

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-LD5-34HL-SLC-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 (P27404)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNLED-LD5-34HL-SLC-UNV-L830-CD1-U  
Description: 2FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

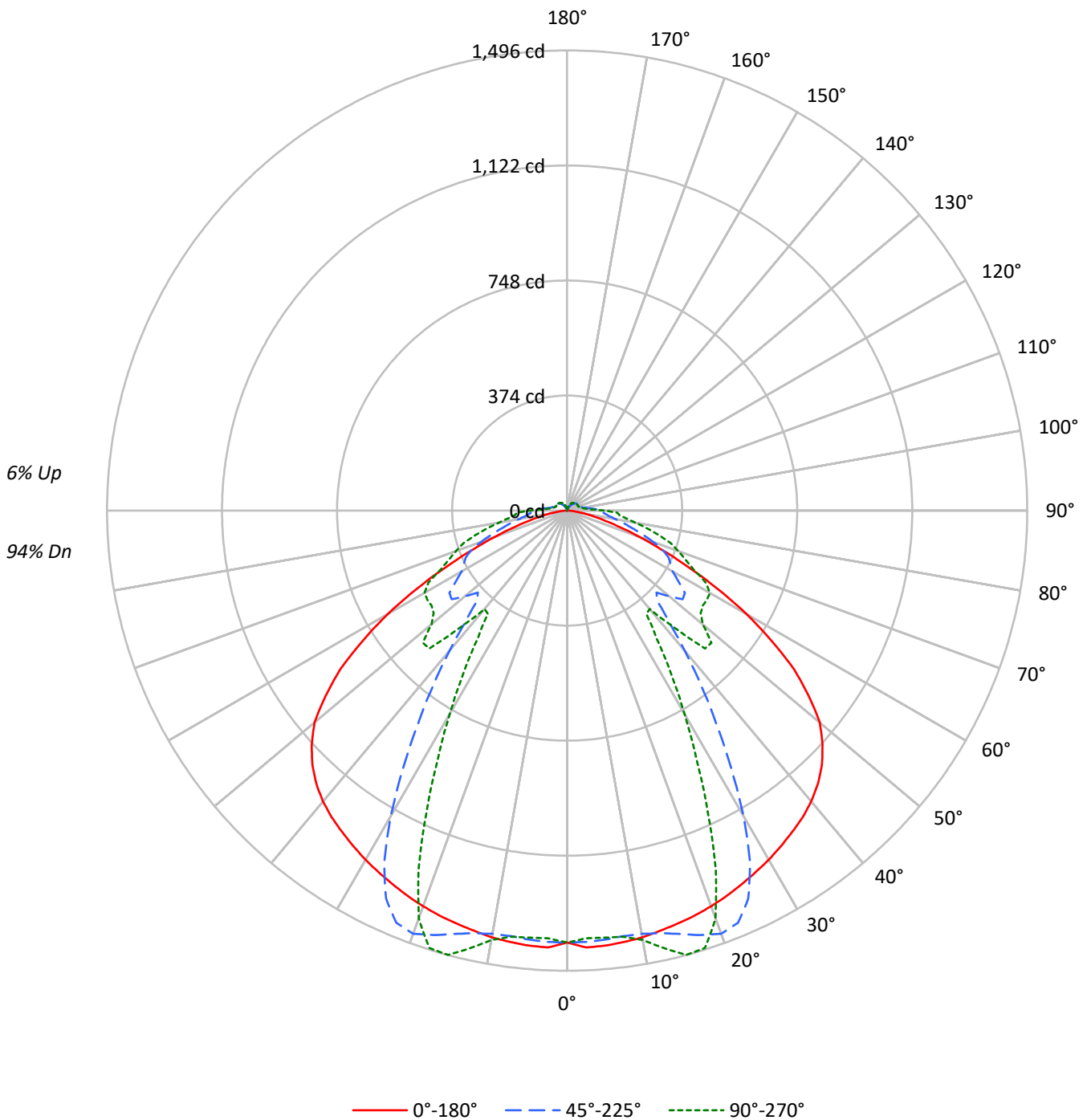
Lumens per Lamp: N/A  
Luminaire Lumens: 3607.0 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 27  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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	64	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°	22695	22695	22695
5°	22908	22121	21891
10°	22873	21744	21814
15°	22873	22012	22736
20°	23017	22626	21342
25°	23233	21707	16433
30°	23612	18147	11689
35°	24111	13718	7915
40°	24748	9951	6702
45°	25193	7203	10536
50°	25090	7956	9999
55°	23300	9132	9874
60°	19688	8332	10495
65°	14653	8373	9600
70°	10127	7586	8935
75°	6481	6321	8019
80°	3972	5373	6675
85°	1947	5054	5990



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.6	3.7
10°-20°	403.4	11.2
20°-30°	586.1	16.2
30°-40°	559.9	15.5
40°-50°	512.2	14.2
50°-60°	472.9	13.1
60°-70°	375.7	10.4
70°-80°	231.8	6.4
80°-90°	126.2	3.5
90°-100°	63.8	1.8
100°-110°	40.1	1.1
110°-120°	34.0	0.9
120°-130°	27.7	0.8
130°-140°	19.9	0.6
140°-150°	12.3	0.3
150°-160°	5.8	0.2
160°-170°	1.5	0.0
170°-180°	0.0	0.0
0°-30°	1123.1	31.1
0°-40°	1683.0	46.7
0°-60°	2668.1	74.0
0°-90°	3401.8	94.3
90°-120°	137.9	3.8
90°-150°	197.8	5.5
90°-180°	205.0	5.7
0°-180°	3607.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1420	1398	1400	1393	1394	135
15°	1390	1371	1425	1478	1496	393
25°	1341	1367	1393	1179	1083	620
35°	1276	1255	846	582	507	800
45°	1171	817	413	526	634	900
55°	901	419	467	503	538	793
65°	434	272	364	443	453	439
75°	128	145	218	289	308	145
85°	18	62	124	168	171	23
90°	1	46	111	131	121	1
95°	0	43	76	68	64	0
105°	0	38	47	43	42	0
115°	0	32	45	40	38	0
125°	1	26	40	39	37	0
135°	1	18	32	35	34	0
145°	1	11	22	29	30	0
155°	1	7	14	18	22	0
165°	1	4	7	9	12	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°	1404.2	1404.2	1404.2	1404.2	1404.2
2.5°	1421.6	1401.1	1403.5	1399.2	1391.7
5°	1419.7	1398.0	1400.4	1393.0	1393.6
7.5°	1414.7	1392.4	1395.5	1394.2	1397.3
10°	1409.1	1385.5	1397.3	1407.9	1417.2
12.5°	1399.2	1378.1	1406.7	1437.7	1457.0
15°	1389.9	1371.2	1424.7	1477.5	1495.5
17.5°	1380.6	1368.7	1447.1	1493.1	1490.6
20°	1368.7	1367.5	1463.8	1448.3	1410.4
22.5°	1355.7	1368.1	1450.8	1337.0	1262.4
25°	1340.8	1366.9	1393.0	1179.2	1082.8
27.5°	1325.9	1361.3	1287.9	1006.4	911.3
30°	1310.9	1346.4	1146.2	848.5	762.1
32.5°	1293.5	1314.0	992.1	708.6	629.0
35°	1275.5	1255.0	846.0	582.4	506.6
37.5°	1256.9	1169.8	714.8	471.8	423.3
40°	1234.5	1062.9	594.2	404.7	417.7
42.5°	1206.5	942.3	487.9	424.5	515.3
45°	1171.1	816.8	412.7	526.5	634.0
47.5°	1126.3	696.2	394.1	602.9	636.5
50°	1072.2	585.5	433.2	578.1	575.6
52.5°	990.2	493.5	473.0	527.1	547.0
55°	900.7	419.0	467.4	502.9	538.3
57.5°	787.6	368.6	428.9	497.9	538.9
60°	675.0	335.0	396.0	497.3	535.8
62.5°	550.7	304.6	379.2	485.5	508.5
65°	434.5	271.6	364.3	442.6	453.1
67.5°	333.2	238.1	338.1	394.7	415.8
70°	251.1	205.1	297.1	358.0	384.1
72.5°	180.9	174.0	254.9	325.7	353.1
75°	128.0	144.8	218.2	289.0	308.3
77.5°	88.3	118.1	187.1	248.6	264.2
80°	57.8	94.5	159.1	213.8	224.4
82.5°	34.8	75.8	138.0	187.1	192.7
85°	18.0	61.5	123.7	168.5	170.9
87.5°	5.6	51.6	115.6	159.7	162.9
90°	0.6	46.0	110.6	131.2	121.2
92.5°	0.0	43.5	95.7	89.5	80.2
95°	0.0	42.9	76.5	67.8	64.0
97.5°	0.0	41.6	62.8	56.6	54.7
100°	0.0	40.4	54.1	49.7	49.1
102.5°	0.0	39.8	49.1	45.4	44.8
105°	0.0	38.5	47.2	42.9	42.3
107.5°	0.0	36.7	46.0	41.6	40.4
110°	0.0	34.8	46.0	41.0	39.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	32.9	46.0	40.4	38.5
115°	0.0	31.7	45.4	40.4	38.5
117.5°	0.6	30.5	44.8	40.4	38.5
120°	0.0	29.2	43.5	40.4	37.9
122.5°	0.6	27.3	42.3	39.8	37.9
125°	0.6	25.5	40.4	39.2	37.3
127.5°	0.6	23.6	38.5	37.9	36.1
130°	0.6	21.8	36.7	37.3	35.4
132.5°	0.6	19.9	34.2	36.1	34.8
135°	0.6	18.0	32.3	35.4	34.2
137.5°	0.6	16.2	29.8	33.6	33.6
140°	0.6	14.3	27.3	32.3	32.9
142.5°	0.6	13.1	24.9	31.1	31.7
145°	0.6	11.2	22.4	28.6	30.5
147.5°	0.6	9.9	19.9	26.1	28.6
150°	0.6	8.7	17.4	23.6	26.1
152.5°	0.6	7.5	15.5	20.5	24.2
155°	1.2	6.8	13.7	18.0	21.8
157.5°	1.2	5.6	11.2	15.5	18.6
160°	1.2	5.0	9.9	13.1	16.8
162.5°	1.2	4.4	8.1	11.2	14.3
165°	1.2	3.7	6.8	8.7	11.8
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)