

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-LD5-54HL-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-LD5-54HL-SLN-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

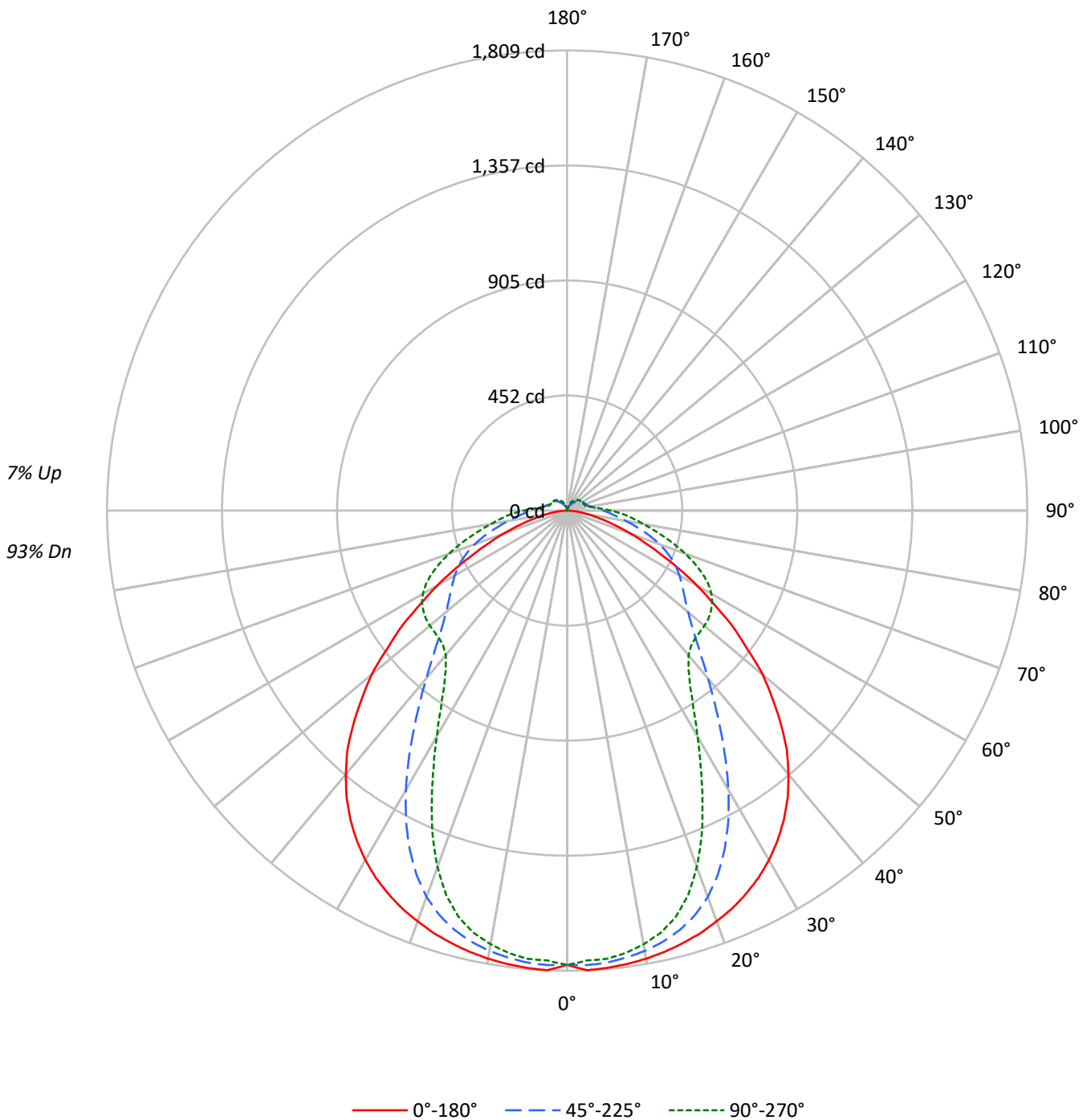
Lumens per Lamp: N/A
Luminaire Lumens: 4492.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 39
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°	14434	14434	14434
5°	14600	14116	13894
10°	14595	13726	13323
15°	14600	13266	12563
20°	14607	12582	11282
25°	14613	11529	9554
30°	14543	10145	7859
35°	14336	8631	6585
40°	13916	7310	5953
45°	13179	6353	5909
50°	12175	5807	6116
55°	10721	5582	6330
60°	9046	5502	6417
65°	7276	5381	6217
70°	5844	5103	5733
75°	4407	4618	5087
80°	3253	4147	4526
85°	2172	3913	4162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	3.8
10°-20°	477.6	10.6
20°-30°	667.7	14.9
30°-40°	692.6	15.4
40°-50°	639.8	14.2
50°-60°	571.2	12.7
60°-70°	463.0	10.3
70°-80°	307.9	6.9
80°-90°	176.3	3.9
90°-100°	97.5	2.2
100°-110°	66.1	1.5
110°-120°	55.0	1.2
120°-130°	44.7	1.0
130°-140°	32.3	0.7
140°-150°	19.4	0.4
150°-160°	9.3	0.2
160°-170°	2.4	0.1
170°-180°	0.0	0.0
0°-30°	1314.3	29.3
0°-40°	2006.9	44.7
0°-60°	3218.0	71.6
0°-90°	4165.2	92.7
90°-120°	218.6	4.9
90°-150°	315.0	7.0
90°-180°	327.0	7.3
0°-180°	4492.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1786	1786	1786	1786	1786	
5°	1805	1775	1784	1771	1769	172
15°	1760	1722	1708	1669	1653	497
25°	1663	1589	1466	1313	1259	766
35°	1485	1322	1051	883	843	927
45°	1189	942	716	690	711	914
55°	795	601	559	650	690	707
65°	406	363	455	557	587	410
75°	158	197	307	376	391	173
85°	32	92	181	231	238	37
90°	2	64	143	172	171	2
95°	2	54	113	121	117	1
105°	1	47	82	79	75	1
115°	1	43	72	71	69	1
125°	1	36	64	67	65	1
135°	2	27	50	59	59	1
145°	2	17	35	46	49	1
155°	2	11	22	29	35	1
165°	2	6	11	14	19	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°	1786.2	1786.2	1786.2	1786.2	1786.2
2.5°	1808.7	1779.2	1788.5	1780.8	1770.7
5°	1804.8	1774.6	1783.9	1771.4	1769.1
7.5°	1797.8	1767.6	1773.0	1758.3	1754.4
10°	1788.5	1756.7	1757.5	1736.5	1731.1
12.5°	1776.1	1741.2	1736.5	1707.8	1700.0
15°	1759.8	1722.5	1707.8	1669.0	1652.7
17.5°	1742.0	1698.5	1668.2	1608.4	1582.8
20°	1717.9	1669.0	1616.2	1525.4	1491.2
22.5°	1693.8	1633.3	1548.7	1427.6	1381.8
25°	1662.8	1589.0	1466.4	1312.7	1259.1
27.5°	1627.8	1537.0	1371.7	1194.7	1137.2
30°	1586.7	1474.1	1267.7	1079.0	1024.7
32.5°	1538.6	1403.5	1158.2	975.0	924.5
35°	1485.0	1322.0	1051.1	882.6	843.0
37.5°	1423.7	1232.7	951.7	808.1	782.5
40°	1353.8	1135.7	860.1	750.7	742.1
42.5°	1278.5	1041.0	781.7	713.4	721.2
45°	1189.2	942.4	715.7	690.1	711.1
47.5°	1095.3	846.1	662.2	676.9	707.2
50°	1004.5	756.9	620.2	668.4	704.1
52.5°	891.9	676.9	586.9	660.6	699.4
55°	794.9	600.8	558.9	649.7	690.1
57.5°	683.1	532.5	534.1	635.8	676.1
60°	590.0	470.4	510.0	616.4	655.2
62.5°	495.3	414.5	483.6	590.7	625.7
65°	406.0	363.3	454.9	557.4	586.9
67.5°	331.5	316.7	422.3	517.0	541.8
70°	268.6	274.0	386.6	472.0	492.9
72.5°	206.5	234.4	347.8	423.8	441.7
75°	157.6	197.2	306.6	375.7	391.2
77.5°	116.4	164.6	269.4	332.2	345.4
80°	82.3	135.8	234.4	294.2	304.3
82.5°	55.1	111.8	205.7	260.1	269.4
85°	31.8	91.6	180.9	231.3	237.5
87.5°	13.2	76.1	160.7	201.8	204.9
90°	1.6	64.4	142.8	172.3	170.8
92.5°	1.6	58.2	127.3	144.4	140.5
95°	1.6	54.3	113.3	121.1	117.2
97.5°	1.6	52.0	100.9	104.0	100.1
100°	0.8	50.5	92.4	92.4	88.5
102.5°	0.8	48.9	86.2	83.8	80.7
105°	0.8	47.4	81.5	79.2	75.3
107.5°	0.8	46.6	78.4	76.1	72.2
110°	0.8	45.0	76.1	73.7	70.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	44.2	74.5	73.0	69.1
115°	0.8	42.7	72.2	71.4	69.1
117.5°	0.8	41.1	70.6	70.6	68.3
120°	0.8	39.6	68.3	69.9	67.5
122.5°	0.8	38.0	66.0	68.3	66.0
125°	0.8	36.5	63.7	66.8	65.2
127.5°	1.6	34.2	60.5	65.2	63.7
130°	0.8	31.8	57.4	63.7	62.9
132.5°	1.6	29.5	54.3	61.3	61.3
135°	1.6	27.2	50.5	59.0	59.0
137.5°	1.6	24.1	46.6	55.9	56.7
140°	1.6	21.7	42.7	52.8	54.3
142.5°	1.6	19.4	38.8	49.7	52.0
145°	1.6	17.1	34.9	45.8	48.9
147.5°	1.6	15.5	31.1	41.1	45.8
150°	1.6	13.2	27.9	37.3	41.9
152.5°	1.6	11.6	24.8	33.4	38.8
155°	1.6	10.9	21.7	28.7	34.9
157.5°	1.6	9.3	18.6	24.8	31.1
160°	1.6	7.8	15.5	21.7	26.4
162.5°	1.6	7.0	13.2	17.9	23.3
165°	1.6	6.2	10.9	14.0	18.6
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)