

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-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-37SL-SLC-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

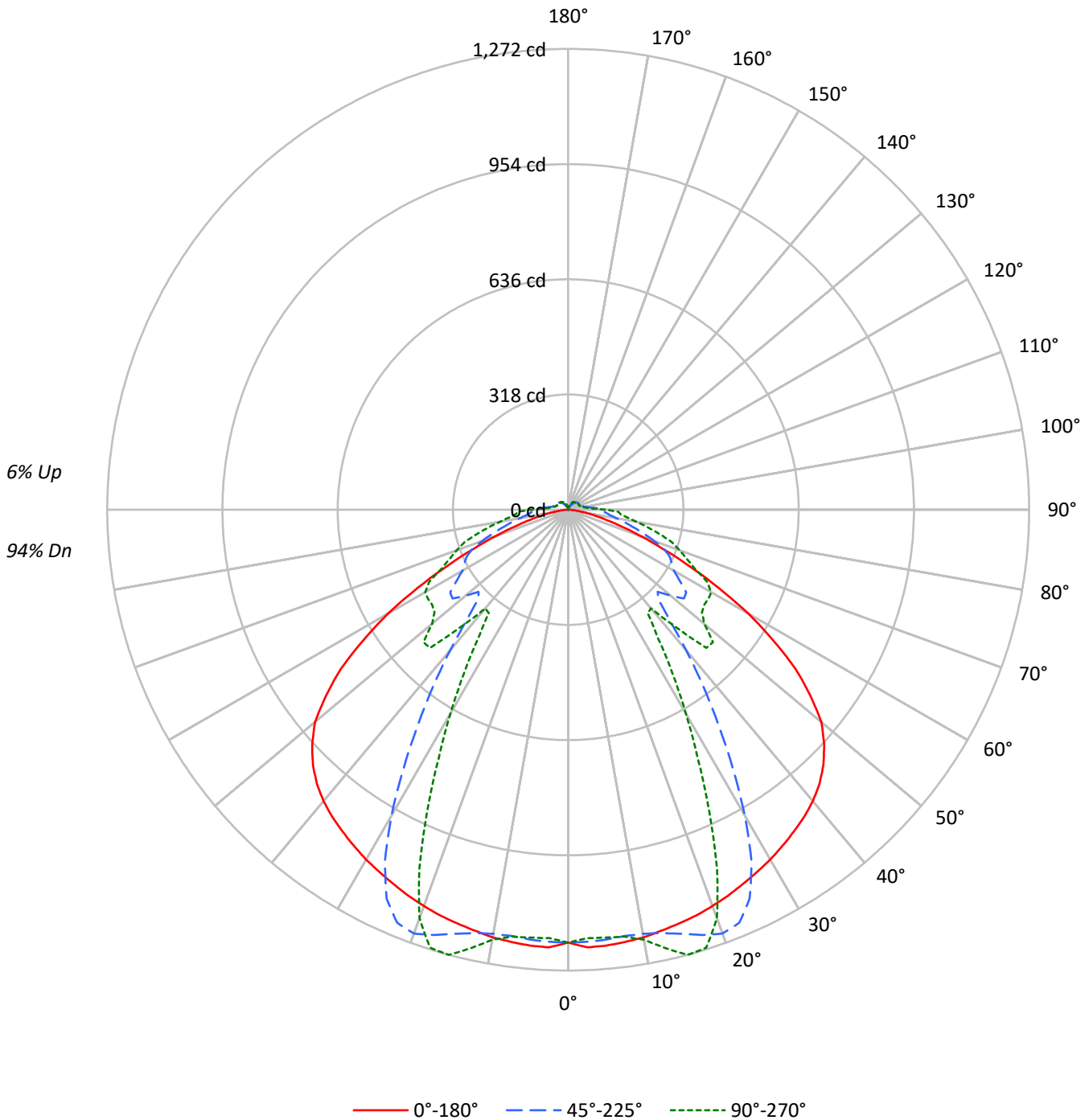
Lumens per Lamp: N/A
Luminaire Lumens: 3068.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 28
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°	9651	9651	9651
5°	9769	9426	9310
10°	9781	9282	9277
15°	9808	9413	9670
20°	9899	9693	9076
25°	10022	9315	6989
30°	10220	7802	4971
35°	10473	5909	3366
40°	10793	4295	2850
45°	11039	3116	4481
50°	11054	3450	4253
55°	10332	3971	4200
60°	8804	3634	4463
65°	6623	3664	4083
70°	4648	3336	3800
75°	3045	2795	3410
80°	1945	2393	2839
85°	1045	2276	2548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.7
10°-20°	343.1	11.2
20°-30°	498.5	16.2
30°-40°	476.3	15.5
40°-50°	435.6	14.2
50°-60°	402.2	13.1
60°-70°	319.5	10.4
70°-80°	197.2	6.4
80°-90°	107.4	3.5
90°-100°	54.3	1.8
100°-110°	34.1	1.1
110°-120°	28.9	0.9
120°-130°	23.6	0.8
130°-140°	16.9	0.6
140°-150°	10.4	0.3
150°-160°	5.0	0.2
160°-170°	1.3	0.0
170°-180°	0.0	0.0
0°-30°	955.2	31.1
0°-40°	1431.5	46.7
0°-60°	2269.4	74.0
0°-90°	2893.5	94.3
90°-120°	117.3	3.8
90°-150°	168.2	5.5
90°-180°	174.0	5.7
0°-180°	3068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1208	1189	1191	1185	1185	115
15°	1182	1166	1212	1257	1272	335
25°	1140	1163	1185	1003	921	527
35°	1085	1068	720	495	431	680
45°	996	695	351	448	539	766
55°	766	356	398	428	458	675
65°	370	231	310	376	385	374
75°	109	123	186	246	262	123
85°	15	52	105	143	145	20
90°	0	39	94	112	103	1
95°	0	36	65	58	54	0
105°	0	33	40	36	36	0
115°	0	27	39	34	33	0
125°	0	22	34	33	32	0
135°	0	15	28	30	29	0
145°	0	10	19	24	26	0
155°	1	6	12	15	18	0
165°	1	3	6	7	10	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°	1194.3	1194.3	1194.3	1194.3	1194.3
2.5°	1209.1	1191.7	1193.8	1190.1	1183.8
5°	1207.6	1189.1	1191.2	1184.8	1185.4
7.5°	1203.3	1184.3	1186.9	1185.9	1188.5
10°	1198.6	1178.5	1188.5	1197.5	1205.4
12.5°	1190.1	1172.1	1196.5	1222.9	1239.3
15°	1182.2	1166.3	1211.8	1256.7	1272.1
17.5°	1174.3	1164.2	1230.8	1269.9	1267.8
20°	1164.2	1163.1	1245.1	1231.9	1199.6
22.5°	1153.1	1163.7	1234.0	1137.2	1073.8
25°	1140.4	1162.6	1184.8	1003.0	921.0
27.5°	1127.7	1157.9	1095.5	856.0	775.1
30°	1115.0	1145.2	974.9	721.7	648.2
32.5°	1100.2	1117.7	843.8	602.7	535.0
35°	1084.9	1067.5	719.6	495.4	430.9
37.5°	1069.0	995.0	608.0	401.3	360.0
40°	1050.0	904.1	505.4	344.2	355.3
42.5°	1026.2	801.5	415.0	361.1	438.3
45°	996.1	694.7	351.1	447.8	539.3
47.5°	958.0	592.1	335.2	512.8	541.4
50°	912.0	498.0	368.5	491.7	489.6
52.5°	842.2	419.8	402.3	448.3	465.3
55°	766.1	356.3	397.6	427.7	457.9
57.5°	669.9	313.5	364.8	423.5	458.4
60°	574.2	285.0	336.8	423.0	455.7
62.5°	468.4	259.1	322.5	412.9	432.5
65°	369.6	231.0	309.8	376.4	385.4
67.5°	283.4	202.5	287.6	335.7	353.7
70°	213.6	174.5	252.7	304.5	326.7
72.5°	153.9	148.0	216.8	277.0	300.3
75°	108.9	123.2	185.6	245.8	262.2
77.5°	75.1	100.5	159.1	211.5	224.7
80°	49.2	80.4	135.3	181.9	190.9
82.5°	29.6	64.5	117.4	159.1	163.9
85°	15.3	52.3	105.2	143.3	145.4
87.5°	4.8	43.9	98.3	135.9	138.5
90°	0.5	39.1	94.1	111.6	103.1
92.5°	0.0	37.0	81.4	76.1	68.2
95°	0.0	36.5	65.0	57.6	54.5
97.5°	0.0	35.4	53.4	48.1	46.5
100°	0.0	34.4	46.0	42.3	41.8
102.5°	0.0	33.8	41.8	38.6	38.1
105°	0.0	32.8	40.2	36.5	36.0
107.5°	0.0	31.2	39.1	35.4	34.4
110°	0.0	29.6	39.1	34.9	33.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	28.0	39.1	34.4	32.8
115°	0.0	27.0	38.6	34.4	32.8
117.5°	0.5	25.9	38.1	34.4	32.8
120°	0.0	24.8	37.0	34.4	32.3
122.5°	0.5	23.3	36.0	33.8	32.3
125°	0.5	21.7	34.4	33.3	31.7
127.5°	0.5	20.1	32.8	32.3	30.7
130°	0.5	18.5	31.2	31.7	30.1
132.5°	0.5	16.9	29.1	30.7	29.6
135°	0.5	15.3	27.5	30.1	29.1
137.5°	0.5	13.7	25.4	28.6	28.6
140°	0.5	12.2	23.3	27.5	28.0
142.5°	0.5	11.1	21.1	26.4	27.0
145°	0.5	9.5	19.0	24.3	25.9
147.5°	0.5	8.5	16.9	22.2	24.3
150°	0.5	7.4	14.8	20.1	22.2
152.5°	0.5	6.3	13.2	17.4	20.6
155°	1.1	5.8	11.6	15.3	18.5
157.5°	1.1	4.8	9.5	13.2	15.9
160°	1.1	4.2	8.5	11.1	14.3
162.5°	1.1	3.7	6.9	9.5	12.2
165°	1.1	3.2	5.8	7.4	10.0
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)