

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-SLN-UNV-L935-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: 4SNLED-LD5-56SL-SLN-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

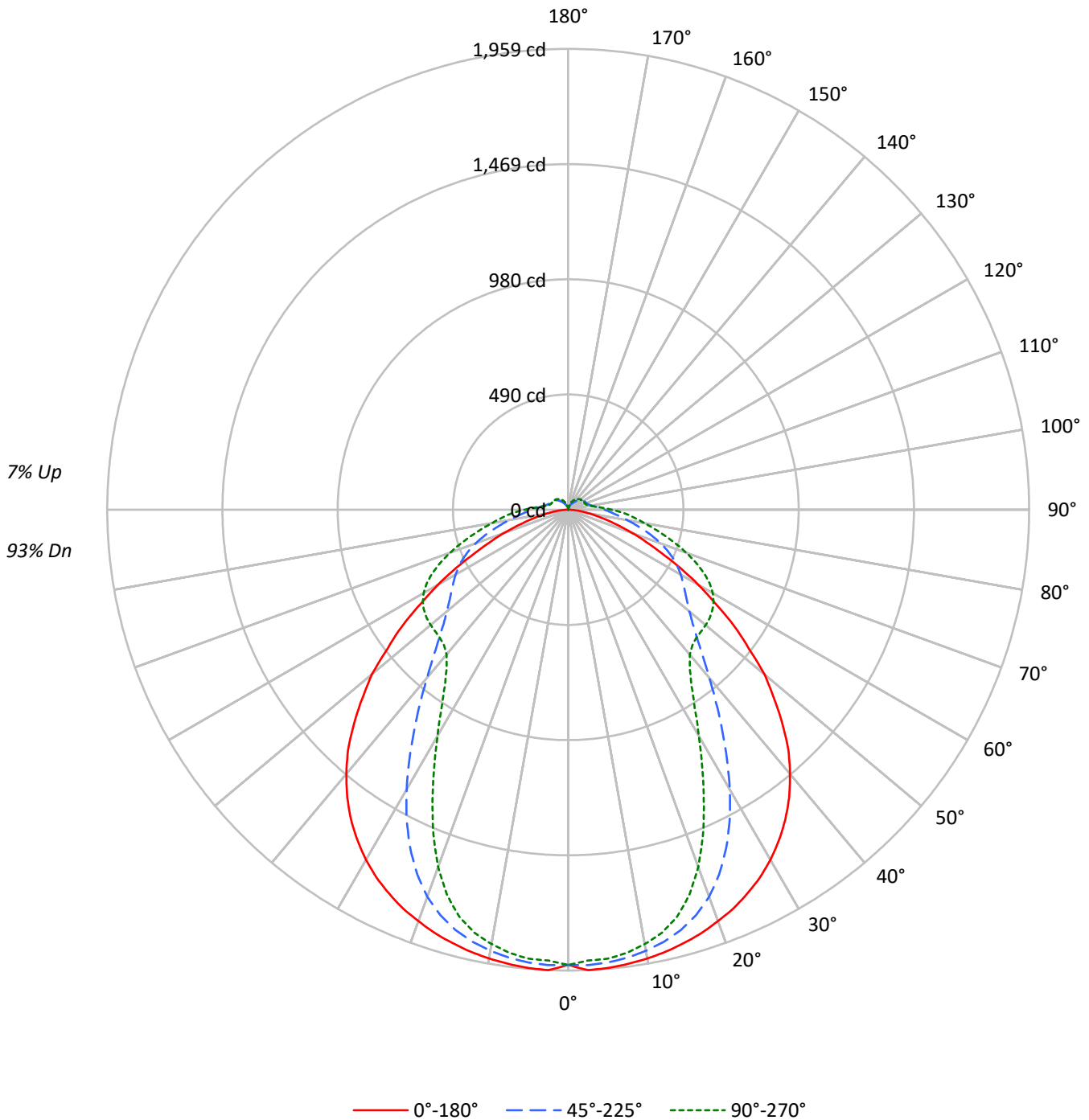
Lumens per Lamp: N/A
Luminaire Lumens: 4866.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	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°	15636	15636	15636
5°	15816	15291	15051
10°	15811	14868	14432
15°	15816	14370	13609
20°	15823	13630	12222
25°	15830	12489	10350
30°	15754	10989	8513
35°	15529	9350	7134
40°	15075	7918	6449
45°	14277	6882	6401
50°	13188	6291	6625
55°	11614	6046	6857
60°	9799	5961	6951
65°	7881	5829	6734
70°	6332	5528	6211
75°	4773	5003	5511
80°	3522	4493	4902
85°	2357	4237	4509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	3.8
10°-20°	517.4	10.6
20°-30°	723.3	14.9
30°-40°	750.2	15.4
40°-50°	693.1	14.2
50°-60°	618.8	12.7
60°-70°	501.5	10.3
70°-80°	333.6	6.9
80°-90°	191.0	3.9
90°-100°	105.7	2.2
100°-110°	71.6	1.5
110°-120°	59.6	1.2
120°-130°	48.4	1.0
130°-140°	34.9	0.7
140°-150°	21.1	0.4
150°-160°	10.1	0.2
160°-170°	2.6	0.1
170°-180°	0.0	0.0
0°-30°	1423.8	29.3
0°-40°	2174.0	44.7
0°-60°	3485.9	71.6
0°-90°	4512.0	92.7
90°-120°	236.8	4.9
90°-150°	341.3	7.0
90°-180°	354.0	7.3
0°-180°	4866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1935	1935	1935	1935	1935	
5°	1955	1922	1932	1919	1916	186
15°	1906	1866	1850	1808	1790	539
25°	1801	1721	1588	1422	1364	830
35°	1609	1432	1139	956	913	1004
45°	1288	1021	775	748	770	991
55°	861	651	605	704	748	766
65°	440	394	493	604	636	445
75°	171	214	332	407	424	187
85°	34	99	196	251	257	40
90°	2	70	155	187	185	3
95°	2	59	123	131	127	1
105°	1	51	88	86	82	1
115°	1	46	78	77	75	1
125°	1	40	69	72	71	1
135°	2	29	55	64	64	1
145°	2	18	38	50	53	1
155°	2	12	24	31	38	1
165°	2	7	12	15	20	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°	1934.9	1934.9	1934.9	1934.9	1934.9
2.5°	1959.3	1927.3	1937.4	1929.0	1918.1
5°	1955.1	1922.3	1932.4	1918.9	1916.4
7.5°	1947.5	1914.7	1920.6	1904.6	1900.4
10°	1937.4	1903.0	1903.8	1881.1	1875.2
12.5°	1924.0	1886.1	1881.1	1850.0	1841.6
15°	1906.3	1866.0	1850.0	1807.9	1790.3
17.5°	1887.0	1839.9	1807.1	1742.3	1714.6
20°	1860.9	1807.9	1750.8	1652.4	1615.4
22.5°	1834.8	1769.3	1677.6	1546.4	1496.8
25°	1801.2	1721.3	1588.5	1422.0	1363.9
27.5°	1763.4	1665.0	1485.9	1294.1	1231.9
30°	1718.8	1596.9	1373.2	1168.9	1110.0
32.5°	1666.7	1520.4	1254.6	1056.2	1001.5
35°	1608.6	1432.1	1138.6	956.1	913.2
37.5°	1542.2	1335.4	1030.9	875.4	847.6
40°	1466.5	1230.2	931.7	813.2	803.9
42.5°	1385.0	1127.7	846.8	772.8	781.2
45°	1288.3	1020.9	775.3	747.6	770.3
47.5°	1186.5	916.6	717.3	733.3	766.1
50°	1088.1	819.9	671.9	724.0	762.7
52.5°	966.2	733.3	635.7	715.6	757.7
55°	861.1	650.9	605.4	703.8	747.6
57.5°	740.0	576.9	578.5	688.7	732.4
60°	639.1	509.6	552.5	667.7	709.7
62.5°	536.5	449.0	523.9	639.9	677.8
65°	439.8	393.5	492.8	603.8	635.7
67.5°	359.1	343.1	457.5	560.0	586.9
70°	291.0	296.8	418.8	511.3	534.0
72.5°	223.7	254.0	376.7	459.1	478.5
75°	170.7	213.6	332.2	407.0	423.8
77.5°	126.1	178.3	291.8	359.9	374.2
80°	89.1	147.2	254.0	318.7	329.6
82.5°	59.7	121.1	222.8	281.7	291.8
85°	34.5	99.2	195.9	250.6	257.3
87.5°	14.3	82.4	174.1	218.6	222.0
90°	1.7	69.8	154.7	186.7	185.0
92.5°	1.7	63.1	137.9	156.4	152.2
95°	1.7	58.9	122.8	131.2	127.0
97.5°	1.7	56.3	109.3	112.7	108.5
100°	0.8	54.7	100.1	100.1	95.9
102.5°	0.8	53.0	93.3	90.8	87.5
105°	0.8	51.3	88.3	85.8	81.6
107.5°	0.8	50.5	84.9	82.4	78.2
110°	0.8	48.8	82.4	79.9	76.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	47.9	80.7	79.0	74.8
115°	0.8	46.2	78.2	77.4	74.8
117.5°	0.8	44.6	76.5	76.5	74.0
120°	0.8	42.9	74.0	75.7	73.2
122.5°	0.8	41.2	71.5	74.0	71.5
125°	0.8	39.5	69.0	72.3	70.6
127.5°	1.7	37.0	65.6	70.6	69.0
130°	0.8	34.5	62.2	69.0	68.1
132.5°	1.7	32.0	58.9	66.4	66.4
135°	1.7	29.4	54.7	63.9	63.9
137.5°	1.7	26.1	50.5	60.5	61.4
140°	1.7	23.5	46.2	57.2	58.9
142.5°	1.7	21.0	42.0	53.8	56.3
145°	1.7	18.5	37.8	49.6	53.0
147.5°	1.7	16.8	33.6	44.6	49.6
150°	1.7	14.3	30.3	40.4	45.4
152.5°	1.7	12.6	26.9	36.2	42.0
155°	1.7	11.8	23.5	31.1	37.8
157.5°	1.7	10.1	20.2	26.9	33.6
160°	1.7	8.4	16.8	23.5	28.6
162.5°	1.7	7.6	14.3	19.3	25.2
165°	1.7	6.7	11.8	15.1	20.2
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)