

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-LD5-60HL-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-60HL-SLC-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

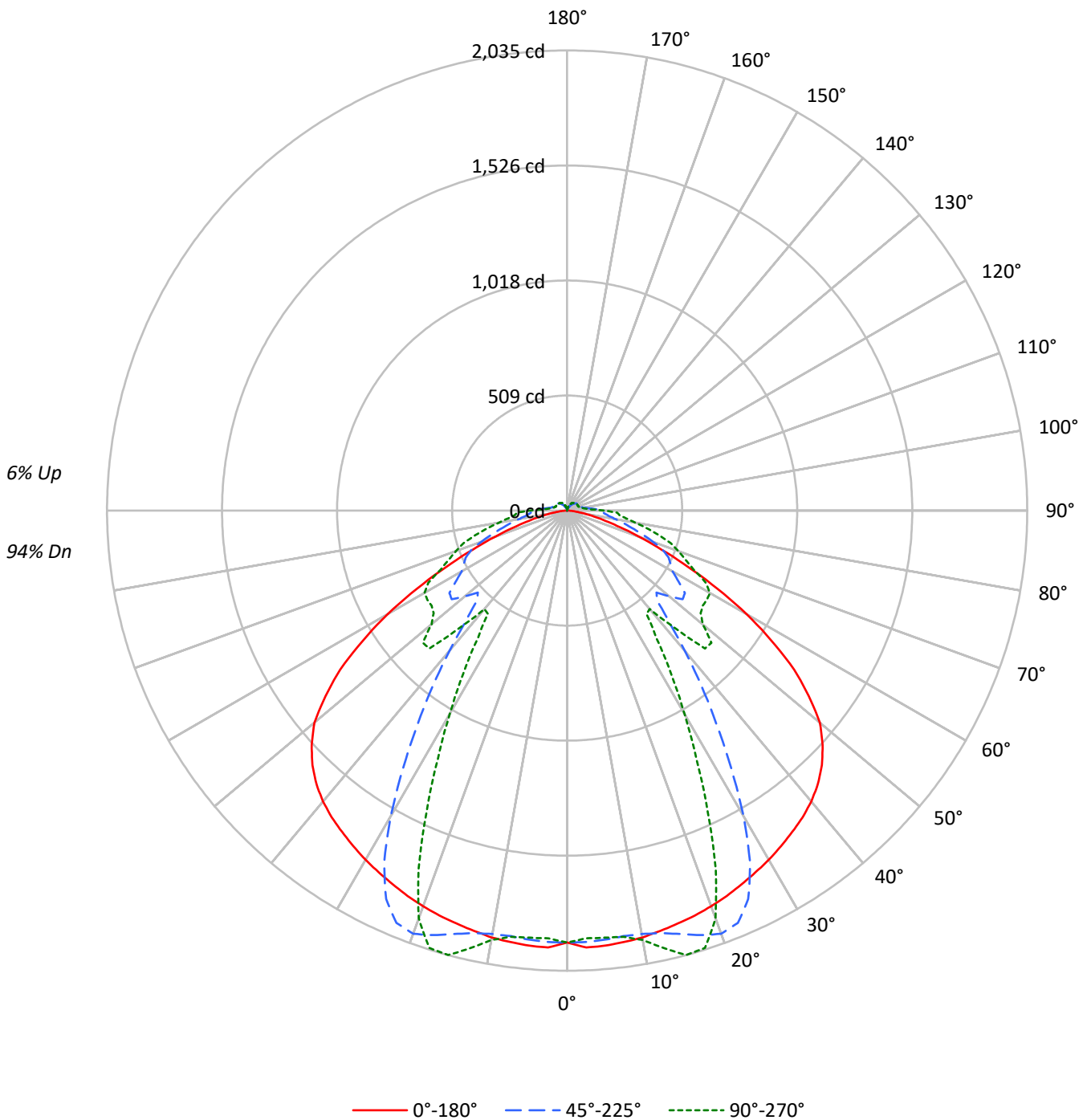
Lumens per Lamp: N/A
Luminaire Lumens: 4907.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 43
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	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°	15436	15436	15436
5°	15625	15076	14890
10°	15644	14846	14838
15°	15687	15055	15466
20°	15832	15503	14517
25°	16030	14899	11178
30°	16346	12479	7951
35°	16751	9451	5384
40°	17263	6870	4559
45°	17655	4984	7167
50°	17680	5519	6801
55°	16526	6351	6717
60°	14080	5812	7139
65°	10593	5861	6531
70°	7433	5335	6079
75°	4871	4470	5454
80°	3107	3830	4541
85°	1674	3640	4075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.7	3.7
10°-20°	548.8	11.2
20°-30°	797.3	16.2
30°-40°	761.7	15.5
40°-50°	696.8	14.2
50°-60°	643.4	13.1
60°-70°	511.0	10.4
70°-80°	315.4	6.4
80°-90°	171.8	3.5
90°-100°	86.8	1.8
100°-110°	54.6	1.1
110°-120°	46.2	0.9
120°-130°	37.7	0.8
130°-140°	27.1	0.6
140°-150°	16.7	0.3
150°-160°	7.9	0.2
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	1527.8	31.1
0°-40°	2289.6	46.7
0°-60°	3629.7	74.0
0°-90°	4627.9	94.3
90°-120°	187.6	3.8
90°-150°	269.1	5.5
90°-180°	279.0	5.7
0°-180°	4907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1931	1902	1905	1895	1896	184
15°	1891	1865	1938	2010	2035	535
25°	1824	1860	1895	1604	1473	843
35°	1735	1707	1151	792	689	1088
45°	1593	1111	562	716	862	1224
55°	1225	570	636	684	732	1079
65°	591	370	496	602	616	598
75°	174	197	297	393	419	197
85°	24	84	168	229	232	31
90°	1	63	150	178	165	1
95°	0	58	104	92	87	0
105°	0	52	64	58	58	0
115°	0	43	62	55	52	0
125°	1	35	55	53	51	1
135°	1	24	44	48	46	1
145°	1	15	30	39	41	1
155°	2	9	19	24	30	1
165°	2	5	9	12	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°	1910.2	1910.2	1910.2	1910.2	1910.2
2.5°	1933.9	1906.0	1909.4	1903.5	1893.3
5°	1931.4	1901.8	1905.2	1895.0	1895.9
7.5°	1924.6	1894.2	1898.4	1896.7	1900.9
10°	1917.0	1884.9	1900.9	1915.3	1928.0
12.5°	1903.5	1874.7	1913.6	1955.9	1982.1
15°	1890.8	1865.4	1938.2	2010.0	2034.6
17.5°	1878.1	1862.0	1968.6	2031.2	2027.8
20°	1862.0	1860.4	1991.4	1970.3	1918.7
22.5°	1844.3	1861.2	1973.7	1818.9	1717.4
25°	1824.0	1859.5	1895.0	1604.1	1473.1
27.5°	1803.7	1851.9	1752.1	1369.1	1239.7
30°	1783.4	1831.6	1559.3	1154.3	1036.7
32.5°	1759.7	1787.6	1349.6	964.0	855.8
35°	1735.2	1707.3	1150.9	792.3	689.2
37.5°	1709.8	1591.5	972.5	641.8	575.9
40°	1679.4	1446.0	808.4	550.5	568.3
42.5°	1641.3	1282.0	663.8	577.6	701.0
45°	1593.1	1111.1	561.5	716.2	862.5
47.5°	1532.3	947.1	536.1	820.2	865.9
50°	1458.7	796.6	589.4	786.4	783.0
52.5°	1347.1	671.4	643.5	717.1	744.1
55°	1225.3	569.9	635.9	684.1	732.3
57.5°	1071.4	501.5	583.5	677.3	733.1
60°	918.3	455.8	538.7	676.5	728.9
62.5°	749.2	414.4	515.8	660.4	691.7
65°	591.1	369.5	495.5	602.1	616.5
67.5°	453.3	323.9	460.0	537.0	565.7
70°	341.6	279.1	404.2	487.1	522.6
72.5°	246.1	236.8	346.7	443.1	480.3
75°	174.2	197.0	296.8	393.2	419.4
77.5°	120.1	160.7	254.5	338.2	359.4
80°	78.6	128.5	216.5	290.9	305.3
82.5°	47.4	103.2	187.7	254.5	262.1
85°	24.5	83.7	168.3	229.2	232.5
87.5°	7.6	70.2	157.3	217.3	221.6
90°	0.8	62.6	150.5	178.4	164.9
92.5°	0.0	59.2	130.2	121.8	109.1
95°	0.0	58.3	104.0	92.2	87.1
97.5°	0.0	56.7	85.4	77.0	74.4
100°	0.0	55.0	73.6	67.6	66.8
102.5°	0.0	54.1	66.8	61.7	60.9
105°	0.0	52.4	64.3	58.3	57.5
107.5°	0.0	49.9	62.6	56.7	55.0
110°	0.0	47.4	62.6	55.8	53.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	44.8	62.6	55.0	52.4
115°	0.0	43.1	61.7	55.0	52.4
117.5°	0.8	41.4	60.9	55.0	52.4
120°	0.0	39.7	59.2	55.0	51.6
122.5°	0.8	37.2	57.5	54.1	51.6
125°	0.8	34.7	55.0	53.3	50.7
127.5°	0.8	32.1	52.4	51.6	49.0
130°	0.8	29.6	49.9	50.7	48.2
132.5°	0.8	27.1	46.5	49.0	47.4
135°	0.8	24.5	44.0	48.2	46.5
137.5°	0.8	22.0	40.6	45.7	45.7
140°	0.8	19.4	37.2	44.0	44.8
142.5°	0.8	17.8	33.8	42.3	43.1
145°	0.8	15.2	30.4	38.9	41.4
147.5°	0.8	13.5	27.1	35.5	38.9
150°	0.8	11.8	23.7	32.1	35.5
152.5°	0.8	10.1	21.1	27.9	33.0
155°	1.7	9.3	18.6	24.5	29.6
157.5°	1.7	7.6	15.2	21.1	25.4
160°	1.7	6.8	13.5	17.8	22.8
162.5°	1.7	5.9	11.0	15.2	19.4
165°	1.7	5.1	9.3	11.8	16.1
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)