

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: P1213122

Luminaire Tested: 4SNLED-LD5-56HL-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213122
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-LD5-56HL-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
OPEN LED STIP
Light Source: -
Ballast/Driver: -

Summary

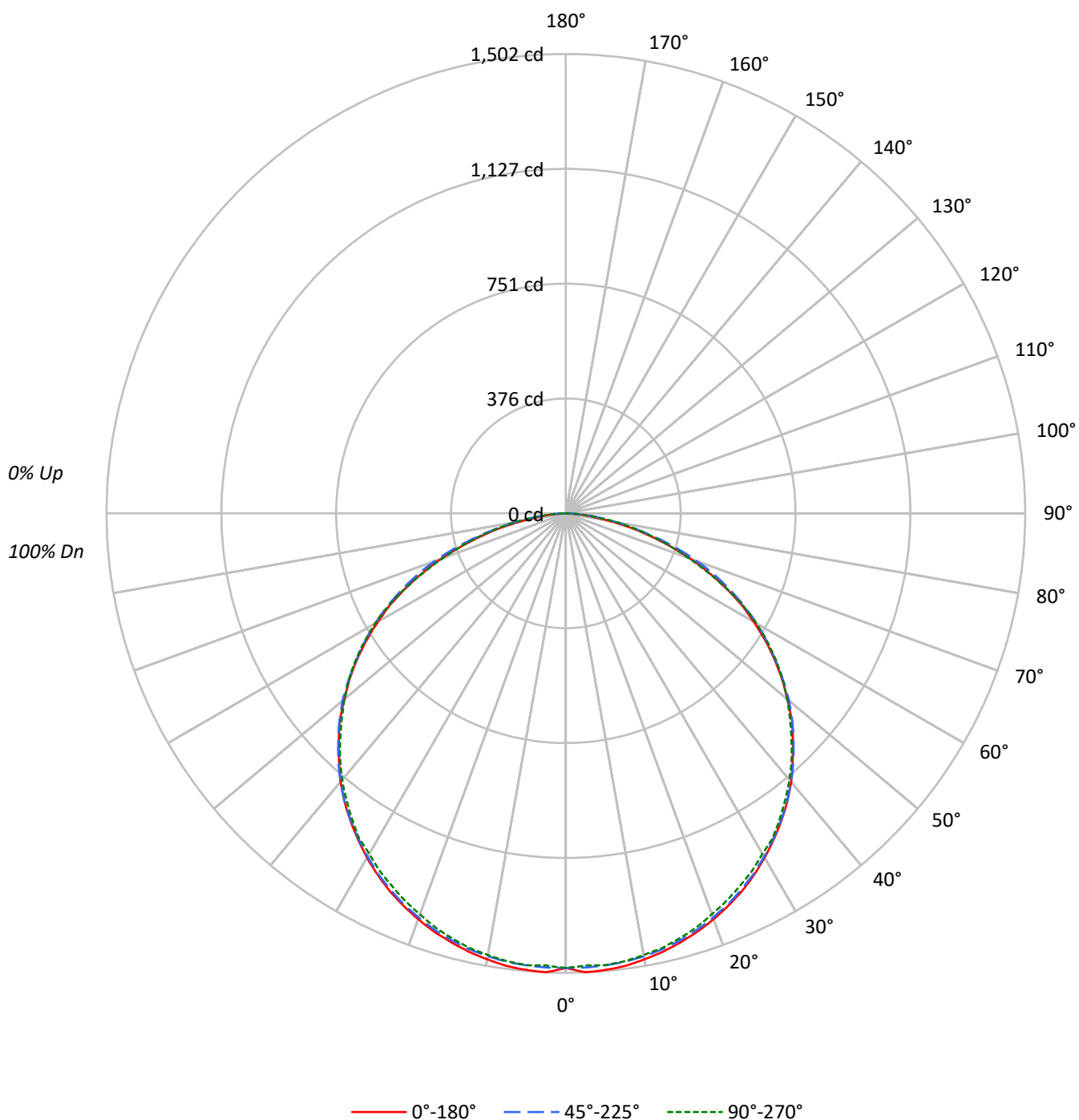
Lumens per Lamp: N/A
Luminaire Lumens: 4459.0 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 37
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°	12012	12012	12012
5°	12121	11739	11645
10°	12082	11481	11286
15°	12043	11223	10932
20°	12008	10948	10555
25°	11974	10671	10204
30°	11917	10375	9857
35°	11857	10067	9525
40°	11785	9738	9126
45°	11637	9347	8670
50°	11459	8922	8206
55°	11240	8353	7705
60°	10877	7775	7050
65°	10347	7022	6132
70°	9430	6034	4971
75°	8008	4604	3822
80°	5985	3032	2506
85°	3095	1477	1118

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11637 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	3.2
10°-20°	406.8	9.1
20°-30°	622.8	14.0
30°-40°	763.0	17.1
40°-50°	807.1	18.1
50°-60°	745.0	16.7
60°-70°	575.0	12.9
70°-80°	319.1	7.2
80°-90°	79.1	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°	1170.7	26.3
0°-40°	1933.8	43.4
0°-60°	3485.8	78.2
0°-90°	4459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4459.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1498	1479	1484	1480	1483	142
15°	1452	1434	1445	1440	1438	410
25°	1362	1346	1357	1345	1345	628
35°	1228	1215	1226	1213	1219	768
45°	1050	1040	1053	1042	1043	810
55°	833	827	836	836	840	744
65°	577	571	594	590	579	569
75°	286	304	306	305	294	304
85°	45	67	68	69	64	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1486.4	1486.4	1486.4	1486.4	1486.4
2.5°	1502.0	1482.7	1486.4	1484.2	1479.7
5°	1498.3	1479.0	1483.5	1479.7	1482.7
7.5°	1492.4	1471.6	1479.0	1473.8	1476.8
10°	1480.5	1462.7	1470.1	1464.2	1466.4
12.5°	1467.9	1449.3	1459.7	1452.3	1455.3
15°	1451.5	1434.5	1444.9	1439.7	1438.2
17.5°	1433.7	1417.4	1427.8	1421.9	1419.6
20°	1412.2	1396.6	1406.3	1397.4	1395.1
22.5°	1388.5	1372.9	1384.0	1371.4	1372.1
25°	1362.5	1346.2	1357.3	1345.4	1344.7
27.5°	1332.8	1317.2	1329.1	1316.5	1318.0
30°	1300.2	1284.6	1296.4	1283.8	1285.3
32.5°	1264.5	1251.9	1262.3	1250.4	1258.6
35°	1228.2	1214.8	1225.9	1212.6	1219.3
37.5°	1188.8	1176.2	1188.1	1173.3	1179.2
40°	1146.5	1135.4	1145.8	1132.4	1137.6
42.5°	1097.6	1090.9	1101.3	1087.9	1092.4
45°	1050.1	1040.4	1053.0	1041.9	1043.4
47.5°	1002.6	992.2	1004.1	994.4	993.7
50°	945.4	941.7	952.9	945.4	944.7
52.5°	891.3	883.8	895.7	892.0	894.2
55°	833.4	826.7	836.3	835.6	840.1
57.5°	773.3	766.6	779.2	777.7	781.4
60°	709.4	704.2	720.6	716.9	719.8
62.5°	647.1	637.5	658.2	655.3	653.8
65°	577.4	571.4	593.7	590.0	578.8
67.5°	505.4	503.1	526.1	518.7	500.2
70°	433.4	434.9	457.1	443.0	427.4
72.5°	357.7	368.8	382.2	371.8	360.7
75°	286.4	303.5	305.7	305.0	293.9
77.5°	216.7	238.2	233.0	238.2	229.3
80°	151.4	175.1	171.4	175.9	168.5
82.5°	93.5	115.0	115.8	118.7	112.1
85°	45.3	66.8	68.3	69.0	63.8
87.5°	9.6	31.2	31.9	29.7	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)