

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-LD5-37SL-SLN-UNV-L930-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-LD5-37SL-SLN-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

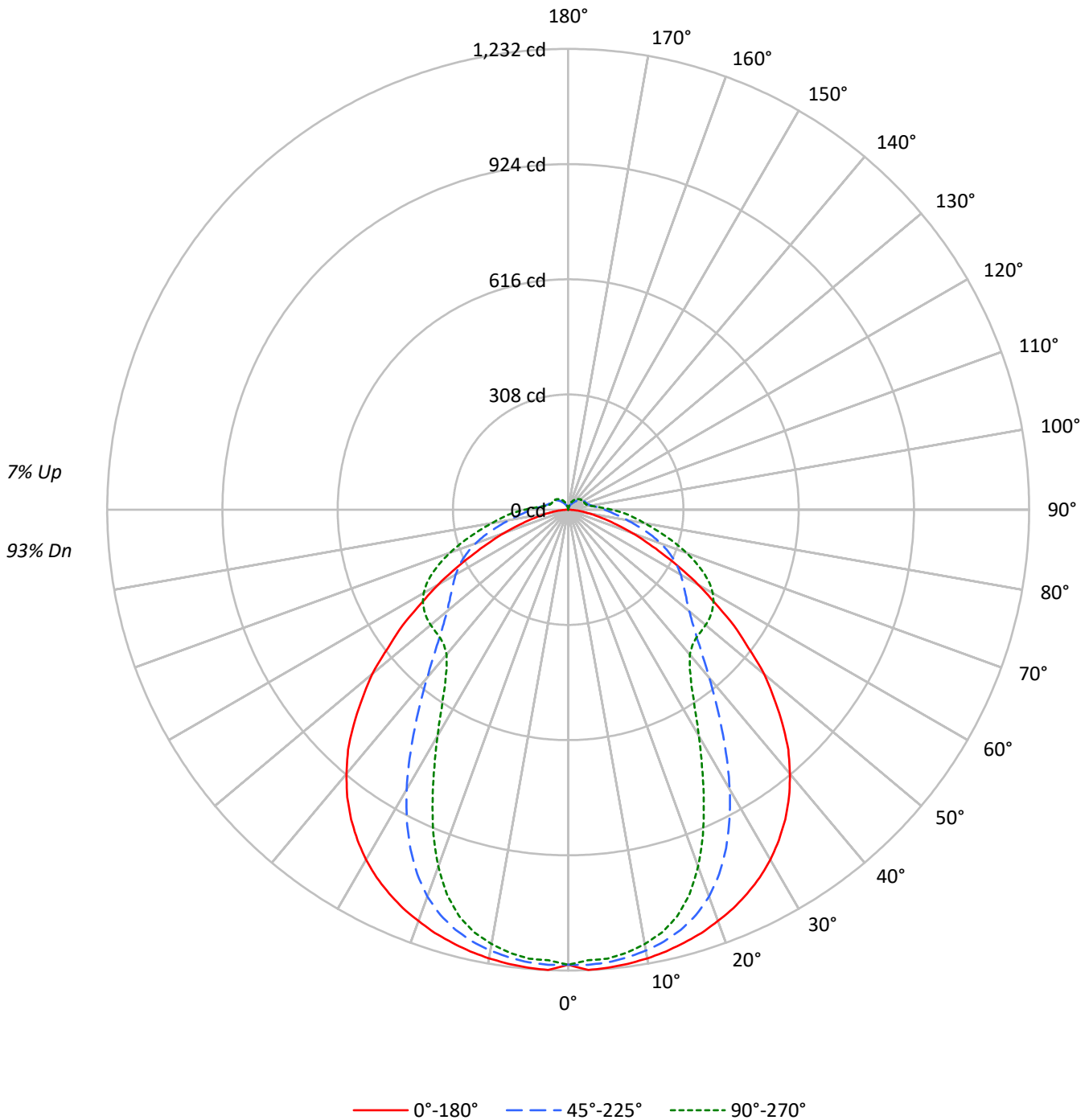
Lumens per Lamp: N/A
Luminaire Lumens: 3059.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 28
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°	9830	9830	9830
5°	9943	9613	9462
10°	9940	9347	9072
15°	9943	9034	8556
20°	9948	8568	7683
25°	9951	7851	6506
30°	9904	6909	5351
35°	9763	5878	4485
40°	9477	4978	4054
45°	8975	4326	4023
50°	8290	3955	4165
55°	7300	3801	4311
60°	6160	3747	4370
65°	4955	3664	4233
70°	3980	3476	3905
75°	3000	3145	3464
80°	2214	2823	3082
85°	1482	2665	2836



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	3.8
10°-20°	325.3	10.6
20°-30°	454.7	14.9
30°-40°	471.6	15.4
40°-50°	435.7	14.2
50°-60°	389.0	12.7
60°-70°	315.3	10.3
70°-80°	209.7	6.9
80°-90°	120.1	3.9
90°-100°	66.4	2.2
100°-110°	45.0	1.5
110°-120°	37.4	1.2
120°-130°	30.4	1.0
130°-140°	22.0	0.7
140°-150°	13.2	0.4
150°-160°	6.4	0.2
160°-170°	1.7	0.1
170°-180°	0.0	0.0
0°-30°	895.0	29.3
0°-40°	1366.7	44.7
0°-60°	2191.4	71.6
0°-90°	2836.5	92.7
90°-120°	148.9	4.9
90°-150°	214.5	7.0
90°-180°	223.0	7.3
0°-180°	3059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1229	1208	1215	1206	1205	117
15°	1198	1173	1163	1137	1126	339
25°	1132	1082	999	894	857	522
35°	1011	900	716	601	574	631
45°	810	642	487	470	484	623
55°	541	409	381	442	470	481
65°	276	247	310	380	400	279
75°	107	134	209	256	266	118
85°	22	62	123	158	162	25
90°	1	44	97	117	116	2
95°	1	37	77	82	80	1
105°	0	32	56	54	51	1
115°	0	29	49	49	47	0
125°	0	25	43	46	44	1
135°	1	18	34	40	40	1
145°	1	12	24	31	33	1
155°	1	7	15	20	24	1
165°	1	4	7	10	13	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°	1216.4	1216.4	1216.4	1216.4	1216.4
2.5°	1231.7	1211.6	1218.0	1212.7	1205.8
5°	1229.1	1208.5	1214.8	1206.3	1204.8
7.5°	1224.3	1203.7	1207.4	1197.4	1194.7
10°	1218.0	1196.3	1196.8	1182.5	1178.8
12.5°	1209.5	1185.7	1182.5	1163.0	1157.7
15°	1198.4	1173.0	1163.0	1136.6	1125.5
17.5°	1186.2	1156.6	1136.0	1095.3	1077.9
20°	1169.9	1136.6	1100.6	1038.8	1015.5
22.5°	1153.5	1112.2	1054.6	972.2	941.0
25°	1132.3	1082.1	998.6	893.9	857.4
27.5°	1108.5	1046.7	934.1	813.6	774.4
30°	1080.5	1003.9	863.3	734.8	697.8
32.5°	1047.7	955.8	788.7	664.0	629.6
35°	1011.3	900.3	715.8	601.1	574.1
37.5°	969.5	839.5	648.1	550.3	532.9
40°	921.9	773.4	585.7	511.2	505.4
42.5°	870.7	708.9	532.3	485.8	491.1
45°	809.9	641.8	487.4	470.0	484.2
47.5°	745.9	576.2	450.9	461.0	481.6
50°	684.0	515.4	422.4	455.2	479.5
52.5°	607.4	461.0	399.6	449.9	476.3
55°	541.3	409.2	380.6	442.5	470.0
57.5°	465.2	362.6	363.7	432.9	460.4
60°	401.8	320.4	347.3	419.7	446.2
62.5°	337.3	282.3	329.3	402.3	426.1
65°	276.5	247.4	309.8	379.6	399.6
67.5°	225.7	215.7	287.6	352.1	369.0
70°	182.9	186.6	263.3	321.4	335.7
72.5°	140.6	159.6	236.8	288.6	300.8
75°	107.3	134.3	208.8	255.9	266.4
77.5°	79.3	112.1	183.4	226.3	235.2
80°	56.0	92.5	159.6	200.4	207.2
82.5°	37.5	76.1	140.1	177.1	183.4
85°	21.7	62.4	123.2	157.5	161.8
87.5°	9.0	51.8	109.4	137.4	139.6
90°	1.1	43.9	97.3	117.4	116.3
92.5°	1.1	39.6	86.7	98.3	95.7
95°	1.1	37.0	77.2	82.5	79.8
97.5°	1.1	35.4	68.7	70.8	68.2
100°	0.5	34.4	62.9	62.9	60.3
102.5°	0.5	33.3	58.7	57.1	55.0
105°	0.5	32.2	55.5	53.9	51.3
107.5°	0.5	31.7	53.4	51.8	49.2
110°	0.5	30.7	51.8	50.2	48.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	30.1	50.7	49.7	47.0
115°	0.5	29.1	49.2	48.6	47.0
117.5°	0.5	28.0	48.1	48.1	46.5
120°	0.5	27.0	46.5	47.6	46.0
122.5°	0.5	25.9	44.9	46.5	44.9
125°	0.5	24.8	43.3	45.5	44.4
127.5°	1.1	23.3	41.2	44.4	43.3
130°	0.5	21.7	39.1	43.3	42.8
132.5°	1.1	20.1	37.0	41.8	41.8
135°	1.1	18.5	34.4	40.2	40.2
137.5°	1.1	16.4	31.7	38.1	38.6
140°	1.1	14.8	29.1	35.9	37.0
142.5°	1.1	13.2	26.4	33.8	35.4
145°	1.1	11.6	23.8	31.2	33.3
147.5°	1.1	10.6	21.1	28.0	31.2
150°	1.1	9.0	19.0	25.4	28.5
152.5°	1.1	7.9	16.9	22.7	26.4
155°	1.1	7.4	14.8	19.6	23.8
157.5°	1.1	6.3	12.7	16.9	21.1
160°	1.1	5.3	10.6	14.8	18.0
162.5°	1.1	4.8	9.0	12.2	15.9
165°	1.1	4.2	7.4	9.5	12.7
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)