

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: **2SNLED-LD5-27SL-SLN-UNV-L940-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: 2SNLED-LD5-27SL-SLN-UNV-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

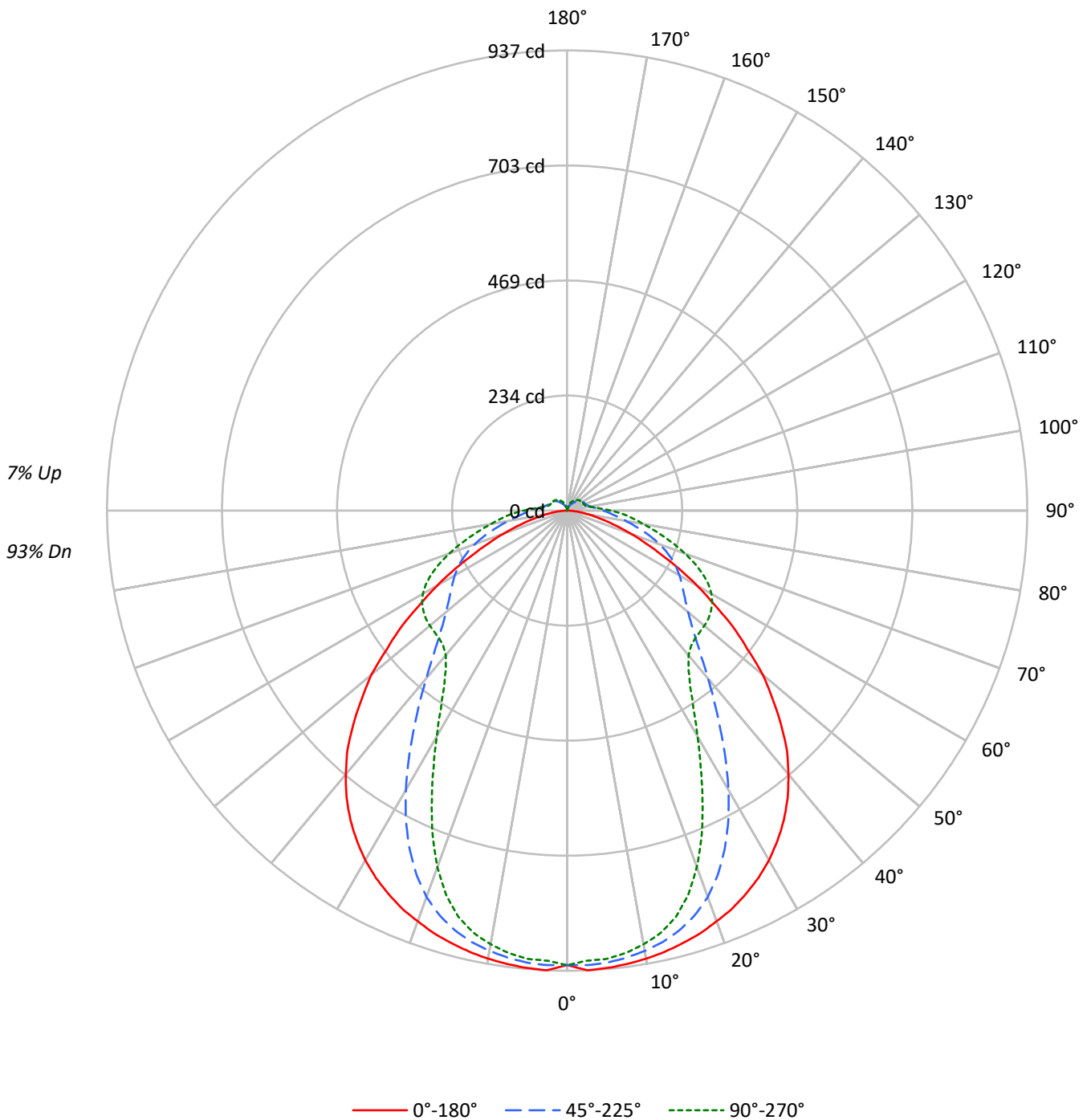
Lumens per Lamp: N/A
Luminaire Lumens: 2327.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 21
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°	14955	14955	14955
5°	15087	14597	14396
10°	15039	14167	13804
15°	15002	13669	13015
20°	14965	12941	11689
25°	14926	11837	9900
30°	14806	10397	8142
35°	14542	8829	6823
40°	14059	7462	6167
45°	13254	6471	6122
50°	12178	5901	6336
55°	10653	5656	6558
60°	8913	5559	6648
65°	7092	5417	6441
70°	5610	5114	5941
75°	4132	4600	5272
80°	2927	4100	4688
85°	1785	3828	4315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.8
10°-20°	247.4	10.6
20°-30°	345.9	14.9
30°-40°	358.8	15.4
40°-50°	331.5	14.2
50°-60°	295.9	12.7
60°-70°	239.8	10.3
70°-80°	159.5	6.9
80°-90°	91.3	3.9
90°-100°	50.5	2.2
100°-110°	34.2	1.5
110°-120°	28.5	1.2
120°-130°	23.2	1.0
130°-140°	16.7	0.7
140°-150°	10.1	0.4
150°-160°	4.8	0.2
160°-170°	1.3	0.1
170°-180°	0.0	0.0
0°-30°	680.9	29.3
0°-40°	1039.7	44.7
0°-60°	1667.0	71.6
0°-90°	2157.7	92.7
90°-120°	113.2	4.9
90°-150°	163.2	7.0
90°-180°	169.0	7.3
0°-180°	2327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	935	919	924	918	916	89
15°	912	892	885	865	856	258
25°	861	823	760	680	652	397
35°	769	685	544	457	437	480
45°	616	488	371	358	368	474
55°	412	311	290	337	358	366
65°	210	188	236	289	304	213
75°	82	102	159	195	203	89
85°	16	48	94	120	123	19
90°	1	33	74	89	88	1
95°	1	28	59	63	61	1
105°	0	24	42	41	39	0
115°	0	22	37	37	36	0
125°	0	19	33	35	34	0
135°	1	14	26	31	31	1
145°	1	9	18	24	25	1
155°	1	6	11	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°	925.3	925.3	925.3	925.3	925.3
2.5°	937.0	921.7	926.5	922.5	917.3
5°	935.0	919.3	924.1	917.7	916.5
7.5°	931.3	915.7	918.5	910.8	908.8
10°	926.5	910.0	910.4	899.6	896.8
12.5°	920.1	902.0	899.6	884.7	880.7
15°	911.6	892.3	884.7	864.6	856.1
17.5°	902.4	879.9	864.2	833.2	819.9
20°	889.9	864.6	837.2	790.2	772.5
22.5°	877.5	846.1	802.3	739.5	715.8
25°	861.4	823.2	759.6	680.0	652.3
27.5°	843.3	796.2	710.6	618.9	589.1
30°	822.0	763.7	656.7	559.0	530.8
32.5°	797.0	727.1	600.0	505.1	478.9
35°	769.3	684.8	544.5	457.2	436.7
37.5°	737.5	638.6	493.0	418.6	405.4
40°	701.3	588.3	445.6	388.9	384.4
42.5°	662.3	539.3	404.9	369.6	373.6
45°	616.1	488.2	370.8	357.5	368.4
47.5°	567.4	438.3	343.0	350.7	366.3
50°	520.4	392.1	321.3	346.2	364.7
52.5°	462.1	350.7	304.0	342.2	362.3
55°	411.8	311.3	289.5	336.6	357.5
57.5°	353.9	275.9	276.7	329.3	350.3
60°	305.6	243.7	264.2	319.3	339.4
62.5°	256.6	214.7	250.5	306.0	324.1
65°	210.3	188.2	235.7	288.7	304.0
67.5°	171.7	164.1	218.8	267.8	280.7
70°	139.1	142.0	200.3	244.5	255.4
72.5°	107.0	121.4	180.2	219.6	228.8
75°	81.6	102.1	158.8	194.6	202.7
77.5°	60.3	85.3	139.5	172.1	178.9
80°	42.6	70.4	121.4	152.4	157.6
82.5°	28.6	57.9	106.6	134.7	139.5
85°	16.5	47.5	93.7	119.8	123.1
87.5°	6.8	39.4	83.2	104.6	106.2
90°	0.8	33.4	74.0	89.3	88.5
92.5°	0.8	30.2	65.9	74.8	72.8
95°	0.8	28.1	58.7	62.7	60.7
97.5°	0.8	26.9	52.3	53.9	51.9
100°	0.4	26.1	47.9	47.9	45.8
102.5°	0.4	25.3	44.6	43.4	41.8
105°	0.4	24.5	42.2	41.0	39.0
107.5°	0.4	24.1	40.6	39.4	37.4
110°	0.4	23.3	39.4	38.2	36.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	22.9	38.6	37.8	35.8
115°	0.4	22.1	37.4	37.0	35.8
117.5°	0.4	21.3	36.6	36.6	35.4
120°	0.4	20.5	35.4	36.2	35.0
122.5°	0.4	19.7	34.2	35.4	34.2
125°	0.4	18.9	33.0	34.6	33.8
127.5°	0.8	17.7	31.4	33.8	33.0
130°	0.4	16.5	29.8	33.0	32.6
132.5°	0.8	15.3	28.1	31.8	31.8
135°	0.8	14.1	26.1	30.6	30.6
137.5°	0.8	12.5	24.1	29.0	29.4
140°	0.8	11.3	22.1	27.3	28.1
142.5°	0.8	10.1	20.1	25.7	26.9
145°	0.8	8.8	18.1	23.7	25.3
147.5°	0.8	8.0	16.1	21.3	23.7
150°	0.8	6.8	14.5	19.3	21.7
152.5°	0.8	6.0	12.9	17.3	20.1
155°	0.8	5.6	11.3	14.9	18.1
157.5°	0.8	4.8	9.7	12.9	16.1
160°	0.8	4.0	8.0	11.3	13.7
162.5°	0.8	3.6	6.8	9.2	12.1
165°	0.8	3.2	5.6	7.2	9.7
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)