

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-LD5-200HL-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: 8SNLED-LD5-200HL-SLN-UNV-L950-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

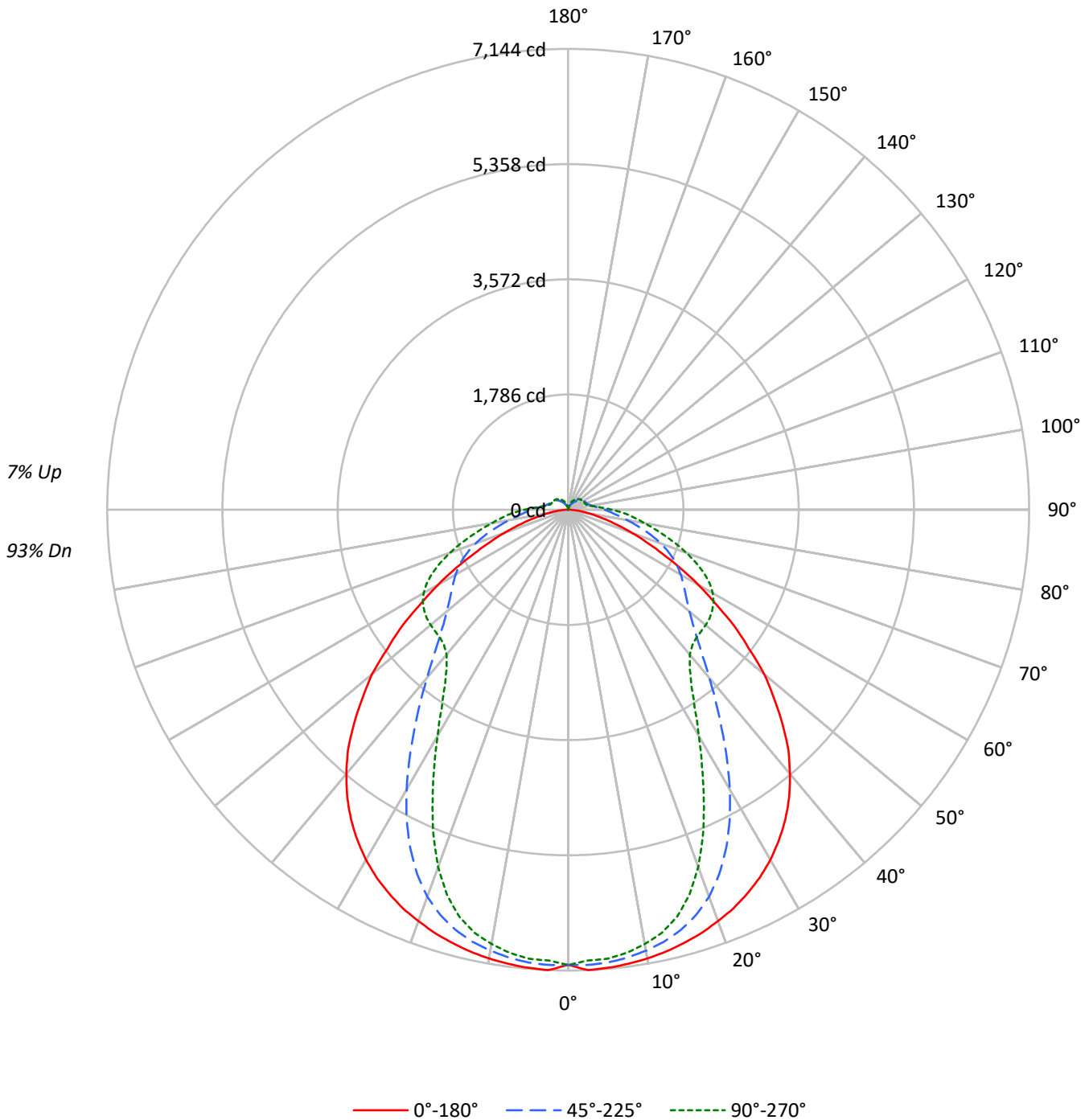
Lumens per Lamp: N/A  
Luminaire Lumens: 17743.0 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 158  
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



TEST NUMBER: P#  
CATALOG NUMBER: 8SNLED-LD5-200HL-SLN-UNV-L950-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLN-UNV-L950-CD1-U

**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°	28507	28507	28507
5°	28875	27904	27441
10°	28905	27158	26312
15°	28956	26271	24811
20°	29011	24940	22282
25°	29069	22873	18870
30°	28979	20145	15520
35°	28619	17157	13006
40°	27840	14545	11758
45°	26429	12655	11669
50°	24485	11583	12078
55°	21635	11150	12501
60°	18335	11008	12673
65°	14834	10784	12278
70°	12017	10252	11323
75°	9181	9305	10049
80°	6947	8390	8939
85°	4944	7961	8222



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLN-UNV-L950-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	667.5	3.8
10°-20°	1886.7	10.6
20°-30°	2637.4	14.9
30°-40°	2735.6	15.4
40°-50°	2527.3	14.2
50°-60°	2256.4	12.7
60°-70°	1828.6	10.3
70°-80°	1216.3	6.9
80°-90°	696.5	3.9
90°-100°	385.3	2.2
100°-110°	261.0	1.5
110°-120°	217.3	1.2
120°-130°	176.6	1.0
130°-140°	127.4	0.7
140°-150°	76.8	0.4
150°-160°	36.9	0.2
160°-170°	9.6	0.1
170°-180°	0.0	0.0
0°-30°	5191.5	29.3
0°-40°	7927.1	44.7
0°-60°	12710.8	71.6
0°-90°	16452.1	92.7
90°-120°	863.5	4.9
90°-150°	1244.4	7.0
90°-180°	1291.0	7.3
0°-180°	17743.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7055	7055	7055	7055	7055	
5°	7129	7009	7046	6997	6988	678
15°	6951	6804	6746	6592	6528	1964
25°	6568	6276	5792	5185	4973	3026
35°	5866	5222	4152	3486	3330	3660
45°	4697	3722	2827	2726	2809	3612
55°	3140	2373	2208	2566	2726	2792
65°	1604	1435	1797	2202	2318	1621
75°	622	779	1211	1484	1545	682
85°	126	362	714	914	938	145
90°	6	254	564	681	675	10
95°	6	215	448	478	463	5
105°	3	187	322	313	297	3
115°	3	169	285	282	273	3
125°	3	144	251	264	258	3
135°	6	107	199	233	233	4
145°	6	68	138	181	193	4
155°	6	43	86	113	138	3
165°	6	24	43	55	74	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7055.3	7055.3	7055.3	7055.3	7055.3
2.5°	7144.2	7027.7	7064.5	7033.9	6994.0
5°	7128.9	7009.3	7046.1	6997.1	6987.9
7.5°	7101.3	6981.7	7003.2	6944.9	6929.6
10°	7064.5	6938.8	6941.9	6859.1	6837.6
12.5°	7015.5	6877.5	6859.1	6745.6	6715.0
15°	6951.1	6803.9	6745.6	6592.3	6527.9
17.5°	6880.6	6708.8	6589.3	6353.2	6252.0
20°	6785.5	6592.3	6383.8	6025.1	5890.2
22.5°	6690.4	6451.3	6117.1	5638.7	5457.8
25°	6567.8	6276.5	5792.1	5184.9	4973.4
27.5°	6429.8	6071.1	5418.0	4718.9	4492.0
30°	6267.3	5822.7	5007.1	4262.0	4047.4
32.5°	6077.2	5543.7	4574.8	3851.1	3651.8
35°	5865.6	5221.7	4151.6	3486.3	3329.9
37.5°	5623.4	4869.1	3759.2	3191.9	3090.7
40°	5347.5	4485.9	3397.3	2965.0	2931.3
42.5°	5050.0	4111.8	3087.7	2817.8	2848.5
45°	4697.4	3722.4	2827.0	2725.9	2808.6
47.5°	4326.4	3342.2	2615.5	2673.7	2793.3
50°	3967.7	2989.5	2449.9	2640.0	2781.0
52.5°	3523.1	2673.7	2318.0	2609.3	2762.6
55°	3139.8	2373.2	2207.7	2566.4	2725.9
57.5°	2698.3	2103.4	2109.5	2511.2	2670.7
60°	2330.3	1858.1	2014.5	2434.6	2587.9
62.5°	1956.2	1637.4	1910.2	2333.4	2471.4
65°	1603.6	1435.0	1796.8	2201.5	2318.0
67.5°	1309.3	1251.0	1668.0	2042.1	2140.2
70°	1060.9	1082.4	1527.0	1864.2	1947.0
72.5°	815.6	926.0	1373.7	1674.1	1744.7
75°	622.4	778.8	1211.1	1484.0	1545.4
77.5°	459.9	650.0	1064.0	1312.3	1364.5
80°	325.0	536.6	926.0	1162.1	1202.0
82.5°	217.7	441.5	812.5	1027.2	1064.0
85°	125.7	361.8	714.4	913.7	938.3
87.5°	52.1	300.5	634.7	797.2	809.5
90°	6.1	254.5	564.2	680.7	674.6
92.5°	6.1	230.0	502.9	570.3	555.0
95°	6.1	214.6	447.7	478.3	463.0
97.5°	6.1	205.4	398.6	410.9	395.5
100°	3.1	199.3	364.9	364.9	349.5
102.5°	3.1	193.2	340.3	331.1	318.9
105°	3.1	187.0	322.0	312.8	297.4
107.5°	3.1	184.0	309.7	300.5	285.2
110°	3.1	177.8	300.5	291.3	279.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.1	174.8	294.4	288.2	272.9
115°	3.1	168.6	285.2	282.1	272.9
117.5°	3.1	162.5	279.0	279.0	269.8
120°	3.1	156.4	269.8	276.0	266.8
122.5°	3.1	150.2	260.6	269.8	260.6
125°	3.1	144.1	251.4	263.7	257.6
127.5°	6.1	134.9	239.2	257.6	251.4
130°	3.1	125.7	226.9	251.4	248.4
132.5°	6.1	116.5	214.6	242.2	242.2
135°	6.1	107.3	199.3	233.0	233.0
137.5°	6.1	95.1	184.0	220.8	223.8
140°	6.1	85.9	168.6	208.5	214.6
142.5°	6.1	76.7	153.3	196.2	205.4
145°	6.1	67.5	138.0	180.9	193.2
147.5°	6.1	61.3	122.6	162.5	180.9
150°	6.1	52.1	110.4	147.2	165.6
152.5°	6.1	46.0	98.1	131.8	153.3
155°	6.1	42.9	85.9	113.4	138.0
157.5°	6.1	36.8	73.6	98.1	122.6
160°	6.1	30.7	61.3	85.9	104.3
162.5°	6.1	27.6	52.1	70.5	92.0
165°	6.1	24.5	42.9	55.2	73.6
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)