

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-LD5-83SL-SLC-UNV-L935-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-LD5-83SL-SLC-UNV-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

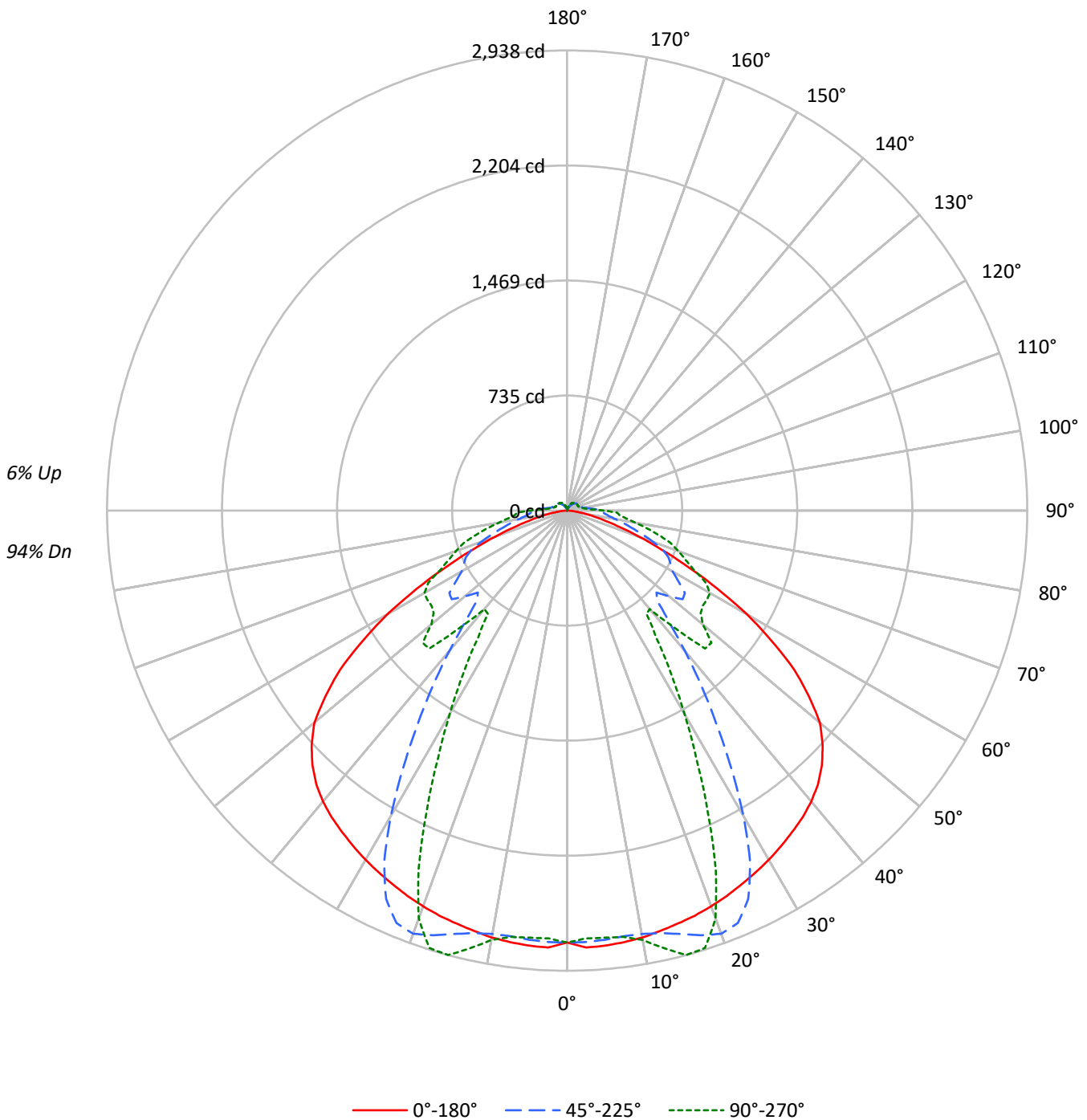
Lumens per Lamp: N/A
Luminaire Lumens: 7085.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 61
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				94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78				78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66				66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56				56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49				49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43				43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38				38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34				34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30				30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28				28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11144	11144	11144
5°	11295	10894	10750
10°	11325	10738	10712
15°	11372	10898	11165
20°	11495	11233	10480
25°	11656	10805	8070
30°	11906	9058	5740
35°	12224	6867	3887
40°	12624	4997	3291
45°	12942	3629	5174
50°	12997	4024	4910
55°	12191	4637	4849
60°	10433	4250	5154
65°	7895	4294	4715
70°	5588	3918	4388
75°	3710	3293	3938
80°	2426	2832	3278
85°	1392	2708	2943



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	3.7
10°-20°	792.4	11.2
20°-30°	1151.1	16.2
30°-40°	1099.8	15.5
40°-50°	1006.1	14.2
50°-60°	928.9	13.1
60°-70°	737.9	10.4
70°-80°	455.4	6.4
80°-90°	248.0	3.5
90°-100°	125.3	1.8
100°-110°	78.8	1.1
110°-120°	66.7	0.9
120°-130°	54.5	0.8
130°-140°	39.1	0.6
140°-150°	24.1	0.3
150°-160°	11.4	0.2
160°-170°	3.0	0.0
170°-180°	0.0	0.0
0°-30°	2205.9	31.1
0°-40°	3305.8	46.7
0°-60°	5240.8	74.0
0°-90°	6682.1	94.3
90°-120°	270.8	3.8
90°-150°	388.5	5.5
90°-180°	403.0	5.7
0°-180°	7085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2758	2758	2758	2758	2758	
5°	2789	2746	2751	2736	2737	265
15°	2730	2693	2798	2902	2938	773
25°	2634	2685	2736	2316	2127	1217
35°	2505	2465	1662	1144	995	1571
45°	2300	1604	811	1034	1245	1768
55°	1769	823	918	988	1057	1558
65°	853	534	716	869	890	863
75°	252	284	429	568	606	285
85°	35	121	243	331	336	45
90°	1	90	217	258	238	2
95°	0	84	150	133	126	0
105°	0	76	93	84	83	0
115°	0	62	89	79	76	1
125°	1	50	79	77	73	1
135°	1	35	64	70	67	1
145°	1	22	44	56	60	1
155°	2	13	27	35	43	1
165°	2	7	13	17	23	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-SLC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2758.1	2758.1	2758.1	2758.1	2758.1
2.5°	2792.3	2752.0	2756.9	2748.4	2733.7
5°	2788.6	2745.9	2750.8	2736.1	2737.4
7.5°	2778.9	2734.9	2741.0	2738.6	2744.7
10°	2767.9	2721.5	2744.7	2765.4	2783.8
12.5°	2748.4	2706.8	2763.0	2824.1	2861.9
15°	2730.0	2693.4	2798.4	2902.2	2937.6
17.5°	2711.7	2688.5	2842.4	2932.7	2927.8
20°	2688.5	2686.1	2875.3	2844.8	2770.3
22.5°	2662.9	2687.3	2849.7	2626.3	2479.7
25°	2633.6	2684.9	2736.1	2316.1	2126.9
27.5°	2604.3	2673.9	2529.8	1976.7	1789.9
30°	2575.0	2644.6	2251.4	1666.6	1496.9
32.5°	2540.8	2581.1	1948.6	1391.9	1235.6
35°	2505.4	2465.1	1661.7	1144.0	995.1
37.5°	2468.8	2297.8	1404.1	926.7	831.5
40°	2424.8	2087.8	1167.2	794.8	820.5
42.5°	2369.9	1851.0	958.4	833.9	1012.2
45°	2300.3	1604.3	810.7	1034.1	1245.4
47.5°	2212.4	1367.5	774.1	1184.3	1250.3
50°	2106.1	1150.1	851.0	1135.5	1130.6
52.5°	1945.0	969.4	929.1	1035.4	1074.4
55°	1769.2	822.9	918.2	987.7	1057.3
57.5°	1546.9	724.0	842.5	978.0	1058.6
60°	1326.0	658.1	777.7	976.8	1052.5
62.5°	1081.8	598.3	744.8	953.6	998.7
65°	853.4	533.6	715.5	869.3	890.1
67.5°	654.4	467.6	664.2	775.3	816.8
70°	493.3	402.9	583.6	703.3	754.5
72.5°	355.3	341.9	500.6	639.8	693.5
75°	251.5	284.5	428.6	567.7	605.6
77.5°	173.4	232.0	367.5	488.4	518.9
80°	113.5	185.6	312.6	420.0	440.8
82.5°	68.4	149.0	271.1	367.5	378.5
85°	35.4	120.9	243.0	330.9	335.8
87.5°	11.0	101.3	227.1	313.8	319.9
90°	1.2	90.4	217.3	257.6	238.1
92.5°	0.0	85.5	188.0	175.8	157.5
95°	0.0	84.2	150.2	133.1	125.8
97.5°	0.0	81.8	123.3	111.1	107.4
100°	0.0	79.4	106.2	97.7	96.5
102.5°	0.0	78.1	96.5	89.1	87.9
105°	0.0	75.7	92.8	84.2	83.0
107.5°	0.0	72.0	90.4	81.8	79.4
110°	0.0	68.4	90.4	80.6	76.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	64.7	90.4	79.4	75.7
115°	0.0	62.3	89.1	79.4	75.7
117.5°	1.2	59.8	87.9	79.4	75.7
120°	0.0	57.4	85.5	79.4	74.5
122.5°	1.2	53.7	83.0	78.1	74.5
125°	1.2	50.1	79.4	76.9	73.3
127.5°	1.2	46.4	75.7	74.5	70.8
130°	1.2	42.7	72.0	73.3	69.6
132.5°	1.2	39.1	67.2	70.8	68.4
135°	1.2	35.4	63.5	69.6	67.2
137.5°	1.2	31.7	58.6	65.9	65.9
140°	1.2	28.1	53.7	63.5	64.7
142.5°	1.2	25.6	48.8	61.0	62.3
145°	1.2	22.0	44.0	56.2	59.8
147.5°	1.2	19.5	39.1	51.3	56.2
150°	1.2	17.1	34.2	46.4	51.3
152.5°	1.2	14.7	30.5	40.3	47.6
155°	2.4	13.4	26.9	35.4	42.7
157.5°	2.4	11.0	22.0	30.5	36.6
160°	2.4	9.8	19.5	25.6	33.0
162.5°	2.4	8.5	15.9	22.0	28.1
165°	2.4	7.3	13.4	17.1	23.2
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)