

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-LD5-18SL-SLC-UNV-L950-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-LD5-18SL-SLC-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

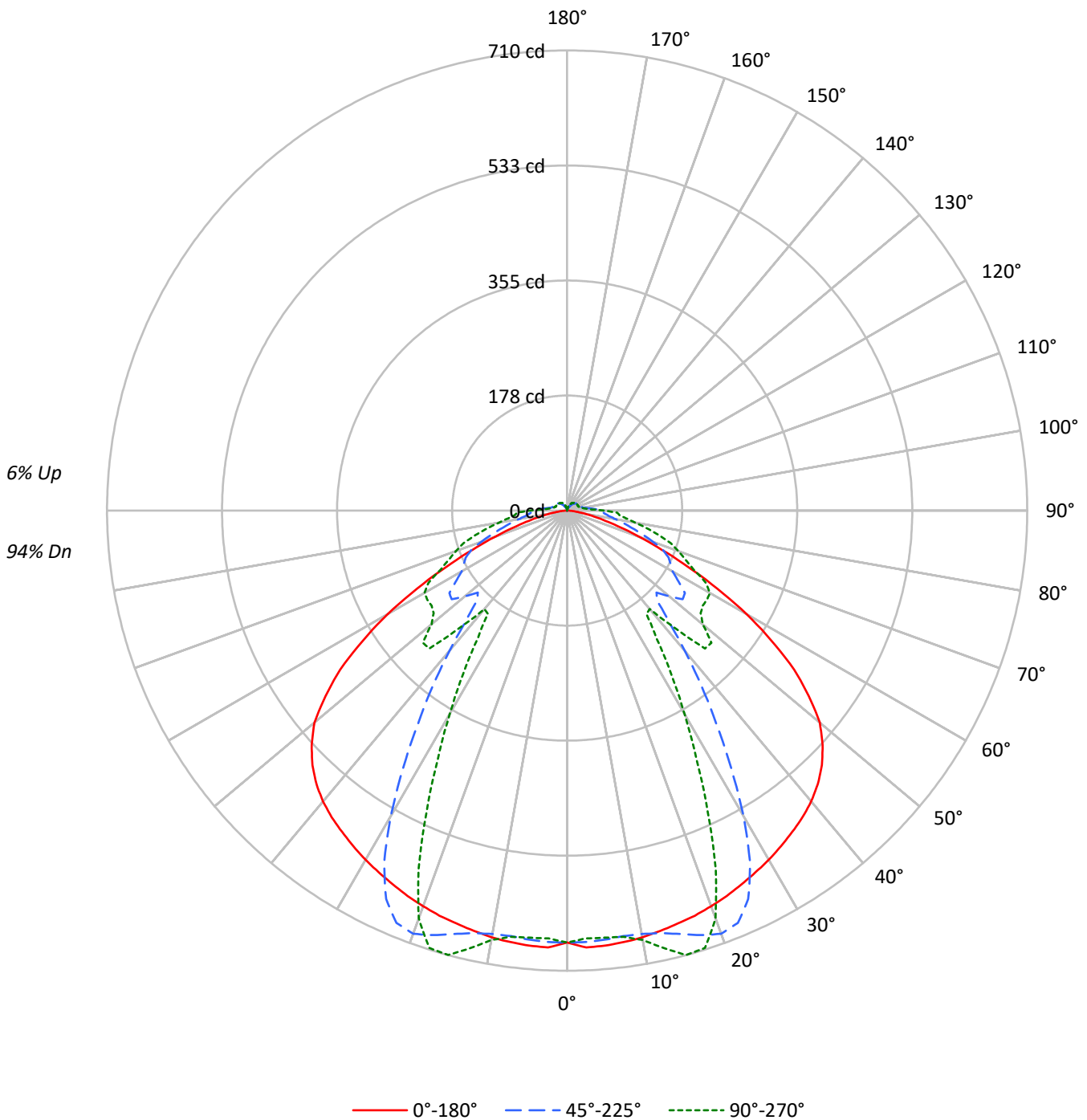
Lumens per Lamp: N/A
Luminaire Lumens: 1712.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 13
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	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	63	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°	5386	5386	5386
5°	5451	5260	5195
10°	5458	5179	5177
15°	5473	5252	5396
20°	5524	5409	5065
25°	5593	5199	3900
30°	5703	4353	2774
35°	5844	3297	1878
40°	6023	2397	1591
45°	6159	1739	2500
50°	6168	1925	2373
55°	5766	2216	2343
60°	4912	2027	2491
65°	3695	2045	2279
70°	2594	1861	2120
75°	1700	1560	1903
80°	1083	1336	1584
85°	588	1270	1421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.7
10°-20°	191.5	11.2
20°-30°	278.2	16.2
30°-40°	265.8	15.5
40°-50°	243.1	14.2
50°-60°	224.5	13.1
60°-70°	178.3	10.4
70°-80°	110.1	6.4
80°-90°	59.9	3.5
90°-100°	30.3	1.8
100°-110°	19.0	1.1
110°-120°	16.1	0.9
120°-130°	13.2	0.8
130°-140°	9.4	0.6
140°-150°	5.8	0.3
150°-160°	2.8	0.2
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	533.0	31.1
0°-40°	798.8	46.7
0°-60°	1266.4	74.0
0°-90°	1614.6	94.3
90°-120°	65.5	3.8
90°-150°	93.9	5.5
90°-180°	97.0	5.7
0°-180°	1712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	674	664	665	661	661	64
15°	660	651	676	701	710	187
25°	636	649	661	560	514	294
35°	605	596	402	276	240	380
45°	556	388	196	250	301	427
55°	428	199	222	239	256	377
65°	206	129	173	210	215	209
75°	61	69	104	137	146	69
85°	9	29	59	80	81	11
90°	0	22	52	62	58	0
95°	0	20	36	32	30	0
105°	0	18	22	20	20	0
115°	0	15	22	19	18	0
125°	0	12	19	19	18	0
135°	0	9	15	17	16	0
145°	0	5	11	14	14	0
155°	1	3	6	9	10	0
165°	1	2	3	4	6	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°	666.5	666.5	666.5	666.5	666.5
2.5°	674.7	665.0	666.2	664.1	660.6
5°	673.8	663.5	664.7	661.2	661.4
7.5°	671.5	660.9	662.3	661.7	663.2
10°	668.8	657.6	663.2	668.2	672.7
12.5°	664.1	654.1	667.6	682.4	691.5
15°	659.7	650.8	676.2	701.3	709.8
17.5°	655.3	649.6	686.8	708.7	707.5
20°	649.6	649.1	694.8	687.4	669.4
22.5°	643.5	649.4	688.6	634.6	599.2
25°	636.4	648.8	661.2	559.7	513.9
27.5°	629.3	646.1	611.3	477.6	432.5
30°	622.2	639.0	544.0	402.7	361.7
32.5°	614.0	623.7	470.9	336.3	298.6
35°	605.4	595.7	401.5	276.4	240.4
37.5°	596.5	555.2	339.3	223.9	200.9
40°	585.9	504.5	282.0	192.1	198.3
42.5°	572.6	447.3	231.6	201.5	244.6
45°	555.8	387.7	195.9	249.9	300.9
47.5°	534.6	330.4	187.0	286.2	302.1
50°	508.9	277.9	205.6	274.4	273.2
52.5°	470.0	234.3	224.5	250.2	259.6
55°	427.5	198.8	221.9	238.7	255.5
57.5°	373.8	175.0	203.6	236.3	255.8
60°	320.4	159.0	187.9	236.0	254.3
62.5°	261.4	144.6	180.0	230.4	241.3
65°	206.2	128.9	172.9	210.1	215.1
67.5°	158.1	113.0	160.5	187.3	197.4
70°	119.2	97.4	141.0	169.9	182.3
72.5°	85.9	82.6	121.0	154.6	167.6
75°	60.8	68.7	103.6	137.2	146.3
77.5°	41.9	56.1	88.8	118.0	125.4
80°	27.4	44.8	75.5	101.5	106.5
82.5°	16.5	36.0	65.5	88.8	91.5
85°	8.6	29.2	58.7	80.0	81.1
87.5°	2.7	24.5	54.9	75.8	77.3
90°	0.3	21.8	52.5	62.3	57.5
92.5°	0.0	20.7	45.4	42.5	38.1
95°	0.0	20.4	36.3	32.2	30.4
97.5°	0.0	19.8	29.8	26.8	26.0
100°	0.0	19.2	25.7	23.6	23.3
102.5°	0.0	18.9	23.3	21.5	21.2
105°	0.0	18.3	22.4	20.4	20.1
107.5°	0.0	17.4	21.8	19.8	19.2
110°	0.0	16.5	21.8	19.5	18.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	15.6	21.8	19.2	18.3
115°	0.0	15.0	21.5	19.2	18.3
117.5°	0.3	14.5	21.2	19.2	18.3
120°	0.0	13.9	20.7	19.2	18.0
122.5°	0.3	13.0	20.1	18.9	18.0
125°	0.3	12.1	19.2	18.6	17.7
127.5°	0.3	11.2	18.3	18.0	17.1
130°	0.3	10.3	17.4	17.7	16.8
132.5°	0.3	9.4	16.2	17.1	16.5
135°	0.3	8.6	15.3	16.8	16.2
137.5°	0.3	7.7	14.2	15.9	15.9
140°	0.3	6.8	13.0	15.3	15.6
142.5°	0.3	6.2	11.8	14.8	15.0
145°	0.3	5.3	10.6	13.6	14.5
147.5°	0.3	4.7	9.4	12.4	13.6
150°	0.3	4.1	8.3	11.2	12.4
152.5°	0.3	3.5	7.4	9.7	11.5
155°	0.6	3.2	6.5	8.6	10.3
157.5°	0.6	2.7	5.3	7.4	8.9
160°	0.6	2.4	4.7	6.2	8.0
162.5°	0.6	2.1	3.8	5.3	6.8
165°	0.6	1.8	3.2	4.1	5.6
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)