

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-LD5-78SL-SLN-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-78SL-SLN-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

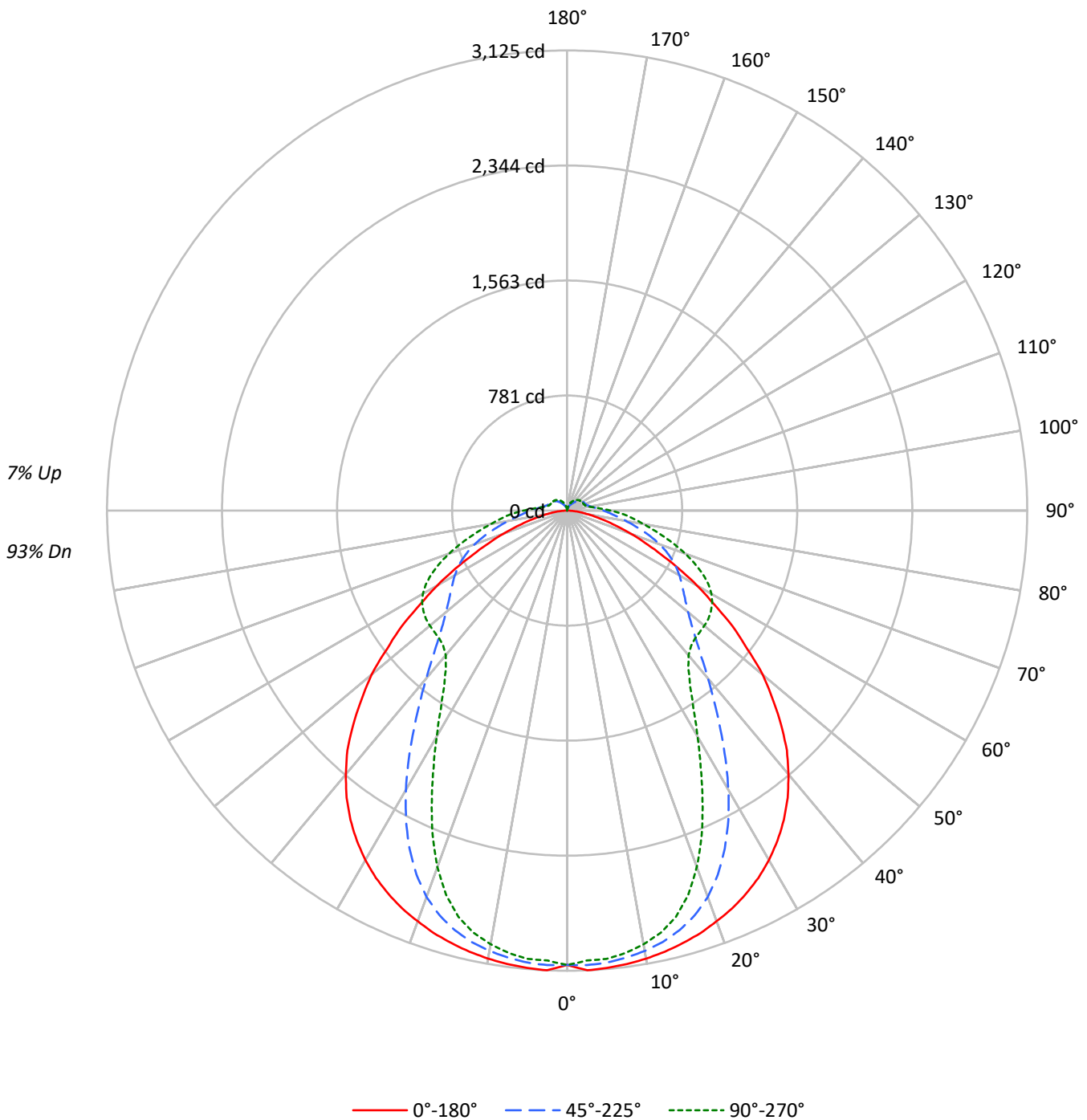
Lumens per Lamp: N/A
Luminaire Lumens: 7760.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 85
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°	24936	24936	24936
5°	25223	24385	24003
10°	25214	23711	23016
15°	25223	22916	21702
20°	25234	21736	19491
25°	25245	19917	16505
30°	25123	17525	13575
35°	24766	14910	11376
40°	24041	12627	10284
45°	22767	10974	10207
50°	21033	10033	10565
55°	18520	9643	10935
60°	15627	9505	11085
65°	12569	9294	10740
70°	10096	8815	9904
75°	7611	7978	8790
80°	5617	7165	7819
85°	3757	6760	7192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.9	3.8
10°-20°	825.1	10.6
20°-30°	1153.5	14.9
30°-40°	1196.4	15.4
40°-50°	1105.3	14.2
50°-60°	986.8	12.7
60°-70°	799.8	10.3
70°-80°	531.9	6.9
80°-90°	304.6	3.9
90°-100°	168.5	2.2
100°-110°	114.1	1.5
110°-120°	95.0	1.2
120°-130°	77.2	1.0
130°-140°	55.7	0.7
140°-150°	33.6	0.4
150°-160°	16.1	0.2
160°-170°	4.2	0.1
170°-180°	0.0	0.0
0°-30°	2270.5	29.3
0°-40°	3467.0	44.7
0°-60°	5559.1	71.6
0°-90°	7195.4	92.7
90°-120°	377.7	4.9
90°-150°	544.2	7.0
90°-180°	565.0	7.3
0°-180°	7760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3086	3086	3086	3086	3086	
5°	3118	3066	3082	3060	3056	297
15°	3040	2976	2950	2883	2855	859
25°	2872	2745	2533	2268	2175	1324
35°	2565	2284	1816	1525	1456	1601
45°	2054	1628	1236	1192	1228	1580
55°	1373	1038	966	1122	1192	1221
65°	701	628	786	963	1014	709
75°	272	341	530	649	676	298
85°	55	158	312	400	410	63
90°	3	111	247	298	295	4
95°	3	94	196	209	202	2
105°	1	82	141	137	130	1
115°	1	74	125	123	119	1
125°	1	63	110	115	113	1
135°	3	47	87	102	102	2
145°	3	30	60	79	84	2
155°	3	19	38	50	60	1
165°	3	11	19	24	32	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: 4SNLED-LD5-78SL-SLN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3085.7	3085.7	3085.7	3085.7	3085.7
2.5°	3124.6	3073.6	3089.7	3076.3	3058.9
5°	3117.9	3065.6	3081.7	3060.2	3056.2
7.5°	3105.8	3053.5	3062.9	3037.4	3030.7
10°	3089.7	3034.7	3036.1	2999.9	2990.5
12.5°	3068.3	3007.9	2999.9	2950.2	2936.8
15°	3040.1	2975.7	2950.2	2883.2	2855.0
17.5°	3009.2	2934.2	2881.9	2778.6	2734.3
20°	2967.7	2883.2	2792.0	2635.1	2576.1
22.5°	2926.1	2821.5	2675.3	2466.1	2387.0
25°	2872.5	2745.1	2533.2	2267.7	2175.1
27.5°	2812.1	2655.2	2369.6	2063.8	1964.6
30°	2741.0	2546.6	2189.9	1864.0	1770.1
32.5°	2657.9	2424.6	2000.8	1684.3	1597.2
35°	2565.4	2283.8	1815.7	1524.7	1456.3
37.5°	2459.4	2129.5	1644.1	1396.0	1351.7
40°	2338.7	1961.9	1485.8	1296.8	1282.0
42.5°	2208.7	1798.3	1350.4	1232.4	1245.8
45°	2054.4	1628.0	1236.4	1192.2	1228.4
47.5°	1892.2	1461.7	1143.9	1169.4	1221.7
50°	1735.3	1307.5	1071.5	1154.6	1216.3
52.5°	1540.8	1169.4	1013.8	1141.2	1208.3
55°	1373.2	1037.9	965.5	1122.4	1192.2
57.5°	1180.1	919.9	922.6	1098.3	1168.0
60°	1019.2	812.7	881.0	1064.8	1131.8
62.5°	855.6	716.1	835.5	1020.5	1080.9
65°	701.4	627.6	785.8	962.9	1013.8
67.5°	572.6	547.1	729.5	893.1	936.0
70°	464.0	473.4	667.8	815.3	851.5
72.5°	356.7	405.0	600.8	732.2	763.0
75°	272.2	340.6	529.7	649.1	675.9
77.5°	201.2	284.3	465.3	574.0	596.8
80°	142.1	234.7	405.0	508.2	525.7
82.5°	95.2	193.1	355.4	449.2	465.3
85°	55.0	158.2	312.5	399.6	410.4
87.5°	22.8	131.4	277.6	348.7	354.0
90°	2.7	111.3	246.7	297.7	295.0
92.5°	2.7	100.6	219.9	249.4	242.7
95°	2.7	93.9	195.8	209.2	202.5
97.5°	2.7	89.8	174.3	179.7	173.0
100°	1.3	87.2	159.6	159.6	152.9
102.5°	1.3	84.5	148.9	144.8	139.5
105°	1.3	81.8	140.8	136.8	130.1
107.5°	1.3	80.5	135.4	131.4	124.7
110°	1.3	77.8	131.4	127.4	122.0



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CATALOG NUMBER: 4SNLED-LD5-78SL-SLN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	76.4	128.7	126.1	119.4
115°	1.3	73.8	124.7	123.4	119.4
117.5°	1.3	71.1	122.0	122.0	118.0
120°	1.3	68.4	118.0	120.7	116.7
122.5°	1.3	65.7	114.0	118.0	114.0
125°	1.3	63.0	110.0	115.3	112.6
127.5°	2.7	59.0	104.6	112.6	110.0
130°	1.3	55.0	99.2	110.0	108.6
132.5°	2.7	51.0	93.9	105.9	105.9
135°	2.7	46.9	87.2	101.9	101.9
137.5°	2.7	41.6	80.5	96.6	97.9
140°	2.7	37.5	73.8	91.2	93.9
142.5°	2.7	33.5	67.1	85.8	89.8
145°	2.7	29.5	60.3	79.1	84.5
147.5°	2.7	26.8	53.6	71.1	79.1
150°	2.7	22.8	48.3	64.4	72.4
152.5°	2.7	20.1	42.9	57.7	67.1
155°	2.7	18.8	37.5	49.6	60.3
157.5°	2.7	16.1	32.2	42.9	53.6
160°	2.7	13.4	26.8	37.5	45.6
162.5°	2.7	12.1	22.8	30.8	40.2
165°	2.7	10.7	18.8	24.1	32.2
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)