

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: P284485

Luminaire Tested: **8SNLED-LD5-90SL-SLW-UNV-L830-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: P284485
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-L830-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: 8814.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

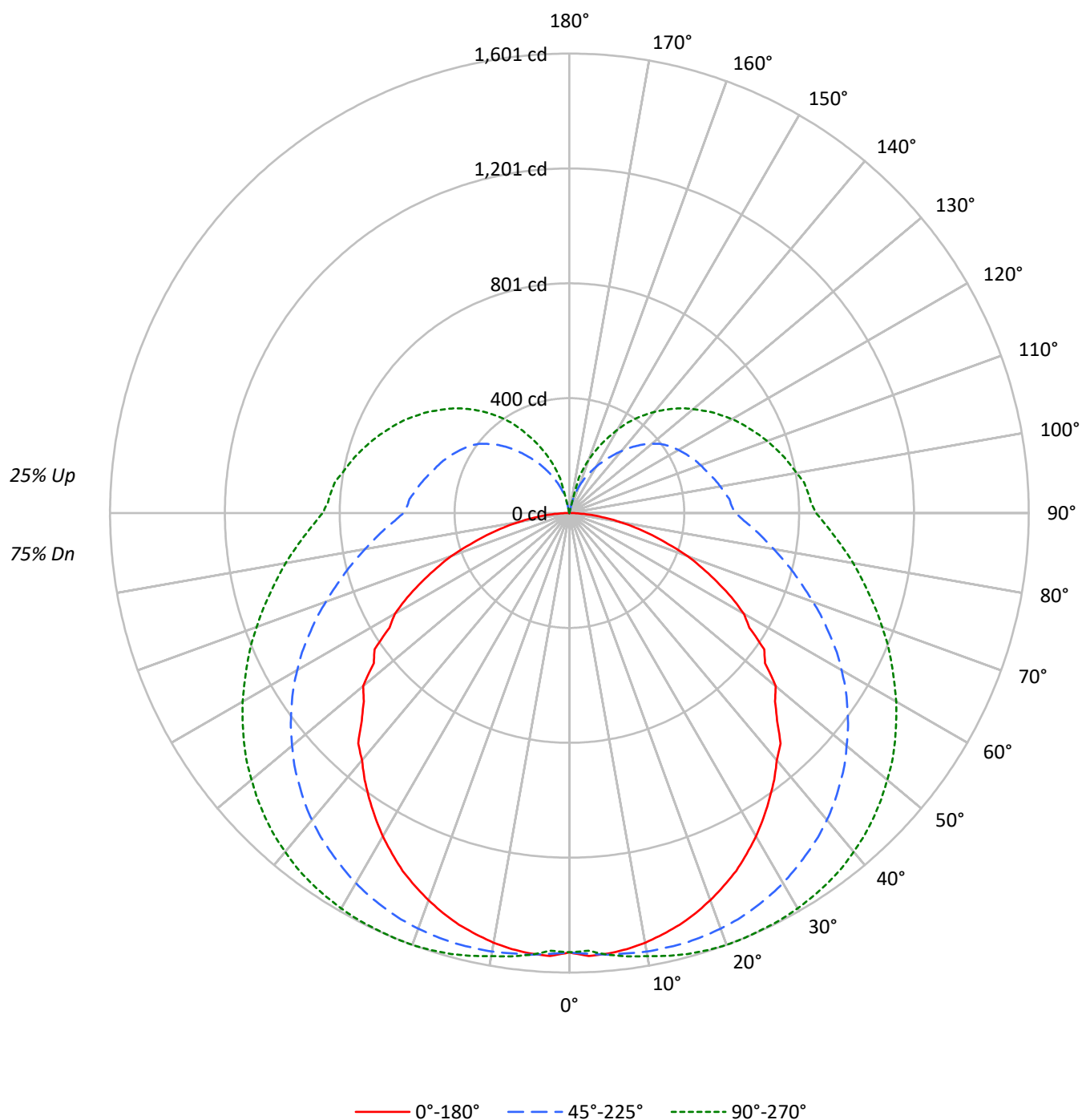
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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°	6185	6185	6185
5°	6241	6118	6066
10°	6220	6070	6033
15°	6186	6042	6045
20°	6137	6020	6057
25°	6088	6003	6067
30°	6014	5990	6099
35°	5931	5975	6141
40°	5854	5977	6181
45°	5757	5969	6230
50°	5791	5964	6280
55°	5708	5972	6354
60°	5523	5986	6440
65°	5248	6004	6560
70°	4951	6064	6744
75°	4403	6222	7017
80°	3811	6548	7469
85°	3013	7200	8130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	1.7
10°-20°	436.0	4.9
20°-30°	693.0	7.9
30°-40°	889.4	10.1
40°-50°	1004.4	11.4
50°-60°	1024.8	11.6
60°-70°	949.5	10.8
70°-80°	803.8	9.1
80°-90°	641.6	7.3
90°-100°	544.8	6.2
100°-110°	485.4	5.5
110°-120°	413.4	4.7
120°-130°	328.4	3.7
130°-140°	233.0	2.6
140°-150°	139.1	1.6
150°-160°	64.8	0.7
160°-170°	15.4	0.2
170°-180°	0.0	0.0
0°-30°	1276.1	14.5
0°-40°	2165.5	24.6
0°-60°	4194.7	47.6
0°-90°	6589.6	74.8
90°-120°	1443.7	16.4
90°-150°	2144.1	24.3
90°-180°	2224.0	25.2
0°-180°	8814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1531	1531	1531	1531	1531	
5°	1541	1529	1545	1545	1545	146
15°	1485	1497	1552	1580	1591	419
25°	1376	1421	1520	1574	1599	633
35°	1216	1305	1446	1535	1572	761
45°	1023	1162	1334	1450	1500	795
55°	828	968	1183	1327	1386	727
65°	567	756	1000	1172	1238	563
75°	298	528	810	1009	1079	318
85°	77	340	646	855	928	84
90°	4	278	578	787	860	6
95°	0	261	560	764	834	0
105°	0	240	510	702	771	0
115°	0	224	464	632	694	0
125°	0	193	412	557	611	0
135°	0	143	331	470	514	0
145°	0	93	232	352	402	1
155°	2	58	143	215	267	1
165°	2	31	64	89	126	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°	1530.8	1530.8	1530.8	1530.8	1530.8
2.5°	1544.8	1528.6	1537.0	1534.7	1526.4
5°	1540.9	1528.6	1544.8	1544.8	1544.8
7.5°	1532.5	1524.1	1547.0	1555.4	1557.7
10°	1520.2	1520.2	1551.5	1563.8	1567.7
12.5°	1503.4	1509.6	1551.5	1569.9	1580.0
15°	1485.0	1497.3	1551.5	1580.0	1590.6
17.5°	1462.1	1482.8	1547.0	1582.2	1596.8
20°	1435.3	1466.6	1540.9	1582.2	1601.2
22.5°	1406.2	1445.9	1532.5	1578.3	1601.2
25°	1375.5	1420.7	1520.2	1573.9	1599.0
27.5°	1338.0	1396.1	1505.7	1567.7	1596.8
30°	1300.6	1367.1	1488.9	1559.3	1590.6
32.5°	1259.2	1335.8	1468.2	1547.0	1582.2
35°	1215.6	1305.0	1445.9	1534.7	1572.2
37.5°	1172.0	1267.6	1423.0	1518.0	1559.3
40°	1124.5	1230.1	1396.1	1497.3	1540.9
42.5°	1089.3	1191.0	1367.1	1476.6	1522.4
45°	1023.3	1162.0	1333.5	1449.8	1499.5
47.5°	971.4	1106.1	1300.6	1423.0	1474.4
50°	938.4	1060.2	1261.4	1391.7	1445.9
52.5°	859.6	1029.5	1224.0	1360.9	1418.5
55°	828.3	967.5	1182.6	1327.4	1385.5
57.5°	743.3	923.9	1141.3	1290.5	1350.3
60°	702.0	863.5	1095.4	1253.1	1315.1
62.5°	637.7	812.1	1050.2	1211.7	1276.0
65°	567.3	756.2	1000.4	1172.0	1238.5
67.5°	501.3	700.3	952.9	1130.7	1201.1
70°	437.1	642.2	903.2	1089.3	1159.7
72.5°	362.2	584.0	855.1	1050.2	1120.6
75°	298.5	528.2	809.8	1008.8	1079.2
77.5°	235.9	474.5	766.3	971.4	1041.8
80°	178.3	422.5	722.7	932.2	1004.3
82.5°	124.1	378.9	683.5	894.8	965.2
85°	76.6	339.8	646.1	855.1	927.8
87.5°	35.2	304.6	608.6	818.2	892.6
90°	3.9	277.8	577.9	786.9	859.6
92.5°	2.2	269.4	565.6	772.4	842.8
95°	0.0	261.0	559.5	764.0	834.4
97.5°	0.0	252.6	544.9	751.7	824.4
100°	0.0	248.7	534.3	733.3	803.7
102.5°	0.0	242.6	522.0	716.5	786.9
105°	0.0	240.3	509.7	702.0	770.7
107.5°	0.0	235.9	496.9	683.5	751.7
110°	0.0	231.9	486.8	666.8	733.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	228.0	476.2	650.6	714.3
115°	0.0	223.6	463.9	631.6	693.6
117.5°	0.0	217.4	451.6	613.1	675.2
120°	0.0	209.0	439.3	596.3	654.5
122.5°	0.0	200.6	426.4	575.7	631.6
125°	0.0	192.8	411.9	557.2	610.9
127.5°	0.0	180.0	395.7	536.5	586.3
130°	0.0	167.7	375.0	515.9	563.4
132.5°	2.2	155.4	354.3	492.9	540.5
135°	0.0	143.1	331.4	470.0	513.6
137.5°	0.0	132.5	306.3	445.4	486.8
140°	0.0	120.2	281.7	416.4	460.0
142.5°	0.0	105.6	257.1	385.1	430.9
145°	0.0	93.3	231.9	352.1	401.8
147.5°	2.2	82.7	209.0	316.9	370.6
150°	2.2	74.3	186.7	281.7	335.3
152.5°	2.2	66.5	163.8	248.7	300.1
155°	2.2	58.1	143.1	215.2	267.2
157.5°	2.2	49.7	120.2	182.2	231.9
160°	2.2	43.6	99.5	153.1	199.0
162.5°	2.2	37.4	81.0	120.2	163.8
165°	2.2	31.3	64.3	88.9	126.3
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)