

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-LD5-128SL-SLN-UNV-L850-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-LD5-128SL-SLN-UNV-L850-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12740.0 lumens
Efficiency: N/A
Efficacy: 123.7 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

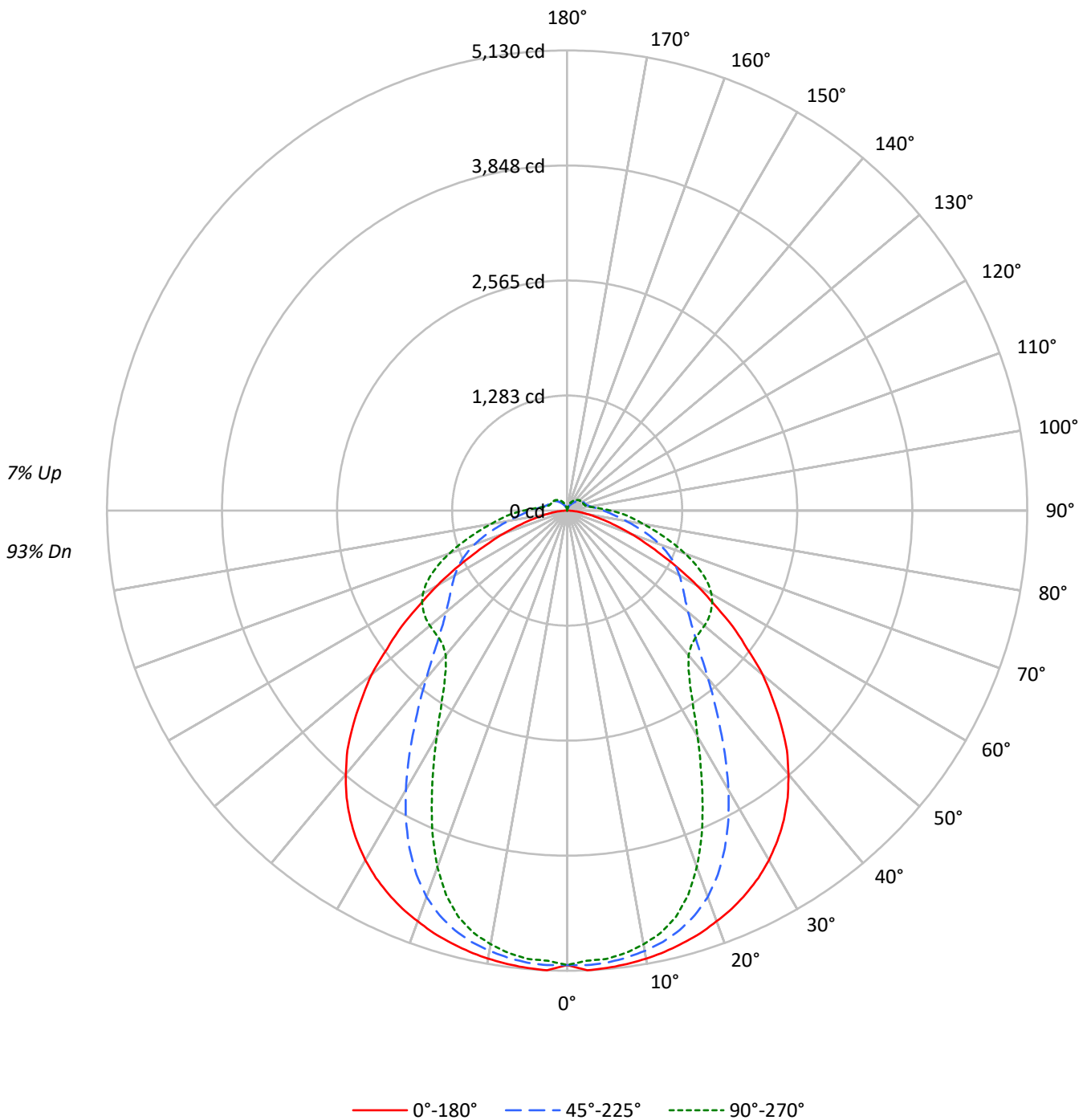
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	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°	20469	20469	20469
5°	20733	20036	19704
10°	20754	19500	18893
15°	20791	18864	17815
20°	20831	17907	15999
25°	20872	16424	13549
30°	20808	14465	11144
35°	20550	12319	9339
40°	19990	10444	8443
45°	18977	9087	8379
50°	17581	8317	8673
55°	15535	8006	8976
60°	13165	7904	9100
65°	10651	7744	8816
70°	8629	7361	8130
75°	6592	6681	7215
80°	4989	6025	6418
85°	3552	5717	5903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.3	3.8
10°-20°	1354.7	10.6
20°-30°	1893.7	14.9
30°-40°	1964.3	15.4
40°-50°	1814.7	14.2
50°-60°	1620.2	12.7
60°-70°	1313.0	10.3
70°-80°	873.3	6.9
80°-90°	500.1	3.9
90°-100°	276.7	2.2
100°-110°	187.4	1.5
110°-120°	156.0	1.2
120°-130°	126.8	1.0
130°-140°	91.5	0.7
140°-150°	55.2	0.4
150°-160°	26.5	0.2
160°-170°	6.9	0.1
170°-180°	0.0	0.0
0°-30°	3727.7	29.3
0°-40°	5691.9	44.7
0°-60°	9126.7	71.6
0°-90°	11813.2	92.7
90°-120°	620.1	4.9
90°-150°	893.5	7.0
90°-180°	927.0	7.3
0°-180°	12740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5066	5066	5066	5066	5066	
5°	5119	5033	5059	5024	5018	487
15°	4991	4885	4844	4734	4687	1410
25°	4716	4507	4159	3723	3571	2173
35°	4212	3749	2981	2503	2391	2628
45°	3373	2673	2030	1957	2017	2593
55°	2254	1704	1585	1843	1957	2005
65°	1151	1030	1290	1581	1664	1164
75°	447	559	870	1066	1110	490
85°	90	260	513	656	674	104
90°	4	183	405	489	484	7
95°	4	154	321	344	332	3
105°	2	134	231	225	214	2
115°	2	121	205	202	196	2
125°	2	104	180	189	185	2
135°	4	77	143	167	167	3
145°	4	48	99	130	139	3
155°	4	31	62	82	99	2
165°	4	18	31	40	53	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°	5065.9	5065.9	5065.9	5065.9	5065.9
2.5°	5129.8	5046.1	5072.5	5050.5	5021.9
5°	5118.8	5032.9	5059.3	5024.1	5017.5
7.5°	5099.0	5013.1	5028.5	4986.7	4975.7
10°	5072.5	4982.3	4984.5	4925.0	4909.6
12.5°	5037.3	4938.2	4925.0	4843.6	4821.6
15°	4991.1	4885.4	4843.6	4733.5	4687.3
17.5°	4940.4	4817.2	4731.3	4561.8	4489.1
20°	4872.2	4733.5	4583.8	4326.2	4229.3
22.5°	4803.9	4632.2	4392.2	4048.8	3918.9
25°	4715.9	4506.7	4158.9	3722.9	3571.0
27.5°	4616.8	4359.2	3890.3	3388.3	3225.4
30°	4500.1	4180.9	3595.2	3060.3	2906.1
32.5°	4363.6	3980.5	3284.8	2765.2	2622.1
35°	4211.7	3749.4	2981.0	2503.2	2391.0
37.5°	4037.8	3496.2	2699.2	2291.9	2219.2
40°	3839.6	3221.0	2439.4	2129.0	2104.8
42.5°	3626.1	2952.4	2217.0	2023.3	2045.3
45°	3372.9	2672.8	2029.9	1957.2	2016.7
47.5°	3106.5	2399.8	1878.0	1919.8	2005.7
50°	2848.9	2146.6	1759.1	1895.6	1996.9
52.5°	2529.7	1919.8	1664.4	1873.6	1983.7
55°	2254.5	1704.1	1585.2	1842.8	1957.2
57.5°	1937.4	1510.3	1514.7	1803.1	1917.6
60°	1673.2	1334.2	1446.5	1748.1	1858.2
62.5°	1404.6	1175.7	1371.6	1675.4	1774.5
65°	1151.4	1030.4	1290.2	1580.8	1664.4
67.5°	940.1	898.3	1197.7	1466.3	1536.7
70°	761.8	777.2	1096.4	1338.6	1398.0
72.5°	585.6	664.9	986.3	1202.1	1252.7
75°	446.9	559.2	869.6	1065.6	1109.6
77.5°	330.2	466.7	764.0	942.3	979.7
80°	233.4	385.3	664.9	834.4	863.0
82.5°	156.3	317.0	583.4	737.5	764.0
85°	90.3	259.8	513.0	656.1	673.7
87.5°	37.4	215.8	455.7	572.4	581.2
90°	4.4	182.7	405.1	488.8	484.4
92.5°	4.4	165.1	361.1	409.5	398.5
95°	4.4	154.1	321.4	343.5	332.4
97.5°	4.4	147.5	286.2	295.0	284.0
100°	2.2	143.1	262.0	262.0	251.0
102.5°	2.2	138.7	244.4	237.8	229.0
105°	2.2	134.3	231.2	224.6	213.6
107.5°	2.2	132.1	222.4	215.8	204.8
110°	2.2	127.7	215.8	209.2	200.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	125.5	211.4	207.0	195.9
115°	2.2	121.1	204.8	202.5	195.9
117.5°	2.2	116.7	200.3	200.3	193.7
120°	2.2	112.3	193.7	198.1	191.5
122.5°	2.2	107.9	187.1	193.7	187.1
125°	2.2	103.5	180.5	189.3	184.9
127.5°	4.4	96.9	171.7	184.9	180.5
130°	2.2	90.3	162.9	180.5	178.3
132.5°	4.4	83.7	154.1	173.9	173.9
135°	4.4	77.1	143.1	167.3	167.3
137.5°	4.4	68.3	132.1	158.5	160.7
140°	4.4	61.6	121.1	149.7	154.1
142.5°	4.4	55.0	110.1	140.9	147.5
145°	4.4	48.4	99.1	129.9	138.7
147.5°	4.4	44.0	88.1	116.7	129.9
150°	4.4	37.4	79.3	105.7	118.9
152.5°	4.4	33.0	70.5	94.7	110.1
155°	4.4	30.8	61.6	81.5	99.1
157.5°	4.4	26.4	52.8	70.5	88.1
160°	4.4	22.0	44.0	61.6	74.9
162.5°	4.4	19.8	37.4	50.6	66.0
165°	4.4	17.6	30.8	39.6	52.8
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)