

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-L950-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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

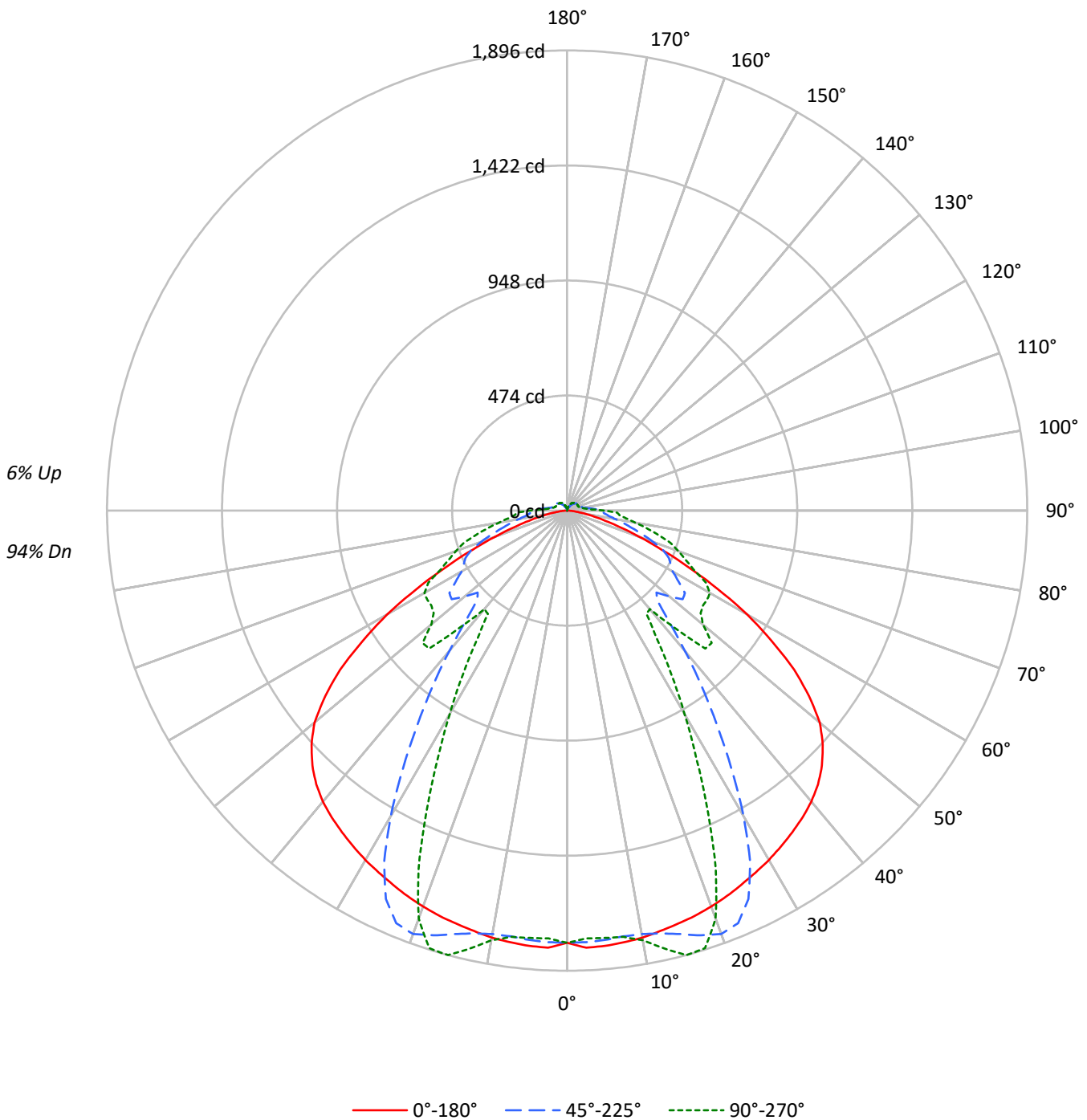
Lumens per Lamp: N/A
Luminaire Lumens: 4574.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	14389	14389	14389
5°	14564	14052	13880
10°	14582	13838	13832
15°	14623	14033	14416
20°	14759	14451	13532
25°	14942	13888	10419
30°	15237	11632	7411
35°	15615	8810	5018
40°	16091	6404	4249
45°	16457	4646	6681
50°	16480	5144	6340
55°	15403	5920	6261
60°	13124	5417	6655
65°	9874	5463	6087
70°	6928	4974	5666
75°	4541	4167	5085
80°	2898	3570	4233
85°	1564	3394	3800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	3.7
10°-20°	511.6	11.2
20°-30°	743.2	16.2
30°-40°	710.1	15.5
40°-50°	649.5	14.2
50°-60°	599.7	13.1
60°-70°	476.4	10.4
70°-80°	294.0	6.4
80°-90°	160.1	3.5
90°-100°	80.9	1.8
100°-110°	50.8	1.1
110°-120°	43.1	0.9
120°-130°	35.2	0.8
130°-140°	25.2	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°	1424.1	31.1
0°-40°	2134.2	46.7
0°-60°	3383.4	74.0
0°-90°	4313.9	94.3
90°-120°	174.8	3.8
90°-150°	250.8	5.5
90°-180°	260.0	5.7
0°-180°	4574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1781	1781	1781	1781	1781	
5°	1800	1773	1776	1766	1767	171
15°	1762	1739	1807	1874	1896	499
25°	1700	1733	1766	1495	1373	786
35°	1618	1591	1073	739	642	1014
45°	1485	1036	523	668	804	1141
55°	1142	531	593	638	683	1006
65°	551	344	462	561	575	557
75°	162	184	277	366	391	184
85°	23	78	157	214	217	29
90°	1	58	140	166	154	1
95°	0	54	97	86	81	0
105°	0	49	60	54	54	0
115°	0	40	58	51	49	0
125°	1	32	51	50	47	1
135°	1	23	41	45	43	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°	1780.6	1780.6	1780.6	1780.6	1780.6
2.5°	1802.7	1776.7	1779.8	1774.3	1764.8
5°	1800.3	1772.7	1775.9	1766.4	1767.2
7.5°	1794.0	1765.6	1769.6	1768.0	1771.9
10°	1786.9	1757.0	1771.9	1785.3	1797.2
12.5°	1774.3	1747.5	1783.8	1823.2	1847.6
15°	1762.5	1738.8	1806.6	1873.6	1896.5
17.5°	1750.7	1735.7	1835.0	1893.3	1890.2
20°	1735.7	1734.1	1856.3	1836.6	1788.5
22.5°	1719.1	1734.9	1839.7	1695.5	1600.9
25°	1700.2	1733.3	1766.4	1495.3	1373.1
27.5°	1681.3	1726.2	1633.2	1276.1	1155.5
30°	1662.4	1707.3	1453.5	1075.9	966.4
32.5°	1640.3	1666.3	1258.0	898.6	797.7
35°	1617.5	1591.4	1072.8	738.6	642.4
37.5°	1593.8	1483.5	906.5	598.3	536.8
40°	1565.4	1347.9	753.5	513.1	529.7
42.5°	1530.0	1195.0	618.8	538.4	653.4
45°	1485.0	1035.7	523.4	667.6	804.0
47.5°	1428.3	882.8	499.7	764.6	807.1
50°	1359.7	742.5	549.4	733.1	729.9
52.5°	1255.7	625.9	599.8	668.4	693.6
55°	1142.1	531.3	592.7	637.7	682.6
57.5°	998.7	467.4	543.9	631.4	683.4
60°	856.0	424.9	502.1	630.6	679.5
62.5°	698.4	386.2	480.8	615.6	644.8
65°	551.0	344.5	461.9	561.2	574.6
67.5°	422.5	301.9	428.8	500.5	527.3
70°	318.4	260.1	376.8	454.0	487.1
72.5°	229.4	220.7	323.2	413.0	447.7
75°	162.4	183.7	276.7	366.5	391.0
77.5°	111.9	149.8	237.3	315.3	335.0
80°	73.3	119.8	201.8	271.2	284.6
82.5°	44.1	96.2	175.0	237.3	244.4
85°	22.9	78.0	156.9	213.6	216.8
87.5°	7.1	65.4	146.6	202.6	206.5
90°	0.8	58.3	140.3	166.3	153.7
92.5°	0.0	55.2	121.4	113.5	101.7
95°	0.0	54.4	97.0	85.9	81.2
97.5°	0.0	52.8	79.6	71.7	69.4
100°	0.0	51.2	68.6	63.1	62.3
102.5°	0.0	50.4	62.3	57.5	56.8
105°	0.0	48.9	59.9	54.4	53.6
107.5°	0.0	46.5	58.3	52.8	51.2
110°	0.0	44.1	58.3	52.0	49.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	41.8	58.3	51.2	48.9
115°	0.0	40.2	57.5	51.2	48.9
117.5°	0.8	38.6	56.8	51.2	48.9
120°	0.0	37.0	55.2	51.2	48.1
122.5°	0.8	34.7	53.6	50.4	48.1
125°	0.8	32.3	51.2	49.7	47.3
127.5°	0.8	30.0	48.9	48.1	45.7
130°	0.8	27.6	46.5	47.3	44.9
132.5°	0.8	25.2	43.4	45.7	44.1
135°	0.8	22.9	41.0	44.9	43.4
137.5°	0.8	20.5	37.8	42.6	42.6
140°	0.8	18.1	34.7	41.0	41.8
142.5°	0.8	16.6	31.5	39.4	40.2
145°	0.8	14.2	28.4	36.3	38.6
147.5°	0.8	12.6	25.2	33.1	36.3
150°	0.8	11.0	22.1	30.0	33.1
152.5°	0.8	9.5	19.7	26.0	30.7
155°	1.6	8.7	17.3	22.9	27.6
157.5°	1.6	7.1	14.2	19.7	23.6
160°	1.6	6.3	12.6	16.6	21.3
162.5°	1.6	5.5	10.2	14.2	18.1
165°	1.6	4.7	8.7	11.0	15.0
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)