

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-L950-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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

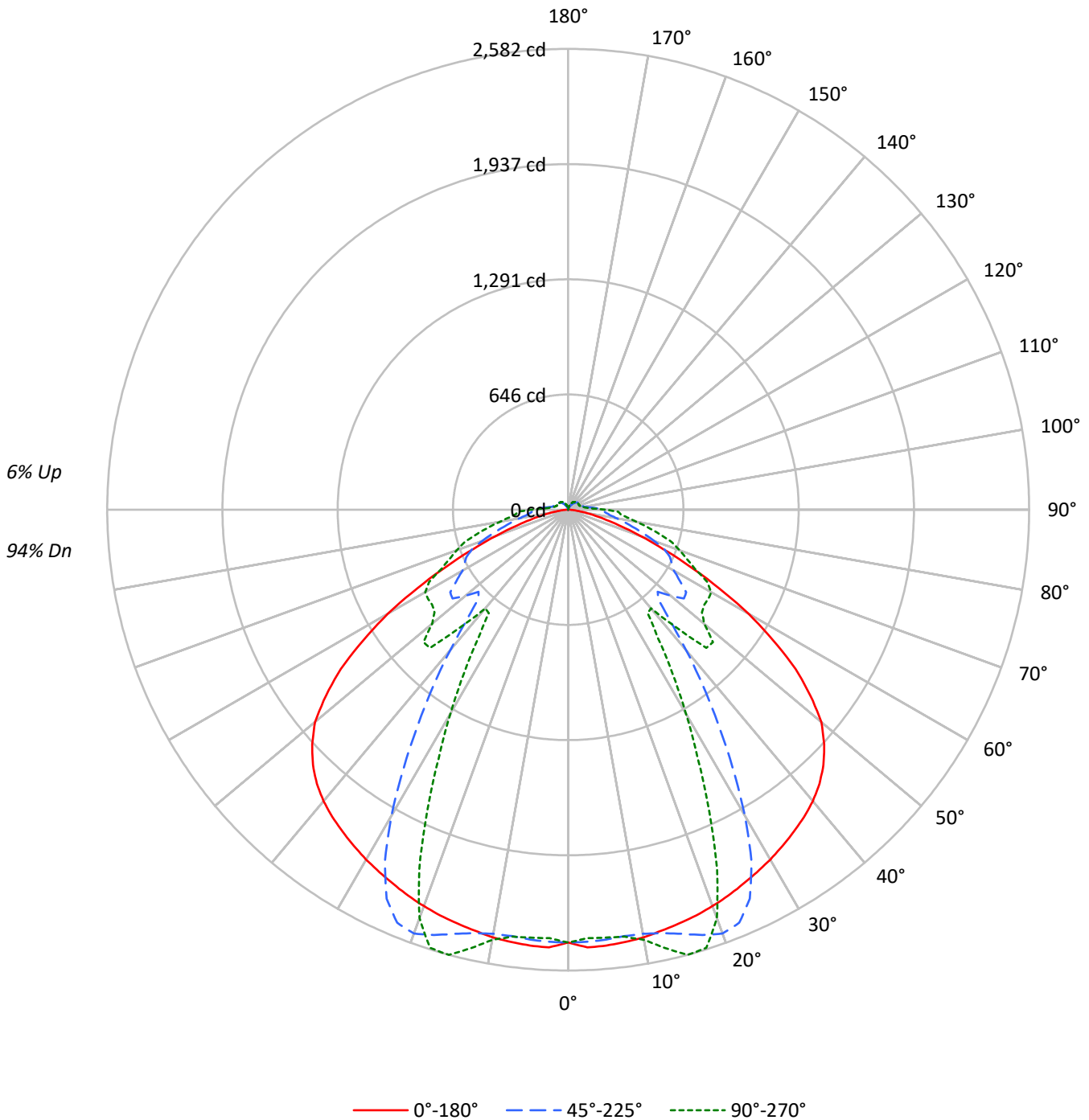
Lumens per Lamp: N/A
Luminaire Lumens: 6228.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 4SNLED-LD5-64HL-SLC-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-64HL-SLC-UNV-L950-CD1-U

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°	19592	19592	19592
5°	19830	19134	18899
10°	19856	18843	18833
15°	19910	19108	19629
20°	20095	19676	18425
25°	20345	18910	14187
30°	20747	15838	10091
35°	21261	11995	6833
40°	21911	8720	5786
45°	22408	6325	9096
50°	22440	7005	8632
55°	20975	8061	8524
60°	17871	7376	9062
65°	13444	7439	8288
70°	9435	6771	7715
75°	6182	5674	6922
80°	3945	4861	5762
85°	2125	4620	5172



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-64HL-SLC-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.7	3.7
10°-20°	696.6	11.2
20°-30°	1011.9	16.2
30°-40°	966.8	15.5
40°-50°	884.4	14.2
50°-60°	816.6	13.1
60°-70°	648.6	10.4
70°-80°	400.3	6.4
80°-90°	218.0	3.5
90°-100°	110.2	1.8
100°-110°	69.2	1.1
110°-120°	58.6	0.9
120°-130°	47.9	0.8
130°-140°	34.4	0.6
140°-150°	21.2	0.3
150°-160°	10.1	0.2
160°-170°	2.6	0.0
170°-180°	0.0	0.0
0°-30°	1939.1	31.1
0°-40°	2905.9	46.7
0°-60°	4606.9	74.0
0°-90°	5873.8	94.3
90°-120°	238.1	3.8
90°-150°	341.5	5.5
90°-180°	354.0	5.7
0°-180°	6228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2424	2424	2424	2424	2424	
5°	2451	2414	2418	2405	2406	233
15°	2400	2368	2460	2551	2582	679
25°	2315	2360	2405	2036	1870	1070
35°	2202	2167	1461	1006	875	1381
45°	2022	1410	713	909	1095	1554
55°	1555	723	807	868	929	1370
65°	750	469	629	764	782	759
75°	221	250	377	499	532	251
85°	31	106	214	291	295	40
90°	1	79	191	226	209	2
95°	0	74	132	117	110	0
105°	0	66	82	74	73	0
115°	0	55	78	70	66	1
125°	1	44	70	68	64	1
135°	1	31	56	61	59	1
145°	1	19	39	49	53	1
155°	2	12	24	31	38	1
165°	2	6	12	15	20	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-64HL-SLC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2424.5	2424.5	2424.5	2424.5	2424.5
2.5°	2454.6	2419.1	2423.4	2415.9	2403.0
5°	2451.3	2413.8	2418.1	2405.2	2406.3
7.5°	2442.7	2404.1	2409.5	2407.3	2412.7
10°	2433.1	2392.3	2412.7	2430.9	2447.0
12.5°	2415.9	2379.4	2428.8	2482.5	2515.7
15°	2399.8	2367.6	2459.9	2551.1	2582.3
17.5°	2383.7	2363.3	2498.6	2578.0	2573.7
20°	2363.3	2361.2	2527.5	2500.7	2435.2
22.5°	2340.8	2362.3	2505.0	2308.6	2179.8
25°	2315.0	2360.1	2405.2	2036.0	1869.6
27.5°	2289.3	2350.4	2223.8	1737.6	1573.4
30°	2263.5	2324.7	1979.1	1465.0	1315.8
32.5°	2233.5	2268.9	1712.9	1223.5	1086.1
35°	2202.3	2166.9	1460.7	1005.6	874.7
37.5°	2170.1	2019.9	1234.3	814.6	730.9
40°	2131.5	1835.3	1026.0	698.7	721.2
42.5°	2083.2	1627.1	842.5	733.0	889.7
45°	2022.0	1410.3	712.6	909.1	1094.7
47.5°	1944.8	1202.1	680.4	1041.1	1099.0
50°	1851.4	1011.0	748.1	998.1	993.8
52.5°	1709.7	852.2	816.8	910.1	944.5
55°	1555.2	723.4	807.1	868.3	929.4
57.5°	1359.8	636.4	740.6	859.7	930.5
60°	1165.6	578.5	683.7	858.6	925.2
62.5°	950.9	525.9	654.7	838.2	877.9
65°	750.2	469.0	628.9	764.2	782.4
67.5°	575.3	411.1	583.9	681.5	718.0
70°	433.6	354.2	513.0	618.2	663.3
72.5°	312.3	300.5	440.0	562.4	609.6
75°	221.1	250.1	376.7	499.1	532.3
77.5°	152.4	203.9	323.1	429.3	456.1
80°	99.8	163.1	274.8	369.2	387.4
82.5°	60.1	130.9	238.3	323.1	332.7
85°	31.1	106.3	213.6	290.9	295.1
87.5°	9.7	89.1	199.6	275.8	281.2
90°	1.1	79.4	191.0	226.5	209.3
92.5°	0.0	75.1	165.3	154.5	138.5
95°	0.0	74.1	132.0	117.0	110.5
97.5°	0.0	71.9	108.4	97.7	94.4
100°	0.0	69.8	93.4	85.9	84.8
102.5°	0.0	68.7	84.8	78.3	77.3
105°	0.0	66.5	81.6	74.1	73.0
107.5°	0.0	63.3	79.4	71.9	69.8
110°	0.0	60.1	79.4	70.8	67.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-64HL-SLC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	56.9	79.4	69.8	66.5
115°	0.0	54.7	78.3	69.8	66.5
117.5°	1.1	52.6	77.3	69.8	66.5
120°	0.0	50.4	75.1	69.8	65.5
122.5°	1.1	47.2	73.0	68.7	65.5
125°	1.1	44.0	69.8	67.6	64.4
127.5°	1.1	40.8	66.5	65.5	62.2
130°	1.1	37.6	63.3	64.4	61.2
132.5°	1.1	34.3	59.0	62.2	60.1
135°	1.1	31.1	55.8	61.2	59.0
137.5°	1.1	27.9	51.5	58.0	58.0
140°	1.1	24.7	47.2	55.8	56.9
142.5°	1.1	22.5	42.9	53.7	54.7
145°	1.1	19.3	38.6	49.4	52.6
147.5°	1.1	17.2	34.3	45.1	49.4
150°	1.1	15.0	30.1	40.8	45.1
152.5°	1.1	12.9	26.8	35.4	41.9
155°	2.1	11.8	23.6	31.1	37.6
157.5°	2.1	9.7	19.3	26.8	32.2
160°	2.1	8.6	17.2	22.5	29.0
162.5°	2.1	7.5	14.0	19.3	24.7
165°	2.1	6.4	11.8	15.0	20.4
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)