

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-LD5-60HL-SLC-UNV-L835-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-LD5-60HL-SLC-UNV-L835-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

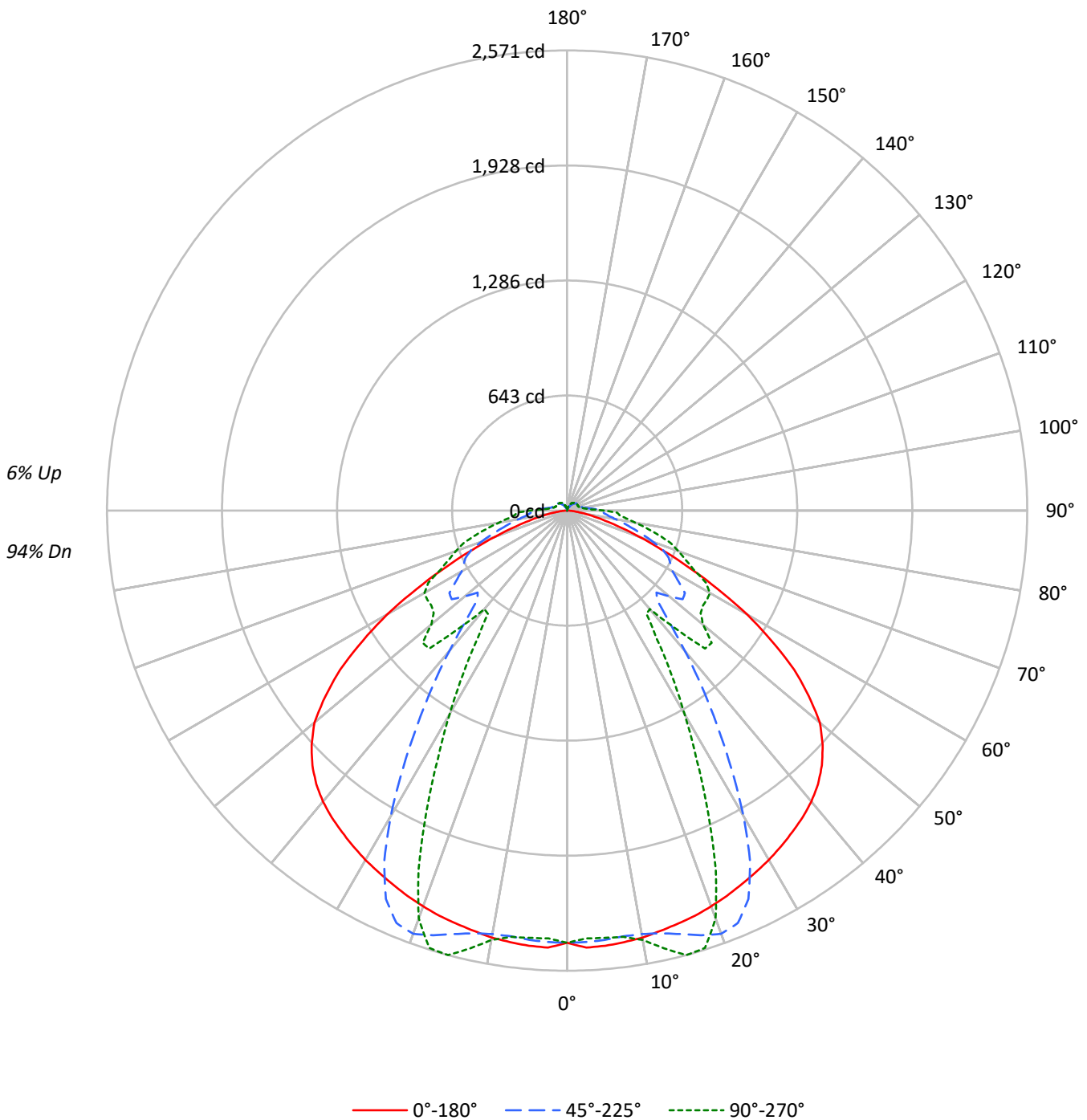
Lumens per Lamp: N/A  
Luminaire Lumens: 6201.1 lumens  
Efficiency: N/A  
Efficacy: 144.2 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 43  
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°	19508	19508	19508
5°	19745	19051	18817
10°	19769	18761	18751
15°	19824	19025	19544
20°	20008	19592	18345
25°	20257	18829	14125
30°	20657	15769	10047
35°	21169	11943	6803
40°	21816	8682	5761
45°	22311	6299	9057
50°	22343	6974	8595
55°	20883	8026	8488
60°	17793	7344	9021
65°	13387	7407	8252
70°	9393	6742	7681
75°	6154	5649	6892
80°	3929	4840	5738
85°	2118	4601	5151



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.7	3.7
10°-20°	693.6	11.2
20°-30°	1007.5	16.2
30°-40°	962.6	15.5
40°-50°	880.5	14.2
50°-60°	813.0	13.1
60°-70°	645.8	10.4
70°-80°	398.6	6.4
80°-90°	217.1	3.5
90°-100°	109.7	1.8
100°-110°	68.9	1.1
110°-120°	58.4	0.9
120°-130°	47.7	0.8
130°-140°	34.2	0.6
140°-150°	21.1	0.3
150°-160°	10.0	0.2
160°-170°	2.6	0.0
170°-180°	0.0	0.0
0°-30°	1930.7	31.1
0°-40°	2893.3	46.7
0°-60°	4586.9	74.0
0°-90°	5848.4	94.3
90°-120°	237.0	3.8
90°-150°	340.1	5.5
90°-180°	353.0	5.7
0°-180°	6201.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2414	2414	2414	2414	2414	
5°	2441	2403	2408	2395	2396	232
15°	2389	2357	2449	2540	2571	676
25°	2305	2350	2395	2027	1862	1065
35°	2193	2158	1454	1001	871	1375
45°	2013	1404	710	905	1090	1547
55°	1548	720	804	864	925	1364
65°	747	467	626	761	779	755
75°	220	249	375	497	530	250
85°	31	106	213	290	294	39
90°	1	79	190	226	208	2
95°	0	74	131	116	110	0
105°	0	66	81	74	73	0
115°	0	54	78	70	66	1
125°	1	44	70	67	64	1
135°	1	31	56	61	59	1
145°	1	19	38	49	52	1
155°	2	12	24	31	37	1
165°	2	6	12	15	20	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°	2414.0	2414.0	2414.0	2414.0	2414.0
2.5°	2443.9	2408.6	2412.9	2405.4	2392.6
5°	2440.7	2403.3	2407.6	2394.8	2395.8
7.5°	2432.2	2393.7	2399.0	2396.9	2402.2
10°	2422.5	2381.9	2402.2	2420.4	2436.4
12.5°	2405.4	2369.1	2418.3	2471.7	2504.8
15°	2389.4	2357.4	2449.3	2540.1	2571.1
17.5°	2373.4	2353.1	2487.7	2566.8	2562.5
20°	2353.1	2350.9	2516.6	2489.9	2424.7
22.5°	2330.6	2352.0	2494.1	2298.6	2170.3
25°	2305.0	2349.9	2394.8	2027.2	1861.5
27.5°	2279.3	2340.3	2214.2	1730.1	1566.6
30°	2253.7	2314.6	1970.5	1458.7	1310.1
32.5°	2223.8	2259.0	1705.5	1218.2	1081.4
35°	2192.8	2157.5	1454.4	1001.3	870.9
37.5°	2160.7	2011.1	1228.9	811.1	727.7
40°	2122.3	1827.3	1021.6	695.7	718.1
42.5°	2074.2	1620.0	838.9	729.9	885.9
45°	2013.3	1404.2	709.6	905.1	1090.0
47.5°	1936.3	1196.8	677.5	1036.6	1094.3
50°	1843.4	1006.6	744.8	993.8	989.5
52.5°	1702.3	848.5	813.2	906.2	940.4
55°	1548.4	720.2	803.6	864.5	925.4
57.5°	1353.9	633.7	737.3	856.0	926.5
60°	1160.5	576.0	680.7	854.9	921.1
62.5°	946.8	523.6	651.9	834.6	874.1
65°	747.0	467.0	626.2	760.9	779.0
67.5°	572.8	409.3	581.3	678.6	714.9
70°	431.7	352.6	510.8	615.5	660.4
72.5°	311.0	299.2	438.1	560.0	607.0
75°	220.1	249.0	375.1	496.9	530.0
77.5°	151.7	203.0	321.7	427.4	454.2
80°	99.4	162.4	273.6	367.6	385.8
82.5°	59.8	130.4	237.2	321.7	331.3
85°	31.0	105.8	212.7	289.6	293.9
87.5°	9.6	88.7	198.8	274.6	280.0
90°	1.1	79.1	190.2	225.5	208.4
92.5°	0.0	74.8	164.6	153.9	137.9
95°	0.0	73.7	131.4	116.5	110.1
97.5°	0.0	71.6	107.9	97.2	94.0
100°	0.0	69.5	93.0	85.5	84.4
102.5°	0.0	68.4	84.4	78.0	76.9
105°	0.0	66.3	81.2	73.7	72.7
107.5°	0.0	63.0	79.1	71.6	69.5
110°	0.0	59.8	79.1	70.5	67.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	56.6	79.1	69.5	66.3
115°	0.0	54.5	78.0	69.5	66.3
117.5°	1.1	52.4	76.9	69.5	66.3
120°	0.0	50.2	74.8	69.5	65.2
122.5°	1.1	47.0	72.7	68.4	65.2
125°	1.1	43.8	69.5	67.3	64.1
127.5°	1.1	40.6	66.3	65.2	62.0
130°	1.1	37.4	63.0	64.1	60.9
132.5°	1.1	34.2	58.8	62.0	59.8
135°	1.1	31.0	55.6	60.9	58.8
137.5°	1.1	27.8	51.3	57.7	57.7
140°	1.1	24.6	47.0	55.6	56.6
142.5°	1.1	22.4	42.7	53.4	54.5
145°	1.1	19.2	38.5	49.2	52.4
147.5°	1.1	17.1	34.2	44.9	49.2
150°	1.1	15.0	29.9	40.6	44.9
152.5°	1.1	12.8	26.7	35.3	41.7
155°	2.1	11.8	23.5	31.0	37.4
157.5°	2.1	9.6	19.2	26.7	32.1
160°	2.1	8.5	17.1	22.4	28.9
162.5°	2.1	7.5	13.9	19.2	24.6
165°	2.1	6.4	11.8	15.0	20.3
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)