

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-LD5-35SL-SLC-UNV-L830-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-LD5-35SL-SLC-UNV-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

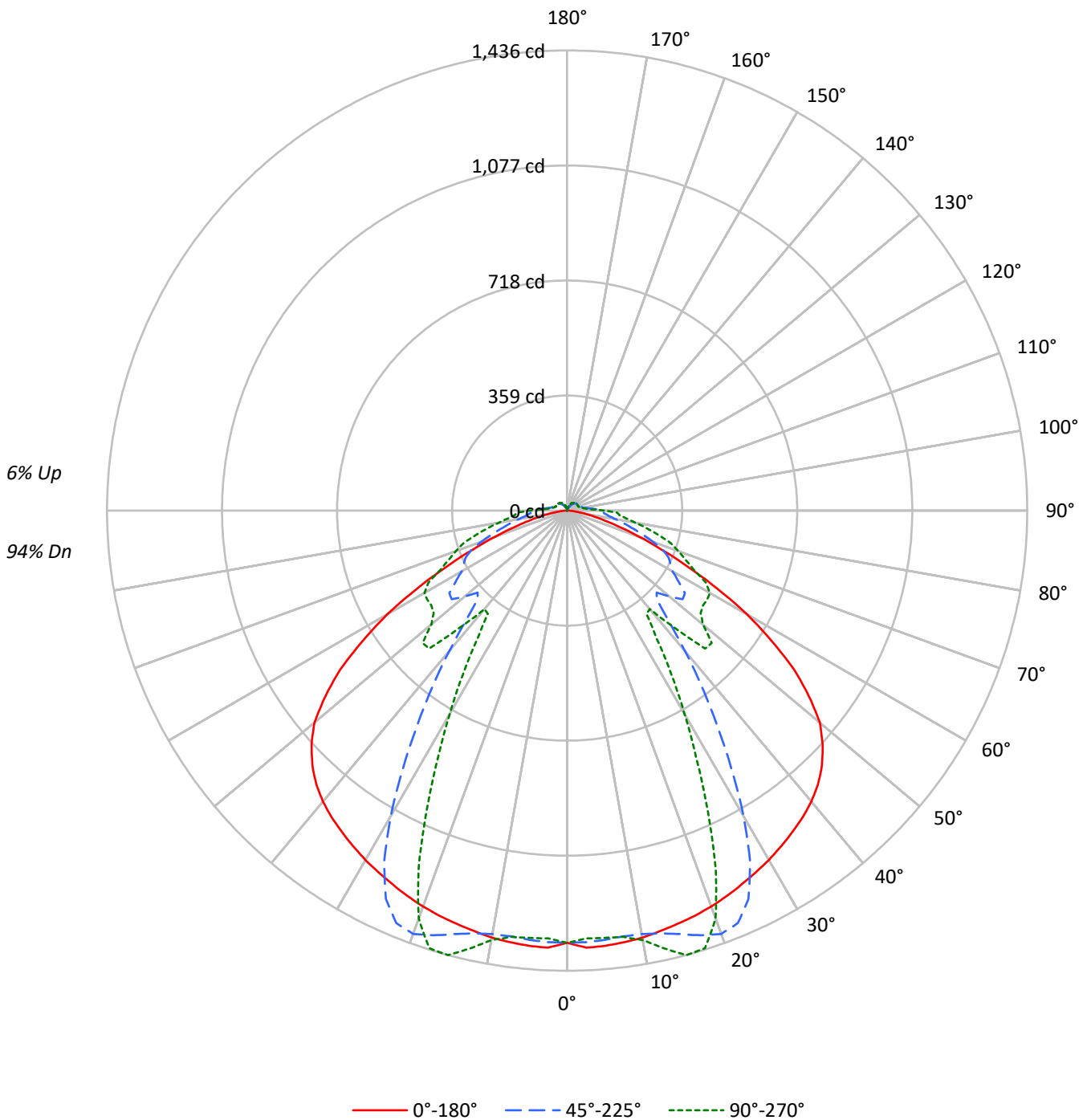
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3464.0 lumens
Efficiency: N/A
Efficacy: 138.6 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): 25
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	63	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°	10897	10897	10897
5°	11030	10642	10512
10°	11044	10480	10475
15°	11074	10628	10918
20°	11177	10944	10248
25°	11316	10518	7891
30°	11540	8809	5613
35°	11825	6671	3800
40°	12186	4850	3218
45°	12463	3519	5059
50°	12480	3896	4802
55°	11666	4483	4742
60°	9940	4103	5040
65°	7478	4137	4610
70°	5248	3766	4291
75°	3439	3155	3851
80°	2194	2703	3205
85°	1182	2570	2878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	3.7
10°-20°	387.4	11.2
20°-30°	562.8	16.2
30°-40°	537.7	15.5
40°-50°	491.9	14.2
50°-60°	454.2	13.1
60°-70°	360.8	10.4
70°-80°	222.7	6.4
80°-90°	121.2	3.5
90°-100°	61.3	1.8
100°-110°	38.5	1.1
110°-120°	32.6	0.9
120°-130°	26.6	0.8
130°-140°	19.1	0.6
140°-150°	11.8	0.3
150°-160°	5.6	0.2
160°-170°	1.5	0.0
170°-180°	0.0	0.0
0°-30°	1078.5	31.1
0°-40°	1616.3	46.7
0°-60°	2562.3	74.0
0°-90°	3267.0	94.3
90°-120°	132.4	3.8
90°-150°	190.0	5.5
90°-180°	197.0	5.7
0°-180°	3464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1363	1342	1345	1338	1338	130
15°	1335	1317	1368	1419	1436	378
25°	1288	1313	1338	1132	1040	595
35°	1225	1205	812	559	486	768
45°	1125	784	396	506	609	864
55°	865	402	449	483	517	762
65°	417	261	350	425	435	422
75°	123	139	210	278	296	139
85°	17	59	119	162	164	22
90°	1	44	106	126	116	1
95°	0	41	73	65	62	0
105°	0	37	45	41	41	0
115°	0	30	44	39	37	0
125°	1	24	39	38	36	0
135°	1	17	31	34	33	0
145°	1	11	22	28	29	0
155°	1	7	13	17	21	0
165°	1	4	7	8	11	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-SLC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1348.5	1348.5	1348.5	1348.5	1348.5
2.5°	1365.2	1345.5	1347.9	1343.7	1336.6
5°	1363.4	1342.5	1344.9	1337.8	1338.4
7.5°	1358.7	1337.2	1340.1	1339.0	1341.9
10°	1353.3	1330.6	1341.9	1352.1	1361.0
12.5°	1343.7	1323.4	1350.9	1380.7	1399.2
15°	1334.8	1316.9	1368.2	1418.9	1436.3
17.5°	1325.8	1314.5	1389.7	1433.9	1431.5
20°	1314.5	1313.3	1405.8	1390.9	1354.5
22.5°	1301.9	1313.9	1393.3	1284.0	1212.4
25°	1287.6	1312.7	1337.8	1132.4	1039.9
27.5°	1273.3	1307.3	1236.9	966.5	875.1
30°	1259.0	1293.0	1100.8	814.8	731.9
32.5°	1242.2	1261.9	952.7	680.5	604.1
35°	1224.9	1205.2	812.4	559.3	486.5
37.5°	1207.0	1123.5	686.5	453.1	406.5
40°	1185.5	1020.8	570.7	388.6	401.1
42.5°	1158.7	905.0	468.6	407.7	494.9
45°	1124.6	784.4	396.4	505.6	608.9
47.5°	1081.7	668.6	378.5	579.0	611.3
50°	1029.7	562.3	416.1	555.2	552.8
52.5°	950.9	474.0	454.3	506.2	525.3
55°	865.0	402.3	448.9	482.9	517.0
57.5°	756.3	354.0	411.9	478.2	517.6
60°	648.3	321.8	380.3	477.6	514.6
62.5°	528.9	292.5	364.1	466.2	488.3
65°	417.3	260.9	349.8	425.0	435.2
67.5°	320.0	228.6	324.7	379.1	399.4
70°	241.2	197.0	285.3	343.8	368.9
72.5°	173.7	167.1	244.7	312.8	339.1
75°	123.0	139.1	209.5	277.6	296.1
77.5°	84.8	113.4	179.7	238.8	253.7
80°	55.5	90.7	152.8	205.3	215.5
82.5°	33.4	72.8	132.5	179.7	185.1
85°	17.3	59.1	118.8	161.8	164.2
87.5°	5.4	49.5	111.0	153.4	156.4
90°	0.6	44.2	106.3	126.0	116.4
92.5°	0.0	41.8	91.9	86.0	77.0
95°	0.0	41.2	73.4	65.1	61.5
97.5°	0.0	40.0	60.3	54.3	52.5
100°	0.0	38.8	51.9	47.8	47.2
102.5°	0.0	38.2	47.2	43.6	43.0
105°	0.0	37.0	45.4	41.2	40.6
107.5°	0.0	35.2	44.2	40.0	38.8
110°	0.0	33.4	44.2	39.4	37.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-35SL-SLC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	31.6	44.2	38.8	37.0
115°	0.0	30.4	43.6	38.8	37.0
117.5°	0.6	29.3	43.0	38.8	37.0
120°	0.0	28.1	41.8	38.8	36.4
122.5°	0.6	26.3	40.6	38.2	36.4
125°	0.6	24.5	38.8	37.6	35.8
127.5°	0.6	22.7	37.0	36.4	34.6
130°	0.6	20.9	35.2	35.8	34.0
132.5°	0.6	19.1	32.8	34.6	33.4
135°	0.6	17.3	31.0	34.0	32.8
137.5°	0.6	15.5	28.7	32.2	32.2
140°	0.6	13.7	26.3	31.0	31.6
142.5°	0.6	12.5	23.9	29.8	30.4
145°	0.6	10.7	21.5	27.5	29.3
147.5°	0.6	9.6	19.1	25.1	27.5
150°	0.6	8.4	16.7	22.7	25.1
152.5°	0.6	7.2	14.9	19.7	23.3
155°	1.2	6.6	13.1	17.3	20.9
157.5°	1.2	5.4	10.7	14.9	17.9
160°	1.2	4.8	9.6	12.5	16.1
162.5°	1.2	4.2	7.8	10.7	13.7
165°	1.2	3.6	6.6	8.4	11.3
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)