

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-L835-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-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

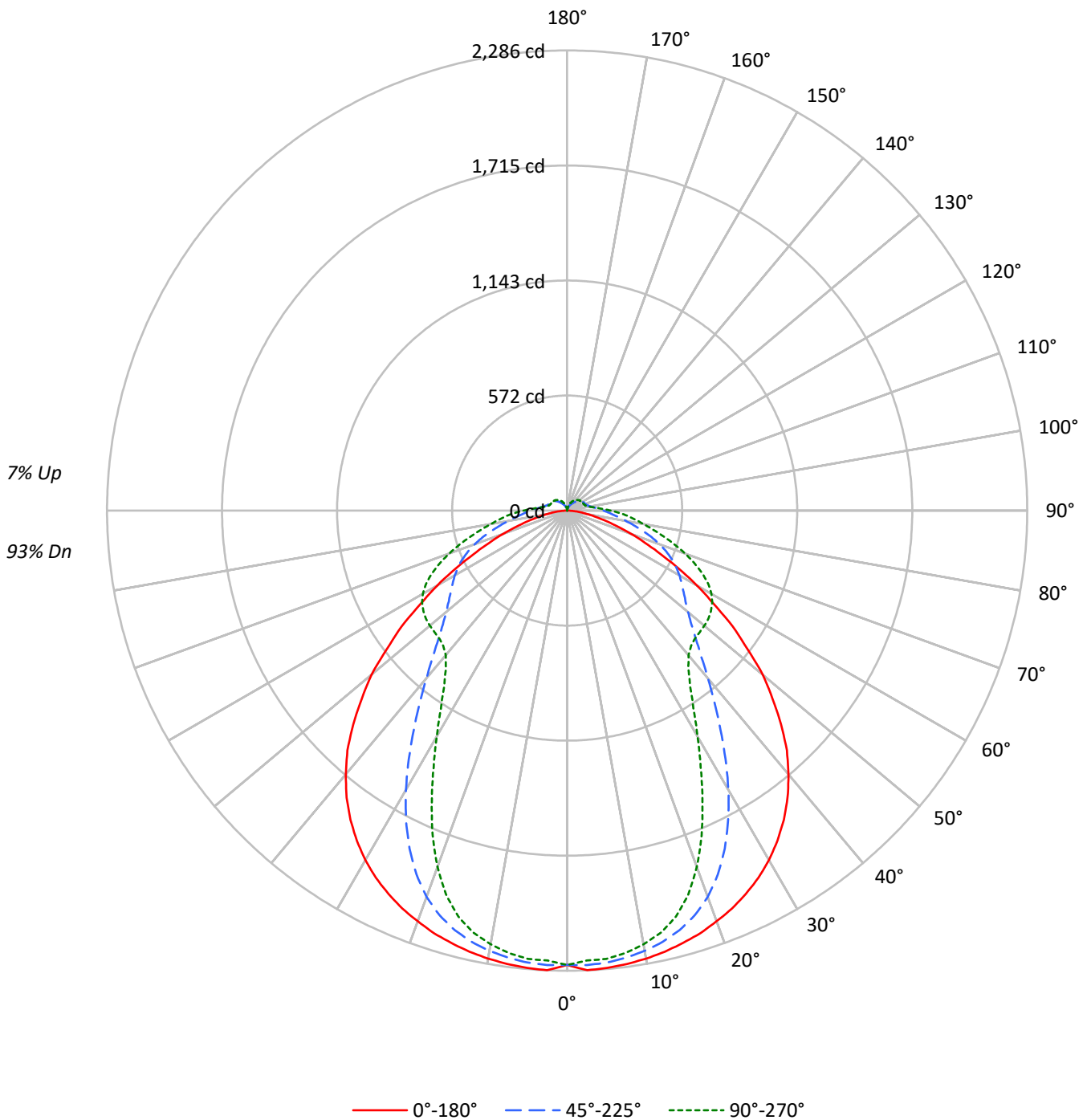
Lumens per Lamp: N/A
Luminaire Lumens: 5676.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	18239	18239	18239
5°	18449	17836	17557
10°	18442	17343	16835
15°	18449	16762	15874
20°	18457	15898	14256
25°	18464	14568	12073
30°	18376	12819	9930
35°	18115	10906	8321
40°	17585	9236	7522
45°	16653	8028	7466
50°	15384	7338	7728
55°	13546	7053	7998
60°	11430	6952	8109
65°	9193	6799	7855
70°	7385	6448	7245
75°	5567	5835	6429
80°	4111	5240	5719
85°	2746	4943	5259



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.5	3.8
10°-20°	603.5	10.6
20°-30°	843.7	14.9
30°-40°	875.1	15.4
40°-50°	808.5	14.2
50°-60°	721.8	12.7
60°-70°	585.0	10.3
70°-80°	389.1	6.9
80°-90°	222.8	3.9
90°-100°	123.3	2.2
100°-110°	83.5	1.5
110°-120°	69.5	1.2
120°-130°	56.5	1.0
130°-140°	40.8	0.7
140°-150°	24.6	0.4
150°-160°	11.8	0.2
160°-170°	3.1	0.1
170°-180°	0.0	0.0
0°-30°	1660.8	29.3
0°-40°	2535.9	44.7
0°-60°	4066.2	71.6
0°-90°	5263.0	92.7
90°-120°	276.2	4.9
90°-150°	398.1	7.0
90°-180°	413.0	7.3
0°-180°	5676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2257	2257	2257	2257	2257	
5°	2280	2242	2254	2238	2235	217
15°	2224	2177	2158	2109	2088	628
25°	2101	2008	1853	1659	1591	968
35°	1876	1670	1328	1115	1065	1171
45°	1503	1191	904	872	898	1155
55°	1004	759	706	821	872	893
65°	513	459	575	704	742	519
75°	199	249	387	475	494	218
85°	40	116	228	292	300	46
90°	2	81	180	218	216	3
95°	2	69	143	153	148	1
105°	1	60	103	100	95	1
115°	1	54	91	90	87	1
125°	1	46	80	84	82	1
135°	2	34	64	74	74	1
145°	2	22	44	58	62	1
155°	2	14	28	36	44	1
165°	2	8	14	18	24	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°	2257.0	2257.0	2257.0	2257.0	2257.0
2.5°	2285.5	2248.2	2259.9	2250.1	2237.4
5°	2280.5	2242.3	2254.1	2238.4	2235.4
7.5°	2271.7	2233.5	2240.3	2221.7	2216.8
10°	2259.9	2219.7	2220.7	2194.2	2187.4
12.5°	2244.3	2200.1	2194.2	2157.9	2148.1
15°	2223.7	2176.6	2157.9	2108.9	2088.3
17.5°	2201.1	2146.2	2107.9	2032.4	2000.0
20°	2170.7	2108.9	2042.2	1927.4	1884.3
22.5°	2140.3	2063.8	1956.9	1803.8	1746.0
25°	2101.0	2007.9	1852.9	1658.7	1591.0
27.5°	2056.9	1942.1	1733.2	1509.6	1437.0
30°	2004.9	1862.7	1601.8	1363.4	1294.8
32.5°	1944.1	1773.4	1463.5	1232.0	1168.2
35°	1876.4	1670.4	1328.1	1115.3	1065.2
37.5°	1798.9	1557.6	1202.6	1021.1	988.7
40°	1710.7	1435.0	1086.8	948.5	937.7
42.5°	1615.5	1315.4	987.7	901.4	911.2
45°	1502.7	1190.8	904.4	872.0	898.5
47.5°	1384.0	1069.2	836.7	855.3	893.6
50°	1269.3	956.4	783.7	844.5	889.7
52.5°	1127.0	855.3	741.5	834.7	883.8
55°	1004.4	759.2	706.2	821.0	872.0
57.5°	863.2	672.9	674.8	803.3	854.3
60°	745.5	594.4	644.4	778.8	827.9
62.5°	625.8	523.8	611.1	746.4	790.6
65°	513.0	459.1	574.8	704.3	741.5
67.5°	418.8	400.2	533.6	653.3	684.7
70°	339.4	346.3	488.5	596.4	622.9
72.5°	260.9	296.2	439.4	535.6	558.1
75°	199.1	249.1	387.4	474.7	494.4
77.5°	147.1	207.9	340.4	419.8	436.5
80°	104.0	171.7	296.2	371.8	384.5
82.5°	69.6	141.2	259.9	328.6	340.4
85°	40.2	115.7	228.5	292.3	300.1
87.5°	16.7	96.1	203.0	255.0	259.0
90°	2.0	81.4	180.5	217.8	215.8
92.5°	2.0	73.6	160.9	182.4	177.5
95°	2.0	68.7	143.2	153.0	148.1
97.5°	2.0	65.7	127.5	131.4	126.5
100°	1.0	63.8	116.7	116.7	111.8
102.5°	1.0	61.8	108.9	105.9	102.0
105°	1.0	59.8	103.0	100.0	95.1
107.5°	1.0	58.9	99.1	96.1	91.2
110°	1.0	56.9	96.1	93.2	89.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	55.9	94.2	92.2	87.3
115°	1.0	53.9	91.2	90.2	87.3
117.5°	1.0	52.0	89.3	89.3	86.3
120°	1.0	50.0	86.3	88.3	85.3
122.5°	1.0	48.1	83.4	86.3	83.4
125°	1.0	46.1	80.4	84.4	82.4
127.5°	2.0	43.2	76.5	82.4	80.4
130°	1.0	40.2	72.6	80.4	79.5
132.5°	2.0	37.3	68.7	77.5	77.5
135°	2.0	34.3	63.8	74.5	74.5
137.5°	2.0	30.4	58.9	70.6	71.6
140°	2.0	27.5	53.9	66.7	68.7
142.5°	2.0	24.5	49.0	62.8	65.7
145°	2.0	21.6	44.1	57.9	61.8
147.5°	2.0	19.6	39.2	52.0	57.9
150°	2.0	16.7	35.3	47.1	53.0
152.5°	2.0	14.7	31.4	42.2	49.0
155°	2.0	13.7	27.5	36.3	44.1
157.5°	2.0	11.8	23.5	31.4	39.2
160°	2.0	9.8	19.6	27.5	33.3
162.5°	2.0	8.8	16.7	22.6	29.4
165°	2.0	7.8	13.7	17.7	23.5
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)