

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: **8SNLED-LD5-60SL-SLN-UNV-L940-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-60SL-SLN-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

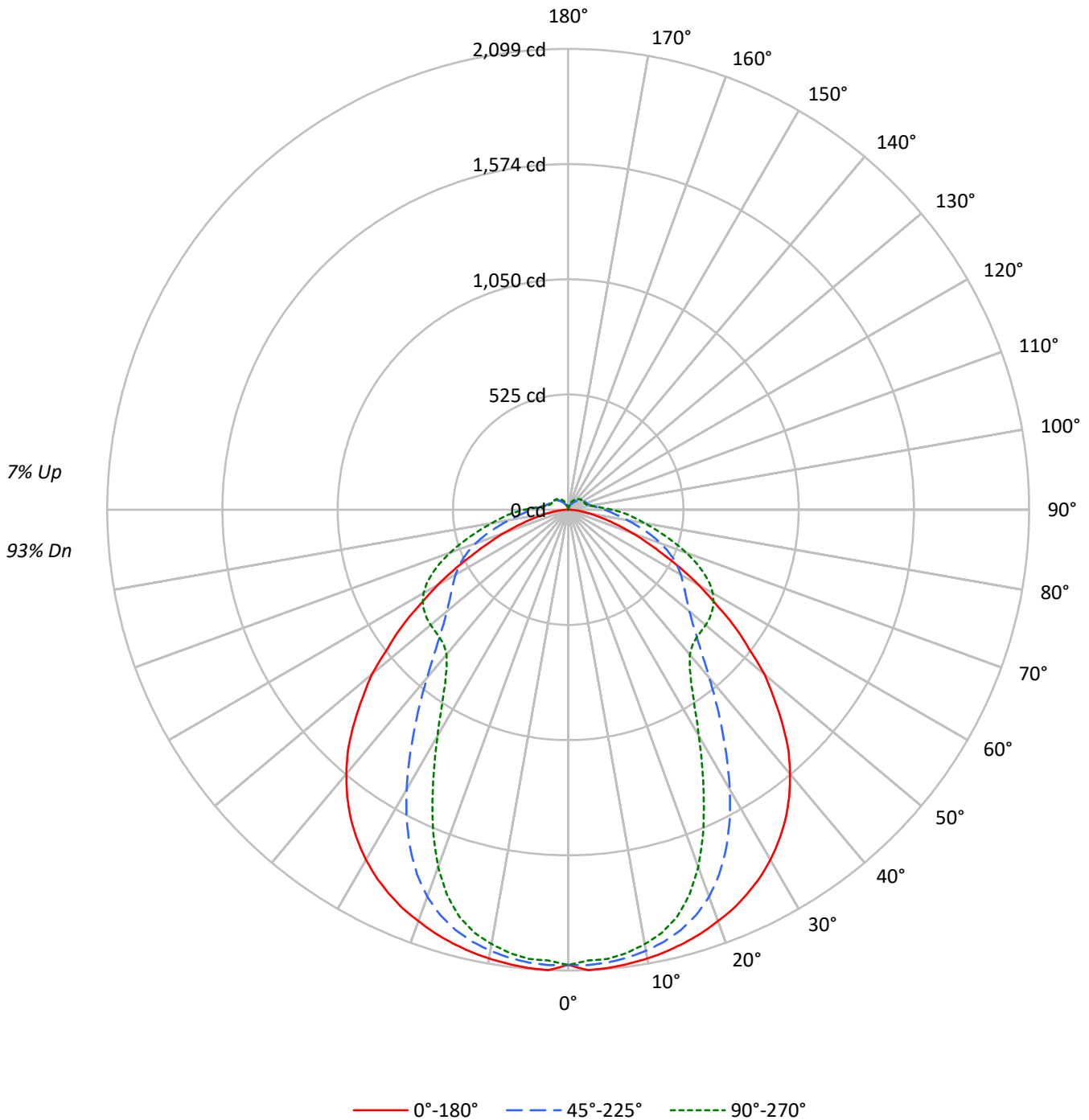
Lumens per Lamp: N/A
Luminaire Lumens: 5214.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 42
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93				
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76				
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64				
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54				
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47				
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41				
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36				
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32				
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29				
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27				
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8377	8377	8377
5°	8485	8200	8064
10°	8494	7981	7732
15°	8509	7720	7291
20°	8525	7329	6548
25°	8542	6722	5545
30°	8516	5920	4561
35°	8410	5042	3822
40°	8181	4274	3455
45°	7766	3719	3429
50°	7195	3404	3549
55°	6358	3276	3673
60°	5388	3235	3724
65°	4359	3169	3608
70°	3532	3012	3328
75°	2698	2735	2953
80°	2041	2465	2627
85°	1451	2339	2416



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.2	3.8
10°-20°	554.4	10.6
20°-30°	775.0	14.9
30°-40°	803.9	15.4
40°-50°	742.7	14.2
50°-60°	663.1	12.7
60°-70°	537.4	10.3
70°-80°	357.4	6.9
80°-90°	204.7	3.9
90°-100°	113.2	2.2
100°-110°	76.7	1.5
110°-120°	63.9	1.2
120°-130°	51.9	1.0
130°-140°	37.4	0.7
140°-150°	22.6	0.4
150°-160°	10.8	0.2
160°-170°	2.8	0.1
170°-180°	0.0	0.0
0°-30°	1525.6	29.3
0°-40°	2329.5	44.7
0°-60°	3735.2	71.6
0°-90°	4834.7	92.7
90°-120°	253.8	4.9
90°-150°	365.7	7.0
90°-180°	379.0	7.3
0°-180°	5214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2073	2073	2073	2073	2073	
5°	2095	2060	2071	2056	2054	199
15°	2043	1999	1982	1937	1918	577
25°	1930	1844	1702	1524	1462	889
35°	1724	1534	1220	1024	978	1075
45°	1380	1094	831	801	825	1061
55°	923	697	649	754	801	820
65°	471	422	528	647	681	476
75°	183	229	356	436	454	201
85°	37	106	210	268	276	42
90°	2	75	166	200	198	3
95°	2	63	132	141	136	1
105°	1	55	95	92	87	1
115°	1	50	84	83	80	1
125°	1	42	74	78	76	1
135°	2	32	59	68	68	1
145°	2	20	40	53	57	1
155°	2	13	25	33	40	1
165°	2	7	13	16	22	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°	2073.3	2073.3	2073.3	2073.3	2073.3
2.5°	2099.4	2065.2	2076.0	2067.0	2055.3
5°	2094.9	2059.8	2070.6	2056.2	2053.5
7.5°	2086.8	2051.7	2058.0	2040.9	2036.4
10°	2076.0	2039.1	2040.0	2015.6	2009.3
12.5°	2061.6	2021.0	2015.6	1982.3	1973.3
15°	2042.7	1999.4	1982.3	1937.2	1918.3
17.5°	2021.9	1971.5	1936.3	1867.0	1837.2
20°	1994.0	1937.2	1876.0	1770.5	1730.9
22.5°	1966.1	1895.8	1797.6	1657.0	1603.9
25°	1930.0	1844.4	1702.1	1523.7	1461.5
27.5°	1889.5	1784.1	1592.1	1386.7	1320.0
30°	1841.7	1711.1	1471.4	1252.4	1189.4
32.5°	1785.9	1629.1	1344.4	1131.7	1073.1
35°	1723.7	1534.5	1220.0	1024.5	978.5
37.5°	1652.5	1430.9	1104.7	938.0	908.2
40°	1571.4	1318.2	998.4	871.3	861.4
42.5°	1484.0	1208.3	907.3	828.1	837.1
45°	1380.4	1093.9	830.8	801.0	825.4
47.5°	1271.4	982.1	768.6	785.7	820.8
50°	1165.9	878.5	719.9	775.8	817.2
52.5°	1035.3	785.7	681.2	766.8	811.8
55°	922.7	697.4	648.7	754.2	801.0
57.5°	792.9	618.1	619.9	738.0	784.8
60°	684.8	546.0	592.0	715.4	760.5
62.5°	574.9	481.2	561.3	685.7	726.2
65°	471.2	421.7	528.0	646.9	681.2
67.5°	384.7	367.6	490.2	600.1	628.9
70°	311.8	318.1	448.7	547.8	572.2
72.5°	239.7	272.1	403.7	492.0	512.7
75°	182.9	228.9	355.9	436.1	454.1
77.5°	135.2	191.0	312.7	385.6	401.0
80°	95.5	157.7	272.1	341.5	353.2
82.5°	64.0	129.7	238.8	301.8	312.7
85°	36.9	106.3	209.9	268.5	275.7
87.5°	15.3	88.3	186.5	234.3	237.9
90°	1.8	74.8	165.8	200.0	198.2
92.5°	1.8	67.6	147.8	167.6	163.1
95°	1.8	63.1	131.6	140.6	136.1
97.5°	1.8	60.4	117.1	120.7	116.2
100°	0.9	58.6	107.2	107.2	102.7
102.5°	0.9	56.8	100.0	97.3	93.7
105°	0.9	55.0	94.6	91.9	87.4
107.5°	0.9	54.1	91.0	88.3	83.8
110°	0.9	52.3	88.3	85.6	82.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	51.4	86.5	84.7	80.2
115°	0.9	49.6	83.8	82.9	80.2
117.5°	0.9	47.8	82.0	82.0	79.3
120°	0.9	46.0	79.3	81.1	78.4
122.5°	0.9	44.2	76.6	79.3	76.6
125°	0.9	42.3	73.9	77.5	75.7
127.5°	1.8	39.6	70.3	75.7	73.9
130°	0.9	36.9	66.7	73.9	73.0
132.5°	1.8	34.2	63.1	71.2	71.2
135°	1.8	31.5	58.6	68.5	68.5
137.5°	1.8	27.9	54.1	64.9	65.8
140°	1.8	25.2	49.6	61.3	63.1
142.5°	1.8	22.5	45.1	57.7	60.4
145°	1.8	19.8	40.5	53.2	56.8
147.5°	1.8	18.0	36.0	47.8	53.2
150°	1.8	15.3	32.4	43.2	48.7
152.5°	1.8	13.5	28.8	38.7	45.1
155°	1.8	12.6	25.2	33.3	40.5
157.5°	1.8	10.8	21.6	28.8	36.0
160°	1.8	9.0	18.0	25.2	30.6
162.5°	1.8	8.1	15.3	20.7	27.0
165°	1.8	7.2	12.6	16.2	21.6
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)