

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-LD5-71SL-SLN-UNV-L940-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-LD5-71SL-SLN-UNV-L940-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

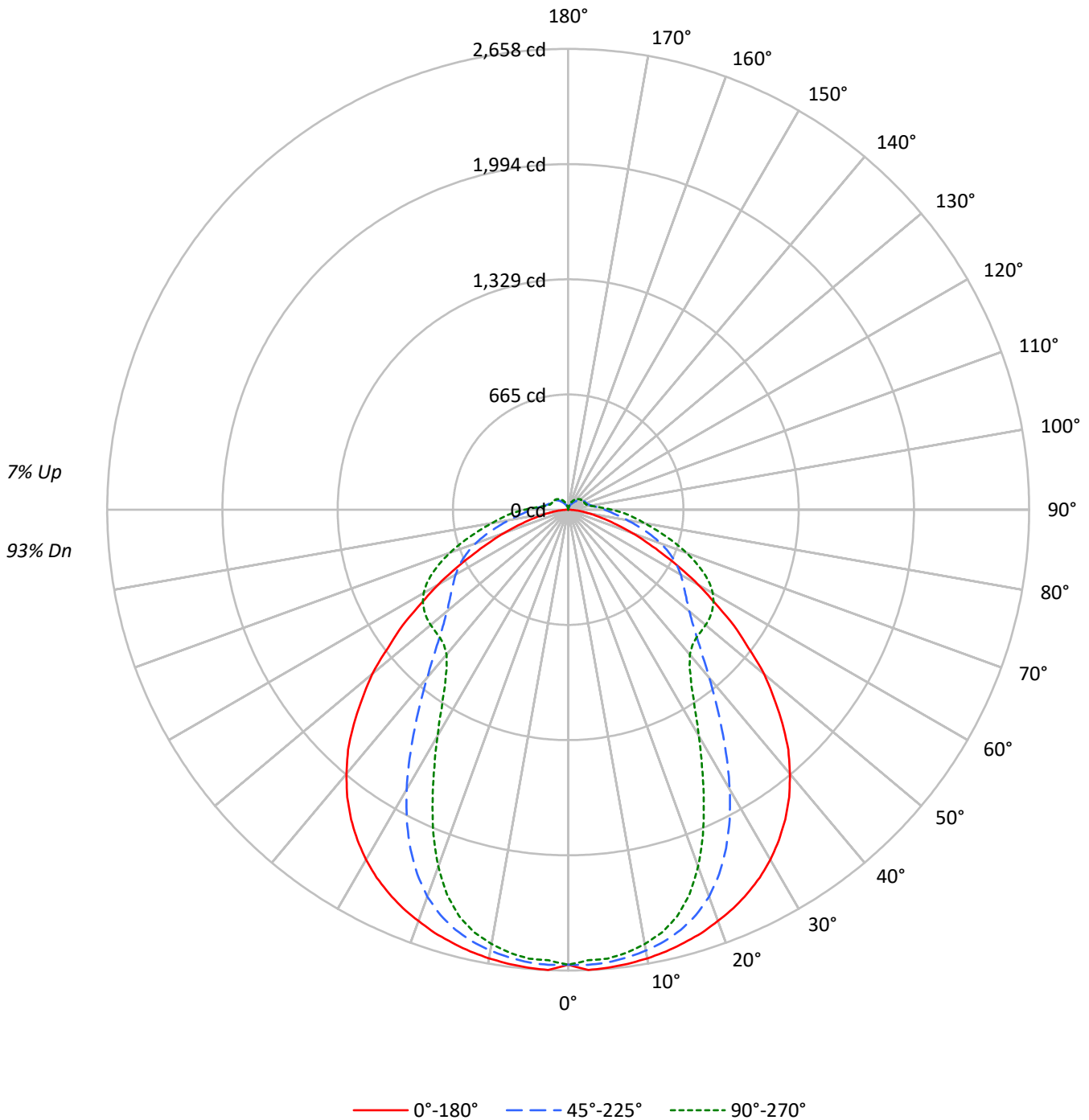
Lumens per Lamp: N/A  
Luminaire Lumens: 6600.0 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 70  
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°	21208	21208	21208
5°	21452	20740	20415
10°	21445	20166	19575
15°	21452	19491	18458
20°	21462	18486	16577
25°	21471	16939	14038
30°	21368	14905	11546
35°	21064	12682	9676
40°	20447	10740	8747
45°	19364	9334	8681
50°	17889	8533	8986
55°	15751	8202	9300
60°	13290	8084	9428
65°	10689	7906	9135
70°	8586	7497	8425
75°	6473	6785	7475
80°	4779	6093	6650
85°	3197	5749	6116



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.3	3.8
10°-20°	701.8	10.6
20°-30°	981.0	14.9
30°-40°	1017.6	15.4
40°-50°	940.1	14.2
50°-60°	839.3	12.7
60°-70°	680.2	10.3
70°-80°	452.4	6.9
80°-90°	259.1	3.9
90°-100°	143.3	2.2
100°-110°	97.1	1.5
110°-120°	80.8	1.2
120°-130°	65.7	1.0
130°-140°	47.4	0.7
140°-150°	28.6	0.4
150°-160°	13.7	0.2
160°-170°	3.6	0.1
170°-180°	0.0	0.0
0°-30°	1931.1	29.3
0°-40°	2948.7	44.7
0°-60°	4728.1	71.6
0°-90°	6119.8	92.7
90°-120°	321.2	4.9
90°-150°	462.8	7.0
90°-180°	480.0	7.3
0°-180°	6600.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2624	2624	2624	2624	2624	
5°	2652	2607	2621	2603	2599	252
15°	2586	2531	2509	2452	2428	731
25°	2443	2335	2154	1929	1850	1126
35°	2182	1942	1544	1297	1239	1361
45°	1747	1385	1052	1014	1045	1343
55°	1168	883	821	955	1014	1038
65°	596	534	668	819	862	603
75°	232	290	450	552	575	254
85°	47	135	266	340	349	54
90°	2	95	210	253	251	4
95°	2	80	166	178	172	2
105°	1	70	120	116	111	1
115°	1	63	106	105	102	1
125°	1	54	94	98	96	1
135°	2	40	74	87	87	2
145°	2	25	51	67	72	1
155°	2	16	32	42	51	1
165°	2	9	16	20	27	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°	2624.4	2624.4	2624.4	2624.4	2624.4
2.5°	2657.5	2614.2	2627.8	2616.4	2601.6
5°	2651.8	2607.3	2621.0	2602.8	2599.3
7.5°	2641.5	2597.1	2605.0	2583.4	2577.7
10°	2627.8	2581.1	2582.2	2551.4	2543.4
12.5°	2609.6	2558.3	2551.4	2509.2	2497.8
15°	2585.6	2530.9	2509.2	2452.2	2428.2
17.5°	2559.4	2495.5	2451.1	2363.2	2325.6
20°	2524.1	2452.2	2374.6	2241.2	2191.0
22.5°	2488.7	2399.7	2275.4	2097.5	2030.2
25°	2443.1	2334.7	2154.5	1928.7	1850.0
27.5°	2391.8	2258.3	2015.4	1755.3	1670.9
30°	2331.3	2165.9	1862.5	1585.4	1505.5
32.5°	2260.6	2062.1	1701.7	1432.5	1358.4
35°	2181.9	1942.4	1544.3	1296.8	1238.6
37.5°	2091.8	1811.2	1398.3	1187.3	1149.7
40°	1989.1	1668.6	1263.7	1102.9	1090.4
42.5°	1878.5	1529.5	1148.5	1048.2	1059.6
45°	1747.3	1384.6	1051.6	1014.0	1044.8
47.5°	1609.3	1243.2	972.9	994.6	1039.0
50°	1475.9	1112.0	911.3	982.0	1034.5
52.5°	1310.5	994.6	862.3	970.6	1027.6
55°	1167.9	882.8	821.2	954.6	1014.0
57.5°	1003.7	782.4	784.7	934.1	993.4
60°	866.8	691.2	749.3	905.6	962.6
62.5°	727.7	609.1	710.6	868.0	919.3
65°	596.5	533.8	668.4	818.9	862.3
67.5°	487.0	465.3	620.5	759.6	796.1
70°	394.6	402.6	568.0	693.5	724.3
72.5°	303.4	344.4	511.0	622.7	649.0
75°	231.5	289.7	450.5	552.0	574.8
77.5°	171.1	241.8	395.8	488.2	507.5
80°	120.9	199.6	344.4	432.3	447.1
82.5°	81.0	164.2	302.2	382.1	395.8
85°	46.8	134.6	265.8	339.9	349.0
87.5°	19.4	111.8	236.1	296.5	301.1
90°	2.3	94.7	209.9	253.2	250.9
92.5°	2.3	85.5	187.1	212.1	206.4
95°	2.3	79.8	166.5	177.9	172.2
97.5°	2.3	76.4	148.3	152.8	147.1
100°	1.1	74.1	135.7	135.7	130.0
102.5°	1.1	71.9	126.6	123.2	118.6
105°	1.1	69.6	119.8	116.3	110.6
107.5°	1.1	68.4	115.2	111.8	106.1
110°	1.1	66.2	111.8	108.4	103.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	65.0	109.5	107.2	101.5
115°	1.1	62.7	106.1	104.9	101.5
117.5°	1.1	60.4	103.8	103.8	100.4
120°	1.1	58.2	100.4	102.7	99.2
122.5°	1.1	55.9	96.9	100.4	96.9
125°	1.1	53.6	93.5	98.1	95.8
127.5°	2.3	50.2	89.0	95.8	93.5
130°	1.1	46.8	84.4	93.5	92.4
132.5°	2.3	43.3	79.8	90.1	90.1
135°	2.3	39.9	74.1	86.7	86.7
137.5°	2.3	35.4	68.4	82.1	83.3
140°	2.3	31.9	62.7	77.6	79.8
142.5°	2.3	28.5	57.0	73.0	76.4
145°	2.3	25.1	51.3	67.3	71.9
147.5°	2.3	22.8	45.6	60.4	67.3
150°	2.3	19.4	41.1	54.7	61.6
152.5°	2.3	17.1	36.5	49.0	57.0
155°	2.3	16.0	31.9	42.2	51.3
157.5°	2.3	13.7	27.4	36.5	45.6
160°	2.3	11.4	22.8	31.9	38.8
162.5°	2.3	10.3	19.4	26.2	34.2
165°	2.3	9.1	16.0	20.5	27.4
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)