

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-SLN-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-35SL-SLN-UNV-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

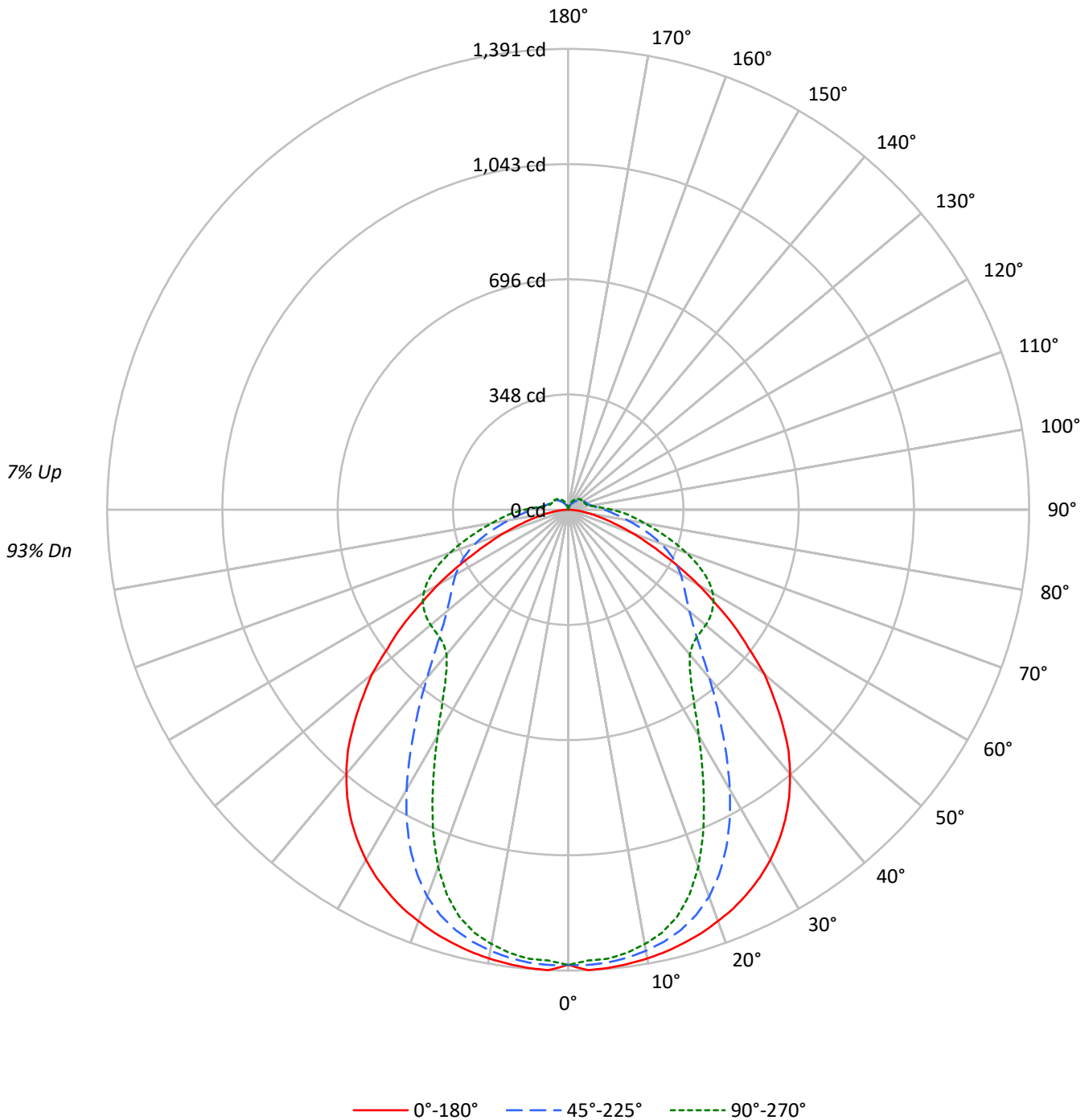
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3455.0 lumens
Efficiency: N/A
Efficacy: 138.2 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): 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	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°	11102	11102	11102
5°	11230	10857	10687
10°	11226	10557	10248
15°	11229	10203	9663
20°	11235	9677	8678
25°	11239	8868	7348
30°	11186	7803	6044
35°	11027	6638	5065
40°	10704	5622	4579
45°	10137	4886	4544
50°	9364	4467	4704
55°	8246	4294	4868
60°	6958	4233	4935
65°	5597	4139	4782
70°	4495	3924	4409
75°	3389	3551	3913
80°	2502	3190	3480
85°	1674	3009	3202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	3.8
10°-20°	367.4	10.6
20°-30°	513.6	14.9
30°-40°	532.7	15.4
40°-50°	492.1	14.2
50°-60°	439.4	12.7
60°-70°	356.1	10.3
70°-80°	236.8	6.9
80°-90°	135.6	3.9
90°-100°	75.0	2.2
100°-110°	50.8	1.5
110°-120°	42.3	1.2
120°-130°	34.4	1.0
130°-140°	24.8	0.7
140°-150°	15.0	0.4
150°-160°	7.2	0.2
160°-170°	1.9	0.1
170°-180°	0.0	0.0
0°-30°	1010.9	29.3
0°-40°	1543.6	44.7
0°-60°	2475.1	71.6
0°-90°	3203.6	92.7
90°-120°	168.1	4.9
90°-150°	242.3	7.0
90°-180°	251.0	7.3
0°-180°	3455.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1388	1365	1372	1362	1361	132
15°	1354	1325	1314	1284	1271	382
25°	1279	1222	1128	1010	968	589
35°	1142	1017	808	679	648	713
45°	915	725	550	531	547	703
55°	611	462	430	500	531	544
65°	312	279	350	429	451	316
75°	121	152	236	289	301	133
85°	24	70	139	178	183	28
90°	1	50	110	132	131	2
95°	1	42	87	93	90	1
105°	1	36	63	61	58	1
115°	1	33	56	55	53	1
125°	1	28	49	51	50	1
135°	1	21	39	45	45	1
145°	1	13	27	35	38	1
155°	1	8	17	22	27	1
165°	1	5	8	11	14	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1391.2	1368.5	1375.6	1369.7	1361.9
5°	1388.2	1364.9	1372.1	1362.5	1360.7
7.5°	1382.8	1359.5	1363.7	1352.4	1349.4
10°	1375.6	1351.2	1351.8	1335.6	1331.5
12.5°	1366.1	1339.2	1335.6	1313.5	1307.6
15°	1353.5	1324.9	1313.5	1283.7	1271.2
17.5°	1339.8	1306.4	1283.1	1237.1	1217.4
20°	1321.3	1283.7	1243.1	1173.2	1147.0
22.5°	1302.8	1256.2	1191.1	1098.0	1062.8
25°	1278.9	1222.2	1127.9	1009.6	968.4
27.5°	1252.0	1182.2	1055.0	918.9	874.7
30°	1220.4	1133.8	975.0	829.9	788.1
32.5°	1183.4	1079.5	890.8	749.9	711.1
35°	1142.2	1016.8	808.4	678.9	648.4
37.5°	1095.0	948.1	732.0	621.5	601.8
40°	1041.3	873.5	661.5	577.4	570.8
42.5°	983.4	800.7	601.2	548.7	554.7
45°	914.7	724.8	550.5	530.8	546.9
47.5°	842.5	650.8	509.3	520.6	543.9
50°	772.6	582.1	477.1	514.1	541.5
52.5°	686.0	520.6	451.4	508.1	538.0
55°	611.4	462.1	429.9	499.7	530.8
57.5°	525.4	409.6	410.8	489.0	520.0
60°	453.8	361.8	392.3	474.1	503.9
62.5°	380.9	318.8	372.0	454.4	481.2
65°	312.3	279.4	349.9	428.7	451.4
67.5°	254.9	243.6	324.8	397.6	416.8
70°	206.6	210.8	297.3	363.0	379.1
72.5°	158.8	180.3	267.5	326.0	339.7
75°	121.2	151.7	235.8	289.0	300.9
77.5°	89.6	126.6	207.2	255.5	265.7
80°	63.3	104.5	180.3	226.3	234.0
82.5°	42.4	86.0	158.2	200.0	207.2
85°	24.5	70.5	139.1	177.9	182.7
87.5°	10.2	58.5	123.6	155.2	157.6
90°	1.2	49.6	109.9	132.5	131.4
92.5°	1.2	44.8	97.9	111.1	108.1
95°	1.2	41.8	87.2	93.1	90.2
97.5°	1.2	40.0	77.6	80.0	77.0
100°	0.6	38.8	71.1	71.1	68.1
102.5°	0.6	37.6	66.3	64.5	62.1
105°	0.6	36.4	62.7	60.9	57.9
107.5°	0.6	35.8	60.3	58.5	55.5
110°	0.6	34.6	58.5	56.7	54.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	34.0	57.3	56.1	53.1
115°	0.6	32.8	55.5	54.9	53.1
117.5°	0.6	31.6	54.3	54.3	52.5
120°	0.6	30.5	52.5	53.7	51.9
122.5°	0.6	29.3	50.8	52.5	50.8
125°	0.6	28.1	49.0	51.3	50.2
127.5°	1.2	26.3	46.6	50.2	49.0
130°	0.6	24.5	44.2	49.0	48.4
132.5°	1.2	22.7	41.8	47.2	47.2
135°	1.2	20.9	38.8	45.4	45.4
137.5°	1.2	18.5	35.8	43.0	43.6
140°	1.2	16.7	32.8	40.6	41.8
142.5°	1.2	14.9	29.9	38.2	40.0
145°	1.2	13.1	26.9	35.2	37.6
147.5°	1.2	11.9	23.9	31.6	35.2
150°	1.2	10.2	21.5	28.7	32.2
152.5°	1.2	9.0	19.1	25.7	29.9
155°	1.2	8.4	16.7	22.1	26.9
157.5°	1.2	7.2	14.3	19.1	23.9
160°	1.2	6.0	11.9	16.7	20.3
162.5°	1.2	5.4	10.2	13.7	17.9
165°	1.2	4.8	8.4	10.7	14.3
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)