

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-L840-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-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

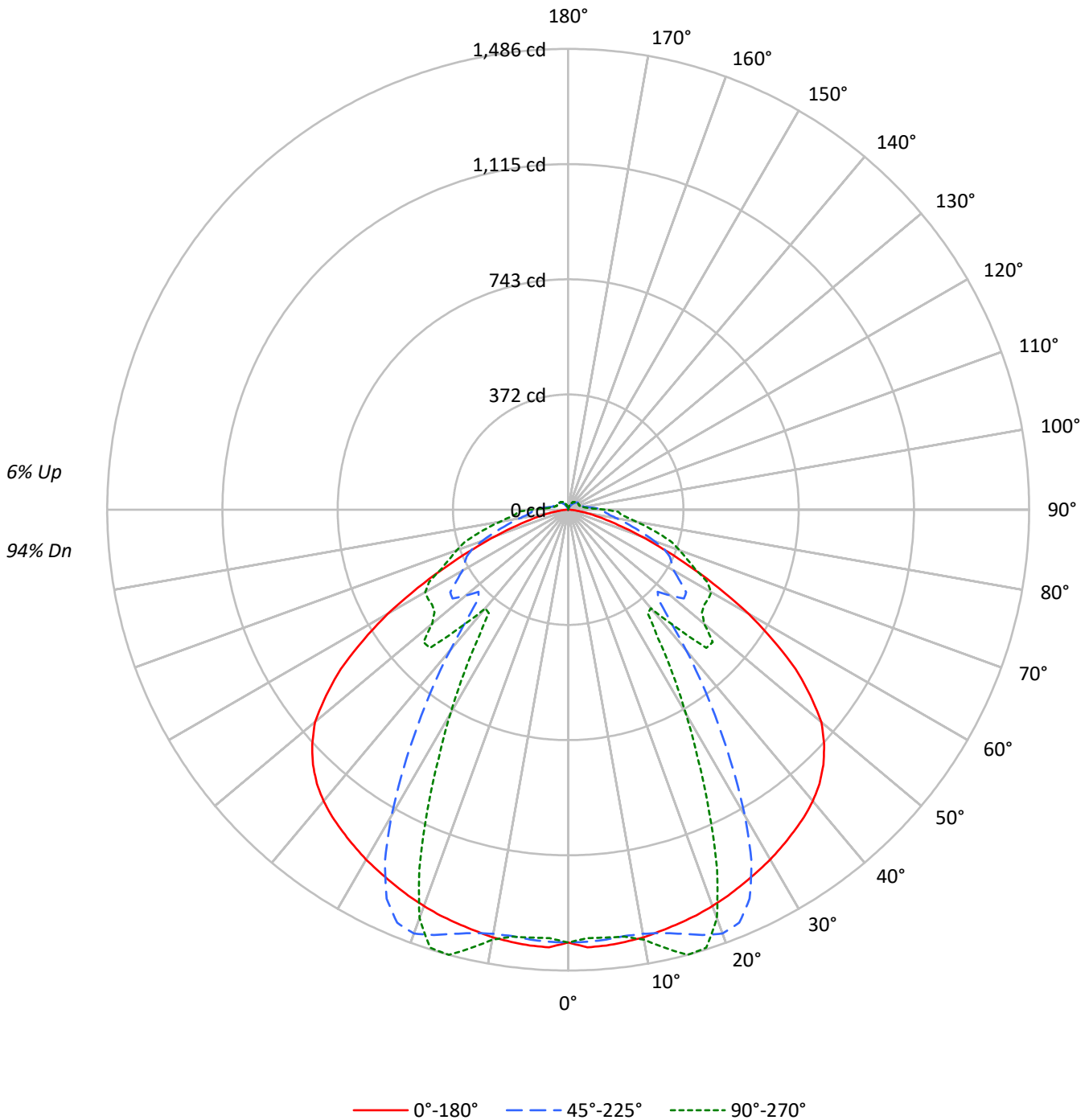
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3584.0 lumens
Efficiency: N/A
Efficacy: 143.4 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 (A_{in}): 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°	11275	11275	11275
5°	11412	11011	10875
10°	11427	10843	10838
15°	11458	10996	11296
20°	11564	11323	10603
25°	11708	10882	8164
30°	11939	9114	5807
35°	12235	6903	3932
40°	12609	5018	3329
45°	12895	3640	5235
50°	12913	4031	4968
55°	12069	4639	4906
60°	10283	4244	5214
65°	7736	4281	4769
70°	5429	3897	4440
75°	3557	3265	3983
80°	2269	2797	3317
85°	1223	2658	2976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	3.7
10°-20°	400.9	11.2
20°-30°	582.3	16.2
30°-40°	556.4	15.5
40°-50°	508.9	14.2
50°-60°	469.9	13.1
60°-70°	373.3	10.4
70°-80°	230.4	6.4
80°-90°	125.5	3.5
90°-100°	63.4	1.8
100°-110°	39.8	1.1
110°-120°	33.7	0.9
120°-130°	27.6	0.8
130°-140°	19.8	0.6
140°-150°	12.2	0.3
150°-160°	5.8	0.2
160°-170°	1.5	0.0
170°-180°	0.0	0.0
0°-30°	1115.9	31.1
0°-40°	1672.3	46.7
0°-60°	2651.1	74.0
0°-90°	3380.2	94.3
90°-120°	137.0	3.8
90°-150°	196.5	5.5
90°-180°	204.0	5.7
0°-180°	3584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1411	1389	1392	1384	1385	134
15°	1381	1362	1416	1468	1486	391
25°	1332	1358	1384	1172	1076	616
35°	1267	1247	841	579	503	795
45°	1164	812	410	523	630	894
55°	895	416	464	500	535	788
65°	432	270	362	440	450	437
75°	127	144	217	287	306	144
85°	18	61	123	167	170	23
90°	1	46	110	130	120	1
95°	0	43	76	67	64	0
105°	0	38	47	43	42	0
115°	0	32	45	40	38	0
125°	1	25	40	39	37	0
135°	1	18	32	35	34	0
145°	1	11	22	28	30	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



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1395.2	1395.2	1395.2	1395.2	1395.2
2.5°	1412.5	1392.1	1394.6	1390.3	1382.9
5°	1410.7	1389.0	1391.5	1384.1	1384.7
7.5°	1405.7	1383.5	1386.6	1385.3	1388.4
10°	1400.2	1376.7	1388.4	1398.9	1408.2
12.5°	1390.3	1369.3	1397.7	1428.6	1447.7
15°	1381.0	1362.5	1415.6	1468.1	1486.0
17.5°	1371.7	1360.0	1437.8	1483.5	1481.1
20°	1360.0	1358.8	1454.5	1439.1	1401.4
22.5°	1347.0	1359.4	1441.5	1328.5	1254.4
25°	1332.2	1358.2	1384.1	1171.6	1075.9
27.5°	1317.4	1352.6	1279.7	999.9	905.4
30°	1302.6	1337.8	1138.9	843.1	757.2
32.5°	1285.3	1305.7	985.7	704.1	625.0
35°	1267.4	1247.0	840.6	578.7	503.4
37.5°	1248.8	1162.4	710.3	468.8	420.6
40°	1226.6	1056.1	590.5	402.1	415.0
42.5°	1198.8	936.3	484.8	421.8	512.0
45°	1163.6	811.6	410.1	523.1	630.0
47.5°	1119.1	691.7	391.6	599.1	632.4
50°	1065.4	581.8	430.5	574.4	571.9
52.5°	983.9	490.4	470.0	523.7	543.5
55°	894.9	416.3	464.5	499.7	534.9
57.5°	782.5	366.3	426.2	494.7	535.5
60°	670.7	332.9	393.4	494.1	532.4
62.5°	547.2	302.6	376.8	482.4	505.2
65°	431.7	269.9	361.9	439.7	450.2
67.5°	331.0	236.6	336.0	392.2	413.2
70°	249.5	203.8	295.2	355.8	381.7
72.5°	179.7	172.9	253.2	323.6	350.8
75°	127.2	143.9	216.8	287.2	306.3
77.5°	87.7	117.3	185.9	247.1	262.5
80°	57.4	93.9	158.1	212.5	223.0
82.5°	34.6	75.4	137.1	185.9	191.5
85°	17.9	61.1	122.9	167.4	169.8
87.5°	5.6	51.3	114.9	158.7	161.8
90°	0.6	45.7	109.9	130.3	120.4
92.5°	0.0	43.2	95.1	88.9	79.7
95°	0.0	42.6	76.0	67.3	63.6
97.5°	0.0	41.4	62.4	56.2	54.4
100°	0.0	40.1	53.7	49.4	48.8
102.5°	0.0	39.5	48.8	45.1	44.5
105°	0.0	38.3	46.9	42.6	42.0
107.5°	0.0	36.4	45.7	41.4	40.1
110°	0.0	34.6	45.7	40.8	38.9



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	32.7	45.7	40.1	38.3
115°	0.0	31.5	45.1	40.1	38.3
117.5°	0.6	30.3	44.5	40.1	38.3
120°	0.0	29.0	43.2	40.1	37.7
122.5°	0.6	27.2	42.0	39.5	37.7
125°	0.6	25.3	40.1	38.9	37.1
127.5°	0.6	23.5	38.3	37.7	35.8
130°	0.6	21.6	36.4	37.1	35.2
132.5°	0.6	19.8	34.0	35.8	34.6
135°	0.6	17.9	32.1	35.2	34.0
137.5°	0.6	16.1	29.6	33.4	33.4
140°	0.6	14.2	27.2	32.1	32.7
142.5°	0.6	13.0	24.7	30.9	31.5
145°	0.6	11.1	22.2	28.4	30.3
147.5°	0.6	9.9	19.8	25.9	28.4
150°	0.6	8.6	17.3	23.5	25.9
152.5°	0.6	7.4	15.4	20.4	24.1
155°	1.2	6.8	13.6	17.9	21.6
157.5°	1.2	5.6	11.1	15.4	18.5
160°	1.2	4.9	9.9	13.0	16.7
162.5°	1.2	4.3	8.0	11.1	14.2
165°	1.2	3.7	6.8	8.6	11.7
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)