

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: P284758

Luminaire Tested: **8SNLED-LD5-90SL-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: P284758
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-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: 8219.0 lumens
Efficiency: N/A
Efficacy: 100.2 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

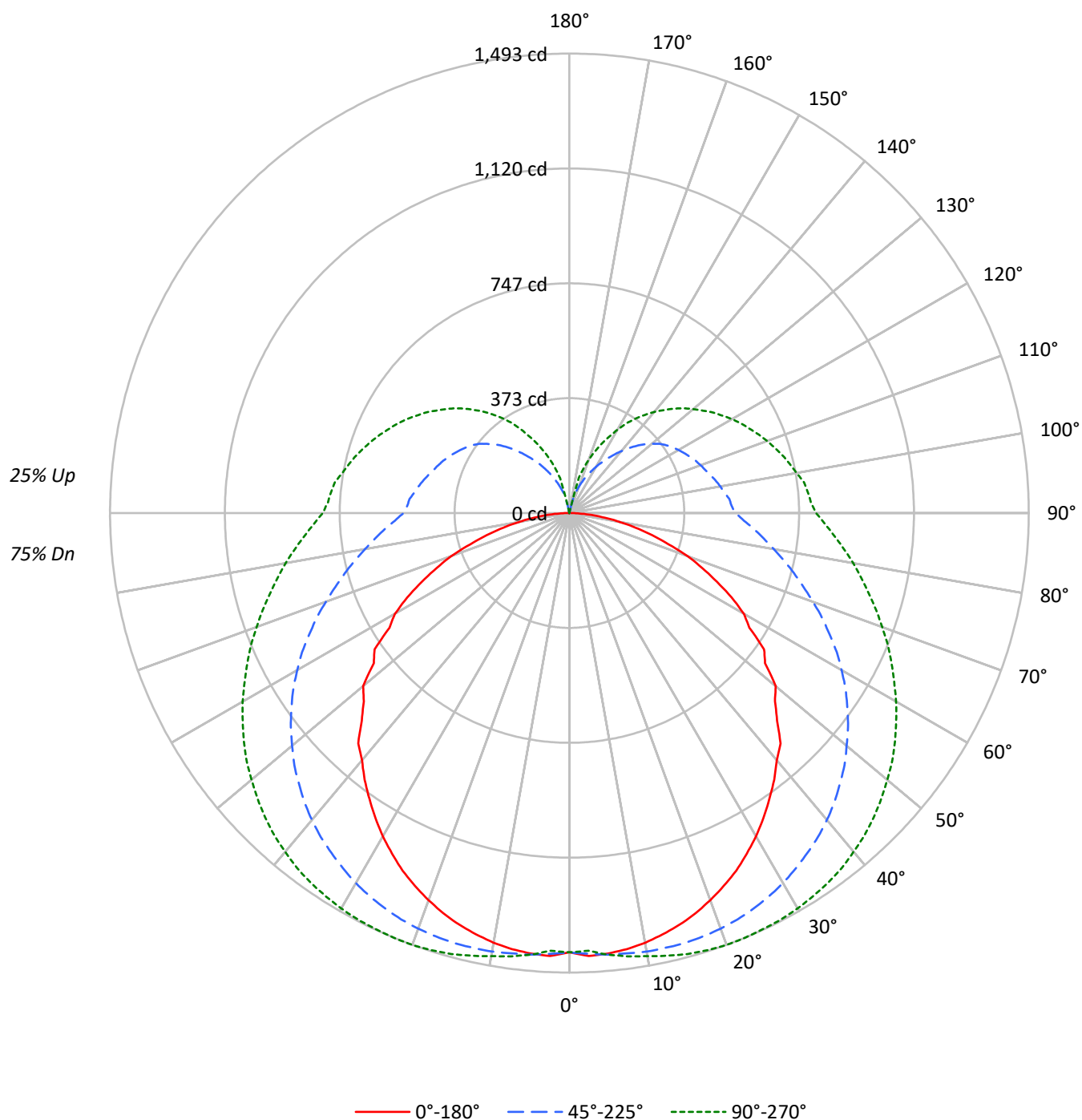
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	5768	5768	5768
5°	5820	5705	5657
10°	5800	5660	5626
15°	5768	5635	5638
20°	5722	5614	5649
25°	5677	5598	5657
30°	5608	5586	5688
35°	5531	5572	5726
40°	5459	5574	5764
45°	5369	5567	5809
50°	5400	5562	5856
55°	5322	5569	5925
60°	5150	5582	6005
65°	4894	5599	6117
70°	4617	5654	6289
75°	4105	5802	6544
80°	3555	6106	6964
85°	2808	6714	7581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	1.7
10°-20°	406.6	4.9
20°-30°	646.2	7.9
30°-40°	829.4	10.1
40°-50°	936.6	11.4
50°-60°	955.6	11.6
60°-70°	885.4	10.8
70°-80°	749.6	9.1
80°-90°	598.3	7.3
90°-100°	508.1	6.2
100°-110°	452.7	5.5
110°-120°	385.5	4.7
120°-130°	306.2	3.7
130°-140°	217.2	2.6
140°-150°	129.7	1.6
150°-160°	60.5	0.7
160°-170°	14.4	0.2
170°-180°	0.0	0.0
0°-30°	1190.0	14.5
0°-40°	2019.4	24.6
0°-60°	3911.6	47.6
0°-90°	6144.8	74.8
90°-120°	1346.2	16.4
90°-150°	1999.4	24.3
90°-180°	2074.0	25.2
0°-180°	8219.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1437	1425	1440	1440	1440	136
15°	1385	1396	1447	1473	1483	391
25°	1283	1325	1418	1468	1491	590
35°	1134	1217	1348	1431	1466	710
45°	954	1084	1244	1352	1398	741
55°	772	902	1103	1238	1292	678
65°	529	705	933	1093	1155	525
75°	278	492	755	941	1006	296
85°	71	317	602	797	865	78
90°	4	259	539	734	802	6
95°	0	243	522	712	778	0
105°	0	224	475	655	719	0
115°	0	208	433	589	647	0
125°	0	180	384	520	570	0
135°	0	133	309	438	479	0
145°	0	87	216	328	375	1
155°	2	54	133	201	249	1
165°	2	29	60	83	118	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°	1427.5	1427.5	1427.5	1427.5	1427.5
2.5°	1440.5	1425.4	1433.2	1431.1	1423.3
5°	1436.9	1425.4	1440.5	1440.5	1440.5
7.5°	1429.0	1421.2	1442.6	1450.4	1452.5
10°	1417.6	1417.6	1446.8	1458.2	1461.9
12.5°	1401.9	1407.7	1446.8	1464.0	1473.3
15°	1384.7	1396.2	1446.8	1473.3	1483.3
17.5°	1363.4	1382.7	1442.6	1475.4	1489.0
20°	1338.4	1367.6	1436.9	1475.4	1493.2
22.5°	1311.3	1348.3	1429.0	1471.8	1493.2
25°	1282.6	1324.8	1417.6	1467.6	1491.1
27.5°	1247.7	1301.9	1404.0	1461.9	1489.0
30°	1212.8	1274.8	1388.4	1454.1	1483.3
32.5°	1174.2	1245.6	1369.1	1442.6	1475.4
35°	1133.5	1216.9	1348.3	1431.1	1466.1
37.5°	1092.9	1182.0	1326.9	1415.5	1454.1
40°	1048.6	1147.1	1301.9	1396.2	1436.9
42.5°	1015.8	1110.6	1274.8	1376.9	1419.7
45°	954.3	1083.5	1243.5	1351.9	1398.3
47.5°	905.8	1031.4	1212.8	1326.9	1374.8
50°	875.0	988.7	1176.3	1297.7	1348.3
52.5°	801.6	960.0	1141.4	1269.0	1322.7
55°	772.4	902.1	1102.8	1237.8	1292.0
57.5°	693.2	861.5	1064.2	1203.4	1259.1
60°	654.6	805.2	1021.5	1168.5	1226.3
62.5°	594.7	757.3	979.3	1129.9	1189.8
65°	529.0	705.1	932.9	1092.9	1154.9
67.5°	467.5	653.0	888.6	1054.3	1120.0
70°	407.6	598.8	842.2	1015.8	1081.4
72.5°	337.7	544.6	797.4	979.3	1044.9
75°	278.3	492.5	755.2	940.7	1006.4
77.5°	219.9	442.5	714.5	905.8	971.5
80°	166.3	394.0	673.9	869.3	936.5
82.5°	115.7	353.4	637.4	834.4	900.1
85°	71.4	316.9	602.5	797.4	865.1
87.5°	32.8	284.0	567.6	763.0	832.3
90°	3.6	259.0	538.9	733.8	801.6
92.5°	2.1	251.2	527.4	720.3	785.9
95°	0.0	243.4	521.7	712.4	778.1
97.5°	0.0	235.6	508.1	701.0	768.7
100°	0.0	231.9	498.2	683.8	749.4
102.5°	0.0	226.2	486.8	668.1	733.8
105°	0.0	224.1	475.3	654.6	718.7
107.5°	0.0	219.9	463.3	637.4	701.0
110°	0.0	216.3	453.9	621.8	683.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	212.6	444.0	606.6	666.1
115°	0.0	208.5	432.6	588.9	646.8
117.5°	0.0	202.7	421.1	571.7	629.6
120°	0.0	194.9	409.6	556.1	610.3
122.5°	0.0	187.1	397.7	536.8	588.9
125°	0.0	179.8	384.1	519.6	569.6
127.5°	0.0	167.8	369.0	500.3	546.7
130°	0.0	156.4	349.7	481.0	525.3
132.5°	2.1	144.9	330.4	459.7	504.0
135°	0.0	133.4	309.1	438.3	479.0
137.5°	0.0	123.5	285.6	415.4	453.9
140°	0.0	112.1	262.7	388.3	428.9
142.5°	0.0	98.5	239.7	359.1	401.8
145°	0.0	87.0	216.3	328.3	374.7
147.5°	2.1	77.1	194.9	295.5	345.5
150°	2.1	69.3	174.1	262.7	312.7
152.5°	2.1	62.0	152.7	231.9	279.9
155°	2.1	54.2	133.4	200.7	249.1
157.5°	2.1	46.4	112.1	169.9	216.3
160°	2.1	40.7	92.8	142.8	185.5
162.5°	2.1	34.9	75.6	112.1	152.7
165°	2.1	29.2	59.9	82.9	117.8
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)