10°-20°	523.5	4.9
20°-30°	832.1	7.9
30°-40°	1067.9	10.1
40°-50°	1205.9	11.4
50°-60°	1230.5	11.6
60°-70°	1140.0	10.8
70°-80°	965.1	9.1
80°-90°	770.4	7.3
90°-100°	654.2	6.2
100°-110°	582.8	5.5
110°-120°	496.4	4.7
120°-130°	394.3	3.7
130°-140°	279.7	2.6
140°-150°	167.0	1.6
150°-160°	77.9	0.7
160°-170°	18.5	0.2
170°-180°	0.0	0.0
0°-30°	1532.2	14.5
0°-40°	2600.2	24.6
0°-60°	5036.6	47.6
0°-90°	7912.2	74.8
90°-120°	1733.5	16.4
90°-150°	2574.5	24.3
90°-180°	2671.0	25.2
0°-180°	10583.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1850	1835	1855	1855	1855	176
15°	1783	1798	1863	1897	1910	503
25°	1652	1706	1825	1890	1920	760
35°	1460	1567	1736	1843	1888	914
45°	1229	1395	1601	1741	1800	954
55°	994	1162	1420	1594	1664	873
65°	681	908	1201	1407	1487	676
75°	358	634	972	1211	1296	381
85°	92	408	776	1027	1114	100
90°	5	334	694	945	1032	7
95°	0	313	672	917	1002	0
105°	0	289	612	843	925	0
115°	0	268	557	758	833	0
125°	0	232	495	669	734	0
135°	0	172	398	564	617	1
145°	0	112	278	423	482	1
155°	3	70	172	258	321	1
165°	3	38	77	107	152	1
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°	1838.1	1838.1	1838.1	1838.1	1838.1
2.5°	1854.8	1835.4	1845.4	1842.8	1832.7
5°	1850.1	1835.4	1854.8	1854.8	1854.8
7.5°	1840.1	1830.0	1857.5	1867.6	1870.3
10°	1825.3	1825.3	1862.9	1877.7	1882.4
12.5°	1805.2	1812.6	1862.9	1885.0	1897.1
15°	1783.0	1797.8	1862.9	1897.1	1909.9
17.5°	1755.5	1780.4	1857.5	1899.8	1917.3
20°	1723.3	1760.9	1850.1	1899.8	1922.6
22.5°	1688.4	1736.1	1840.1	1895.1	1922.6
25°	1651.5	1705.9	1825.3	1889.7	1919.9
27.5°	1606.5	1676.3	1807.9	1882.4	1917.3
30°	1561.6	1641.4	1787.7	1872.3	1909.9
32.5°	1511.9	1603.9	1762.9	1857.5	1899.8
35°	1459.6	1567.0	1736.1	1842.8	1887.7
37.5°	1407.2	1522.0	1708.6	1822.6	1872.3
40°	1350.2	1477.0	1676.3	1797.8	1850.1
42.5°	1307.9	1430.1	1641.4	1773.0	1828.0
45°	1228.7	1395.2	1601.2	1740.8	1800.5
47.5°	1166.3	1328.1	1561.6	1708.6	1770.3
50°	1126.7	1273.0	1514.6	1671.0	1736.1
52.5°	1032.1	1236.1	1469.6	1634.1	1703.2
55°	994.5	1161.6	1420.0	1593.8	1663.6
57.5°	892.5	1109.3	1370.3	1549.5	1621.3
60°	842.9	1036.8	1315.3	1504.5	1579.0
62.5°	765.7	975.1	1260.9	1454.9	1532.1
65°	681.1	908.0	1201.2	1407.2	1487.1
67.5°	602.0	840.9	1144.2	1357.6	1442.1
70°	524.8	771.1	1084.5	1307.9	1392.5
72.5°	434.9	701.3	1026.7	1260.9	1345.5
75°	358.4	634.2	972.4	1211.3	1295.8
77.5°	283.2	569.7	920.0	1166.3	1250.9
80°	214.1	507.3	867.7	1119.3	1205.9
82.5°	149.0	455.0	820.7	1074.4	1158.9
85°	91.9	408.0	775.8	1026.7	1114.0
87.5°	42.3	365.7	730.8	982.5	1071.7
90°	4.7	333.5	693.9	944.9	1032.1
92.5°	2.7	323.5	679.1	927.4	1012.0
95°	0.0	313.4	671.7	917.4	1001.9
97.5°	0.0	303.3	654.3	902.6	989.8
100°	0.0	298.6	641.5	880.4	965.0
102.5°	0.0	291.2	626.8	860.3	944.9
105°	0.0	288.6	612.0	842.9	925.4
107.5°	0.0	283.2	596.6	820.7	902.6
110°	0.0	278.5	584.5	800.6	880.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	273.8	571.8	781.1	857.6
115°	0.0	268.4	557.0	758.3	832.8
117.5°	0.0	261.0	542.2	736.2	810.7
120°	0.0	251.0	527.5	716.0	785.8
122.5°	0.0	240.9	512.0	691.2	758.3
125°	0.0	231.5	494.6	669.1	733.5
127.5°	0.0	216.1	475.1	644.2	704.0
130°	0.0	201.3	450.3	619.4	676.4
132.5°	2.7	186.6	425.5	591.9	648.9
135°	0.0	171.8	397.9	564.4	616.7
137.5°	0.0	159.0	367.7	534.8	584.5
140°	0.0	144.3	338.2	499.9	552.3
142.5°	0.0	126.8	308.7	462.4	517.4
145°	0.0	112.1	278.5	422.8	482.5
147.5°	2.7	99.3	251.0	380.5	444.9
150°	2.7	89.3	224.1	338.2	402.6
152.5°	2.7	79.9	196.6	298.6	360.4
155°	2.7	69.8	171.8	258.4	320.8
157.5°	2.7	59.7	144.3	218.8	278.5
160°	2.7	52.3	119.5	183.9	238.9
162.5°	2.7	45.0	97.3	144.3	196.6
165°	2.7	37.6	77.2	106.7	151.7
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)