

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-L840-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-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

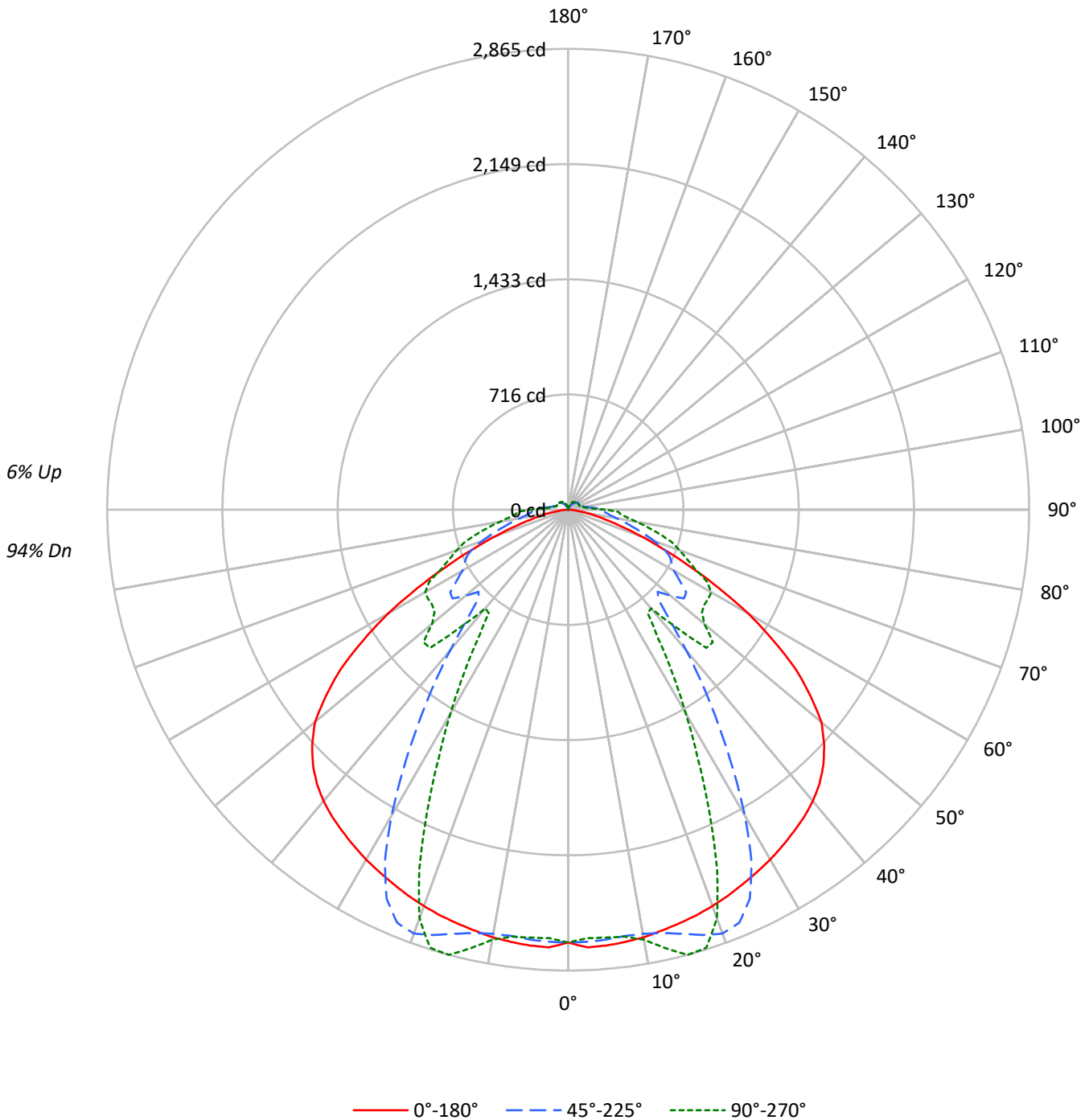
Lumens per Lamp: N/A
Luminaire Lumens: 6910.0 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	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°	21738	21738	21738
5°	22003	21229	20968
10°	22030	20906	20895
15°	22091	21200	21778
20°	22296	21831	20442
25°	22573	20981	15741
30°	23019	17572	11196
35°	23589	13309	7581
40°	24310	9675	6419
45°	24862	7018	10092
50°	24897	7772	9578
55°	23272	8944	9458
60°	19828	8183	10054
65°	14917	8254	9196
70°	10468	7513	8560
75°	6859	6296	7680
80°	4376	5392	6394
85°	2357	5126	5740



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.9	3.7
10°-20°	772.9	11.2
20°-30°	1122.7	16.2
30°-40°	1072.7	15.5
40°-50°	981.2	14.2
50°-60°	906.0	13.1
60°-70°	719.6	10.4
70°-80°	444.2	6.4
80°-90°	241.9	3.5
90°-100°	122.3	1.8
100°-110°	76.8	1.1
110°-120°	65.1	0.9
120°-130°	53.1	0.8
130°-140°	38.1	0.6
140°-150°	23.5	0.3
150°-160°	11.2	0.2
160°-170°	2.9	0.0
170°-180°	0.0	0.0
0°-30°	2151.5	31.1
0°-40°	3224.1	46.7
0°-60°	5111.3	74.0
0°-90°	6517.0	94.3
90°-120°	264.2	3.8
90°-150°	378.9	5.5
90°-180°	393.0	5.7
0°-180°	6910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2690	2690	2690	2690	2690	
5°	2720	2678	2683	2669	2670	259
15°	2663	2627	2729	2830	2865	754
25°	2568	2618	2669	2259	2074	1187
35°	2444	2404	1621	1116	970	1532
45°	2244	1565	791	1009	1215	1724
55°	1726	803	896	963	1031	1520
65°	832	520	698	848	868	842
75°	245	278	418	554	591	278
85°	34	118	237	323	328	44
90°	1	88	212	251	232	2
95°	0	82	146	130	123	0
105°	0	74	90	82	81	0
115°	0	61	87	77	74	1
125°	1	49	77	75	71	1
135°	1	34	62	68	66	1
145°	1	21	43	55	58	1
155°	2	13	26	34	42	1
165°	2	7	13	17	23	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°	2690.0	2690.0	2690.0	2690.0	2690.0
2.5°	2723.3	2684.0	2688.8	2680.5	2666.2
5°	2719.8	2678.1	2682.9	2668.6	2669.8
7.5°	2710.2	2667.4	2673.3	2670.9	2676.9
10°	2699.5	2654.3	2676.9	2697.1	2715.0
12.5°	2680.5	2640.0	2694.8	2754.3	2791.2
15°	2662.6	2626.9	2729.3	2830.5	2865.0
17.5°	2644.7	2622.1	2772.2	2860.3	2855.5
20°	2622.1	2619.7	2804.3	2774.5	2701.9
22.5°	2597.1	2620.9	2779.3	2561.4	2418.5
25°	2568.5	2618.5	2668.6	2258.9	2074.4
27.5°	2540.0	2607.8	2467.3	1927.9	1745.7
30°	2511.4	2579.3	2195.8	1625.4	1459.9
32.5°	2478.0	2517.3	1900.5	1357.5	1205.1
35°	2443.5	2404.2	1620.7	1115.8	970.5
37.5°	2407.8	2241.1	1369.4	903.8	810.9
40°	2364.9	2036.3	1138.4	775.2	800.2
42.5°	2311.3	1805.2	934.8	813.3	987.2
45°	2243.5	1564.7	790.7	1008.6	1214.6
47.5°	2157.7	1333.7	755.0	1155.1	1219.4
50°	2054.1	1121.7	830.0	1107.4	1102.7
52.5°	1896.9	945.5	906.2	1009.8	1047.9
55°	1725.5	802.6	895.5	963.3	1031.2
57.5°	1508.7	706.1	821.6	953.8	1032.4
60°	1293.2	641.8	758.5	952.6	1026.5
62.5°	1055.0	583.5	726.4	930.0	974.1
65°	832.4	520.4	697.8	847.8	868.1
67.5°	638.3	456.1	647.8	756.2	796.6
70°	481.1	393.0	569.2	685.9	735.9
72.5°	346.5	333.4	488.2	624.0	676.4
75°	245.3	277.5	418.0	553.7	590.6
77.5°	169.1	226.3	358.4	476.3	506.1
80°	110.7	181.0	304.8	409.6	429.9
82.5°	66.7	145.3	264.4	358.4	369.1
85°	34.5	117.9	237.0	322.7	327.5
87.5°	10.7	98.8	221.5	306.0	312.0
90°	1.2	88.1	212.0	251.3	232.2
92.5°	0.0	83.4	183.4	171.5	153.6
95°	0.0	82.2	146.5	129.8	122.7
97.5°	0.0	79.8	120.3	108.4	104.8
100°	0.0	77.4	103.6	95.3	94.1
102.5°	0.0	76.2	94.1	86.9	85.7
105°	0.0	73.8	90.5	82.2	81.0
107.5°	0.0	70.3	88.1	79.8	77.4
110°	0.0	66.7	88.1	78.6	75.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	63.1	88.1	77.4	73.8
115°	0.0	60.7	86.9	77.4	73.8
117.5°	1.2	58.3	85.7	77.4	73.8
120°	0.0	56.0	83.4	77.4	72.6
122.5°	1.2	52.4	81.0	76.2	72.6
125°	1.2	48.8	77.4	75.0	71.4
127.5°	1.2	45.3	73.8	72.6	69.1
130°	1.2	41.7	70.3	71.4	67.9
132.5°	1.2	38.1	65.5	69.1	66.7
135°	1.2	34.5	61.9	67.9	65.5
137.5°	1.2	31.0	57.2	64.3	64.3
140°	1.2	27.4	52.4	61.9	63.1
142.5°	1.2	25.0	47.6	59.5	60.7
145°	1.2	21.4	42.9	54.8	58.3
147.5°	1.2	19.1	38.1	50.0	54.8
150°	1.2	16.7	33.3	45.3	50.0
152.5°	1.2	14.3	29.8	39.3	46.4
155°	2.4	13.1	26.2	34.5	41.7
157.5°	2.4	10.7	21.4	29.8	35.7
160°	2.4	9.5	19.1	25.0	32.2
162.5°	2.4	8.3	15.5	21.4	27.4
165°	2.4	7.1	13.1	16.7	22.6
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)