

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-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-LD5-46SL-SLN-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

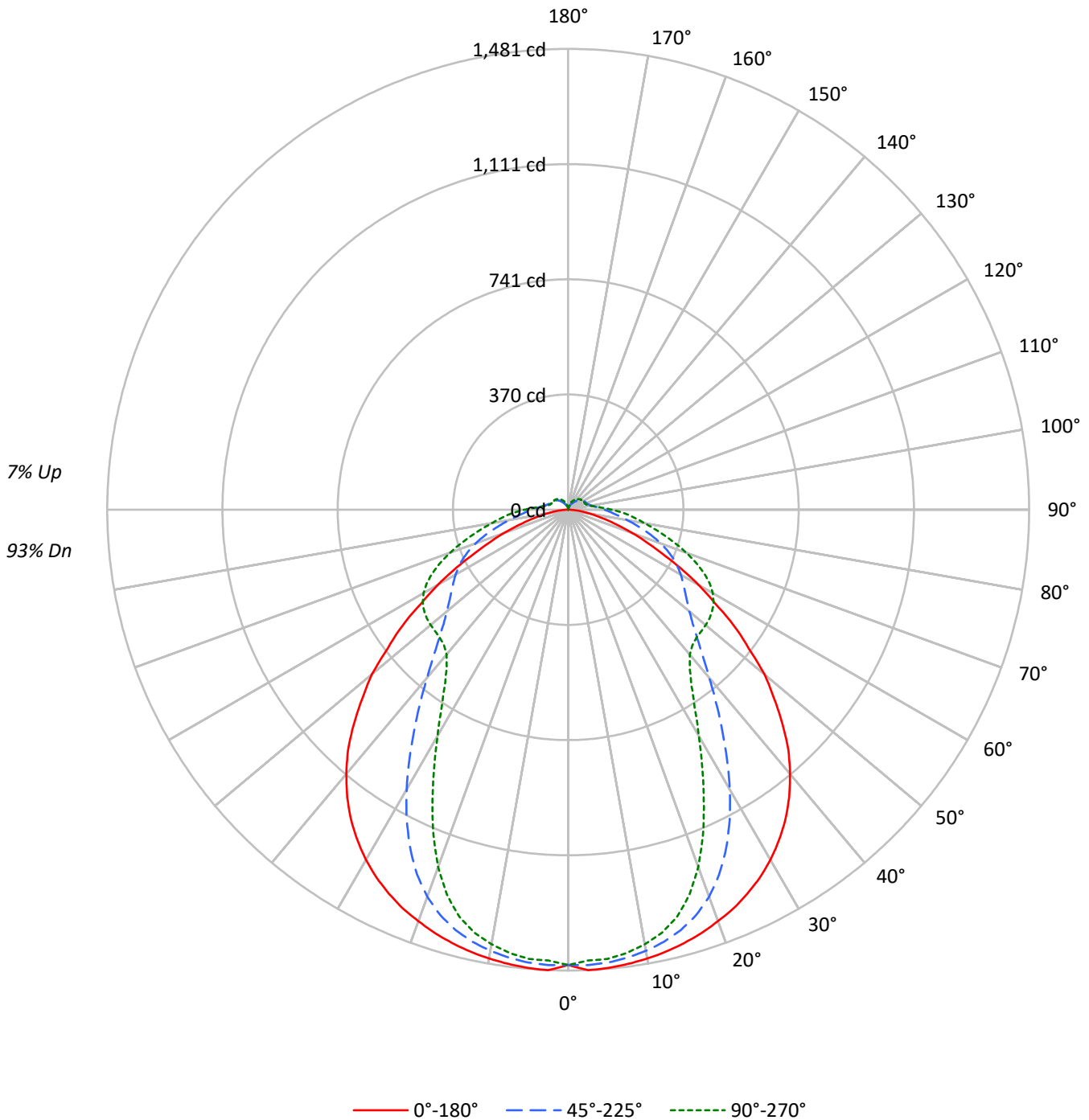
Lumens per Lamp: N/A
Luminaire Lumens: 3679.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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	
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°	11822	11822	11822
5°	11958	11561	11380
10°	11954	11241	10912
15°	11958	10865	10289
20°	11964	10305	9240
25°	11968	9443	7825
30°	11911	8308	6436
35°	11741	7069	5394
40°	11398	5986	4876
45°	10794	5203	4839
50°	9971	4757	5008
55°	8780	4572	5184
60°	7408	4507	5256
65°	5959	4407	5091
70°	4787	4179	4696
75°	3610	3782	4167
80°	2664	3397	3706
85°	1783	3204	3409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	3.8
10°-20°	391.2	10.6
20°-30°	546.9	14.9
30°-40°	567.2	15.4
40°-50°	524.0	14.2
50°-60°	467.9	12.7
60°-70°	379.2	10.3
70°-80°	252.2	6.9
80°-90°	144.4	3.9
90°-100°	79.9	2.2
100°-110°	54.1	1.5
110°-120°	45.0	1.2
120°-130°	36.6	1.0
130°-140°	26.4	0.7
140°-150°	15.9	0.4
150°-160°	7.7	0.2
160°-170°	2.0	0.1
170°-180°	0.0	0.0
0°-30°	1076.5	29.3
0°-40°	1643.7	44.7
0°-60°	2635.6	71.6
0°-90°	3411.3	92.7
90°-120°	179.1	4.9
90°-150°	258.0	7.0
90°-180°	268.0	7.3
0°-180°	3679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1478	1453	1461	1451	1449	141
15°	1441	1411	1399	1367	1354	407
25°	1362	1301	1201	1075	1031	628
35°	1216	1083	861	723	690	759
45°	974	772	586	565	582	749
55°	651	492	458	532	565	579
65°	332	298	373	456	481	336
75°	129	162	251	308	320	142
85°	26	75	148	190	194	30
90°	1	53	117	141	140	2
95°	1	44	93	99	96	1
105°	1	39	67	65	62	1
115°	1	35	59	58	57	1
125°	1	30	52	55	53	1
135°	1	22	41	48	48	1
145°	1	14	29	38	40	1
155°	1	9	18	24	29	1
165°	1	5	9	11	15	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.9	1462.9	1462.9	1462.9	1462.9
2.5°	1481.4	1457.2	1464.8	1458.5	1450.2
5°	1478.2	1453.4	1461.0	1450.8	1448.9
7.5°	1472.5	1447.7	1452.1	1440.0	1436.9
10°	1464.8	1438.8	1439.4	1422.2	1417.8
12.5°	1454.7	1426.0	1422.2	1398.7	1392.3
15°	1441.3	1410.8	1398.7	1366.9	1353.6
17.5°	1426.7	1391.1	1366.3	1317.3	1296.3
20°	1407.0	1366.9	1323.7	1249.3	1221.3
22.5°	1387.3	1337.7	1268.4	1169.2	1131.7
25°	1361.8	1301.4	1201.0	1075.1	1031.2
27.5°	1333.2	1258.8	1123.4	978.5	931.4
30°	1299.5	1207.3	1038.2	883.7	839.2
32.5°	1260.1	1149.5	948.6	798.5	757.2
35°	1216.2	1082.7	860.8	722.9	690.5
37.5°	1166.0	1009.6	779.5	661.8	640.9
40°	1108.8	930.1	704.4	614.8	607.8
42.5°	1047.1	852.6	640.2	584.3	590.6
45°	974.0	771.8	586.2	565.2	582.4
47.5°	897.1	693.0	542.3	554.4	579.2
50°	822.7	619.9	508.0	547.4	576.6
52.5°	730.5	554.4	480.6	541.0	572.8
55°	651.0	492.1	457.8	532.1	565.2
57.5°	559.5	436.1	437.4	520.7	553.8
60°	483.2	385.3	417.7	504.8	536.6
62.5°	405.6	339.5	396.1	483.8	512.4
65°	332.5	297.5	372.6	456.5	480.6
67.5°	271.5	259.4	345.9	423.4	443.8
70°	220.0	224.4	316.6	386.6	403.7
72.5°	169.1	192.0	284.8	347.1	361.8
75°	129.1	161.5	251.1	307.7	320.4
77.5°	95.4	134.8	220.6	272.1	282.9
80°	67.4	111.3	192.0	241.0	249.2
82.5°	45.1	91.6	168.5	213.0	220.6
85°	26.1	75.0	148.1	189.5	194.5
87.5°	10.8	62.3	131.6	165.3	167.8
90°	1.3	52.8	117.0	141.1	139.9
92.5°	1.3	47.7	104.3	118.3	115.1
95°	1.3	44.5	92.8	99.2	96.0
97.5°	1.3	42.6	82.7	85.2	82.0
100°	0.6	41.3	75.7	75.7	72.5
102.5°	0.6	40.1	70.6	68.7	66.1
105°	0.6	38.8	66.8	64.8	61.7
107.5°	0.6	38.1	64.2	62.3	59.1
110°	0.6	36.9	62.3	60.4	57.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	36.2	61.0	59.8	56.6
115°	0.6	35.0	59.1	58.5	56.6
117.5°	0.6	33.7	57.9	57.9	55.9
120°	0.6	32.4	55.9	57.2	55.3
122.5°	0.6	31.2	54.0	55.9	54.0
125°	0.6	29.9	52.1	54.7	53.4
127.5°	1.3	28.0	49.6	53.4	52.1
130°	0.6	26.1	47.0	52.1	51.5
132.5°	1.3	24.2	44.5	50.2	50.2
135°	1.3	22.3	41.3	48.3	48.3
137.5°	1.3	19.7	38.1	45.8	46.4
140°	1.3	17.8	35.0	43.2	44.5
142.5°	1.3	15.9	31.8	40.7	42.6
145°	1.3	14.0	28.6	37.5	40.1
147.5°	1.3	12.7	25.4	33.7	37.5
150°	1.3	10.8	22.9	30.5	34.3
152.5°	1.3	9.5	20.3	27.3	31.8
155°	1.3	8.9	17.8	23.5	28.6
157.5°	1.3	7.6	15.3	20.3	25.4
160°	1.3	6.4	12.7	17.8	21.6
162.5°	1.3	5.7	10.8	14.6	19.1
165°	1.3	5.1	8.9	11.4	15.3
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)