

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: P284602

Luminaire Tested: **8SNLED-LD5-90SL-SLW-UNV-L850-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: P284602
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-LD5-90SL-SLW-UNV-L850-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: 9118.0 lumens
Efficiency: N/A
Efficacy: 111.2 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

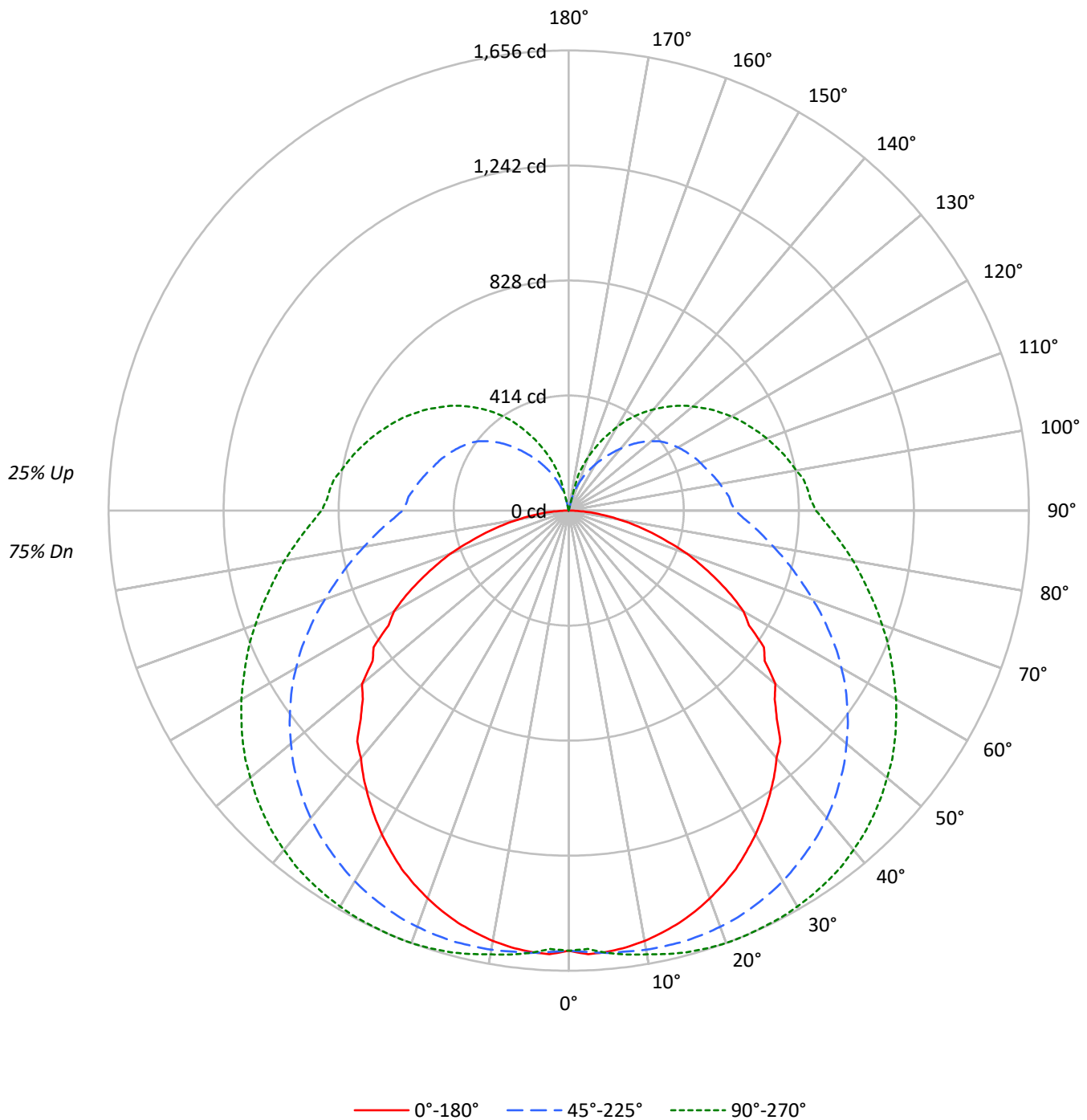
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6399	6399	6399
5°	6456	6329	6276
10°	6434	6279	6241
15°	6399	6251	6254
20°	6348	6227	6266
25°	6298	6210	6276
30°	6221	6197	6310
35°	6136	6181	6353
40°	6056	6183	6394
45°	5956	6175	6445
50°	5991	6170	6496
55°	5905	6179	6573
60°	5714	6192	6662
65°	5428	6211	6786
70°	5121	6273	6977
75°	4554	6437	7260
80°	3941	6774	7727
85°	3115	7448	8410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.2	1.7
10°-20°	451.1	4.9
20°-30°	716.9	7.9
30°-40°	920.1	10.1
40°-50°	1039.0	11.4
50°-60°	1060.2	11.6
60°-70°	982.2	10.8
70°-80°	831.5	9.1
80°-90°	663.7	7.3
90°-100°	563.6	6.2
100°-110°	502.2	5.5
110°-120°	427.7	4.7
120°-130°	339.7	3.7
130°-140°	241.0	2.6
140°-150°	143.9	1.6
150°-160°	67.1	0.7
160°-170°	15.9	0.2
170°-180°	0.0	0.0
0°-30°	1320.1	14.5
0°-40°	2240.2	24.6
0°-60°	4339.4	47.6
0°-90°	6816.9	74.8
90°-120°	1493.5	16.4
90°-150°	2218.1	24.3
90°-180°	2301.0	25.2
0°-180°	9118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1594	1581	1598	1598	1598	151
15°	1536	1549	1605	1634	1646	433
25°	1423	1470	1573	1628	1654	655
35°	1258	1350	1496	1588	1626	787
45°	1059	1202	1380	1500	1551	822
55°	857	1001	1223	1373	1433	752
65°	587	782	1035	1212	1281	582
75°	309	546	838	1044	1116	328
85°	79	352	668	885	960	86
90°	4	287	598	814	889	6
95°	0	270	579	790	863	0
105°	0	249	527	726	797	0
115°	0	231	480	653	718	0
125°	0	200	426	576	632	0
135°	0	148	343	486	531	0
145°	0	97	240	364	416	1
155°	2	60	148	223	276	1
165°	2	32	66	92	131	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°	1583.6	1583.6	1583.6	1583.6	1583.6
2.5°	1598.1	1581.3	1590.0	1587.7	1579.0
5°	1594.0	1581.3	1598.1	1598.1	1598.1
7.5°	1585.4	1576.7	1600.4	1609.1	1611.4
10°	1572.6	1572.6	1605.0	1617.7	1621.8
12.5°	1555.3	1561.7	1605.0	1624.1	1634.5
15°	1536.2	1548.9	1605.0	1634.5	1645.5
17.5°	1512.5	1533.9	1600.4	1636.8	1651.8
20°	1484.8	1517.1	1594.0	1636.8	1656.5
22.5°	1454.7	1495.7	1585.4	1632.8	1656.5
25°	1422.9	1469.7	1572.6	1628.1	1654.2
27.5°	1384.2	1444.3	1557.6	1621.8	1651.8
30°	1345.4	1414.2	1540.3	1613.1	1645.5
32.5°	1302.6	1381.8	1518.9	1600.4	1636.8
35°	1257.5	1350.0	1495.7	1587.7	1626.4
37.5°	1212.4	1311.3	1472.0	1570.3	1613.1
40°	1163.3	1272.6	1444.3	1548.9	1594.0
42.5°	1126.9	1232.1	1414.2	1527.5	1575.0
45°	1058.6	1202.0	1379.5	1499.8	1551.2
47.5°	1004.9	1144.2	1345.4	1472.0	1525.2
50°	970.8	1096.8	1304.9	1439.7	1495.7
52.5°	889.2	1065.0	1266.2	1407.9	1467.4
55°	856.9	1000.8	1223.4	1373.2	1433.3
57.5°	769.0	955.7	1180.6	1335.0	1396.9
60°	726.2	893.3	1133.2	1296.3	1360.4
62.5°	659.7	840.1	1086.4	1253.5	1320.0
65°	586.8	782.3	1034.9	1212.4	1281.2
67.5°	518.6	724.5	985.8	1169.7	1242.5
70°	452.1	664.3	934.3	1126.9	1199.7
72.5°	374.7	604.2	884.6	1086.4	1159.2
75°	308.7	546.4	837.8	1043.6	1116.5
77.5°	244.0	490.9	792.7	1004.9	1077.7
80°	184.4	437.1	747.6	964.4	1039.0
82.5°	128.4	392.0	707.1	925.7	998.5
85°	79.2	351.5	668.4	884.6	959.8
87.5°	36.4	315.1	629.6	846.4	923.3
90°	4.0	287.4	597.8	814.1	889.2
92.5°	2.3	278.7	585.1	799.0	871.9
95°	0.0	270.0	578.8	790.4	863.2
97.5°	0.0	261.3	563.7	777.6	852.8
100°	0.0	257.3	552.7	758.6	831.4
102.5°	0.0	250.9	540.0	741.2	814.1
105°	0.0	248.6	527.3	726.2	797.3
107.5°	0.0	244.0	514.0	707.1	777.6
110°	0.0	239.9	503.6	689.8	758.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	235.9	492.6	673.0	738.9
115°	0.0	231.3	479.9	653.3	717.5
117.5°	0.0	224.9	467.2	634.3	698.4
120°	0.0	216.2	454.4	616.9	677.0
122.5°	0.0	207.6	441.1	595.5	653.3
125°	0.0	199.5	426.1	576.4	631.9
127.5°	0.0	186.2	409.3	555.0	606.5
130°	0.0	173.5	388.0	533.7	582.8
132.5°	2.3	160.7	366.6	510.0	559.1
135°	0.0	148.0	342.9	486.2	531.3
137.5°	0.0	137.0	316.8	460.8	503.6
140°	0.0	124.3	291.4	430.7	475.8
142.5°	0.0	109.3	266.0	398.4	445.8
145°	0.0	96.6	239.9	364.3	415.7
147.5°	2.3	85.6	216.2	327.8	383.3
150°	2.3	76.9	193.1	291.4	346.9
152.5°	2.3	68.8	169.4	257.3	310.5
155°	2.3	60.1	148.0	222.6	276.4
157.5°	2.3	51.5	124.3	188.5	239.9
160°	2.3	45.1	102.9	158.4	205.8
162.5°	2.3	38.7	83.8	124.3	169.4
165°	2.3	32.4	66.5	91.9	130.7
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)