

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-LD5-46SL-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-LD5-46SL-SLC-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

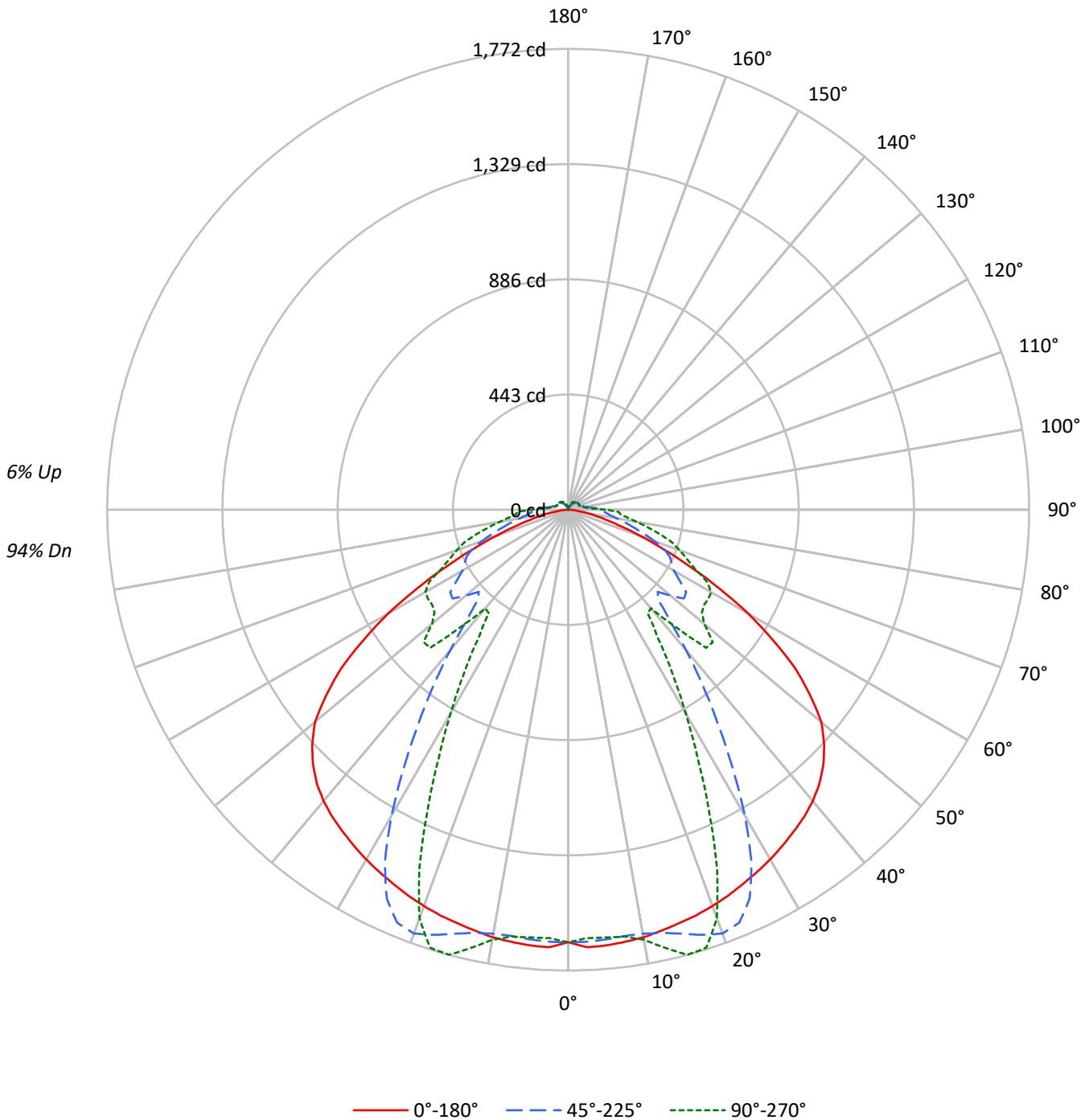
Lumens per Lamp: N/A
Luminaire Lumens: 4273.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 35
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				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°	13442	13442	13442
5°	13605	13127	12966
10°	13623	12927	12921
15°	13660	13109	13468
20°	13787	13500	12641
25°	13959	12974	9733
30°	14234	10866	6924
35°	14587	8230	4688
40°	15033	5983	3969
45°	15374	4340	6241
50°	15395	4805	5923
55°	14391	5530	5849
60°	12261	5061	6216
65°	9224	5104	5687
70°	6473	4646	5293
75°	4242	3893	4749
80°	2708	3335	3953
85°	1462	3169	3549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	3.7
10°-20°	477.9	11.2
20°-30°	694.3	16.2
30°-40°	663.3	15.5
40°-50°	606.8	14.2
50°-60°	560.2	13.1
60°-70°	445.0	10.4
70°-80°	274.7	6.4
80°-90°	149.6	3.5
90°-100°	75.6	1.8
100°-110°	47.5	1.1
110°-120°	40.3	0.9
120°-130°	32.9	0.8
130°-140°	23.6	0.6
140°-150°	14.5	0.3
150°-160°	6.9	0.2
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	1330.4	31.1
0°-40°	1993.7	46.7
0°-60°	3160.7	74.0
0°-90°	4030.0	94.3
90°-120°	163.4	3.8
90°-150°	234.3	5.5
90°-180°	243.0	5.7
0°-180°	4273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1663	1663	1663	1663	1663	
5°	1682	1656	1659	1650	1651	160
15°	1646	1624	1688	1750	1772	466
25°	1588	1619	1650	1397	1283	734
35°	1511	1487	1002	690	600	947
45°	1387	968	489	624	751	1066
55°	1067	496	554	596	638	940
65°	515	322	432	524	537	520
75°	152	172	258	342	365	172
85°	21	73	146	200	202	27
90°	1	54	131	155	144	1
95°	0	51	91	80	76	0
105°	0	46	56	51	50	0
115°	0	38	54	48	46	0
125°	1	30	48	46	44	1
135°	1	21	38	42	40	1
145°	1	13	26	34	36	0
155°	2	8	16	21	26	1
165°	2	4	8	10	14	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°	1663.4	1663.4	1663.4	1663.4	1663.4
2.5°	1684.1	1659.8	1662.7	1657.5	1648.7
5°	1681.8	1656.1	1659.0	1650.2	1650.9
7.5°	1676.0	1649.4	1653.1	1651.7	1655.3
10°	1669.3	1641.3	1655.3	1667.9	1678.9
12.5°	1657.5	1632.5	1666.4	1703.2	1726.0
15°	1646.5	1624.4	1687.7	1750.3	1771.7
17.5°	1635.5	1621.5	1714.2	1768.7	1765.8
20°	1621.5	1620.0	1734.1	1715.7	1670.8
22.5°	1606.0	1620.7	1718.7	1583.9	1495.5
25°	1588.3	1619.3	1650.2	1396.9	1282.7
27.5°	1570.7	1612.6	1525.7	1192.2	1079.5
30°	1553.0	1595.0	1357.8	1005.1	902.8
32.5°	1532.4	1556.7	1175.2	839.5	745.2
35°	1511.0	1486.7	1002.2	690.0	600.1
37.5°	1488.9	1385.8	846.8	558.9	501.5
40°	1462.4	1259.2	704.0	479.4	494.8
42.5°	1429.3	1116.3	578.0	502.9	610.4
45°	1387.3	967.6	488.9	623.7	751.1
47.5°	1334.3	824.7	466.9	714.3	754.0
50°	1270.2	693.7	513.2	684.8	681.9
52.5°	1173.0	584.7	560.4	624.4	648.0
55°	1067.0	496.3	553.7	595.7	637.7
57.5°	933.0	436.7	508.1	589.8	638.4
60°	799.7	396.9	469.1	589.1	634.7
62.5°	652.4	360.8	449.2	575.1	602.3
65°	514.7	321.8	431.5	524.3	536.8
67.5°	394.7	282.0	400.6	467.6	492.6
70°	297.5	243.0	352.0	424.1	455.1
72.5°	214.3	206.2	301.9	385.9	418.3
75°	151.7	171.6	258.5	342.4	365.2
77.5°	104.6	139.9	221.6	294.5	313.0
80°	68.5	111.9	188.5	253.3	265.8
82.5°	41.2	89.8	163.5	221.6	228.3
85°	21.4	72.9	146.5	199.6	202.5
87.5°	6.6	61.1	137.0	189.2	192.9
90°	0.7	54.5	131.1	155.4	143.6
92.5°	0.0	51.5	113.4	106.0	95.0
95°	0.0	50.8	90.6	80.3	75.8
97.5°	0.0	49.3	74.4	67.0	64.8
100°	0.0	47.9	64.1	58.9	58.2
102.5°	0.0	47.1	58.2	53.8	53.0
105°	0.0	45.7	56.0	50.8	50.1
107.5°	0.0	43.4	54.5	49.3	47.9
110°	0.0	41.2	54.5	48.6	46.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	39.0	54.5	47.9	45.7
115°	0.0	37.6	53.8	47.9	45.7
117.5°	0.7	36.1	53.0	47.9	45.7
120°	0.0	34.6	51.5	47.9	44.9
122.5°	0.7	32.4	50.1	47.1	44.9
125°	0.7	30.2	47.9	46.4	44.2
127.5°	0.7	28.0	45.7	44.9	42.7
130°	0.7	25.8	43.4	44.2	42.0
132.5°	0.7	23.6	40.5	42.7	41.2
135°	0.7	21.4	38.3	42.0	40.5
137.5°	0.7	19.1	35.3	39.8	39.8
140°	0.7	16.9	32.4	38.3	39.0
142.5°	0.7	15.5	29.5	36.8	37.6
145°	0.7	13.3	26.5	33.9	36.1
147.5°	0.7	11.8	23.6	30.9	33.9
150°	0.7	10.3	20.6	28.0	30.9
152.5°	0.7	8.8	18.4	24.3	28.7
155°	1.5	8.1	16.2	21.4	25.8
157.5°	1.5	6.6	13.3	18.4	22.1
160°	1.5	5.9	11.8	15.5	19.9
162.5°	1.5	5.2	9.6	13.3	16.9
165°	1.5	4.4	8.1	10.3	14.0
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)