

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: **8SNLED-LD5-98SL-SLC-UNV-L850-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: 8SNLED-LD5-98SL-SLC-UNV-L850-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

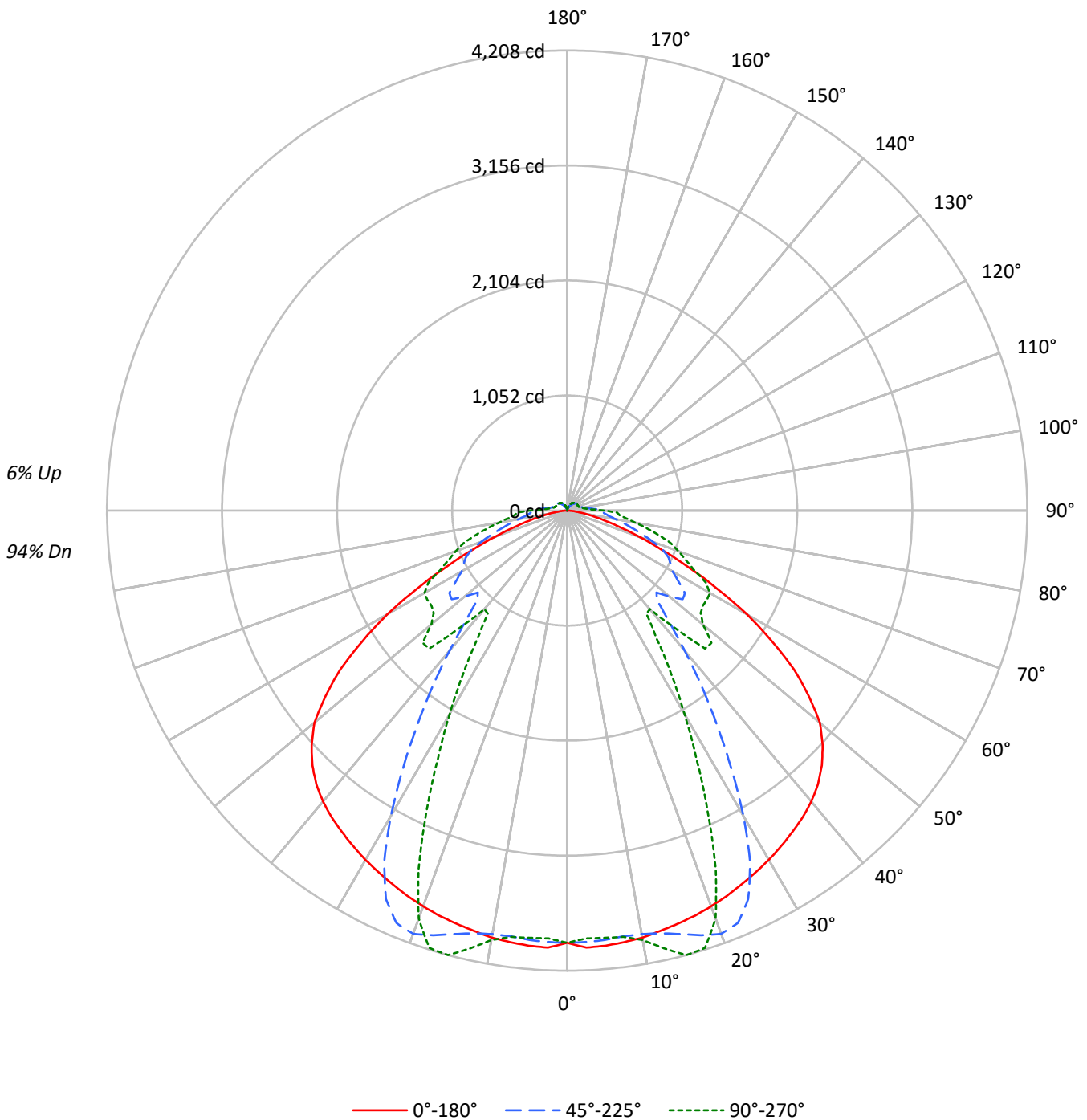
Lumens per Lamp: N/A
Luminaire Lumens: 10149.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 75
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	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°	15964	15964	15964
5°	16180	15605	15398
10°	16223	15381	15345
15°	16290	15612	15994
20°	16466	16091	15012
25°	16697	15478	11559
30°	17056	12976	8222
35°	17511	9837	5567
40°	18083	7158	4714
45°	18538	5199	7411
50°	18618	5763	7034
55°	17462	6642	6946
60°	14945	6088	7383
65°	11309	6151	6753
70°	8004	5613	6286
75°	5315	4717	5641
80°	3478	4057	4696
85°	1994	3878	4215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.9	3.7
10°-20°	1135.1	11.2
20°-30°	1649.0	16.2
30°-40°	1575.5	15.5
40°-50°	1441.1	14.2
50°-60°	1330.7	13.1
60°-70°	1057.0	10.4
70°-80°	652.4	6.4
80°-90°	355.2	3.5
90°-100°	179.5	1.8
100°-110°	112.8	1.1
110°-120°	95.6	0.9
120°-130°	78.0	0.8
130°-140°	56.0	0.6
140°-150°	34.5	0.3
150°-160°	16.4	0.2
160°-170°	4.3	0.0
170°-180°	0.0	0.0
0°-30°	3159.9	31.1
0°-40°	4735.4	46.7
0°-60°	7507.2	74.0
0°-90°	9571.8	94.3
90°-120°	387.9	3.8
90°-150°	556.5	5.5
90°-180°	577.0	5.7
0°-180°	10149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3951	3951	3951	3951	3951	
5°	3995	3933	3940	3919	3921	380
15°	3911	3858	4009	4157	4208	1107
25°	3772	3846	3919	3318	3047	1744
35°	3589	3531	2380	1639	1425	2250
45°	3295	2298	1161	1481	1784	2532
55°	2534	1179	1315	1415	1515	2232
65°	1222	764	1025	1245	1275	1236
75°	360	408	614	813	868	408
85°	51	173	348	474	481	65
90°	2	129	311	369	341	3
95°	0	121	215	191	180	0
105°	0	108	133	121	119	0
115°	0	89	128	114	108	1
125°	2	72	114	110	105	1
135°	2	51	91	100	96	1
145°	2	32	63	80	86	1
155°	4	19	38	51	61	1
165°	4	10	19	24	33	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3950.9	3950.9	3950.9	3950.9	3950.9
2.5°	3999.9	3942.2	3949.2	3936.9	3915.9
5°	3994.6	3933.4	3940.4	3919.4	3921.2
7.5°	3980.6	3917.7	3926.4	3922.9	3931.7
10°	3964.9	3898.4	3931.7	3961.4	3987.6
12.5°	3936.9	3877.5	3957.9	4045.4	4099.6
15°	3910.7	3858.2	4008.6	4157.3	4208.0
17.5°	3884.4	3851.2	4071.6	4201.0	4194.0
20°	3851.2	3847.7	4118.8	4075.1	3968.4
22.5°	3814.5	3849.5	4082.1	3762.0	3552.1
25°	3772.5	3846.0	3919.4	3317.8	3046.7
27.5°	3730.5	3830.2	3623.9	2831.6	2564.0
30°	3688.6	3788.3	3225.1	2387.3	2144.2
32.5°	3639.6	3697.3	2791.3	1993.8	1770.0
35°	3588.9	3531.2	2380.3	1638.8	1425.4
37.5°	3536.4	3291.5	2011.3	1327.5	1191.0
40°	3473.4	2990.7	1672.0	1138.6	1175.3
42.5°	3394.7	2651.4	1372.9	1194.5	1449.9
45°	3295.0	2298.1	1161.3	1481.4	1783.9
47.5°	3169.1	1958.8	1108.8	1696.5	1790.9
50°	3017.0	1647.5	1219.0	1626.5	1619.5
52.5°	2786.1	1388.7	1331.0	1483.1	1539.1
55°	2534.2	1178.8	1315.2	1414.9	1514.6
57.5°	2215.9	1037.1	1206.8	1400.9	1516.4
60°	1899.4	942.7	1114.1	1399.2	1507.6
62.5°	1549.6	857.0	1066.9	1365.9	1430.7
65°	1222.5	764.3	1024.9	1245.3	1275.0
67.5°	937.4	669.9	951.4	1110.6	1170.1
70°	706.6	577.2	836.0	1007.4	1080.9
72.5°	508.9	489.7	717.1	916.5	993.4
75°	360.3	407.5	613.9	813.3	867.5
77.5°	248.4	332.3	526.4	699.6	743.3
80°	162.7	265.8	447.7	601.6	631.4
82.5°	97.9	213.4	388.3	526.4	542.2
85°	50.7	173.1	348.0	474.0	481.0
87.5°	15.7	145.2	325.3	449.5	458.2
90°	1.7	129.4	311.3	369.0	341.0
92.5°	0.0	122.4	269.3	251.9	225.6
95°	0.0	120.7	215.1	190.6	180.1
97.5°	0.0	117.2	176.6	159.2	153.9
100°	0.0	113.7	152.2	139.9	138.2
102.5°	0.0	111.9	138.2	127.7	125.9
105°	0.0	108.4	132.9	120.7	118.9
107.5°	0.0	103.2	129.4	117.2	113.7
110°	0.0	97.9	129.4	115.4	110.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	92.7	129.4	113.7	108.4
115°	0.0	89.2	127.7	113.7	108.4
117.5°	1.7	85.7	125.9	113.7	108.4
120°	0.0	82.2	122.4	113.7	106.7
122.5°	1.7	77.0	118.9	111.9	106.7
125°	1.7	71.7	113.7	110.2	104.9
127.5°	1.7	66.5	108.4	106.7	101.4
130°	1.7	61.2	103.2	104.9	99.7
132.5°	1.7	56.0	96.2	101.4	97.9
135°	1.7	50.7	90.9	99.7	96.2
137.5°	1.7	45.5	84.0	94.4	94.4
140°	1.7	40.2	77.0	90.9	92.7
142.5°	1.7	36.7	70.0	87.4	89.2
145°	1.7	31.5	63.0	80.5	85.7
147.5°	1.7	28.0	56.0	73.5	80.5
150°	1.7	24.5	49.0	66.5	73.5
152.5°	1.7	21.0	43.7	57.7	68.2
155°	3.5	19.2	38.5	50.7	61.2
157.5°	3.5	15.7	31.5	43.7	52.5
160°	3.5	14.0	28.0	36.7	47.2
162.5°	3.5	12.2	22.7	31.5	40.2
165°	3.5	10.5	19.2	24.5	33.2
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)