

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-LD5-49SL-SLN-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-49SL-SLN-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

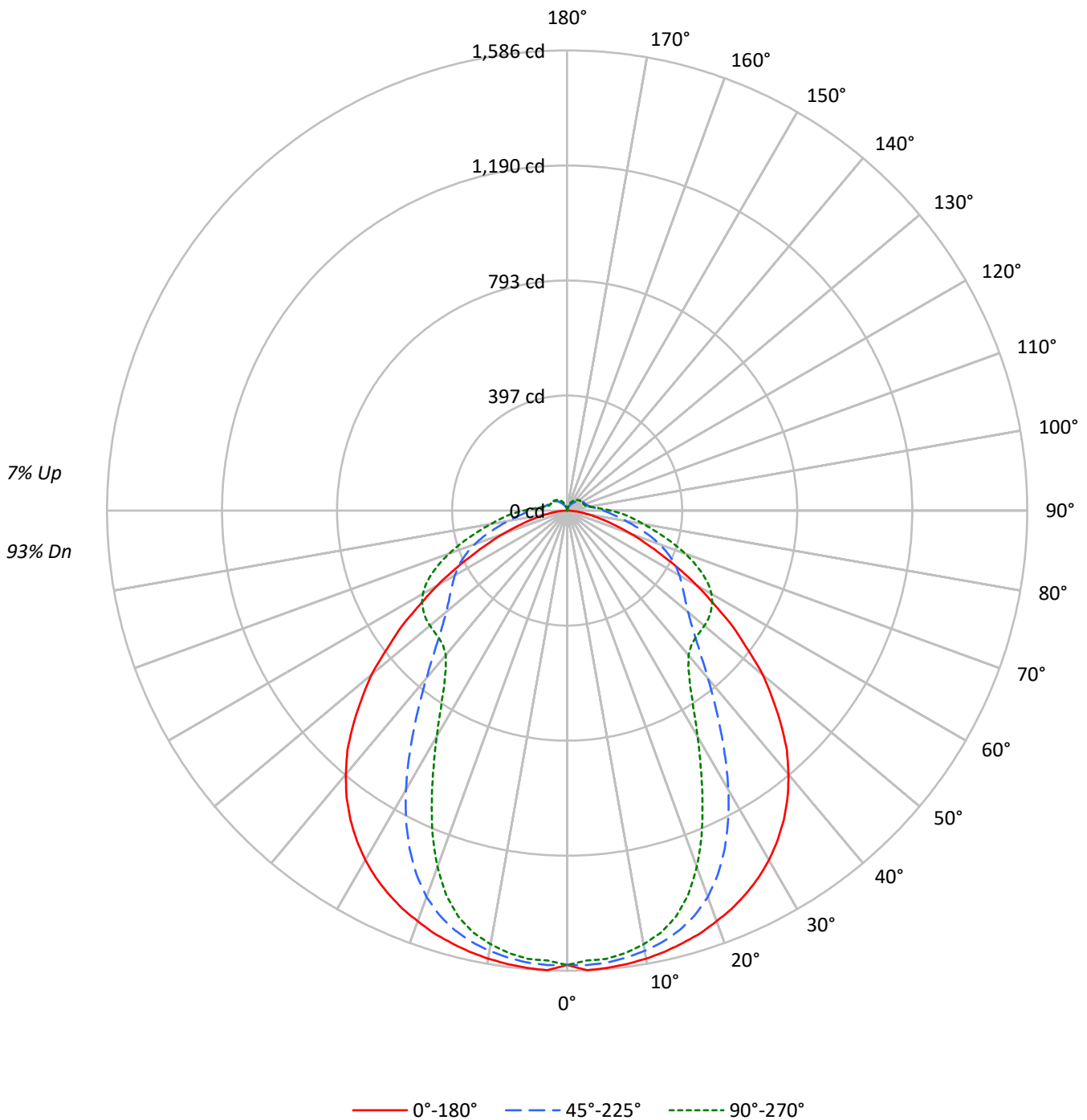
Lumens per Lamp: N/A
Luminaire Lumens: 3938.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 38
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°	12654	12654	12654
5°	12800	12375	12181
10°	12795	12032	11680
15°	12800	11630	11014
20°	12805	11030	9891
25°	12811	10107	8376
30°	12750	8893	6889
35°	12568	7566	5774
40°	12200	6408	5219
45°	11554	5570	5180
50°	10673	5091	5361
55°	9399	4894	5549
60°	7930	4824	5626
65°	6378	4717	5450
70°	5124	4473	5026
75°	3861	4048	4461
80°	2850	3635	3968
85°	1906	3431	3649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	3.8
10°-20°	418.7	10.6
20°-30°	585.4	14.9
30°-40°	607.2	15.4
40°-50°	560.9	14.2
50°-60°	500.8	12.7
60°-70°	405.9	10.3
70°-80°	269.9	6.9
80°-90°	154.6	3.9
90°-100°	85.5	2.2
100°-110°	57.9	1.5
110°-120°	48.2	1.2
120°-130°	39.2	1.0
130°-140°	28.3	0.7
140°-150°	17.1	0.4
150°-160°	8.2	0.2
160°-170°	2.1	0.1
170°-180°	0.0	0.0
0°-30°	1152.2	29.3
0°-40°	1759.4	44.7
0°-60°	2821.1	71.6
0°-90°	3651.5	92.7
90°-120°	191.7	4.9
90°-150°	276.2	7.0
90°-180°	287.0	7.3
0°-180°	3938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1582	1556	1564	1553	1551	151
15°	1543	1510	1497	1463	1449	436
25°	1458	1393	1286	1151	1104	672
35°	1302	1159	921	774	739	812
45°	1043	826	628	605	623	802
55°	697	527	490	570	605	620
65°	356	318	399	489	514	360
75°	138	173	269	329	343	151
85°	28	80	159	203	208	32
90°	1	56	125	151	150	2
95°	1	48	99	106	103	1
105°	1	42	72	69	66	1
115°	1	37	63	63	61	1
125°	1	32	56	58	57	1
135°	1	24	44	52	52	1
145°	1	15	31	40	43	1
155°	1	10	19	25	31	1
165°	1	5	10	12	16	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°	1565.9	1565.9	1565.9	1565.9	1565.9
2.5°	1585.6	1559.8	1567.9	1561.1	1552.3
5°	1582.2	1555.7	1563.9	1553.0	1550.9
7.5°	1576.1	1549.6	1554.3	1541.4	1538.0
10°	1567.9	1540.0	1540.7	1522.4	1517.6
12.5°	1557.1	1526.4	1522.4	1497.2	1490.4
15°	1542.8	1510.1	1497.2	1463.1	1448.9
17.5°	1527.1	1489.0	1462.5	1410.1	1387.6
20°	1506.0	1463.1	1416.9	1337.2	1307.3
22.5°	1484.9	1431.8	1357.7	1251.5	1211.3
25°	1457.7	1393.1	1285.5	1150.8	1103.8
27.5°	1427.1	1347.5	1202.5	1047.3	997.0
30°	1391.0	1292.3	1111.3	945.9	898.3
32.5°	1348.8	1230.4	1015.4	854.7	810.5
35°	1301.9	1158.9	921.4	773.8	739.1
37.5°	1248.1	1080.7	834.3	708.4	686.0
40°	1186.8	995.6	754.0	658.1	650.6
42.5°	1120.8	912.6	685.3	625.4	632.2
45°	1042.6	826.2	627.5	605.0	623.4
47.5°	960.2	741.8	580.5	593.4	620.0
50°	880.6	663.5	543.7	585.9	617.2
52.5°	781.9	593.4	514.5	579.1	613.2
55°	696.9	526.7	490.0	569.6	605.0
57.5°	598.9	466.8	468.2	557.4	592.7
60°	517.2	412.4	447.1	540.3	574.4
62.5°	434.2	363.4	424.0	517.9	548.5
65°	355.9	318.5	398.8	488.6	514.5
67.5°	290.6	277.7	370.2	453.2	475.0
70°	235.5	240.2	338.9	413.8	432.1
72.5°	181.0	205.5	304.9	371.6	387.2
75°	138.1	172.9	268.8	329.4	343.0
77.5°	102.1	144.3	236.1	291.3	302.8
80°	72.1	119.1	205.5	257.9	266.8
82.5°	48.3	98.0	180.3	228.0	236.1
85°	27.9	80.3	158.6	202.8	208.2
87.5°	11.6	66.7	140.9	176.9	179.7
90°	1.4	56.5	125.2	151.1	149.7
92.5°	1.4	51.0	111.6	126.6	123.2
95°	1.4	47.6	99.4	106.2	102.8
97.5°	1.4	45.6	88.5	91.2	87.8
100°	0.7	44.2	81.0	81.0	77.6
102.5°	0.7	42.9	75.5	73.5	70.8
105°	0.7	41.5	71.5	69.4	66.0
107.5°	0.7	40.8	68.7	66.7	63.3
110°	0.7	39.5	66.7	64.7	61.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	38.8	65.3	64.0	60.6
115°	0.7	37.4	63.3	62.6	60.6
117.5°	0.7	36.1	61.9	61.9	59.9
120°	0.7	34.7	59.9	61.2	59.2
122.5°	0.7	33.3	57.8	59.9	57.8
125°	0.7	32.0	55.8	58.5	57.2
127.5°	1.4	29.9	53.1	57.2	55.8
130°	0.7	27.9	50.4	55.8	55.1
132.5°	1.4	25.9	47.6	53.8	53.8
135°	1.4	23.8	44.2	51.7	51.7
137.5°	1.4	21.1	40.8	49.0	49.7
140°	1.4	19.1	37.4	46.3	47.6
142.5°	1.4	17.0	34.0	43.6	45.6
145°	1.4	15.0	30.6	40.2	42.9
147.5°	1.4	13.6	27.2	36.1	40.2
150°	1.4	11.6	24.5	32.7	36.7
152.5°	1.4	10.2	21.8	29.3	34.0
155°	1.4	9.5	19.1	25.2	30.6
157.5°	1.4	8.2	16.3	21.8	27.2
160°	1.4	6.8	13.6	19.1	23.1
162.5°	1.4	6.1	11.6	15.7	20.4
165°	1.4	5.4	9.5	12.2	16.3
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)