

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-LD5-56SL-SLC-UNV-L930-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-LD5-56SL-SLC-UNV-L930-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

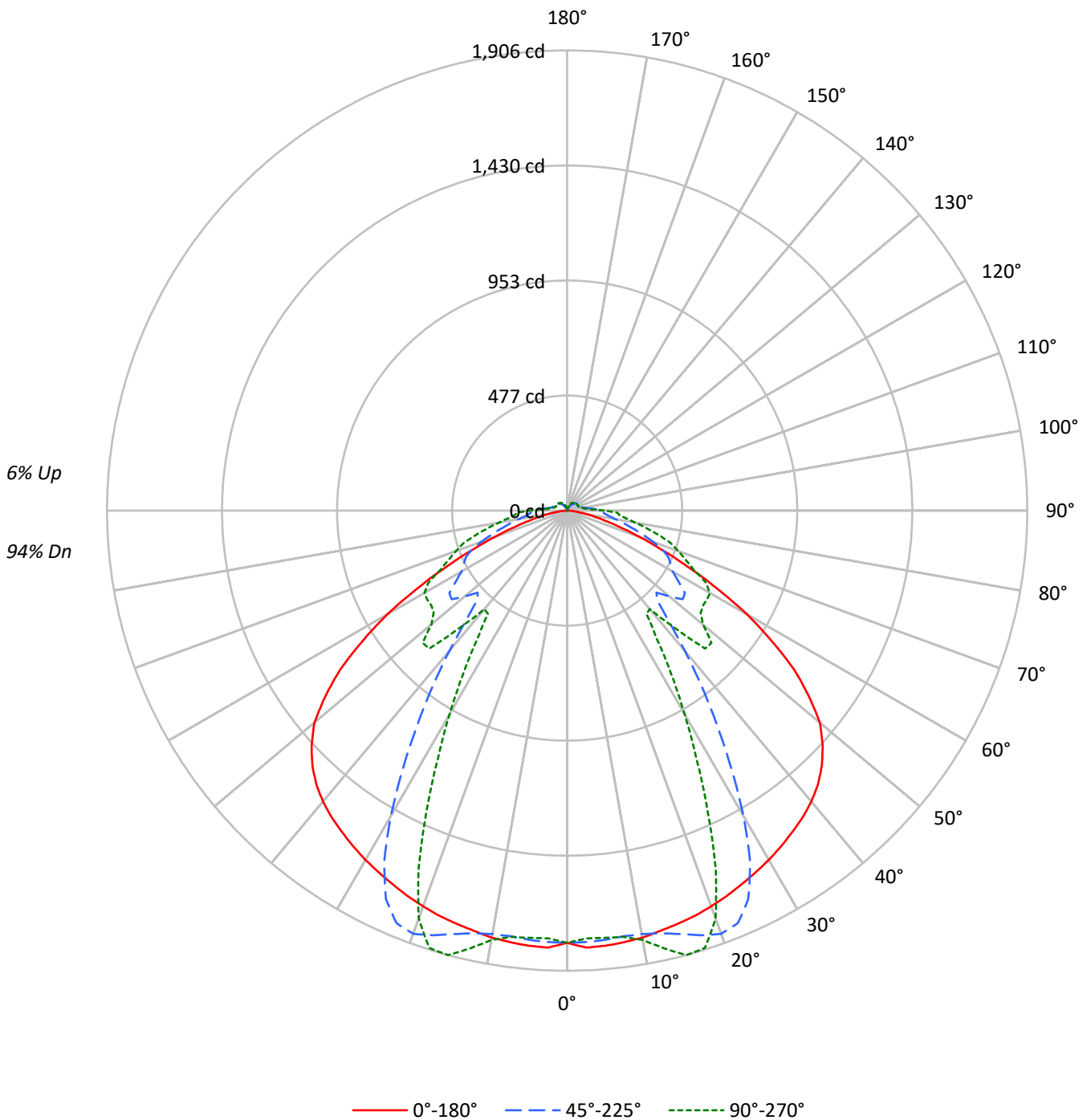
Lumens per Lamp: N/A  
Luminaire Lumens: 4597.0 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 46  
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	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°	14462	14462	14462
5°	14638	14123	13949
10°	14656	13908	13901
15°	14696	14104	14488
20°	14833	14524	13600
25°	15018	13958	10472
30°	15313	11690	7448
35°	15693	8854	5043
40°	16173	6436	4271
45°	16540	4669	6714
50°	16563	5170	6372
55°	15482	5950	6292
60°	13190	5444	6688
65°	9923	5491	6118
70°	6963	4999	5695
75°	4563	4188	5109
80°	2913	3588	4254
85°	1571	3409	3819



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.2	3.7
10°-20°	514.2	11.2
20°-30°	746.9	16.2
30°-40°	713.6	15.5
40°-50°	652.8	14.2
50°-60°	602.7	13.1
60°-70°	478.7	10.4
70°-80°	295.5	6.4
80°-90°	160.9	3.5
90°-100°	81.3	1.8
100°-110°	51.1	1.1
110°-120°	43.3	0.9
120°-130°	35.4	0.8
130°-140°	25.4	0.6
140°-150°	15.6	0.3
150°-160°	7.4	0.2
160°-170°	1.9	0.0
170°-180°	0.0	0.0
0°-30°	1431.3	31.1
0°-40°	2144.9	46.7
0°-60°	3400.4	74.0
0°-90°	4335.6	94.3
90°-120°	175.7	3.8
90°-150°	252.1	5.5
90°-180°	261.0	5.7
0°-180°	4597.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1790	1790	1790	1790	1790	
5°	1809	1782	1785	1775	1776	172
15°	1771	1748	1816	1883	1906	501
25°	1709	1742	1775	1503	1380	790
35°	1626	1599	1078	742	646	1019
45°	1492	1041	526	671	808	1147
55°	1148	534	596	641	686	1011
65°	554	346	464	564	578	560
75°	163	185	278	368	393	185
85°	23	78	158	215	218	29
90°	1	59	141	167	154	1
95°	0	55	97	86	82	0
105°	0	49	60	55	54	0
115°	0	40	58	52	49	0
125°	1	32	52	50	48	1
135°	1	23	41	45	44	1
145°	1	14	28	36	39	1
155°	2	9	17	23	28	1
165°	2	5	9	11	15	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°	1789.6	1789.6	1789.6	1789.6	1789.6
2.5°	1811.7	1785.6	1788.8	1783.2	1773.7
5°	1809.4	1781.6	1784.8	1775.3	1776.1
7.5°	1803.0	1774.5	1778.5	1776.9	1780.9
10°	1795.9	1765.8	1780.9	1794.3	1806.2
12.5°	1783.2	1756.3	1792.7	1832.3	1856.9
15°	1771.3	1747.6	1815.7	1883.0	1906.0
17.5°	1759.5	1744.4	1844.2	1902.9	1899.7
20°	1744.4	1742.8	1865.6	1845.8	1797.5
22.5°	1727.8	1743.6	1849.0	1704.0	1608.9
25°	1708.8	1742.0	1775.3	1502.8	1380.0
27.5°	1689.8	1734.9	1641.4	1282.6	1161.4
30°	1670.7	1715.9	1460.8	1081.3	971.2
32.5°	1648.6	1674.7	1264.3	903.1	801.7
35°	1625.6	1599.4	1078.2	742.3	645.6
37.5°	1601.8	1490.9	911.0	601.3	539.5
40°	1573.3	1354.7	757.3	515.7	532.4
42.5°	1537.7	1201.0	621.9	541.1	656.7
45°	1492.5	1040.9	526.0	671.0	808.0
47.5°	1435.5	887.3	502.3	768.4	811.2
50°	1366.5	746.2	552.2	736.7	733.6
52.5°	1262.0	629.0	602.9	671.8	697.1
55°	1147.9	533.9	595.7	640.9	686.0
57.5°	1003.7	469.8	546.6	634.5	686.8
60°	860.3	427.0	504.6	633.8	682.9
62.5°	701.9	388.2	483.2	618.7	648.0
65°	553.7	346.2	464.2	564.0	577.5
67.5°	424.6	303.4	431.0	503.0	530.0
70°	320.0	261.4	378.7	456.3	489.6
72.5°	230.5	221.8	324.8	415.1	450.0
75°	163.2	184.6	278.1	368.4	392.9
77.5°	112.5	150.5	238.5	316.9	336.7
80°	73.7	120.4	202.8	272.5	286.0
82.5°	44.4	96.6	175.9	238.5	245.6
85°	23.0	78.4	157.6	214.7	217.9
87.5°	7.1	65.8	147.3	203.6	207.6
90°	0.8	58.6	141.0	167.2	154.5
92.5°	0.0	55.5	122.0	114.1	102.2
95°	0.0	54.7	97.4	86.3	81.6
97.5°	0.0	53.1	80.0	72.1	69.7
100°	0.0	51.5	68.9	63.4	62.6
102.5°	0.0	50.7	62.6	57.8	57.0
105°	0.0	49.1	60.2	54.7	53.9
107.5°	0.0	46.7	58.6	53.1	51.5
110°	0.0	44.4	58.6	52.3	49.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	42.0	58.6	51.5	49.1
115°	0.0	40.4	57.8	51.5	49.1
117.5°	0.8	38.8	57.0	51.5	49.1
120°	0.0	37.2	55.5	51.5	48.3
122.5°	0.8	34.9	53.9	50.7	48.3
125°	0.8	32.5	51.5	49.9	47.5
127.5°	0.8	30.1	49.1	48.3	45.9
130°	0.8	27.7	46.7	47.5	45.2
132.5°	0.8	25.4	43.6	45.9	44.4
135°	0.8	23.0	41.2	45.2	43.6
137.5°	0.8	20.6	38.0	42.8	42.8
140°	0.8	18.2	34.9	41.2	42.0
142.5°	0.8	16.6	31.7	39.6	40.4
145°	0.8	14.3	28.5	36.4	38.8
147.5°	0.8	12.7	25.4	33.3	36.4
150°	0.8	11.1	22.2	30.1	33.3
152.5°	0.8	9.5	19.8	26.1	30.9
155°	1.6	8.7	17.4	23.0	27.7
157.5°	1.6	7.1	14.3	19.8	23.8
160°	1.6	6.3	12.7	16.6	21.4
162.5°	1.6	5.5	10.3	14.3	18.2
165°	1.6	4.8	8.7	11.1	15.1
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)