

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-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-LD5-49SL-SLC-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

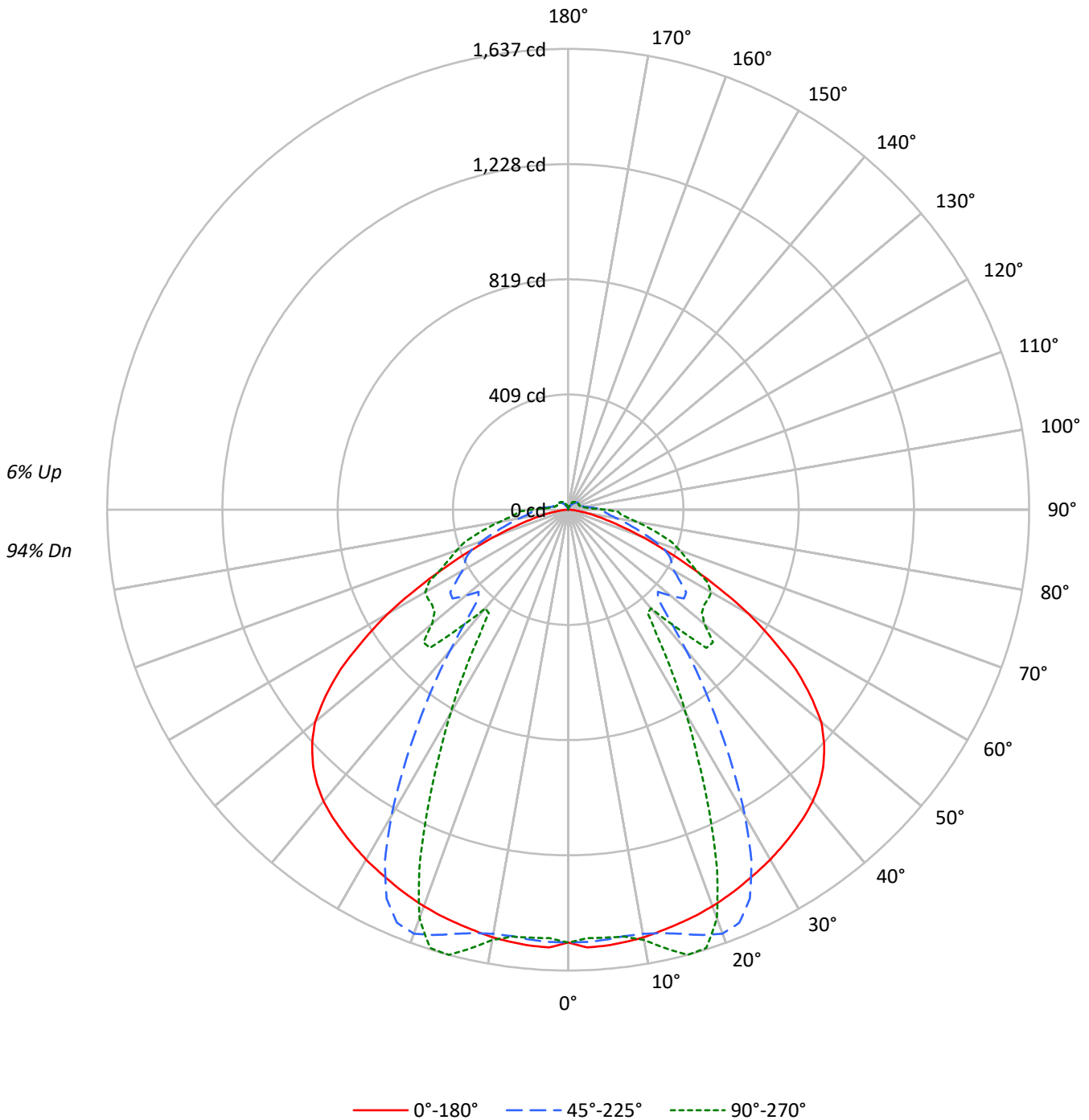
Lumens per Lamp: N/A
Luminaire Lumens: 3949.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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	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°	12423	12423	12423
5°	12574	12132	11983
10°	12590	11947	11942
15°	12625	12116	12446
20°	12742	12476	11683
25°	12900	11991	8996
30°	13155	10043	6398
35°	13481	7606	4332
40°	13893	5529	3669
45°	14208	4011	5767
50°	14228	4441	5474
55°	13299	5112	5405
60°	11332	4677	5745
65°	8525	4717	5255
70°	5982	4294	4892
75°	3920	3598	4389
80°	2502	3082	3654
85°	1346	2929	3279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	3.7
10°-20°	441.7	11.2
20°-30°	641.6	16.2
30°-40°	613.0	15.5
40°-50°	560.8	14.2
50°-60°	517.8	13.1
60°-70°	411.3	10.4
70°-80°	253.8	6.4
80°-90°	138.2	3.5
90°-100°	69.9	1.8
100°-110°	43.9	1.1
110°-120°	37.2	0.9
120°-130°	30.4	0.8
130°-140°	21.8	0.6
140°-150°	13.4	0.3
150°-160°	6.4	0.2
160°-170°	1.7	0.0
170°-180°	0.0	0.0
0°-30°	1229.5	31.1
0°-40°	1842.6	46.7
0°-60°	2921.1	74.0
0°-90°	3724.4	94.3
90°-120°	151.0	3.8
90°-150°	216.6	5.5
90°-180°	225.0	5.7
0°-180°	3949.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1554	1530	1533	1525	1526	148
15°	1522	1501	1560	1618	1637	431
25°	1468	1496	1525	1291	1186	678
35°	1396	1374	926	638	555	876
45°	1282	894	452	576	694	985
55°	986	459	512	550	589	868
65°	476	297	399	484	496	481
75°	140	159	239	316	338	159
85°	20	67	135	184	187	25
90°	1	50	121	144	133	1
95°	0	47	84	74	70	0
105°	0	42	52	47	46	0
115°	0	35	50	44	42	0
125°	1	28	44	43	41	1
135°	1	20	35	39	37	1
145°	1	12	24	31	33	0
155°	1	8	15	20	24	1
165°	1	4	8	10	13	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°	1537.3	1537.3	1537.3	1537.3	1537.3
2.5°	1556.4	1533.9	1536.6	1531.9	1523.7
5°	1554.3	1530.5	1533.2	1525.1	1525.7
7.5°	1548.9	1524.4	1527.8	1526.4	1529.8
10°	1542.8	1516.9	1529.8	1541.4	1551.6
12.5°	1531.9	1508.7	1540.0	1574.1	1595.2
15°	1521.7	1501.2	1559.8	1617.6	1637.3
17.5°	1511.4	1498.5	1584.3	1634.6	1631.9
20°	1498.5	1497.2	1602.6	1585.6	1544.1
22.5°	1484.2	1497.8	1588.3	1463.8	1382.1
25°	1467.9	1496.5	1525.1	1291.0	1185.5
27.5°	1451.6	1490.4	1410.0	1101.8	997.7
30°	1435.2	1474.0	1254.9	928.9	834.3
32.5°	1416.2	1438.6	1086.1	775.8	688.7
35°	1396.4	1374.0	926.2	637.7	554.6
37.5°	1376.0	1280.7	782.6	516.5	463.4
40°	1351.5	1163.7	650.6	443.0	457.3
42.5°	1320.9	1031.7	534.2	464.8	564.2
45°	1282.1	894.2	451.9	576.4	694.1
47.5°	1233.1	762.2	431.5	660.1	696.9
50°	1173.9	641.1	474.3	632.9	630.2
52.5°	1084.1	540.3	517.9	577.1	598.9
55°	986.1	458.7	511.8	550.5	589.3
57.5°	862.2	403.6	469.6	545.1	590.0
60°	739.1	366.8	433.5	544.4	586.6
62.5°	602.9	333.5	415.1	531.5	556.7
65°	475.7	297.4	398.8	484.5	496.1
67.5°	364.8	260.6	370.2	432.1	455.3
70°	274.9	224.6	325.3	392.0	420.6
72.5°	198.0	190.5	279.0	356.6	386.5
75°	140.2	158.6	238.9	316.4	337.5
77.5°	96.6	129.3	204.8	272.2	289.2
80°	63.3	103.4	174.2	234.1	245.7
82.5°	38.1	83.0	151.1	204.8	211.0
85°	19.7	67.4	135.4	184.4	187.1
87.5°	6.1	56.5	126.6	174.9	178.3
90°	0.7	50.4	121.1	143.6	132.7
92.5°	0.0	47.6	104.8	98.0	87.8
95°	0.0	47.0	83.7	74.2	70.1
97.5°	0.0	45.6	68.7	61.9	59.9
100°	0.0	44.2	59.2	54.4	53.8
102.5°	0.0	43.6	53.8	49.7	49.0
105°	0.0	42.2	51.7	47.0	46.3
107.5°	0.0	40.2	50.4	45.6	44.2
110°	0.0	38.1	50.4	44.9	42.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	36.1	50.4	44.2	42.2
115°	0.0	34.7	49.7	44.2	42.2
117.5°	0.7	33.3	49.0	44.2	42.2
120°	0.0	32.0	47.6	44.2	41.5
122.5°	0.7	29.9	46.3	43.6	41.5
125°	0.7	27.9	44.2	42.9	40.8
127.5°	0.7	25.9	42.2	41.5	39.5
130°	0.7	23.8	40.2	40.8	38.8
132.5°	0.7	21.8	37.4	39.5	38.1
135°	0.7	19.7	35.4	38.8	37.4
137.5°	0.7	17.7	32.7	36.7	36.7
140°	0.7	15.7	29.9	35.4	36.1
142.5°	0.7	14.3	27.2	34.0	34.7
145°	0.7	12.2	24.5	31.3	33.3
147.5°	0.7	10.9	21.8	28.6	31.3
150°	0.7	9.5	19.1	25.9	28.6
152.5°	0.7	8.2	17.0	22.5	26.5
155°	1.4	7.5	15.0	19.7	23.8
157.5°	1.4	6.1	12.2	17.0	20.4
160°	1.4	5.4	10.9	14.3	18.4
162.5°	1.4	4.8	8.8	12.2	15.7
165°	1.4	4.1	7.5	9.5	12.9
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)