

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-L830-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-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

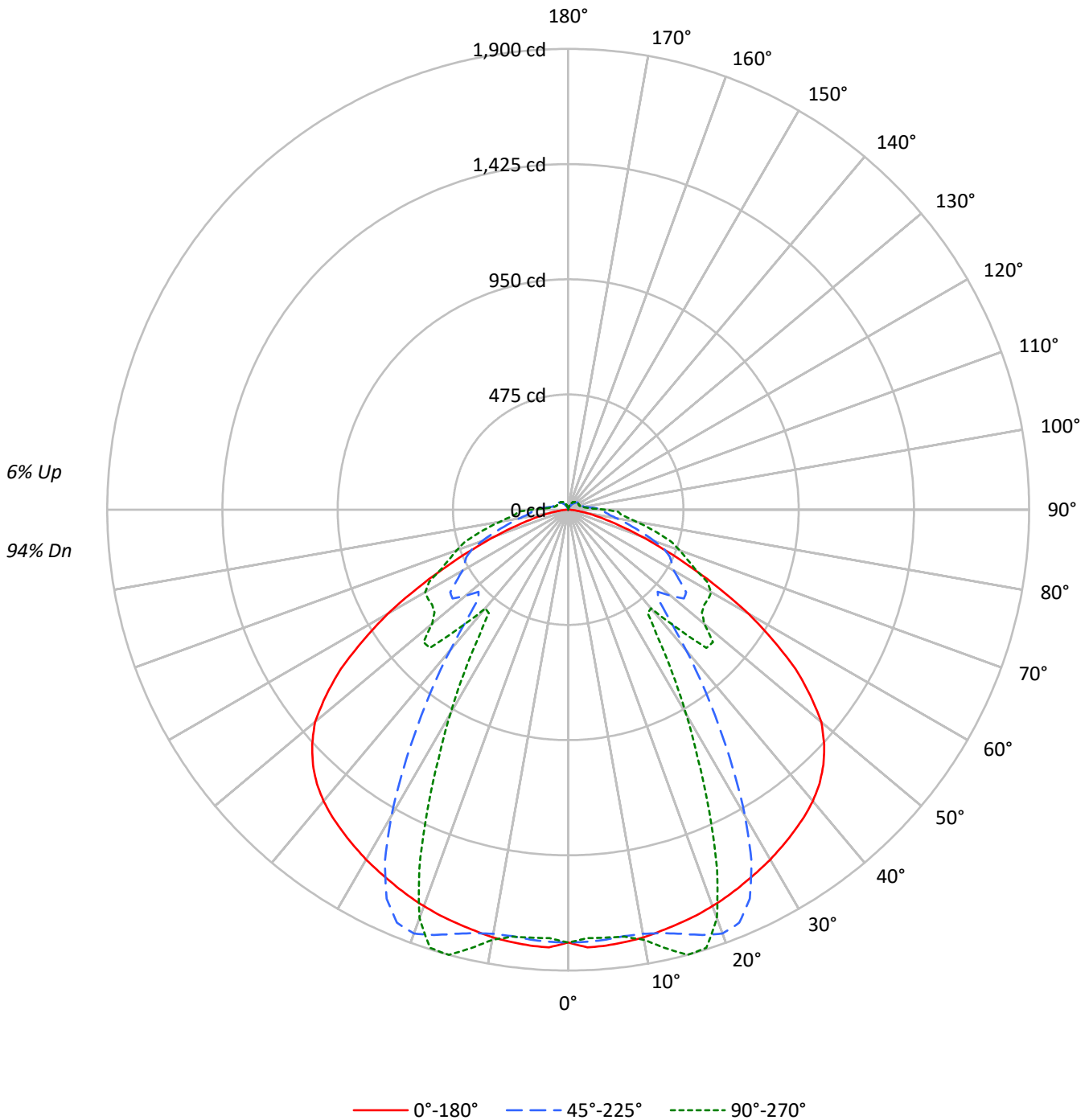
Lumens per Lamp: N/A
Luminaire Lumens: 4583.0 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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	64	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°	14417	14417	14417
5°	14593	14080	13907
10°	14611	13865	13859
15°	14652	14061	14444
20°	14787	14479	13558
25°	14972	13915	10440
30°	15267	11655	7426
35°	15645	8827	5028
40°	16123	6416	4257
45°	16489	4655	6694
50°	16513	5155	6352
55°	15434	5932	6274
60°	13150	5428	6668
65°	9894	5474	6100
70°	6943	4983	5677
75°	4549	4175	5094
80°	2902	3577	4240
85°	1564	3400	3807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	3.7
10°-20°	512.6	11.2
20°-30°	744.6	16.2
30°-40°	711.4	15.5
40°-50°	650.8	14.2
50°-60°	600.9	13.1
60°-70°	477.3	10.4
70°-80°	294.6	6.4
80°-90°	160.4	3.5
90°-100°	81.1	1.8
100°-110°	50.9	1.1
110°-120°	43.2	0.9
120°-130°	35.3	0.8
130°-140°	25.3	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°	1426.9	31.1
0°-40°	2138.4	46.7
0°-60°	3390.0	74.0
0°-90°	4322.3	94.3
90°-120°	175.2	3.8
90°-150°	251.3	5.5
90°-180°	261.0	5.7
0°-180°	4583.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1804	1776	1779	1770	1771	172
15°	1766	1742	1810	1877	1900	500
25°	1704	1737	1770	1498	1376	787
35°	1621	1595	1075	740	644	1016
45°	1488	1038	524	669	806	1144
55°	1144	532	594	639	684	1008
65°	552	345	463	562	576	558
75°	163	184	277	367	392	184
85°	23	78	157	214	217	29
90°	1	58	141	167	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°	1784.1	1784.1	1784.1	1784.1	1784.1
2.5°	1806.2	1780.2	1783.3	1777.8	1768.3
5°	1803.9	1776.2	1779.4	1769.9	1770.7
7.5°	1797.5	1769.1	1773.1	1771.5	1775.4
10°	1790.4	1760.4	1775.4	1788.9	1800.7
12.5°	1777.8	1750.9	1787.3	1826.8	1851.2
15°	1766.0	1742.3	1810.2	1877.3	1900.2
17.5°	1754.1	1739.1	1838.6	1897.1	1893.9
20°	1739.1	1737.5	1859.9	1840.2	1792.0
22.5°	1722.5	1738.3	1843.4	1698.8	1604.0
25°	1703.6	1736.7	1769.9	1498.2	1375.8
27.5°	1684.6	1729.6	1636.4	1278.7	1157.8
30°	1665.7	1710.7	1456.4	1078.1	968.3
32.5°	1643.5	1669.6	1260.5	900.4	799.3
35°	1620.6	1594.6	1074.9	740.0	643.7
37.5°	1596.9	1486.4	908.2	599.4	537.8
40°	1568.5	1350.5	755.0	514.1	530.7
42.5°	1533.0	1197.3	620.0	539.4	654.7
45°	1487.9	1037.8	524.4	668.9	805.6
47.5°	1431.1	884.6	500.7	766.1	808.7
50°	1362.4	744.0	550.5	734.5	731.3
52.5°	1258.1	627.1	601.0	669.7	695.0
55°	1144.4	532.3	593.9	638.9	684.0
57.5°	1000.7	468.3	544.9	632.6	684.7
60°	857.7	425.7	503.1	631.8	680.8
62.5°	699.7	387.0	481.8	616.8	646.0
65°	552.1	345.1	462.8	562.3	575.8
67.5°	423.3	302.5	429.6	501.5	528.4
70°	319.1	260.6	377.5	454.9	488.1
72.5°	229.8	221.1	323.8	413.8	448.6
75°	162.7	184.0	277.2	367.2	391.7
77.5°	112.1	150.1	237.7	315.9	335.7
80°	73.4	120.0	202.2	271.7	285.1
82.5°	44.2	96.4	175.3	237.7	244.8
85°	22.9	78.2	157.2	214.0	217.2
87.5°	7.1	65.6	146.9	203.0	206.9
90°	0.8	58.4	140.6	166.6	154.0
92.5°	0.0	55.3	121.6	113.7	101.9
95°	0.0	54.5	97.1	86.1	81.3
97.5°	0.0	52.9	79.8	71.9	69.5
100°	0.0	51.3	68.7	63.2	62.4
102.5°	0.0	50.5	62.4	57.7	56.9
105°	0.0	49.0	60.0	54.5	53.7
107.5°	0.0	46.6	58.4	52.9	51.3
110°	0.0	44.2	58.4	52.1	49.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	41.9	58.4	51.3	49.0
115°	0.0	40.3	57.7	51.3	49.0
117.5°	0.8	38.7	56.9	51.3	49.0
120°	0.0	37.1	55.3	51.3	48.2
122.5°	0.8	34.8	53.7	50.5	48.2
125°	0.8	32.4	51.3	49.8	47.4
127.5°	0.8	30.0	49.0	48.2	45.8
130°	0.8	27.6	46.6	47.4	45.0
132.5°	0.8	25.3	43.4	45.8	44.2
135°	0.8	22.9	41.1	45.0	43.4
137.5°	0.8	20.5	37.9	42.6	42.6
140°	0.8	18.2	34.8	41.1	41.9
142.5°	0.8	16.6	31.6	39.5	40.3
145°	0.8	14.2	28.4	36.3	38.7
147.5°	0.8	12.6	25.3	33.2	36.3
150°	0.8	11.1	22.1	30.0	33.2
152.5°	0.8	9.5	19.7	26.1	30.8
155°	1.6	8.7	17.4	22.9	27.6
157.5°	1.6	7.1	14.2	19.7	23.7
160°	1.6	6.3	12.6	16.6	21.3
162.5°	1.6	5.5	10.3	14.2	18.2
165°	1.6	4.7	8.7	11.1	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)