

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-SLN-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-41SL-SLN-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

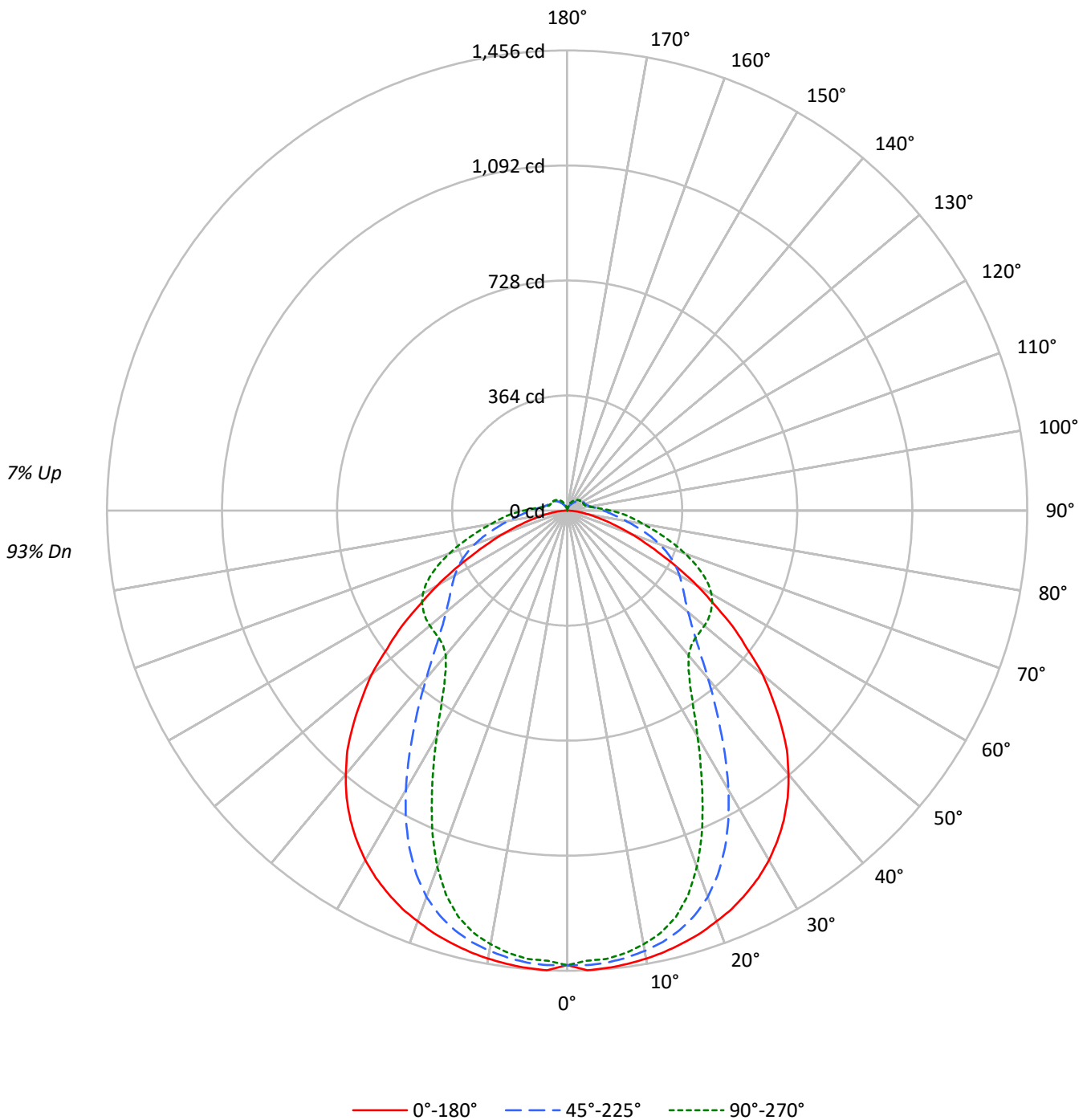
Lumens per Lamp: N/A
Luminaire Lumens: 3615.9 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	0
RCR																		
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11620	11620	11620
5°	11754	11363	11185
10°	11749	11048	10725
15°	11753	10679	10113
20°	11759	10128	9082
25°	11763	9281	7691
30°	11707	8166	6326
35°	11540	6948	5301
40°	11203	5884	4792
45°	10609	5114	4756
50°	9801	4675	4923
55°	8630	4493	5095
60°	7281	4430	5165
65°	5856	4331	5004
70°	4704	4108	4615
75°	3548	3717	4095
80°	2617	3338	3644
85°	1749	3149	3351



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	3.8
10°-20°	384.5	10.6
20°-30°	537.5	14.9
30°-40°	557.5	15.4
40°-50°	515.1	14.2
50°-60°	459.9	12.7
60°-70°	372.7	10.3
70°-80°	247.9	6.9
80°-90°	141.9	3.9
90°-100°	78.5	2.2
100°-110°	53.2	1.5
110°-120°	44.3	1.2
120°-130°	36.0	1.0
130°-140°	26.0	0.7
140°-150°	15.6	0.4
150°-160°	7.5	0.2
160°-170°	1.9	0.1
170°-180°	0.0	0.0
0°-30°	1058.0	29.3
0°-40°	1615.5	44.7
0°-60°	2590.4	71.6
0°-90°	3352.9	92.7
90°-120°	176.0	4.9
90°-150°	253.6	7.0
90°-180°	263.0	7.3
0°-180°	3615.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1453	1428	1436	1426	1424	138
15°	1417	1387	1375	1344	1330	400
25°	1338	1279	1180	1057	1014	617
35°	1195	1064	846	710	679	746
45°	957	759	576	556	572	736
55°	640	484	450	523	556	569
65°	327	292	366	449	472	330
75°	127	159	247	302	315	139
85°	26	74	146	186	191	29
90°	1	52	115	139	138	2
95°	1	44	91	98	94	1
105°	1	38	66	64	61	1
115°	1	34	58	58	56	1
125°	1	29	51	54	52	1
135°	1	22	41	48	48	1
145°	1	14	28	37	39	1
155°	1	9	18	23	28	1
165°	1	5	9	11	15	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°	1437.9	1437.9	1437.9	1437.9	1437.9
2.5°	1456.0	1432.2	1439.7	1433.5	1425.4
5°	1452.9	1428.5	1436.0	1426.0	1424.1
7.5°	1447.2	1422.9	1427.2	1415.4	1412.2
10°	1439.7	1414.1	1414.7	1397.9	1393.5
12.5°	1429.7	1401.6	1397.9	1374.8	1368.5
15°	1416.6	1386.6	1374.8	1343.5	1330.4
17.5°	1402.2	1367.3	1342.9	1294.8	1274.1
20°	1382.9	1343.5	1301.0	1227.9	1200.4
22.5°	1363.5	1314.8	1246.7	1149.2	1112.3
25°	1338.5	1279.1	1180.4	1056.7	1013.6
27.5°	1310.4	1237.3	1104.2	961.7	915.5
30°	1277.3	1186.7	1020.4	868.6	824.9
32.5°	1238.5	1129.8	932.3	784.9	744.2
35°	1195.4	1064.2	846.1	710.5	678.6
37.5°	1146.0	992.3	766.1	650.5	629.9
40°	1089.8	914.2	692.4	604.3	597.4
42.5°	1029.2	838.0	629.3	574.3	580.5
45°	957.3	758.6	576.1	555.5	572.4
47.5°	881.7	681.1	533.0	544.9	569.3
50°	808.6	609.3	499.3	538.0	566.8
52.5°	718.0	544.9	472.4	531.8	563.0
55°	639.9	483.7	449.9	523.0	555.5
57.5°	549.9	428.7	429.9	511.8	544.3
60°	474.9	378.7	410.6	496.2	527.4
62.5°	398.7	333.7	389.3	475.5	503.7
65°	326.8	292.4	366.2	448.7	472.4
67.5°	266.8	255.0	339.9	416.2	436.2
70°	216.2	220.6	311.2	379.9	396.8
72.5°	166.2	188.7	279.9	341.2	355.6
75°	126.9	158.7	246.8	302.4	314.9
77.5°	93.7	132.5	216.8	267.5	278.1
80°	66.2	109.4	188.7	236.8	245.0
82.5°	44.4	90.0	165.6	209.3	216.8
85°	25.6	73.7	145.6	186.2	191.2
87.5°	10.6	61.2	129.4	162.5	165.0
90°	1.2	51.9	115.0	138.7	137.5
92.5°	1.2	46.9	102.5	116.2	113.1
95°	1.2	43.7	91.2	97.5	94.4
97.5°	1.2	41.9	81.2	83.7	80.6
100°	0.6	40.6	74.4	74.4	71.2
102.5°	0.6	39.4	69.4	67.5	65.0
105°	0.6	38.1	65.6	63.7	60.6
107.5°	0.6	37.5	63.1	61.2	58.1
110°	0.6	36.2	61.2	59.4	56.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	35.6	60.0	58.7	55.6
115°	0.6	34.4	58.1	57.5	55.6
117.5°	0.6	33.1	56.9	56.9	55.0
120°	0.6	31.9	55.0	56.2	54.4
122.5°	0.6	30.6	53.1	55.0	53.1
125°	0.6	29.4	51.2	53.7	52.5
127.5°	1.2	27.5	48.7	52.5	51.2
130°	0.6	25.6	46.2	51.2	50.6
132.5°	1.2	23.7	43.7	49.4	49.4
135°	1.2	21.9	40.6	47.5	47.5
137.5°	1.2	19.4	37.5	45.0	45.6
140°	1.2	17.5	34.4	42.5	43.7
142.5°	1.2	15.6	31.2	40.0	41.9
145°	1.2	13.7	28.1	36.9	39.4
147.5°	1.2	12.5	25.0	33.1	36.9
150°	1.2	10.6	22.5	30.0	33.7
152.5°	1.2	9.4	20.0	26.9	31.2
155°	1.2	8.7	17.5	23.1	28.1
157.5°	1.2	7.5	15.0	20.0	25.0
160°	1.2	6.2	12.5	17.5	21.2
162.5°	1.2	5.6	10.6	14.4	18.7
165°	1.2	5.0	8.7	11.2	15.0
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)