

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-L840-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-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

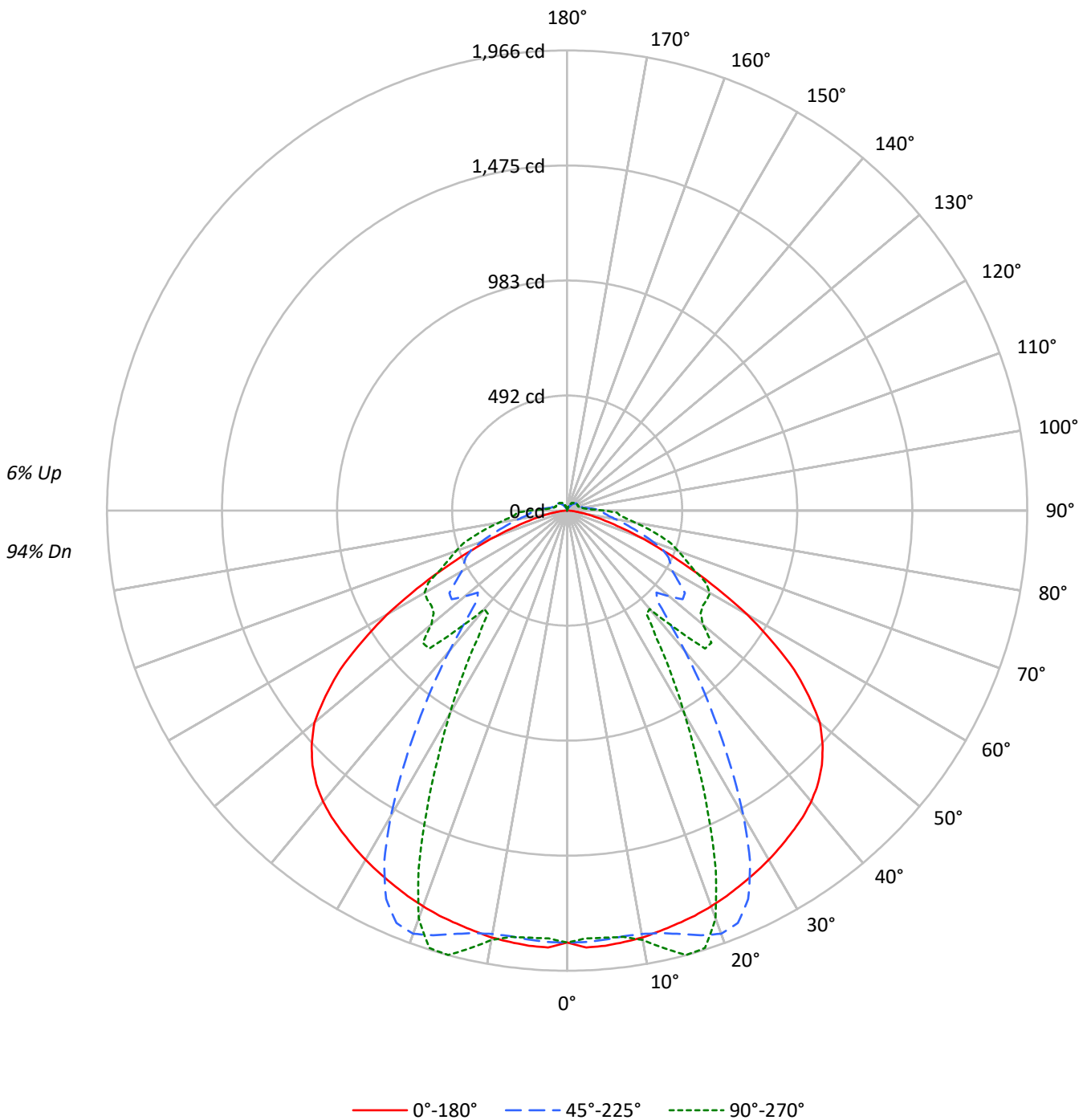
Lumens per Lamp: N/A
Luminaire Lumens: 4741.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): NR
Input Current (A_{in}): 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	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°	14914	14914	14914
5°	15096	14565	14386
10°	15115	14343	14337
15°	15156	14546	14942
20°	15298	14979	14026
25°	15488	14395	10799
30°	15794	12057	7682
35°	16185	9132	5202
40°	16679	6638	4404
45°	17057	4815	6925
50°	17081	5332	6572
55°	15966	6136	6489
60°	13604	5615	6898
65°	10234	5663	6310
70°	7183	5155	5873
75°	4706	4320	5269
80°	3004	3701	4386
85°	1619	3517	3938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	3.7
10°-20°	530.3	11.2
20°-30°	770.3	16.2
30°-40°	736.0	15.5
40°-50°	673.2	14.2
50°-60°	621.6	13.1
60°-70°	493.8	10.4
70°-80°	304.8	6.4
80°-90°	166.0	3.5
90°-100°	83.9	1.8
100°-110°	52.7	1.1
110°-120°	44.6	0.9
120°-130°	36.5	0.8
130°-140°	26.2	0.6
140°-150°	16.1	0.3
150°-160°	7.7	0.2
160°-170°	2.0	0.0
170°-180°	0.0	0.0
0°-30°	1476.1	31.1
0°-40°	2212.1	46.7
0°-60°	3506.9	74.0
0°-90°	4471.4	94.3
90°-120°	181.2	3.8
90°-150°	260.0	5.5
90°-180°	270.0	5.7
0°-180°	4741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1846	1846	1846	1846	1846	
5°	1866	1838	1841	1831	1832	178
15°	1827	1802	1873	1942	1966	517
25°	1762	1797	1831	1550	1423	815
35°	1676	1650	1112	766	666	1051
45°	1539	1074	542	692	833	1183
55°	1184	551	614	661	708	1043
65°	571	357	479	582	596	578
75°	168	190	287	380	405	191
85°	24	81	163	221	225	30
90°	1	60	145	172	159	1
95°	0	56	100	89	84	0
105°	0	51	62	56	56	0
115°	0	42	60	53	51	0
125°	1	34	53	52	49	1
135°	1	24	42	47	45	1
145°	1	15	29	38	40	1
155°	2	9	18	24	29	1
165°	2	5	9	11	16	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°	1845.6	1845.6	1845.6	1845.6	1845.6
2.5°	1868.5	1841.5	1844.8	1839.1	1829.3
5°	1866.1	1837.5	1840.7	1830.9	1831.7
7.5°	1859.5	1830.1	1834.2	1832.6	1836.6
10°	1852.2	1821.1	1836.6	1850.5	1862.8
12.5°	1839.1	1811.3	1848.9	1889.7	1915.1
15°	1826.8	1802.3	1872.6	1942.0	1965.7
17.5°	1814.6	1799.1	1902.0	1962.5	1959.2
20°	1799.1	1797.4	1924.1	1903.6	1853.8
22.5°	1781.9	1798.2	1906.9	1757.4	1659.3
25°	1762.3	1796.6	1830.9	1549.9	1423.2
27.5°	1742.7	1789.3	1692.8	1322.7	1197.7
30°	1723.1	1769.6	1506.6	1115.2	1001.7
32.5°	1700.2	1727.2	1303.9	931.4	826.8
35°	1676.5	1649.5	1112.0	765.5	665.9
37.5°	1652.0	1537.6	939.6	620.1	556.4
40°	1622.6	1397.1	781.1	531.9	549.0
42.5°	1585.8	1238.6	641.4	558.0	677.3
45°	1539.2	1073.6	542.5	692.0	833.4
47.5°	1480.4	915.1	518.0	792.5	836.6
50°	1409.3	769.6	569.5	759.8	756.6
52.5°	1301.5	648.7	621.7	692.8	719.0
55°	1183.8	550.7	614.4	661.0	707.5
57.5°	1035.2	484.5	563.7	654.4	708.3
60°	887.3	440.4	520.4	653.6	704.3
62.5°	723.9	400.3	498.4	638.1	668.3
65°	571.1	357.0	478.8	581.7	595.6
67.5°	437.9	312.9	444.5	518.8	546.6
70°	330.1	269.6	390.5	470.6	504.9
72.5°	237.7	228.8	335.0	428.1	464.1
75°	168.3	190.4	286.8	379.9	405.2
77.5°	116.0	155.2	245.9	326.8	347.2
80°	76.0	124.2	209.2	281.1	294.9
82.5°	45.8	99.7	181.4	245.9	253.3
85°	23.7	80.9	162.6	221.4	224.7
87.5°	7.4	67.8	152.0	210.0	214.1
90°	0.8	60.5	145.4	172.4	159.3
92.5°	0.0	57.2	125.8	117.6	105.4
95°	0.0	56.4	100.5	89.1	84.2
97.5°	0.0	54.7	82.5	74.3	71.9
100°	0.0	53.1	71.1	65.4	64.5
102.5°	0.0	52.3	64.5	59.6	58.8
105°	0.0	50.7	62.1	56.4	55.6
107.5°	0.0	48.2	60.5	54.7	53.1
110°	0.0	45.8	60.5	53.9	51.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	43.3	60.5	53.1	50.7
115°	0.0	41.7	59.6	53.1	50.7
117.5°	0.8	40.0	58.8	53.1	50.7
120°	0.0	38.4	57.2	53.1	49.8
122.5°	0.8	35.9	55.6	52.3	49.8
125°	0.8	33.5	53.1	51.5	49.0
127.5°	0.8	31.0	50.7	49.8	47.4
130°	0.8	28.6	48.2	49.0	46.6
132.5°	0.8	26.1	44.9	47.4	45.8
135°	0.8	23.7	42.5	46.6	44.9
137.5°	0.8	21.2	39.2	44.1	44.1
140°	0.8	18.8	35.9	42.5	43.3
142.5°	0.8	17.2	32.7	40.9	41.7
145°	0.8	14.7	29.4	37.6	40.0
147.5°	0.8	13.1	26.1	34.3	37.6
150°	0.8	11.4	22.9	31.0	34.3
152.5°	0.8	9.8	20.4	27.0	31.9
155°	1.6	9.0	18.0	23.7	28.6
157.5°	1.6	7.4	14.7	20.4	24.5
160°	1.6	6.5	13.1	17.2	22.1
162.5°	1.6	5.7	10.6	14.7	18.8
165°	1.6	4.9	9.0	11.4	15.5
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)