

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: P284762

Luminaire Tested: **8SNLED-LD5-130HL-SLW-UNV-L950-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P284762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-130HL-SLW-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9534.1 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

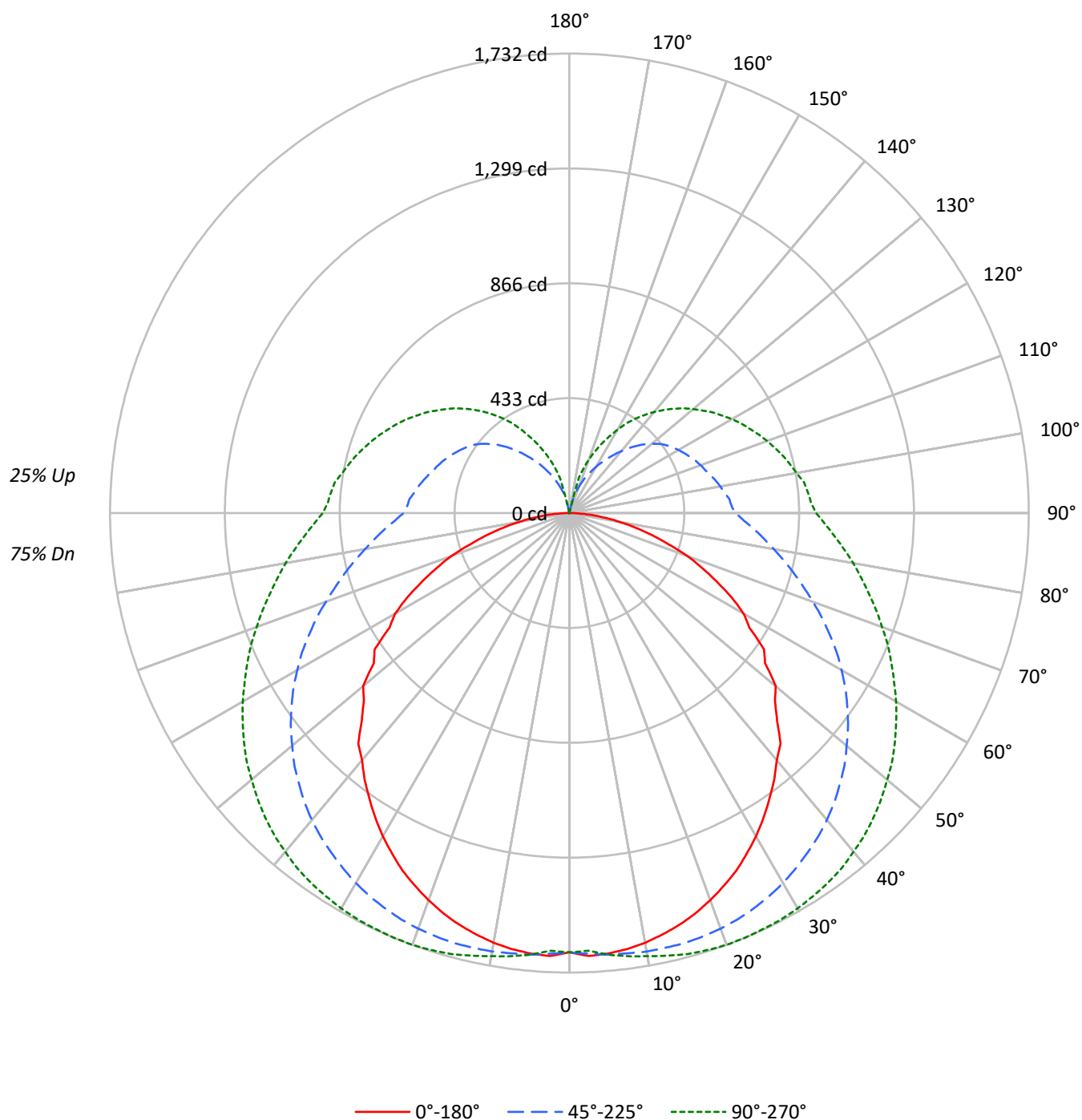
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75		
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56		
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44		
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36		
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30		
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25		
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22		
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19		
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17		
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15		
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6691	6691	6691
5°	6751	6617	6562
10°	6728	6565	6526
15°	6691	6536	6540
20°	6638	6512	6552
25°	6585	6494	6562
30°	6505	6480	6598
35°	6416	6463	6642
40°	6333	6466	6686
45°	6228	6457	6739
50°	6264	6451	6793
55°	6174	6460	6873
60°	5974	6475	6966
65°	5676	6495	7096
70°	5356	6559	7296
75°	4762	6731	7591
80°	4123	7083	8079
85°	3257	7788	8794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	1.7
10°-20°	471.6	4.9
20°-30°	749.6	7.9
30°-40°	962.1	10.1
40°-50°	1086.4	11.4
50°-60°	1108.5	11.6
60°-70°	1027.0	10.8
70°-80°	869.5	9.1
80°-90°	694.1	7.3
90°-100°	589.4	6.2
100°-110°	525.1	5.5
110°-120°	447.2	4.7
120°-130°	355.2	3.7
130°-140°	252.0	2.6
140°-150°	150.5	1.6
150°-160°	70.1	0.7
160°-170°	16.7	0.2
170°-180°	0.0	0.0
0°-30°	1380.4	14.5
0°-40°	2342.4	24.6
0°-60°	4537.4	47.6
0°-90°	7127.9	74.8
90°-120°	1561.6	16.4
90°-150°	2319.3	24.3
90°-180°	2406.0	25.2
0°-180°	9534.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1656	1656	1656	1656	1656	
5°	1667	1654	1671	1671	1671	158
15°	1606	1620	1678	1709	1721	453
25°	1488	1537	1644	1702	1730	685
35°	1315	1412	1564	1660	1701	823
45°	1107	1257	1442	1568	1622	860
55°	896	1046	1279	1436	1499	787
65°	614	818	1082	1268	1340	609
75°	323	571	876	1091	1167	343
85°	83	368	699	925	1004	90
90°	4	300	625	851	930	7
95°	0	282	605	826	903	0
105°	0	260	551	759	834	0
115°	0	242	502	683	750	0
125°	0	209	446	603	661	0
135°	0	155	358	508	556	0
145°	0	101	251	381	435	1
155°	2	63	155	233	289	1
165°	2	34	70	96	137	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°	1655.9	1655.9	1655.9	1655.9	1655.9
2.5°	1671.0	1653.5	1662.5	1660.1	1651.0
5°	1666.8	1653.5	1671.0	1671.0	1671.0
7.5°	1657.7	1648.6	1673.4	1682.5	1684.9
10°	1644.4	1644.4	1678.2	1691.5	1695.8
12.5°	1626.3	1632.9	1678.2	1698.2	1709.1
15°	1606.3	1619.6	1678.2	1709.1	1720.6
17.5°	1581.5	1603.9	1673.4	1711.5	1727.2
20°	1552.5	1586.4	1666.8	1711.5	1732.0
22.5°	1521.1	1564.0	1657.7	1707.3	1732.0
25°	1487.8	1536.8	1644.4	1702.4	1729.6
27.5°	1447.3	1510.2	1628.7	1695.8	1727.2
30°	1406.8	1478.7	1610.5	1686.7	1720.6
32.5°	1362.1	1444.9	1588.2	1673.4	1711.5
35°	1314.9	1411.6	1564.0	1660.1	1700.6
37.5°	1267.8	1371.1	1539.2	1642.0	1686.7
40°	1216.4	1330.6	1510.2	1619.6	1666.8
42.5°	1178.3	1288.3	1478.7	1597.2	1646.8
45°	1106.9	1256.9	1442.5	1568.2	1622.0
47.5°	1050.7	1196.4	1406.8	1539.2	1594.8
50°	1015.0	1146.8	1364.5	1505.3	1564.0
52.5°	929.8	1113.6	1324.0	1472.1	1534.4
55°	896.0	1046.5	1279.2	1435.8	1498.7
57.5°	804.1	999.3	1234.5	1395.9	1460.6
60°	759.3	934.0	1184.9	1355.4	1422.5
62.5°	689.8	878.4	1136.0	1310.7	1380.2
65°	613.6	818.0	1082.2	1267.8	1339.7
67.5°	542.3	757.5	1030.8	1223.0	1299.2
70°	472.8	694.6	977.0	1178.3	1254.5
72.5°	391.8	631.8	925.0	1136.0	1212.1
75°	322.8	571.3	876.0	1091.2	1167.4
77.5°	255.1	513.3	828.8	1050.7	1126.9
80°	192.9	457.0	781.7	1008.4	1086.4
82.5°	134.2	409.9	739.4	967.9	1044.1
85°	82.8	367.6	698.9	925.0	1003.6
87.5°	38.1	329.5	658.4	885.1	965.5
90°	4.2	300.5	625.1	851.2	929.8
92.5°	2.4	291.4	611.8	835.5	911.7
95°	0.0	282.3	605.2	826.4	902.6
97.5°	0.0	273.3	589.4	813.1	891.7
100°	0.0	269.0	578.0	793.2	869.3
102.5°	0.0	262.4	564.7	775.0	851.2
105°	0.0	260.0	551.4	759.3	833.7
107.5°	0.0	255.1	537.4	739.4	813.1
110°	0.0	250.9	526.6	721.2	793.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	246.7	515.1	703.7	772.6
115°	0.0	241.8	501.8	683.1	750.3
117.5°	0.0	235.2	488.5	663.2	730.3
120°	0.0	226.1	475.2	645.1	707.9
122.5°	0.0	217.0	461.3	622.7	683.1
125°	0.0	208.6	445.6	602.7	660.8
127.5°	0.0	194.7	428.0	580.4	634.2
130°	0.0	181.4	405.7	558.0	609.4
132.5°	2.4	168.1	383.3	533.2	584.6
135°	0.0	154.8	358.5	508.4	555.6
137.5°	0.0	143.3	331.3	481.8	526.6
140°	0.0	130.0	304.7	450.4	497.5
142.5°	0.0	114.3	278.1	416.5	466.1
145°	0.0	101.0	250.9	380.9	434.7
147.5°	2.4	89.5	226.1	342.8	400.8
150°	2.4	80.4	201.9	304.7	362.7
152.5°	2.4	71.9	177.1	269.0	324.6
155°	2.4	62.9	154.8	232.8	289.0
157.5°	2.4	53.8	130.0	197.1	250.9
160°	2.4	47.2	107.6	165.6	215.2
162.5°	2.4	40.5	87.7	130.0	177.1
165°	2.4	33.9	69.5	96.1	136.6
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)