

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-LD5-64HL-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-LD5-64HL-SLC-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

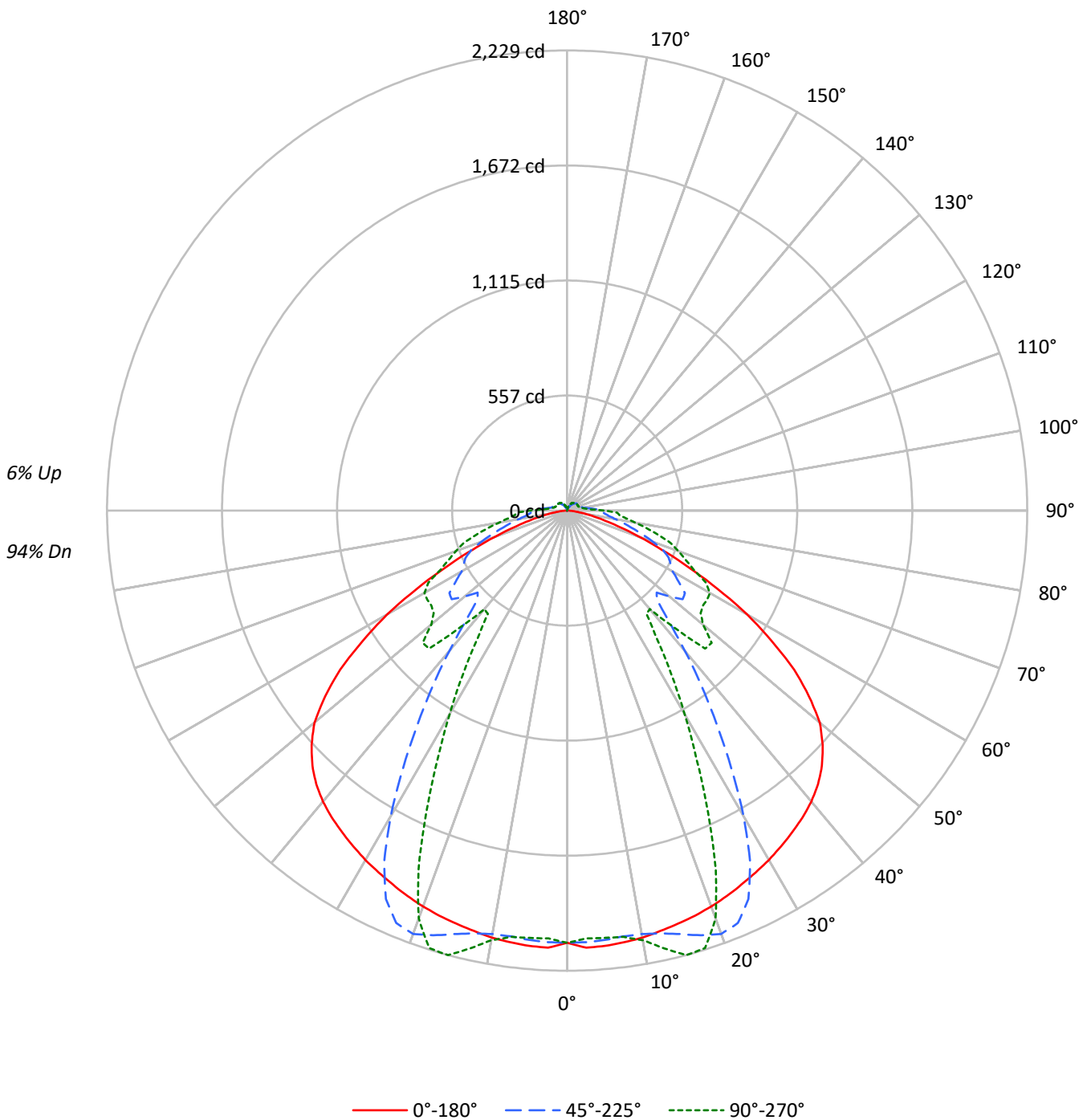
Lumens per Lamp: N/A
Luminaire Lumens: 5376.9 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 48
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	64	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°	16915	16915	16915
5°	17121	16520	16317
10°	17142	16268	16260
15°	17190	16497	16947
20°	17349	16988	15907
25°	17565	16326	12249
30°	17912	13674	8712
35°	18356	10356	5899
40°	18916	7528	4995
45°	19346	5461	7853
50°	19373	6047	7453
55°	18109	6959	7360
60°	15429	6369	7823
65°	11607	6423	7156
70°	8147	5846	6660
75°	5338	4898	5977
80°	3408	4196	4975
85°	1838	3989	4465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	3.7
10°-20°	601.4	11.2
20°-30°	873.6	16.2
30°-40°	834.7	15.5
40°-50°	763.5	14.2
50°-60°	705.0	13.1
60°-70°	560.0	10.4
70°-80°	345.6	6.4
80°-90°	188.2	3.5
90°-100°	95.1	1.8
100°-110°	59.8	1.1
110°-120°	50.6	0.9
120°-130°	41.3	0.8
130°-140°	29.7	0.6
140°-150°	18.3	0.3
150°-160°	8.7	0.2
160°-170°	2.3	0.0
170°-180°	0.0	0.0
0°-30°	1674.2	31.1
0°-40°	2508.9	46.7
0°-60°	3977.4	74.0
0°-90°	5071.2	94.3
90°-120°	205.5	3.8
90°-150°	294.8	5.5
90°-180°	306.0	5.7
0°-180°	5376.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2093	2093	2093	2093	2093	
5°	2116	2084	2088	2076	2078	201
15°	2072	2044	2124	2203	2229	586
25°	1999	2038	2076	1758	1614	924
35°	1901	1871	1261	868	755	1192
45°	1746	1218	615	785	945	1342
55°	1343	624	697	750	802	1183
65°	648	405	543	660	676	655
75°	191	216	325	431	460	216
85°	27	92	184	251	255	34
90°	1	69	165	196	181	1
95°	0	64	114	101	95	0
105°	0	57	70	64	63	0
115°	0	47	68	60	57	0
125°	1	38	60	58	56	1
135°	1	27	48	53	51	1
145°	1	17	33	43	45	1
155°	2	10	20	27	32	1
165°	2	6	10	13	18	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°	2093.2	2093.2	2093.2	2093.2	2093.2
2.5°	2119.2	2088.6	2092.3	2085.8	2074.7
5°	2116.4	2083.9	2087.7	2076.5	2077.5
7.5°	2109.0	2075.6	2080.2	2078.4	2083.0
10°	2100.6	2065.4	2083.0	2098.8	2112.7
12.5°	2085.8	2054.3	2096.9	2143.3	2172.0
15°	2071.9	2044.1	2123.8	2202.6	2229.4
17.5°	2058.0	2040.4	2157.2	2225.7	2222.0
20°	2040.4	2038.5	2182.2	2159.0	2102.5
22.5°	2020.9	2039.5	2162.7	1993.1	1881.9
25°	1998.7	2037.6	2076.5	1757.8	1614.2
27.5°	1976.5	2029.3	1919.9	1500.2	1358.4
30°	1954.2	2007.0	1708.7	1264.8	1136.0
32.5°	1928.3	1958.9	1478.9	1056.3	937.7
35°	1901.4	1870.8	1261.1	868.2	755.2
37.5°	1873.6	1743.9	1065.6	703.3	631.0
40°	1840.2	1584.5	885.8	603.2	622.7
42.5°	1798.6	1404.7	727.4	632.9	768.2
45°	1745.7	1217.6	615.3	784.8	945.1
47.5°	1679.0	1037.8	587.5	898.8	948.8
50°	1598.4	872.9	645.8	861.7	858.0
52.5°	1476.1	735.7	705.2	785.8	815.4
55°	1342.7	624.5	696.8	749.6	802.4
57.5°	1174.0	549.5	639.4	742.2	803.4
60°	1006.3	499.4	590.3	741.3	798.7
62.5°	821.0	454.0	565.2	723.7	758.0
65°	647.7	404.9	543.0	659.7	675.5
67.5°	496.7	354.9	504.1	588.4	619.9
70°	374.4	305.8	442.9	533.7	572.6
72.5°	269.6	259.5	379.9	485.5	526.3
75°	190.9	215.9	325.2	430.9	459.6
77.5°	131.6	176.1	278.9	370.6	393.8
80°	86.2	140.8	237.2	318.8	334.5
82.5°	51.9	113.0	205.7	278.9	287.2
85°	26.9	91.7	184.4	251.1	254.8
87.5°	8.3	76.9	172.3	238.1	242.8
90°	0.9	68.6	164.9	195.5	180.7
92.5°	0.0	64.9	142.7	133.4	119.5
95°	0.0	63.9	114.0	101.0	95.4
97.5°	0.0	62.1	93.6	84.3	81.5
100°	0.0	60.2	80.6	74.1	73.2
102.5°	0.0	59.3	73.2	67.6	66.7
105°	0.0	57.4	70.4	63.9	63.0
107.5°	0.0	54.7	68.6	62.1	60.2
110°	0.0	51.9	68.6	61.2	58.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	49.1	68.6	60.2	57.4
115°	0.0	47.3	67.6	60.2	57.4
117.5°	0.9	45.4	66.7	60.2	57.4
120°	0.0	43.6	64.9	60.2	56.5
122.5°	0.9	40.8	63.0	59.3	56.5
125°	0.9	38.0	60.2	58.4	55.6
127.5°	0.9	35.2	57.4	56.5	53.7
130°	0.9	32.4	54.7	55.6	52.8
132.5°	0.9	29.7	51.0	53.7	51.9
135°	0.9	26.9	48.2	52.8	51.0
137.5°	0.9	24.1	44.5	50.0	50.0
140°	0.9	21.3	40.8	48.2	49.1
142.5°	0.9	19.5	37.1	46.3	47.3
145°	0.9	16.7	33.4	42.6	45.4
147.5°	0.9	14.8	29.7	38.9	42.6
150°	0.9	13.0	25.9	35.2	38.9
152.5°	0.9	11.1	23.2	30.6	36.1
155°	1.9	10.2	20.4	26.9	32.4
157.5°	1.9	8.3	16.7	23.2	27.8
160°	1.9	7.4	14.8	19.5	25.0
162.5°	1.9	6.5	12.0	16.7	21.3
165°	1.9	5.6	10.2	13.0	17.6
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)