

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213092

Luminaire Tested: 4SNLED-LD5-48SL-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27410)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-48SL-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
OPEN LED STIP
Light Source: -
Ballast/Driver: -

Summary

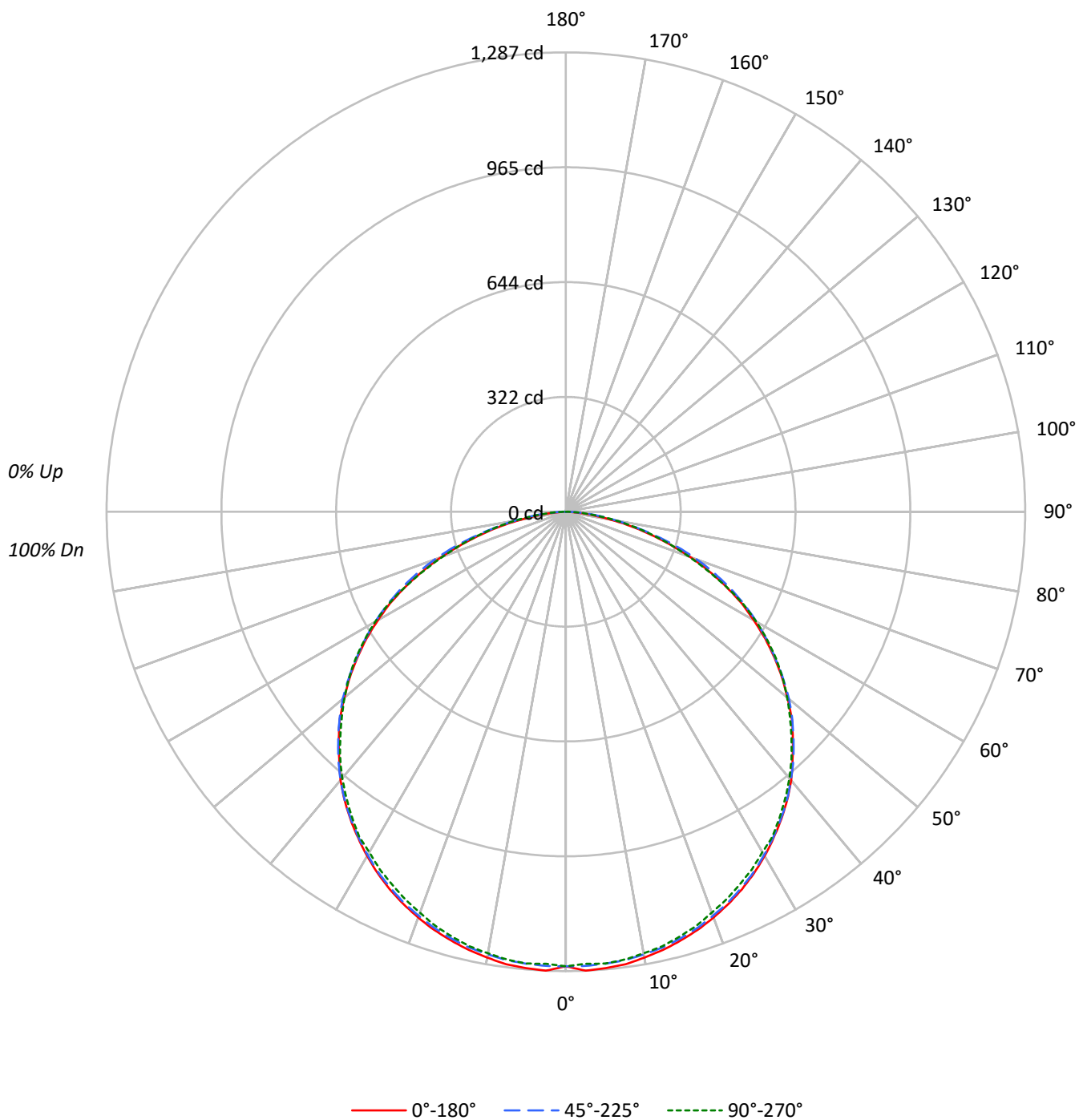
Lumens per Lamp: N/A
Luminaire Lumens: 3820.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 35
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: 24 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	99	96	106	101	98	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	52	46	59	51	46		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10290	10290	10290
5°	10384	10056	9976
10°	10350	9836	9668
15°	10317	9615	9366
20°	10287	9379	9043
25°	10258	9142	8742
30°	10209	8889	8444
35°	10158	8625	8159
40°	10096	8342	7818
45°	9969	8007	7428
50°	9816	7643	7030
55°	9628	7156	6601
60°	9319	6660	6040
65°	8863	6016	5253
70°	8079	5169	4259
75°	6862	3944	3275
80°	5127	2599	2146
85°	2651	1265	959

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9969 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	3.2
10°-20°	348.5	9.1
20°-30°	533.5	14.0
30°-40°	653.7	17.1
40°-50°	691.4	18.1
50°-60°	638.2	16.7
60°-70°	492.6	12.9
70°-80°	273.4	7.2
80°-90°	67.7	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1002.9	26.3
0°-40°	1656.6	43.4
0°-60°	2986.3	78.2
0°-90°	3820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1284	1267	1271	1268	1270	122
15°	1244	1229	1238	1233	1232	351
25°	1167	1153	1163	1153	1152	538
35°	1052	1041	1050	1039	1044	658
45°	900	891	902	893	894	694
55°	714	708	716	716	720	637
65°	495	490	509	505	496	488
75°	245	260	262	261	252	260
85°	39	57	58	59	55	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1273.4	1273.4	1273.4	1273.4	1273.4
2.5°	1286.8	1270.2	1273.4	1271.5	1267.7
5°	1283.6	1267.0	1270.9	1267.7	1270.2
7.5°	1278.5	1260.7	1267.0	1262.6	1265.1
10°	1268.3	1253.1	1259.4	1254.3	1256.2
12.5°	1257.5	1241.6	1250.5	1244.2	1246.7
15°	1243.5	1228.9	1237.8	1233.4	1232.1
17.5°	1228.3	1214.3	1223.2	1218.1	1216.2
20°	1209.8	1196.5	1204.7	1197.1	1195.2
22.5°	1189.5	1176.1	1185.7	1174.9	1175.5
25°	1167.2	1153.2	1162.8	1152.6	1152.0
27.5°	1141.8	1128.5	1138.6	1127.8	1129.1
30°	1113.8	1100.5	1110.7	1099.8	1101.1
32.5°	1083.3	1072.5	1081.4	1071.2	1078.2
35°	1052.2	1040.7	1050.3	1038.8	1044.5
37.5°	1018.5	1007.7	1017.8	1005.1	1010.2
40°	982.2	972.7	981.6	970.2	974.6
42.5°	940.3	934.6	943.5	932.0	935.8
45°	899.6	891.3	902.1	892.6	893.9
47.5°	858.9	850.0	860.2	851.9	851.3
50°	809.9	806.8	816.3	809.9	809.3
52.5°	763.5	757.2	767.3	764.2	766.1
55°	713.9	708.2	716.5	715.9	719.7
57.5°	662.5	656.7	667.5	666.3	669.4
60°	607.8	603.3	617.3	614.1	616.7
62.5°	554.4	546.1	563.9	561.4	560.1
65°	494.6	489.5	508.6	505.4	495.9
67.5°	432.9	431.0	450.7	444.4	428.5
70°	371.3	372.5	391.6	379.5	366.2
72.5°	306.4	316.0	327.4	318.5	309.0
75°	245.4	260.0	261.9	261.3	251.8
77.5°	185.6	204.1	199.6	204.1	196.4
80°	129.7	150.0	146.9	150.7	144.3
82.5°	80.1	98.5	99.2	101.7	96.0
85°	38.8	57.2	58.5	59.1	54.7
87.5°	8.3	26.7	27.3	25.4	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)