

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-L935-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-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

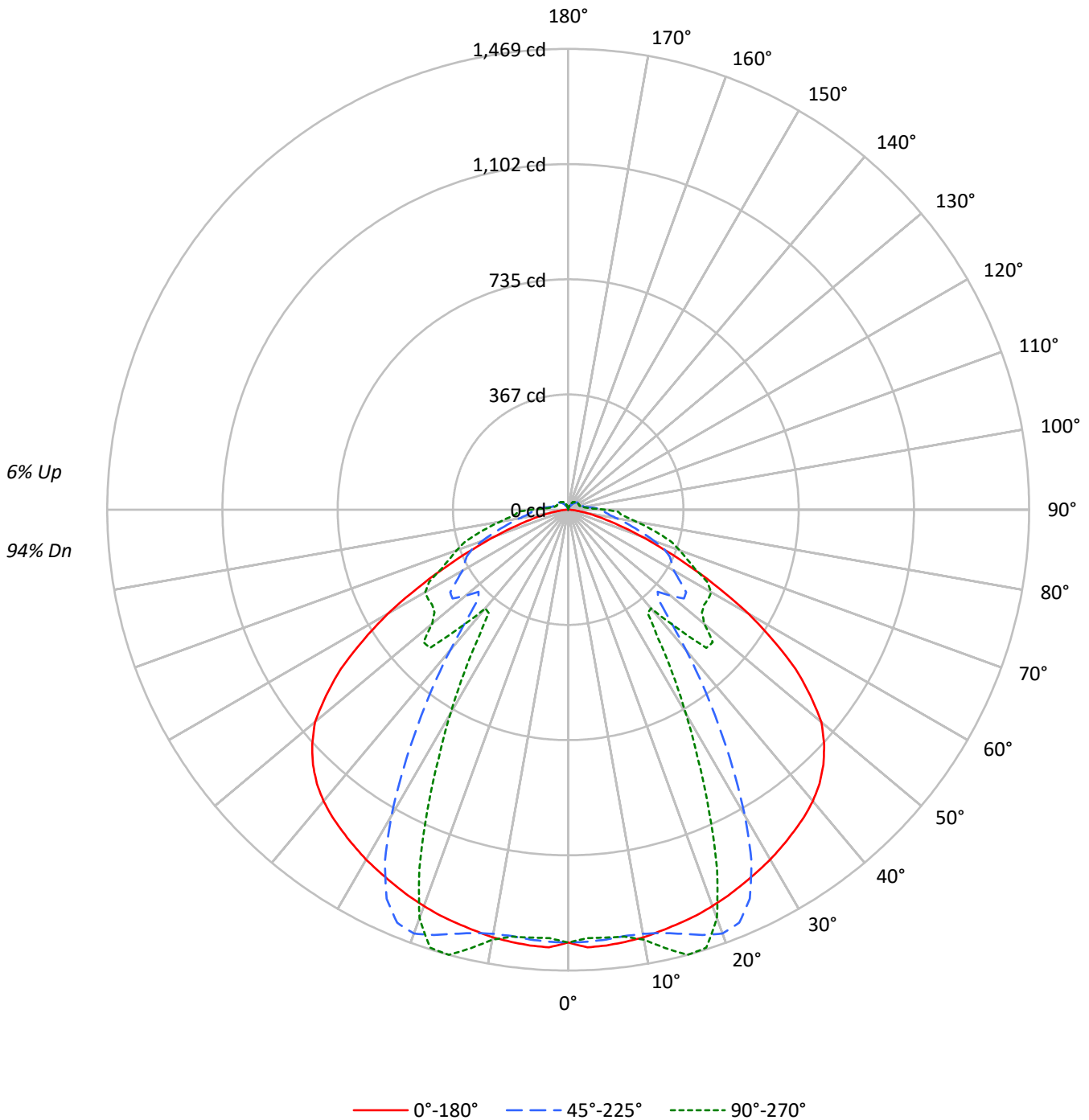
Lumens per Lamp: N/A
Luminaire Lumens: 3543.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	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°	11146	11146	11146
5°	11281	10885	10751
10°	11295	10719	10714
15°	11327	10870	11167
20°	11432	11194	10482
25°	11574	10758	8071
30°	11803	9010	5740
35°	12095	6824	3887
40°	12465	4961	3292
45°	12748	3598	5175
50°	12765	3985	4911
55°	11932	4585	4849
60°	10167	4196	5155
65°	7648	4232	4715
70°	5368	3852	4389
75°	3518	3228	3938
80°	2245	2765	3278
85°	1209	2628	2943



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	3.7
10°-20°	396.3	11.2
20°-30°	575.6	16.2
30°-40°	550.0	15.5
40°-50°	503.1	14.2
50°-60°	464.5	13.1
60°-70°	369.0	10.4
70°-80°	227.7	6.4
80°-90°	124.0	3.5
90°-100°	62.7	1.8
100°-110°	39.4	1.1
110°-120°	33.4	0.9
120°-130°	27.2	0.8
130°-140°	19.5	0.6
140°-150°	12.0	0.3
150°-160°	5.7	0.2
160°-170°	1.5	0.0
170°-180°	0.0	0.0
0°-30°	1103.1	31.1
0°-40°	1653.1	46.7
0°-60°	2620.8	74.0
0°-90°	3341.5	94.3
90°-120°	135.4	3.8
90°-150°	194.3	5.5
90°-180°	201.0	5.7
0°-180°	3543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1379	1379	1379	1379	1379	
5°	1394	1373	1376	1368	1369	133
15°	1365	1347	1399	1451	1469	386
25°	1317	1343	1368	1158	1064	609
35°	1253	1233	831	572	498	786
45°	1150	802	405	517	623	884
55°	885	412	459	494	529	779
65°	427	267	358	435	445	432
75°	126	142	214	284	303	143
85°	18	60	122	166	168	23
90°	1	45	109	129	119	1
95°	0	42	75	67	63	0
105°	0	38	46	42	42	0
115°	0	31	45	40	38	0
125°	1	25	40	38	37	0
135°	1	18	32	35	34	0
145°	1	11	22	28	30	0
155°	1	7	13	18	21	0
165°	1	4	7	8	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°	1379.3	1379.3	1379.3	1379.3	1379.3
2.5°	1396.4	1376.2	1378.6	1374.4	1367.0
5°	1394.5	1373.2	1375.6	1368.3	1368.9
7.5°	1389.6	1367.7	1370.7	1369.5	1372.5
10°	1384.1	1360.9	1372.5	1382.9	1392.1
12.5°	1374.4	1353.6	1381.7	1412.2	1431.2
15°	1365.2	1346.9	1399.4	1451.3	1469.0
17.5°	1356.1	1344.5	1421.4	1466.6	1464.1
20°	1344.5	1343.2	1437.9	1422.6	1385.4
22.5°	1331.6	1343.8	1425.0	1313.3	1240.0
25°	1317.0	1342.6	1368.3	1158.2	1063.6
27.5°	1302.3	1337.1	1265.1	988.5	895.1
30°	1287.7	1322.5	1125.9	833.4	748.5
32.5°	1270.6	1290.7	974.5	696.0	617.9
35°	1252.9	1232.7	831.0	572.1	497.6
37.5°	1234.6	1149.1	702.1	463.4	415.8
40°	1212.6	1044.1	583.7	397.5	410.3
42.5°	1185.1	925.6	479.3	417.0	506.2
45°	1150.3	802.3	405.4	517.1	622.8
47.5°	1106.3	683.8	387.1	592.2	625.2
50°	1053.2	575.1	425.6	567.8	565.4
52.5°	972.6	484.8	464.6	517.8	537.3
55°	884.7	411.5	459.1	493.9	528.7
57.5°	773.6	362.1	421.3	489.1	529.4
60°	663.1	329.1	388.9	488.4	526.3
62.5°	541.0	299.2	372.4	476.8	499.4
65°	426.8	266.8	357.8	434.7	445.1
67.5°	327.3	233.8	332.1	387.7	408.5
70°	246.7	201.5	291.8	351.7	377.3
72.5°	177.7	171.0	250.3	319.9	346.8
75°	125.8	142.3	214.3	283.9	302.8
77.5°	86.7	116.0	183.8	244.2	259.5
80°	56.8	92.8	156.3	210.0	220.4
82.5°	34.2	74.5	135.5	183.8	189.3
85°	17.7	60.4	121.5	165.5	167.9
87.5°	5.5	50.7	113.6	156.9	160.0
90°	0.6	45.2	108.7	128.8	119.1
92.5°	0.0	42.7	94.0	87.9	78.8
95°	0.0	42.1	75.1	66.6	62.9
97.5°	0.0	40.9	61.7	55.6	53.7
100°	0.0	39.7	53.1	48.8	48.2
102.5°	0.0	39.1	48.2	44.6	44.0
105°	0.0	37.9	46.4	42.1	41.5
107.5°	0.0	36.0	45.2	40.9	39.7
110°	0.0	34.2	45.2	40.3	38.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	32.4	45.2	39.7	37.9
115°	0.0	31.1	44.6	39.7	37.9
117.5°	0.6	29.9	44.0	39.7	37.9
120°	0.0	28.7	42.7	39.7	37.2
122.5°	0.6	26.9	41.5	39.1	37.2
125°	0.6	25.0	39.7	38.5	36.6
127.5°	0.6	23.2	37.9	37.2	35.4
130°	0.6	21.4	36.0	36.6	34.8
132.5°	0.6	19.5	33.6	35.4	34.2
135°	0.6	17.7	31.7	34.8	33.6
137.5°	0.6	15.9	29.3	33.0	33.0
140°	0.6	14.0	26.9	31.7	32.4
142.5°	0.6	12.8	24.4	30.5	31.1
145°	0.6	11.0	22.0	28.1	29.9
147.5°	0.6	9.8	19.5	25.6	28.1
150°	0.6	8.5	17.1	23.2	25.6
152.5°	0.6	7.3	15.3	20.1	23.8
155°	1.2	6.7	13.4	17.7	21.4
157.5°	1.2	5.5	11.0	15.3	18.3
160°	1.2	4.9	9.8	12.8	16.5
162.5°	1.2	4.3	7.9	11.0	14.0
165°	1.2	3.7	6.7	8.5	11.6
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)