

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: P#

Luminaire Tested: **4SNLED-LD5-41SL-SLC-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-41SL-SLC-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

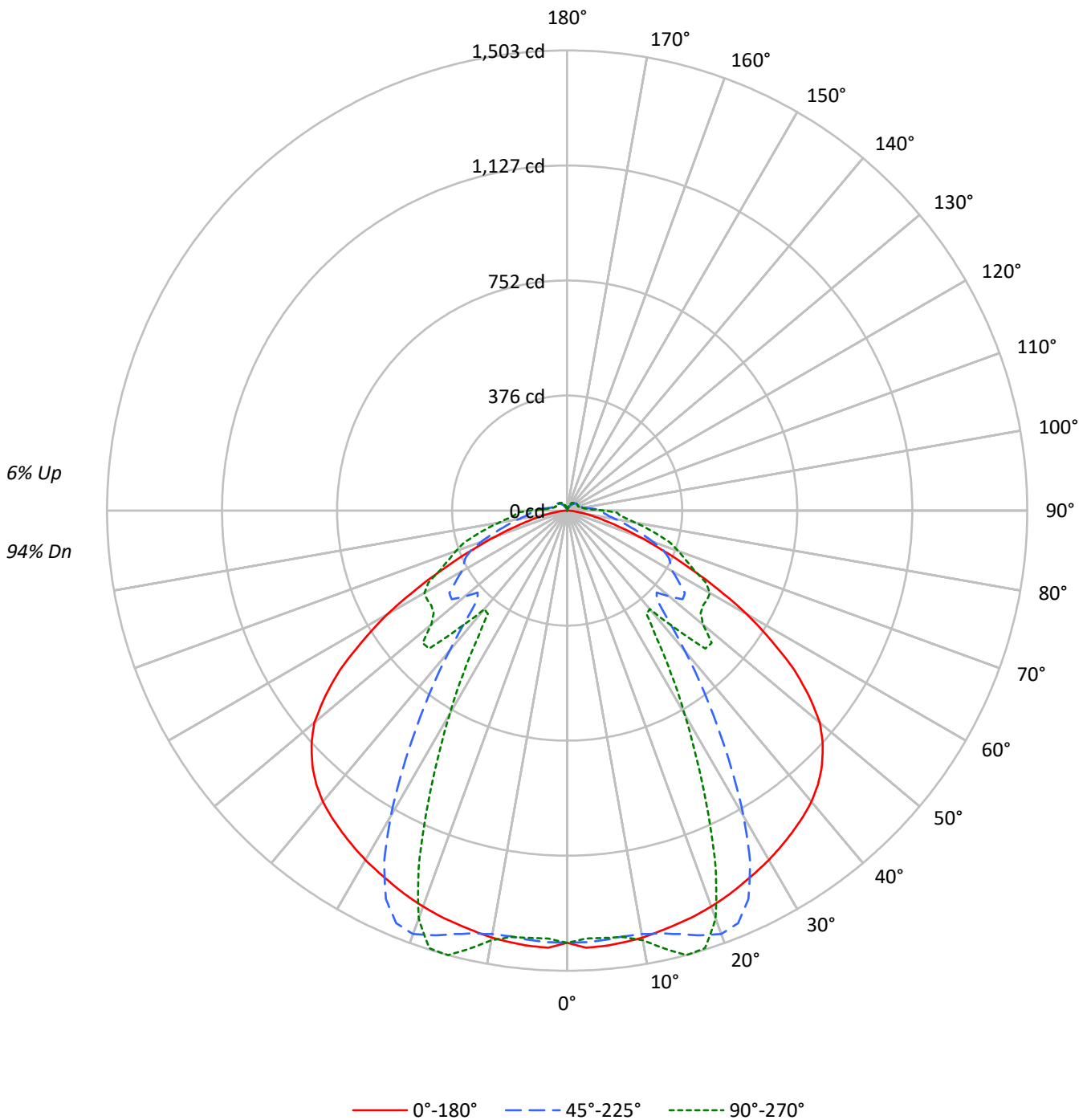
Lumens per Lamp: N/A
Luminaire Lumens: 3625.9 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 31
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94				
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78				
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66				
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56				
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49				
5	76	64	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43				
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38				
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34				
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30				
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28				
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11407	11407	11407
5°	11546	11140	11003
10°	11560	10970	10965
15°	11592	11125	11428
20°	11699	11456	10727
25°	11845	11010	8260
30°	12079	9221	5875
35°	12378	6983	3979
40°	12757	5077	3369
45°	13046	3683	5296
50°	13065	4078	5026
55°	12211	4693	4963
60°	10404	4294	5275
65°	7828	4331	4825
70°	5492	3943	4492
75°	3599	3303	4030
80°	2297	2830	3355
85°	1237	2689	3011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	3.7
10°-20°	405.5	11.2
20°-30°	589.1	16.2
30°-40°	562.9	15.5
40°-50°	514.9	14.2
50°-60°	475.4	13.1
60°-70°	377.6	10.4
70°-80°	233.1	6.4
80°-90°	126.9	3.5
90°-100°	64.2	1.8
100°-110°	40.3	1.1
110°-120°	34.1	0.9
120°-130°	27.9	0.8
130°-140°	20.0	0.6
140°-150°	12.3	0.3
150°-160°	5.8	0.2
160°-170°	1.5	0.0
170°-180°	0.0	0.0
0°-30°	1129.0	31.1
0°-40°	1691.9	46.7
0°-60°	2682.2	74.0
0°-90°	3419.8	94.3
90°-120°	138.6	3.8
90°-150°	198.8	5.5
90°-180°	206.0	5.7
0°-180°	3625.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1427	1405	1408	1400	1401	136
15°	1397	1378	1432	1485	1503	395
25°	1348	1374	1400	1185	1088	623
35°	1282	1262	850	586	509	804
45°	1177	821	415	529	637	905
55°	905	421	470	506	541	797
65°	437	273	366	445	456	442
75°	129	146	219	291	310	146
85°	18	62	124	169	172	23
90°	1	46	111	132	122	1
95°	0	43	77	68	64	0
105°	0	39	48	43	42	0
115°	0	32	46	41	39	0
125°	1	26	41	39	38	0
135°	1	18	32	36	34	0
145°	1	11	22	29	31	0
155°	1	7	14	18	22	0
165°	1	4	7	9	12	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°	1411.6	1411.6	1411.6	1411.6	1411.6
2.5°	1429.1	1408.4	1410.9	1406.6	1399.1
5°	1427.2	1405.3	1407.8	1400.3	1400.9
7.5°	1422.2	1399.7	1402.8	1401.6	1404.7
10°	1416.6	1392.8	1404.7	1415.3	1424.7
12.5°	1406.6	1385.3	1414.1	1445.3	1464.7
15°	1397.2	1378.4	1432.2	1485.3	1503.4
17.5°	1387.8	1375.9	1454.7	1500.9	1498.4
20°	1375.9	1374.7	1471.6	1455.9	1417.8
22.5°	1362.8	1375.3	1458.4	1344.1	1269.1
25°	1347.8	1374.1	1400.3	1185.4	1088.5
27.5°	1332.8	1368.5	1294.7	1011.7	916.1
30°	1317.8	1353.5	1152.2	852.9	766.1
32.5°	1300.3	1321.0	997.3	712.3	632.4
35°	1282.2	1261.6	850.4	585.5	509.3
37.5°	1263.5	1176.0	718.6	474.3	425.5
40°	1241.0	1068.5	597.4	406.8	419.9
42.5°	1212.9	947.3	490.5	426.8	518.0
45°	1177.2	821.1	414.9	529.3	637.4
47.5°	1132.3	699.8	396.2	606.1	639.9
50°	1077.9	588.6	435.5	581.1	578.6
52.5°	995.4	496.1	475.5	529.9	549.9
55°	905.4	421.2	469.9	505.5	541.1
57.5°	791.7	370.5	431.2	500.5	541.8
60°	678.6	336.8	398.0	499.9	538.6
62.5°	553.6	306.2	381.2	488.0	511.1
65°	436.8	273.1	366.2	444.9	455.5
67.5°	334.9	239.3	339.9	396.8	418.0
70°	252.4	206.2	298.7	359.9	386.2
72.5°	181.8	175.0	256.2	327.4	354.9
75°	128.7	145.6	219.3	290.6	309.9
77.5°	88.7	118.7	188.1	249.9	265.6
80°	58.1	95.0	160.0	215.0	225.6
82.5°	35.0	76.2	138.7	188.1	193.7
85°	18.1	61.9	124.3	169.3	171.8
87.5°	5.6	51.9	116.2	160.6	163.7
90°	0.6	46.2	111.2	131.8	121.8
92.5°	0.0	43.7	96.2	90.0	80.6
95°	0.0	43.1	76.9	68.1	64.4
97.5°	0.0	41.9	63.1	56.9	55.0
100°	0.0	40.6	54.4	50.0	49.4
102.5°	0.0	40.0	49.4	45.6	45.0
105°	0.0	38.7	47.5	43.1	42.5
107.5°	0.0	36.9	46.2	41.9	40.6
110°	0.0	35.0	46.2	41.2	39.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	33.1	46.2	40.6	38.7
115°	0.0	31.9	45.6	40.6	38.7
117.5°	0.6	30.6	45.0	40.6	38.7
120°	0.0	29.4	43.7	40.6	38.1
122.5°	0.6	27.5	42.5	40.0	38.1
125°	0.6	25.6	40.6	39.4	37.5
127.5°	0.6	23.7	38.7	38.1	36.2
130°	0.6	21.9	36.9	37.5	35.6
132.5°	0.6	20.0	34.4	36.2	35.0
135°	0.6	18.1	32.5	35.6	34.4
137.5°	0.6	16.2	30.0	33.7	33.7
140°	0.6	14.4	27.5	32.5	33.1
142.5°	0.6	13.1	25.0	31.2	31.9
145°	0.6	11.2	22.5	28.7	30.6
147.5°	0.6	10.0	20.0	26.2	28.7
150°	0.6	8.7	17.5	23.7	26.2
152.5°	0.6	7.5	15.6	20.6	24.4
155°	1.2	6.9	13.7	18.1	21.9
157.5°	1.2	5.6	11.2	15.6	18.7
160°	1.2	5.0	10.0	13.1	16.9
162.5°	1.2	4.4	8.1	11.2	14.4
165°	1.2	3.7	6.9	8.7	11.9
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)