

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-LD5-64SL-SLN-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-64SL-SLN-UNV-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

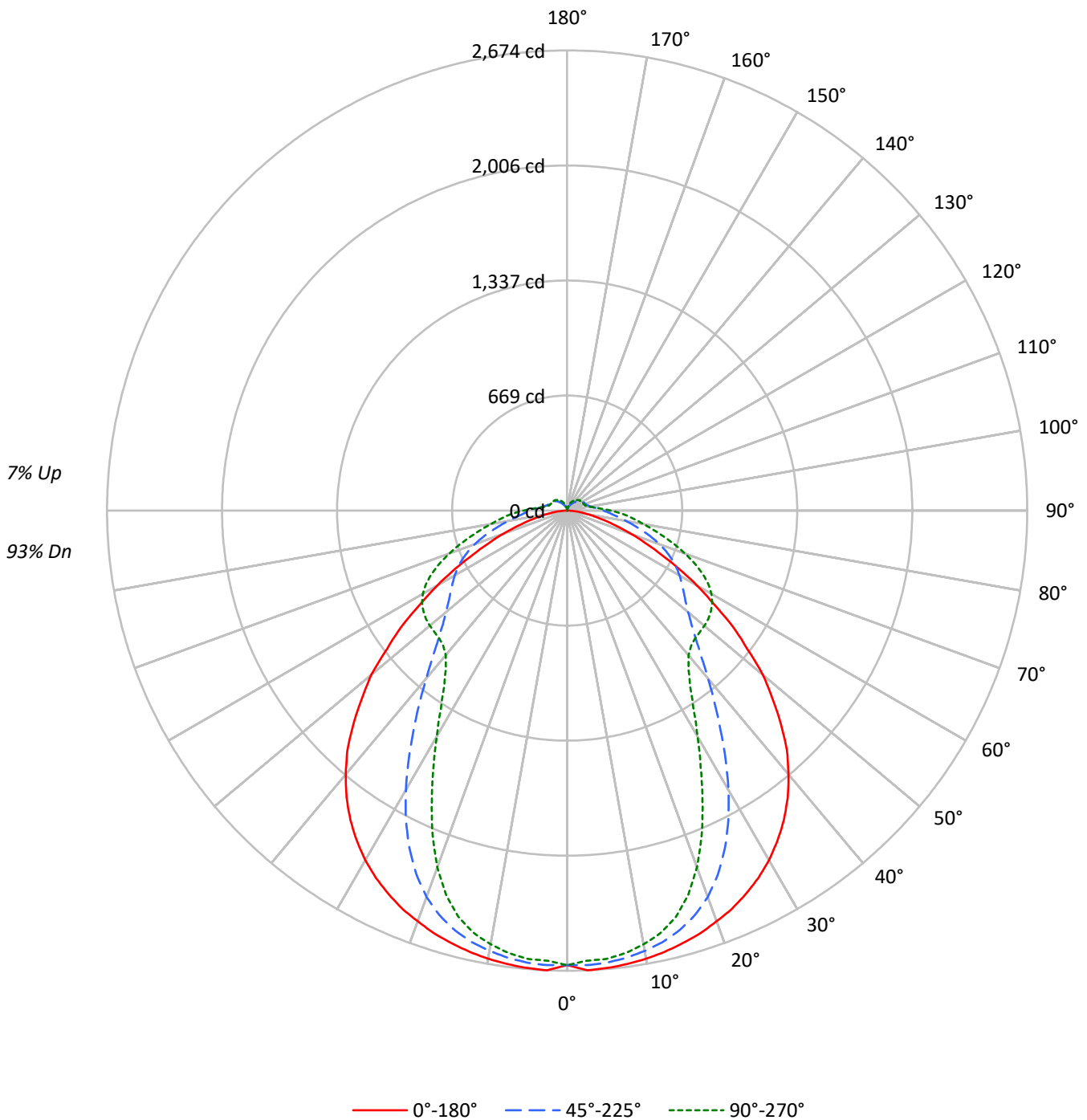
Lumens per Lamp: N/A
Luminaire Lumens: 6641.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 55
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°	21340	21340	21340
5°	21586	20869	20542
10°	21579	20292	19696
15°	21585	19612	18573
20°	21595	18601	16680
25°	21604	17045	14125
30°	21501	14998	11618
35°	21194	12760	9736
40°	20574	10807	8801
45°	19484	9392	8735
50°	18000	8586	9041
55°	15850	8253	9358
60°	13373	8135	9487
65°	10756	7954	9191
70°	8641	7544	8477
75°	6515	6827	7522
80°	4811	6131	6692
85°	3218	5784	6155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.8	3.8
10°-20°	706.1	10.6
20°-30°	987.1	14.9
30°-40°	1023.9	15.4
40°-50°	945.9	14.2
50°-60°	844.5	12.7
60°-70°	684.4	10.3
70°-80°	455.2	6.9
80°-90°	260.7	3.9
90°-100°	144.2	2.2
100°-110°	97.7	1.5
110°-120°	81.3	1.2
120°-130°	66.1	1.0
130°-140°	47.7	0.7
140°-150°	28.7	0.4
150°-160°	13.8	0.2
160°-170°	3.6	0.1
170°-180°	0.0	0.0
0°-30°	1943.1	29.3
0°-40°	2967.0	44.7
0°-60°	4757.5	71.6
0°-90°	6157.8	92.7
90°-120°	323.2	4.9
90°-150°	465.7	7.0
90°-180°	483.0	7.3
0°-180°	6641.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2641	2641	2641	2641	2641	
5°	2668	2624	2637	2619	2616	254
15°	2602	2547	2525	2467	2443	735
25°	2458	2349	2168	1941	1862	1133
35°	2195	1954	1554	1305	1246	1370
45°	1758	1393	1058	1020	1051	1352
55°	1175	888	826	961	1020	1045
65°	600	537	672	824	868	607
75°	233	292	453	556	578	255
85°	47	135	267	342	351	54
90°	2	95	211	255	252	4
95°	2	80	168	179	173	2
105°	1	70	120	117	111	1
115°	1	63	107	106	102	1
125°	1	54	94	99	96	1
135°	2	40	75	87	87	2
145°	2	25	52	68	72	1
155°	2	16	32	42	52	1
165°	2	9	16	21	28	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°	2640.7	2640.7	2640.7	2640.7	2640.7
2.5°	2674.0	2630.4	2644.2	2632.7	2617.8
5°	2668.3	2623.5	2637.3	2618.9	2615.5
7.5°	2657.9	2613.2	2621.2	2599.4	2593.7
10°	2644.2	2597.1	2598.3	2567.3	2559.2
12.5°	2625.8	2574.2	2567.3	2524.8	2513.3
15°	2601.7	2546.6	2524.8	2467.4	2443.3
17.5°	2575.3	2511.0	2466.3	2377.9	2340.0
20°	2539.7	2467.4	2389.4	2255.1	2204.6
22.5°	2504.2	2414.6	2289.5	2110.5	2042.8
25°	2458.3	2349.2	2167.9	1940.7	1861.5
27.5°	2406.6	2272.3	2027.9	1766.2	1681.3
30°	2345.8	2179.4	1874.1	1595.2	1514.9
32.5°	2274.6	2074.9	1712.3	1441.4	1366.8
35°	2195.4	1954.4	1553.9	1304.9	1246.3
37.5°	2104.8	1822.5	1407.0	1194.7	1156.8
40°	2001.5	1679.0	1271.6	1109.8	1097.1
42.5°	1890.2	1539.0	1155.7	1054.7	1066.2
45°	1758.2	1393.2	1058.1	1020.3	1051.2
47.5°	1619.3	1250.9	978.9	1000.7	1045.5
50°	1485.1	1119.0	917.0	988.1	1040.9
52.5°	1318.6	1000.7	867.6	976.6	1034.0
55°	1175.2	888.3	826.3	960.6	1020.3
57.5°	1009.9	787.3	789.6	939.9	999.6
60°	872.2	695.5	754.0	911.2	968.6
62.5°	732.2	612.8	715.0	873.4	925.0
65°	600.2	537.1	672.5	824.0	867.6
67.5°	490.0	468.2	624.3	764.3	801.1
70°	397.1	405.1	571.5	697.8	728.8
72.5°	305.3	346.6	514.1	626.6	653.0
75°	233.0	291.5	453.3	555.5	578.4
77.5°	172.1	243.3	398.2	491.2	510.7
80°	121.7	200.8	346.6	435.0	449.9
82.5°	81.5	165.3	304.1	384.5	398.2
85°	47.1	135.4	267.4	342.0	351.2
87.5°	19.5	112.5	237.6	298.4	303.0
90°	2.3	95.3	211.2	254.8	252.5
92.5°	2.3	86.1	188.2	213.5	207.7
95°	2.3	80.3	167.6	179.0	173.3
97.5°	2.3	76.9	149.2	153.8	148.0
100°	1.1	74.6	136.6	136.6	130.8
102.5°	1.1	72.3	127.4	123.9	119.4
105°	1.1	70.0	120.5	117.1	111.3
107.5°	1.1	68.9	115.9	112.5	106.7
110°	1.1	66.6	112.5	109.0	104.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	65.4	110.2	107.9	102.1
115°	1.1	63.1	106.7	105.6	102.1
117.5°	1.1	60.8	104.4	104.4	101.0
120°	1.1	58.5	101.0	103.3	99.8
122.5°	1.1	56.2	97.5	101.0	97.5
125°	1.1	53.9	94.1	98.7	96.4
127.5°	2.3	50.5	89.5	96.4	94.1
130°	1.1	47.1	84.9	94.1	93.0
132.5°	2.3	43.6	80.3	90.7	90.7
135°	2.3	40.2	74.6	87.2	87.2
137.5°	2.3	35.6	68.9	82.6	83.8
140°	2.3	32.1	63.1	78.0	80.3
142.5°	2.3	28.7	57.4	73.4	76.9
145°	2.3	25.2	51.6	67.7	72.3
147.5°	2.3	23.0	45.9	60.8	67.7
150°	2.3	19.5	41.3	55.1	62.0
152.5°	2.3	17.2	36.7	49.3	57.4
155°	2.3	16.1	32.1	42.5	51.6
157.5°	2.3	13.8	27.5	36.7	45.9
160°	2.3	11.5	23.0	32.1	39.0
162.5°	2.3	10.3	19.5	26.4	34.4
165°	2.3	9.2	16.1	20.7	27.5
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)