

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-LD5-55HL-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-LD5-55HL-SLC-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

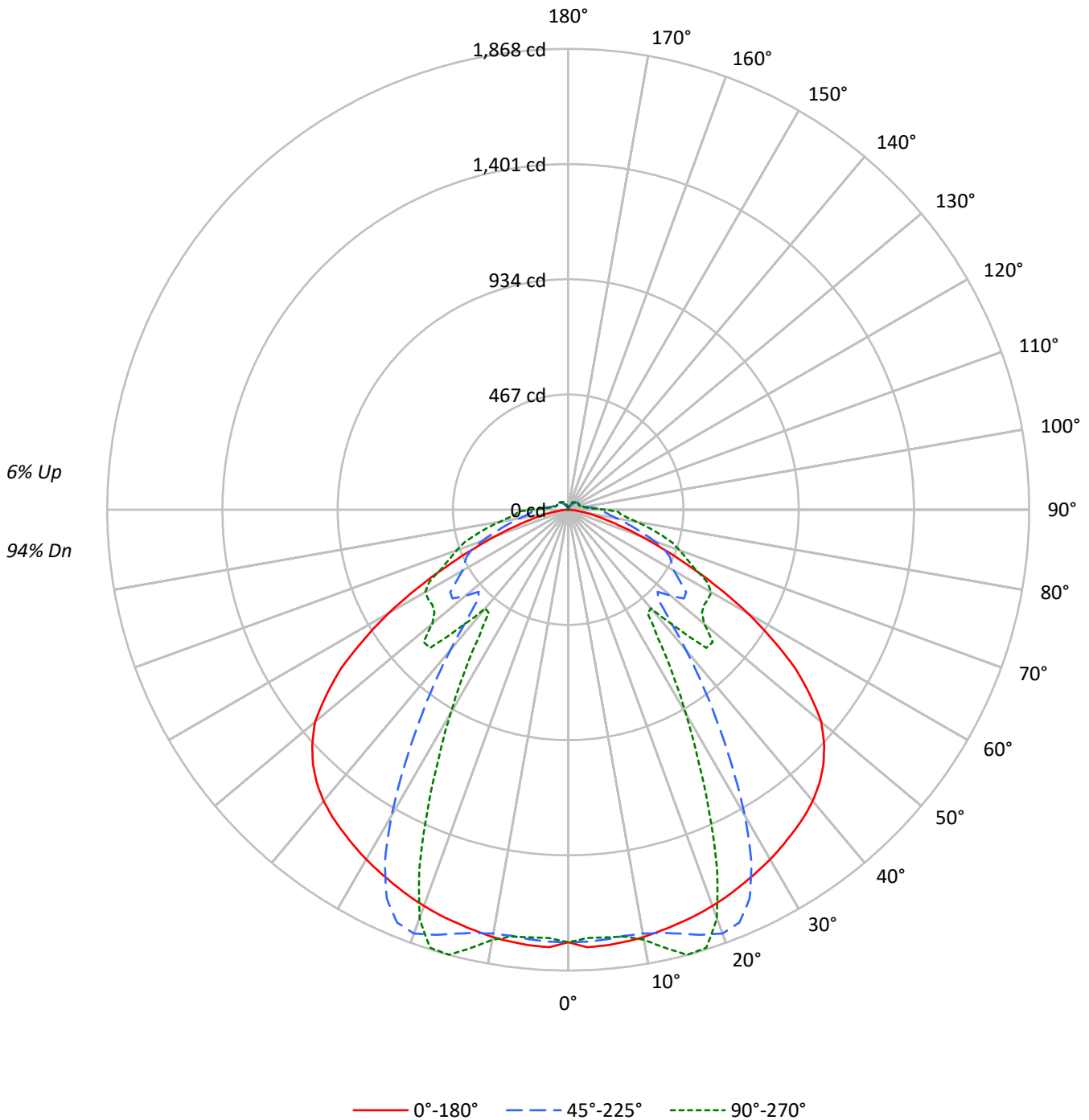
Lumens per Lamp: N/A
Luminaire Lumens: 4504.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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	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°	14169	14169	14169
5°	14342	13837	13667
10°	14360	13626	13620
15°	14399	13819	14196
20°	14532	14230	13324
25°	14713	13676	10260
30°	15003	11454	7298
35°	15376	8675	4942
40°	15846	6306	4184
45°	16205	4575	6578
50°	16228	5066	6243
55°	15169	5830	6165
60°	12923	5334	6553
65°	9722	5379	5994
70°	6824	4897	5580
75°	4471	4103	5007
80°	2854	3515	4168
85°	1537	3342	3740



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	3.7
10°-20°	503.8	11.2
20°-30°	731.8	16.2
30°-40°	699.2	15.5
40°-50°	639.6	14.2
50°-60°	590.5	13.1
60°-70°	469.1	10.4
70°-80°	289.5	6.4
80°-90°	157.7	3.5
90°-100°	79.7	1.8
100°-110°	50.1	1.1
110°-120°	42.4	0.9
120°-130°	34.6	0.8
130°-140°	24.9	0.6
140°-150°	15.3	0.3
150°-160°	7.3	0.2
160°-170°	1.9	0.0
170°-180°	0.0	0.0
0°-30°	1402.3	31.1
0°-40°	2101.5	46.7
0°-60°	3331.6	74.0
0°-90°	4247.9	94.3
90°-120°	172.2	3.8
90°-150°	247.0	5.5
90°-180°	256.0	5.7
0°-180°	4504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1753	1753	1753	1753	1753	
5°	1773	1746	1749	1739	1740	169
15°	1736	1712	1779	1845	1868	491
25°	1674	1707	1739	1472	1352	774
35°	1593	1567	1056	727	633	999
45°	1462	1020	515	657	792	1124
55°	1125	523	584	628	672	991
65°	542	339	455	553	566	549
75°	160	181	272	361	385	181
85°	22	77	154	210	213	29
90°	1	57	138	164	151	1
95°	0	54	96	85	80	0
105°	0	48	59	54	53	0
115°	0	40	57	50	48	0
125°	1	32	50	49	47	1
135°	1	22	40	44	43	1
145°	1	14	28	36	38	1
155°	2	8	17	22	27	1
165°	2	5	8	11	15	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°	1753.4	1753.4	1753.4	1753.4	1753.4
2.5°	1775.1	1749.5	1752.6	1747.2	1737.8
5°	1772.8	1745.6	1748.7	1739.4	1740.2
7.5°	1766.6	1738.6	1742.5	1740.9	1744.8
10°	1759.6	1730.1	1744.8	1758.0	1769.7
12.5°	1747.2	1720.8	1756.5	1795.3	1819.3
15°	1735.5	1712.2	1779.0	1845.0	1867.5
17.5°	1723.9	1709.1	1806.9	1864.4	1861.3
20°	1709.1	1707.6	1827.9	1808.5	1761.1
22.5°	1692.8	1708.3	1811.6	1669.5	1576.4
25°	1674.2	1706.8	1739.4	1472.4	1352.1
27.5°	1655.6	1699.8	1608.2	1256.6	1137.9
30°	1636.9	1681.2	1431.3	1059.5	951.6
32.5°	1615.2	1640.8	1238.8	884.8	785.5
35°	1592.7	1567.1	1056.4	727.3	632.6
37.5°	1569.4	1460.7	892.6	589.1	528.6
40°	1541.5	1327.2	742.0	505.3	521.6
42.5°	1506.5	1176.7	609.3	530.1	643.4
45°	1462.3	1019.9	515.4	657.4	791.7
47.5°	1406.4	869.3	492.1	752.9	794.8
50°	1338.9	731.2	541.0	721.8	718.7
52.5°	1236.4	616.3	590.7	658.2	683.0
55°	1124.7	523.1	583.7	627.9	672.2
57.5°	983.4	460.3	535.6	621.7	672.9
60°	842.9	418.4	494.4	620.9	669.1
62.5°	687.7	380.3	473.5	606.2	634.9
65°	542.5	339.2	454.8	552.6	565.8
67.5°	416.0	297.3	422.2	492.9	519.3
70°	313.6	256.1	371.0	447.1	479.7
72.5°	225.9	217.3	318.2	406.7	440.9
75°	159.9	180.8	272.4	360.9	385.0
77.5°	110.2	147.5	233.6	310.5	329.9
80°	72.2	118.0	198.7	267.0	280.2
82.5°	43.5	94.7	172.3	233.6	240.6
85°	22.5	76.8	154.5	210.3	213.4
87.5°	7.0	64.4	144.4	199.5	203.4
90°	0.8	57.4	138.2	163.8	151.4
92.5°	0.0	54.3	119.5	111.8	100.1
95°	0.0	53.6	95.5	84.6	79.9
97.5°	0.0	52.0	78.4	70.6	68.3
100°	0.0	50.5	67.5	62.1	61.3
102.5°	0.0	49.7	61.3	56.7	55.9
105°	0.0	48.1	59.0	53.6	52.8
107.5°	0.0	45.8	57.4	52.0	50.5
110°	0.0	43.5	57.4	51.2	48.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	41.1	57.4	50.5	48.1
115°	0.0	39.6	56.7	50.5	48.1
117.5°	0.8	38.0	55.9	50.5	48.1
120°	0.0	36.5	54.3	50.5	47.3
122.5°	0.8	34.2	52.8	49.7	47.3
125°	0.8	31.8	50.5	48.9	46.6
127.5°	0.8	29.5	48.1	47.3	45.0
130°	0.8	27.2	45.8	46.6	44.2
132.5°	0.8	24.8	42.7	45.0	43.5
135°	0.8	22.5	40.4	44.2	42.7
137.5°	0.8	20.2	37.3	41.9	41.9
140°	0.8	17.9	34.2	40.4	41.1
142.5°	0.8	16.3	31.0	38.8	39.6
145°	0.8	14.0	27.9	35.7	38.0
147.5°	0.8	12.4	24.8	32.6	35.7
150°	0.8	10.9	21.7	29.5	32.6
152.5°	0.8	9.3	19.4	25.6	30.3
155°	1.6	8.5	17.1	22.5	27.2
157.5°	1.6	7.0	14.0	19.4	23.3
160°	1.6	6.2	12.4	16.3	21.0
162.5°	1.6	5.4	10.1	14.0	17.9
165°	1.6	4.7	8.5	10.9	14.7
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)