

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: **2SNLED-LD5-32HL-SLN-UNV-L830-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: 2SNLED-LD5-32HL-SLN-UNV-L830-CD1-U  
Description: 2FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

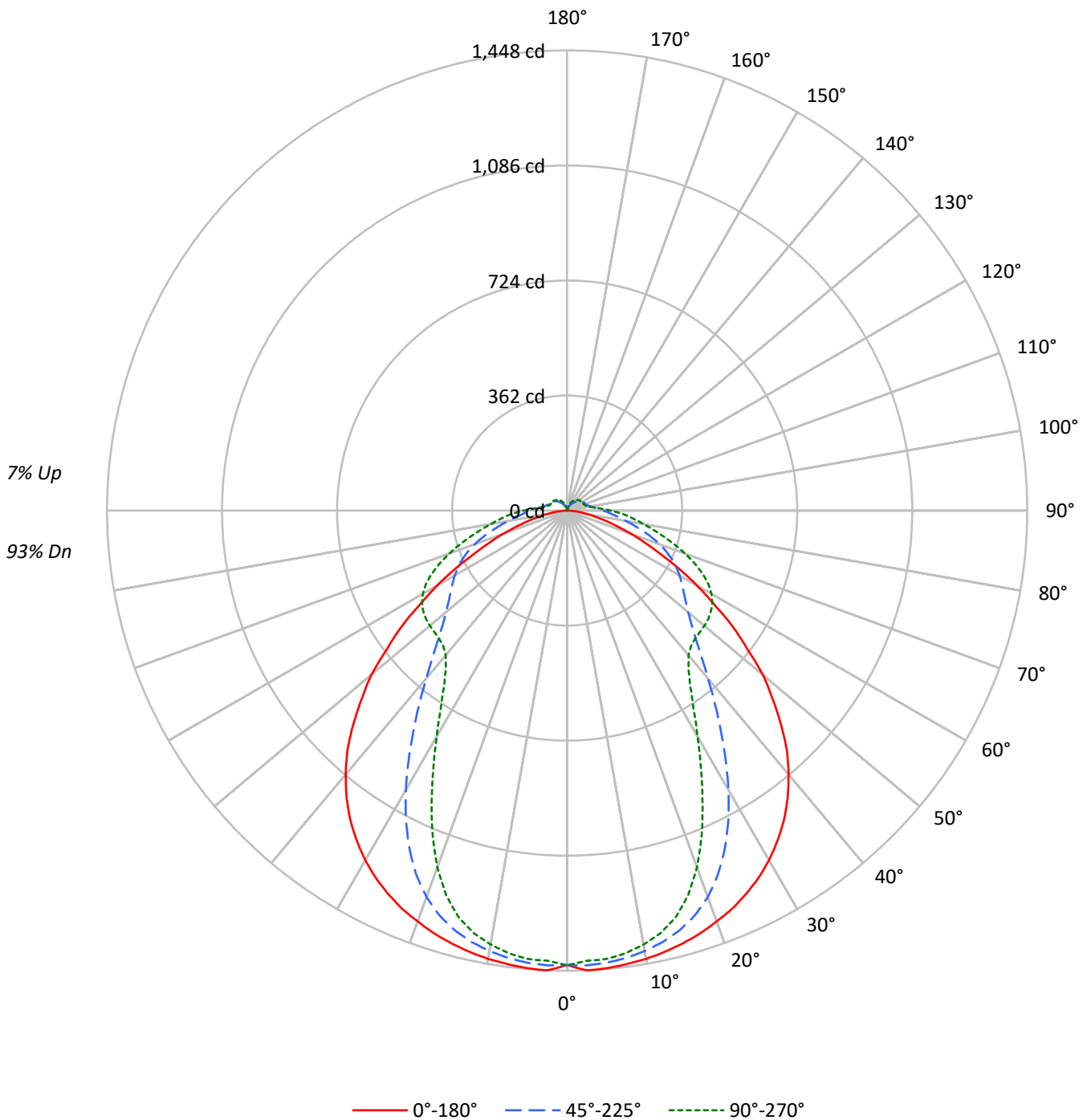
Lumens per Lamp: N/A  
Luminaire Lumens: 3597.0 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 27  
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°	23117	23117	23117
5°	23319	22563	22252
10°	23248	21900	21337
15°	23191	21128	20120
20°	23133	20005	18069
25°	23072	18298	15301
30°	22886	16071	12585
35°	22478	13648	10548
40°	21733	11534	9535
45°	20486	10002	9463
50°	18824	9123	9794
55°	16465	8745	10137
60°	13778	8593	10276
65°	10963	8373	9956
70°	8675	7905	9182
75°	6390	7112	8149
80°	4528	6339	7249
85°	2758	5916	6667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.3	3.8
10°-20°	382.5	10.6
20°-30°	534.7	14.9
30°-40°	554.6	15.4
40°-50°	512.4	14.2
50°-60°	457.4	12.7
60°-70°	370.7	10.3
70°-80°	246.6	6.9
80°-90°	141.2	3.9
90°-100°	78.1	2.2
100°-110°	52.9	1.5
110°-120°	44.0	1.2
120°-130°	35.8	1.0
130°-140°	25.8	0.7
140°-150°	15.6	0.4
150°-160°	7.5	0.2
160°-170°	1.9	0.1
170°-180°	0.0	0.0
0°-30°	1052.5	29.3
0°-40°	1607.1	44.7
0°-60°	2576.8	71.6
0°-90°	3335.3	92.7
90°-120°	175.1	4.9
90°-150°	252.3	7.0
90°-180°	262.0	7.3
0°-180°	3597.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1445	1421	1428	1418	1417	137
15°	1409	1379	1368	1336	1323	398
25°	1332	1272	1174	1051	1008	614
35°	1189	1059	842	707	675	742
45°	952	755	573	553	569	732
55°	636	481	448	520	553	566
65°	325	291	364	446	470	329
75°	126	158	246	301	313	138
85°	26	73	145	185	190	29
90°	1	52	114	138	137	2
95°	1	44	91	97	94	1
105°	1	38	65	63	60	1
115°	1	34	58	57	55	1
125°	1	29	51	54	52	1
135°	1	22	40	47	47	1
145°	1	14	28	37	39	1
155°	1	9	17	23	28	1
165°	1	5	9	11	15	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1430.3	1430.3	1430.3	1430.3	1430.3
2.5°	1448.3	1424.7	1432.2	1426.0	1417.9
5°	1445.2	1421.0	1428.4	1418.5	1416.6
7.5°	1439.6	1415.4	1419.7	1407.9	1404.8
10°	1432.2	1406.7	1407.3	1390.5	1386.2
12.5°	1422.2	1394.3	1390.5	1367.5	1361.3
15°	1409.2	1379.3	1367.5	1336.4	1323.4
17.5°	1394.9	1360.1	1335.8	1288.0	1267.5
20°	1375.6	1336.4	1294.2	1221.5	1194.1
22.5°	1356.3	1307.9	1240.1	1143.1	1106.5
25°	1331.5	1272.4	1174.2	1051.1	1008.2
27.5°	1303.5	1230.8	1098.4	956.6	910.7
30°	1270.6	1180.4	1015.1	864.0	820.5
32.5°	1232.0	1123.9	927.4	780.7	740.3
35°	1189.1	1058.6	841.7	706.8	675.1
37.5°	1140.0	987.1	762.1	647.1	626.6
40°	1084.1	909.4	688.7	601.1	594.3
42.5°	1023.8	833.6	626.0	571.3	577.5
45°	952.3	754.6	573.1	552.6	569.4
47.5°	877.1	677.5	530.2	542.0	566.3
50°	804.4	606.1	496.7	535.2	563.8
52.5°	714.2	542.0	469.9	529.0	560.1
55°	636.5	481.1	447.6	520.3	552.6
57.5°	547.0	426.4	427.7	509.1	541.4
60°	472.4	376.7	408.4	493.6	524.6
62.5°	396.6	331.9	387.3	473.0	501.0
65°	325.1	290.9	364.3	446.3	469.9
67.5°	265.4	253.6	338.2	414.0	433.9
70°	215.1	219.4	309.6	377.9	394.7
72.5°	165.3	187.7	278.5	339.4	353.7
75°	126.2	157.9	245.5	300.9	313.3
77.5°	93.2	131.8	215.7	266.0	276.6
80°	65.9	108.8	187.7	235.6	243.7
82.5°	44.1	89.5	164.7	208.2	215.7
85°	25.5	73.3	144.8	185.2	190.2
87.5°	10.6	60.9	128.7	161.6	164.1
90°	1.2	51.6	114.4	138.0	136.8
92.5°	1.2	46.6	101.9	115.6	112.5
95°	1.2	43.5	90.8	97.0	93.9
97.5°	1.2	41.6	80.8	83.3	80.2
100°	0.6	40.4	74.0	74.0	70.9
102.5°	0.6	39.2	69.0	67.1	64.6
105°	0.6	37.9	65.3	63.4	60.3
107.5°	0.6	37.3	62.8	60.9	57.8
110°	0.6	36.1	60.9	59.1	56.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	35.4	59.7	58.4	55.3
115°	0.6	34.2	57.8	57.2	55.3
117.5°	0.6	32.9	56.6	56.6	54.7
120°	0.6	31.7	54.7	55.9	54.1
122.5°	0.6	30.5	52.8	54.7	52.8
125°	0.6	29.2	51.0	53.5	52.2
127.5°	1.2	27.4	48.5	52.2	51.0
130°	0.6	25.5	46.0	51.0	50.3
132.5°	1.2	23.6	43.5	49.1	49.1
135°	1.2	21.8	40.4	47.2	47.2
137.5°	1.2	19.3	37.3	44.8	45.4
140°	1.2	17.4	34.2	42.3	43.5
142.5°	1.2	15.5	31.1	39.8	41.6
145°	1.2	13.7	28.0	36.7	39.2
147.5°	1.2	12.4	24.9	32.9	36.7
150°	1.2	10.6	22.4	29.8	33.6
152.5°	1.2	9.3	19.9	26.7	31.1
155°	1.2	8.7	17.4	23.0	28.0
157.5°	1.2	7.5	14.9	19.9	24.9
160°	1.2	6.2	12.4	17.4	21.1
162.5°	1.2	5.6	10.6	14.3	18.6
165°	1.2	5.0	8.7	11.2	14.9
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)