

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: P284524

Luminaire Tested: **8SNLED-LD5-90SL-SLW-UNV-L835-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: P284524
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-L835-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: 8966.0 lumens
Efficiency: N/A
Efficacy: 109.3 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

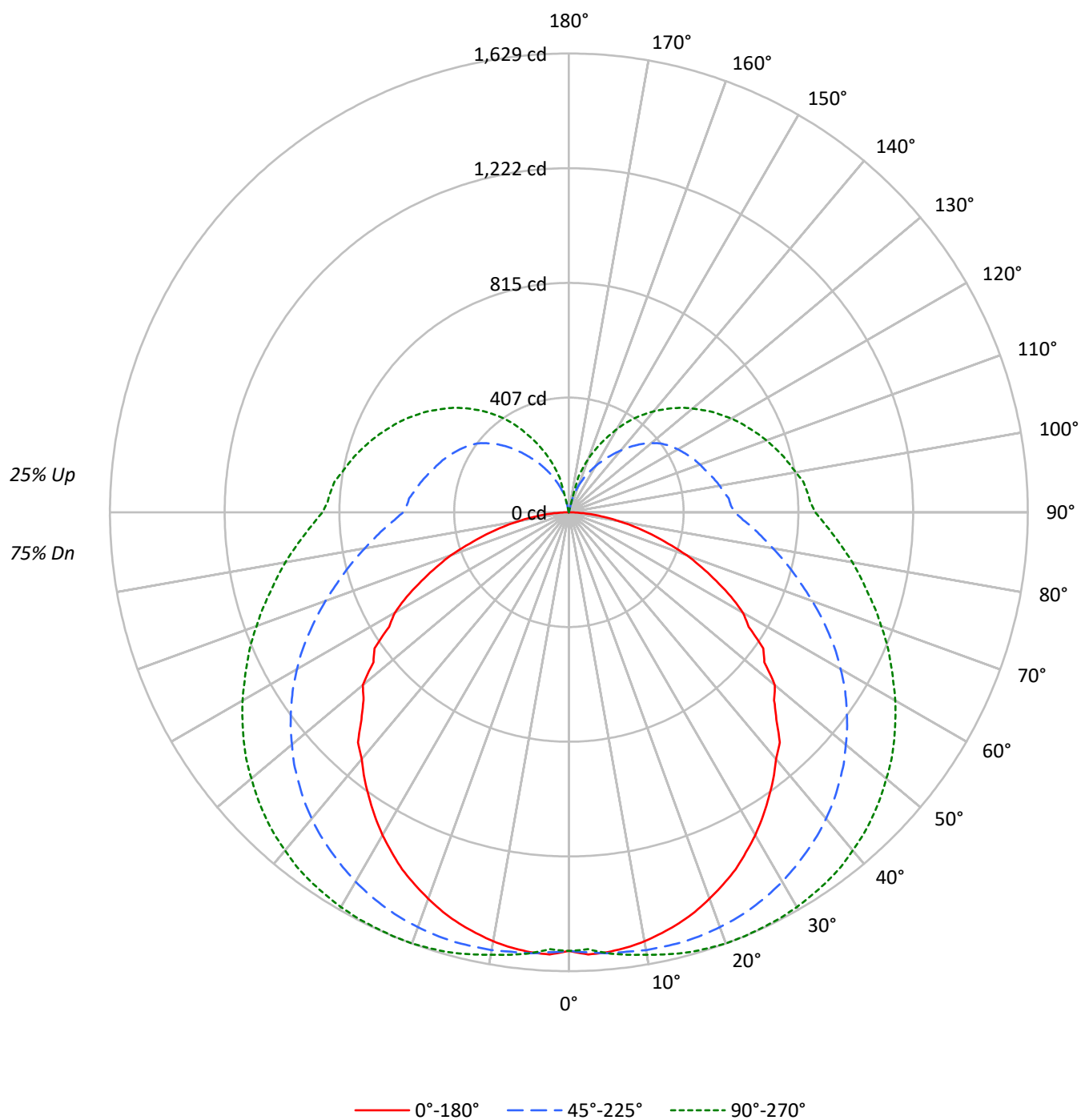
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6292	6292	6292
5°	6349	6223	6171
10°	6327	6175	6137
15°	6293	6147	6150
20°	6242	6124	6162
25°	6193	6107	6171
30°	6117	6094	6205
35°	6034	6078	6247
40°	5955	6080	6287
45°	5857	6072	6337
50°	5891	6067	6388
55°	5806	6075	6463
60°	5619	6089	6551
65°	5339	6108	6673
70°	5036	6169	6861
75°	4478	6330	7138
80°	3877	6661	7598
85°	3064	7324	8270



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	1.7
10°-20°	443.5	4.9
20°-30°	704.9	7.9
30°-40°	904.7	10.1
40°-50°	1021.7	11.4
50°-60°	1042.5	11.6
60°-70°	965.8	10.8
70°-80°	817.7	9.1
80°-90°	652.7	7.3
90°-100°	554.3	6.2
100°-110°	493.8	5.5
110°-120°	420.6	4.7
120°-130°	334.0	3.7
130°-140°	237.0	2.6
140°-150°	141.5	1.6
150°-160°	66.0	0.7
160°-170°	15.7	0.2
170°-180°	0.0	0.0
0°-30°	1298.1	14.5
0°-40°	2202.9	24.6
0°-60°	4267.1	47.6
0°-90°	6703.3	74.8
90°-120°	1468.6	16.4
90°-150°	2181.1	24.3
90°-180°	2263.0	25.2
0°-180°	8966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1557	1557	1557	1557	1557	
5°	1568	1555	1571	1571	1571	149
15°	1511	1523	1578	1607	1618	426
25°	1399	1445	1546	1601	1627	644
35°	1237	1328	1471	1561	1599	774
45°	1041	1182	1356	1475	1525	808
55°	843	984	1203	1350	1409	740
65°	577	769	1018	1192	1260	573
75°	304	537	824	1026	1098	323
85°	78	346	657	870	944	85
90°	4	283	588	800	874	6
95°	0	266	569	777	849	0
105°	0	244	518	714	784	0
115°	0	227	472	642	706	0
125°	0	196	419	567	621	0
135°	0	146	337	478	522	0
145°	0	95	236	358	409	1
155°	2	59	146	219	272	1
165°	2	32	65	90	128	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°	1557.2	1557.2	1557.2	1557.2	1557.2
2.5°	1571.4	1555.0	1563.5	1561.2	1552.7
5°	1567.5	1555.0	1571.4	1571.4	1571.4
7.5°	1558.9	1550.4	1573.7	1582.2	1584.5
10°	1546.4	1546.4	1578.3	1590.8	1594.7
12.5°	1529.4	1535.6	1578.3	1597.0	1607.3
15°	1510.6	1523.1	1578.3	1607.3	1618.1
17.5°	1487.3	1508.3	1573.7	1609.5	1624.3
20°	1460.0	1491.8	1567.5	1609.5	1628.9
22.5°	1430.4	1470.8	1558.9	1605.6	1628.9
25°	1399.2	1445.2	1546.4	1601.0	1626.6
27.5°	1361.1	1420.2	1531.6	1594.7	1624.3
30°	1323.0	1390.6	1514.6	1586.2	1618.1
32.5°	1280.9	1358.8	1493.5	1573.7	1609.5
35°	1236.6	1327.5	1470.8	1561.2	1599.3
37.5°	1192.2	1289.4	1447.5	1544.1	1586.2
40°	1143.9	1251.4	1420.2	1523.1	1567.5
42.5°	1108.1	1211.6	1390.6	1502.1	1548.7
45°	1041.0	1182.0	1356.5	1474.8	1525.4
47.5°	988.1	1125.1	1323.0	1447.5	1499.8
50°	954.6	1078.5	1283.2	1415.7	1470.8
52.5°	874.4	1047.2	1245.1	1384.4	1442.9
55°	842.6	984.1	1203.0	1350.3	1409.4
57.5°	756.2	939.8	1161.0	1312.8	1373.6
60°	714.1	878.4	1114.3	1274.7	1337.8
62.5°	648.7	826.1	1068.3	1232.6	1298.0
65°	577.1	769.2	1017.7	1192.2	1259.9
67.5°	510.0	712.4	969.4	1150.2	1221.8
70°	444.6	653.2	918.8	1108.1	1179.7
72.5°	368.4	594.1	869.9	1068.3	1139.9
75°	303.6	537.3	823.8	1026.2	1097.8
77.5°	239.9	482.7	779.5	988.1	1059.8
80°	181.4	429.8	735.1	948.3	1021.7
82.5°	126.2	385.5	695.3	910.2	981.9
85°	77.9	345.7	657.2	869.9	943.8
87.5°	35.8	309.9	619.1	832.3	908.0
90°	4.0	282.6	587.9	800.5	874.4
92.5°	2.3	274.0	575.4	785.7	857.4
95°	0.0	265.5	569.1	777.2	848.8
97.5°	0.0	257.0	554.3	764.7	838.6
100°	0.0	253.0	543.5	745.9	817.6
102.5°	0.0	246.7	531.0	728.9	800.5
105°	0.0	244.5	518.5	714.1	784.0
107.5°	0.0	239.9	505.4	695.3	764.7
110°	0.0	235.9	495.2	678.3	745.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	232.0	484.4	661.8	726.6
115°	0.0	227.4	471.9	642.4	705.6
117.5°	0.0	221.2	459.4	623.7	686.8
120°	0.0	212.6	446.9	606.6	665.8
122.5°	0.0	204.1	433.8	585.6	642.4
125°	0.0	196.1	419.0	566.8	621.4
127.5°	0.0	183.1	402.5	545.8	596.4
130°	0.0	170.6	381.5	524.8	573.1
132.5°	2.3	158.1	360.5	501.5	549.8
135°	0.0	145.5	337.1	478.1	522.5
137.5°	0.0	134.7	311.6	453.1	495.2
140°	0.0	122.2	286.5	423.6	467.9
142.5°	0.0	107.5	261.5	391.7	438.3
145°	0.0	94.9	235.9	358.2	408.8
147.5°	2.3	84.1	212.6	322.4	376.9
150°	2.3	75.6	189.9	286.5	341.1
152.5°	2.3	67.7	166.6	253.0	305.3
155°	2.3	59.1	145.5	218.9	271.8
157.5°	2.3	50.6	122.2	185.3	235.9
160°	2.3	44.3	101.2	155.8	202.4
162.5°	2.3	38.1	82.4	122.2	166.6
165°	2.3	31.8	65.4	90.4	128.5
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)