

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-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: 2SNLED-LD5-32HL-SLN-UNV-L840-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

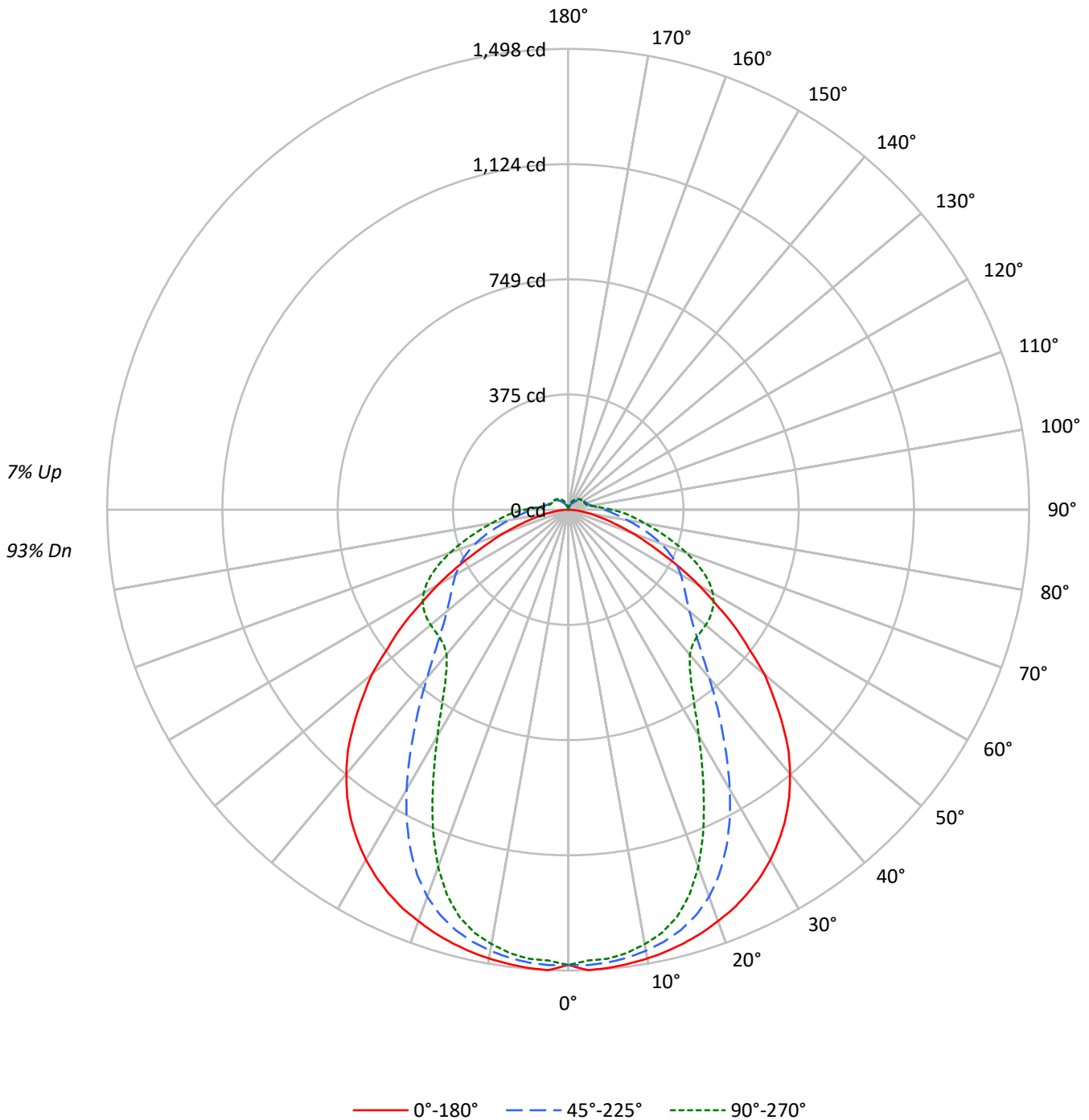
Lumens per Lamp: N/A
Luminaire Lumens: 3721.0 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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°	23913	23913	23913
5°	24124	23342	23020
10°	24048	22655	22073
15°	23990	21858	20813
20°	23930	20694	18692
25°	23867	18929	15829
30°	23675	16625	13019
35°	23253	14118	10910
40°	22480	11932	9862
45°	21192	10348	9788
50°	19472	9437	10131
55°	17034	9046	10487
60°	14254	8890	10631
65°	11341	8660	10299
70°	8973	8176	9498
75°	6608	7358	8429
80°	4686	6558	7499
85°	2856	6120	6898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	3.8
10°-20°	395.7	10.6
20°-30°	553.1	14.9
30°-40°	573.7	15.4
40°-50°	530.0	14.2
50°-60°	473.2	12.7
60°-70°	383.5	10.3
70°-80°	255.1	6.9
80°-90°	146.1	3.9
90°-100°	80.8	2.2
100°-110°	54.7	1.5
110°-120°	45.6	1.2
120°-130°	37.0	1.0
130°-140°	26.7	0.7
140°-150°	16.1	0.4
150°-160°	7.7	0.2
160°-170°	2.0	0.1
170°-180°	0.0	0.0
0°-30°	1088.7	29.3
0°-40°	1662.5	44.7
0°-60°	2665.7	71.6
0°-90°	3450.3	92.7
90°-120°	181.1	4.9
90°-150°	261.0	7.0
90°-180°	271.0	7.3
0°-180°	3721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1495	1470	1478	1467	1466	142
15°	1458	1427	1415	1382	1369	412
25°	1377	1316	1215	1087	1043	635
35°	1230	1095	871	731	698	767
45°	985	781	593	572	589	757
55°	658	498	463	538	572	585
65°	336	301	377	462	486	340
75°	130	163	254	311	324	143
85°	26	76	150	192	197	30
90°	1	53	118	143	142	2
95°	1	45	94	100	97	1
105°	1	39	68	66	62	1
115°	1	35	60	59	57	1
125°	1	30	53	55	54	1
135°	1	22	42	49	49	1
145°	1	14	29	38	40	1
155°	1	9	18	24	29	1
165°	1	5	9	12	15	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°	1479.6	1479.6	1479.6	1479.6	1479.6
2.5°	1498.3	1473.8	1481.5	1475.1	1466.8
5°	1495.1	1470.0	1477.7	1467.4	1465.5
7.5°	1489.3	1464.2	1468.7	1456.5	1453.3
10°	1481.5	1455.2	1455.8	1438.5	1434.0
12.5°	1471.3	1442.3	1438.5	1414.7	1408.2
15°	1457.8	1426.9	1414.7	1382.5	1369.0
17.5°	1443.0	1407.0	1381.9	1332.4	1311.1
20°	1423.0	1382.5	1338.8	1263.6	1235.3
22.5°	1403.1	1352.9	1282.9	1182.5	1144.6
25°	1377.4	1316.3	1214.7	1087.4	1043.0
27.5°	1348.4	1273.2	1136.2	989.6	942.0
30°	1314.4	1221.1	1050.1	893.8	848.8
32.5°	1274.5	1162.6	959.4	807.6	765.9
35°	1230.1	1095.1	870.7	731.1	698.3
37.5°	1179.3	1021.1	788.4	669.4	648.2
40°	1121.4	940.8	712.5	621.8	614.7
42.5°	1059.1	862.3	647.5	590.9	597.4
45°	985.1	780.6	592.9	571.7	589.0
47.5°	907.3	700.9	548.5	560.7	585.8
50°	832.1	627.0	513.8	553.7	583.2
52.5°	738.8	560.7	486.1	547.2	579.4
55°	658.5	497.7	463.0	538.2	571.7
57.5°	565.9	441.1	442.4	526.6	560.1
60°	488.7	389.7	422.5	510.6	542.7
62.5°	410.3	343.4	400.6	489.3	518.3
65°	336.3	300.9	376.8	461.7	486.1
67.5°	274.6	262.4	349.8	428.3	448.8
70°	222.5	227.0	320.2	391.0	408.3
72.5°	171.0	194.2	288.1	351.1	365.9
75°	130.5	163.3	254.0	311.2	324.1
77.5°	96.5	136.3	223.1	275.2	286.1
80°	68.2	112.5	194.2	243.7	252.1
82.5°	45.7	92.6	170.4	215.4	223.1
85°	26.4	75.9	149.8	191.6	196.8
87.5°	10.9	63.0	133.1	167.2	169.8
90°	1.3	53.4	118.3	142.8	141.5
92.5°	1.3	48.2	105.5	119.6	116.4
95°	1.3	45.0	93.9	100.3	97.1
97.5°	1.3	43.1	83.6	86.2	83.0
100°	0.6	41.8	76.5	76.5	73.3
102.5°	0.6	40.5	71.4	69.4	66.9
105°	0.6	39.2	67.5	65.6	62.4
107.5°	0.6	38.6	64.9	63.0	59.8
110°	0.6	37.3	63.0	61.1	58.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	36.7	61.7	60.4	57.2
115°	0.6	35.4	59.8	59.2	57.2
117.5°	0.6	34.1	58.5	58.5	56.6
120°	0.6	32.8	56.6	57.9	55.9
122.5°	0.6	31.5	54.7	56.6	54.7
125°	0.6	30.2	52.7	55.3	54.0
127.5°	1.3	28.3	50.2	54.0	52.7
130°	0.6	26.4	47.6	52.7	52.1
132.5°	1.3	24.4	45.0	50.8	50.8
135°	1.3	22.5	41.8	48.9	48.9
137.5°	1.3	19.9	38.6	46.3	46.9
140°	1.3	18.0	35.4	43.7	45.0
142.5°	1.3	16.1	32.2	41.2	43.1
145°	1.3	14.1	28.9	37.9	40.5
147.5°	1.3	12.9	25.7	34.1	37.9
150°	1.3	10.9	23.1	30.9	34.7
152.5°	1.3	9.6	20.6	27.7	32.2
155°	1.3	9.0	18.0	23.8	28.9
157.5°	1.3	7.7	15.4	20.6	25.7
160°	1.3	6.4	12.9	18.0	21.9
162.5°	1.3	5.8	10.9	14.8	19.3
165°	1.3	5.1	9.0	11.6	15.4
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)