

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-SLC-UNV-L940-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-LD5-200HL-SLC-UNV-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

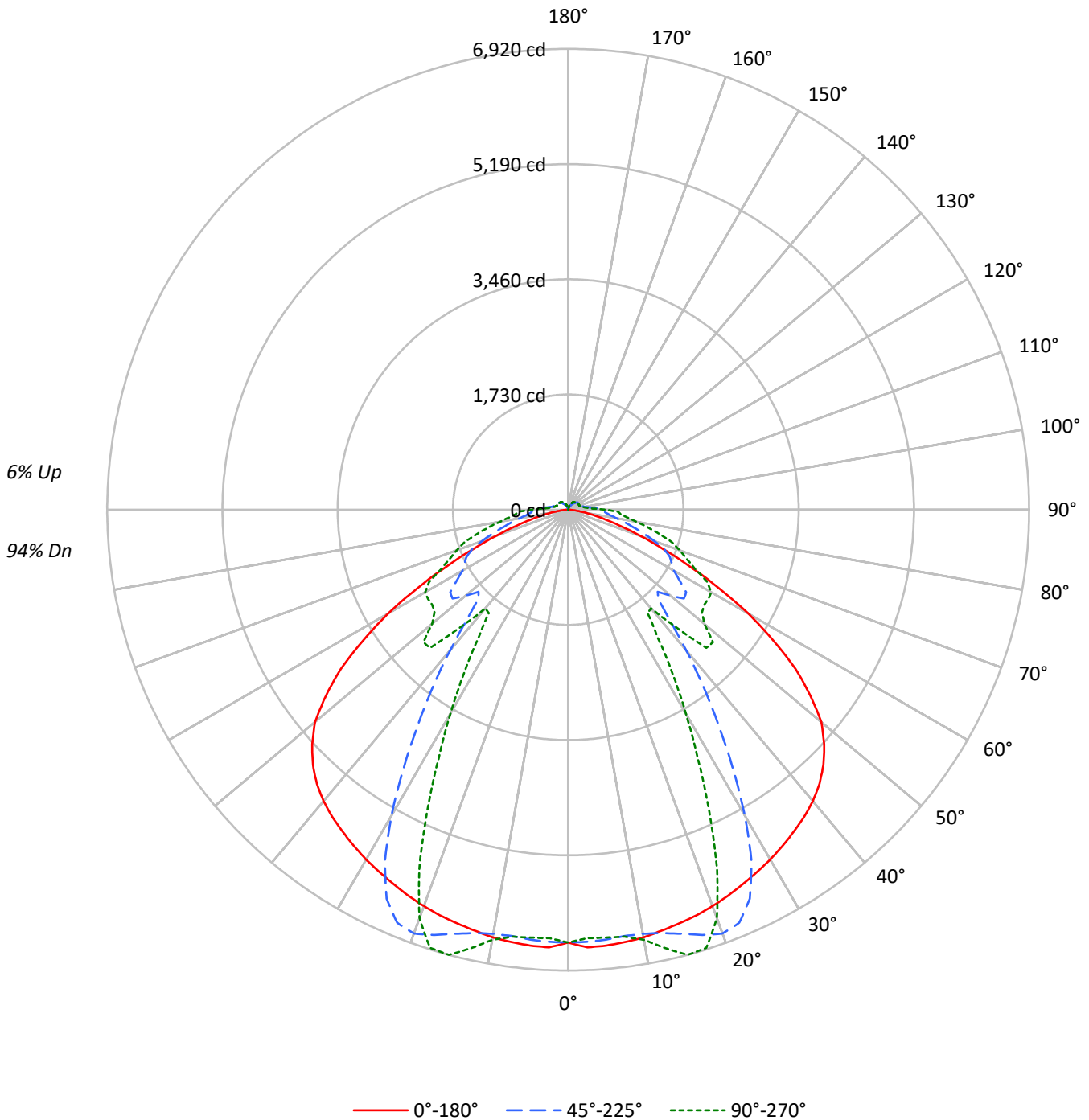
Lumens per Lamp: N/A  
Luminaire Lumens: 16691.0 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 158  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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-SLC-UNV-L940-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLC-UNV-L940-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	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°	26254	26254	26254
5°	26610	25663	25324
10°	26680	25296	25236
15°	26791	25675	26303
20°	27080	26463	24689
25°	27460	25455	19011
30°	28049	21340	13522
35°	28798	16178	9156
40°	29740	11773	7753
45°	30489	8550	12189
50°	30619	9479	11568
55°	28719	10924	11423
60°	24578	10012	12142
65°	18599	10116	11107
70°	13162	9231	10338
75°	8740	7757	9277
80°	5718	6672	7722
85°	3281	6379	6931



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLC-UNV-L940-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	618.1	3.7
10°-20°	1866.8	11.2
20°-30°	2711.9	16.2
30°-40°	2591.0	15.5
40°-50°	2370.1	14.2
50°-60°	2188.4	13.1
60°-70°	1738.3	10.4
70°-80°	1072.9	6.4
80°-90°	584.2	3.5
90°-100°	295.3	1.8
100°-110°	185.5	1.1
110°-120°	157.2	0.9
120°-130°	128.4	0.8
130°-140°	92.1	0.6
140°-150°	56.8	0.3
150°-160°	27.0	0.2
160°-170°	7.0	0.0
170°-180°	0.0	0.0
0°-30°	5196.8	31.1
0°-40°	7787.9	46.7
0°-60°	12346.4	74.0
0°-90°	15741.8	94.3
90°-120°	638.0	3.8
90°-150°	915.3	5.5
90°-180°	949.0	5.7
0°-180°	16691.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6498	6498	6498	6498	6498	
5°	6570	6469	6480	6446	6449	625
15°	6432	6345	6593	6837	6920	1820
25°	6204	6325	6446	5456	5011	2868
35°	5902	5807	3915	2695	2344	3701
45°	5419	3780	1910	2436	2934	4165
55°	4168	1939	2163	2327	2491	3671
65°	2011	1257	1686	2048	2097	2033
75°	592	670	1010	1338	1427	672
85°	83	285	572	780	791	106
90°	3	213	512	607	561	4
95°	0	198	354	314	296	0
105°	0	178	219	198	196	0
115°	0	147	210	187	178	1
125°	3	118	187	181	173	2
135°	3	83	150	164	158	2
145°	3	52	104	132	141	2
155°	6	32	63	83	101	2
165°	6	17	32	40	55	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6497.6	6497.6	6497.6	6497.6	6497.6
2.5°	6578.2	6483.3	6494.8	6474.6	6440.1
5°	6569.6	6468.9	6480.4	6445.9	6448.7
7.5°	6546.5	6443.0	6457.4	6451.6	6466.0
10°	6520.7	6411.4	6466.0	6514.9	6558.0
12.5°	6474.6	6376.8	6509.2	6653.0	6742.1
15°	6431.5	6345.2	6592.6	6837.1	6920.5
17.5°	6388.3	6333.7	6696.1	6909.0	6897.5
20°	6333.7	6327.9	6773.8	6701.9	6526.4
22.5°	6273.3	6330.8	6713.4	6187.0	5841.8
25°	6204.3	6325.1	6445.9	5456.4	5010.6
27.5°	6135.2	6299.2	5959.8	4656.8	4216.7
30°	6066.2	6230.1	5304.0	3926.2	3526.4
32.5°	5985.7	6080.6	4590.6	3279.0	2910.9
35°	5902.2	5807.3	3914.7	2695.1	2344.2
37.5°	5816.0	5413.3	3307.8	2183.1	1958.8
40°	5712.4	4918.5	2749.8	1872.5	1932.9
42.5°	5583.0	4360.5	2257.9	1964.5	2384.5
45°	5419.0	3779.5	1909.9	2436.3	2933.9
47.5°	5211.9	3221.5	1823.6	2790.0	2945.4
50°	4961.7	2709.5	2004.8	2675.0	2663.5
52.5°	4582.0	2283.8	2188.9	2439.1	2531.2
55°	4167.8	1938.7	2163.0	2327.0	2490.9
57.5°	3644.3	1705.7	1984.7	2303.9	2493.8
60°	3123.7	1550.3	1832.2	2301.1	2479.4
62.5°	2548.4	1409.4	1754.6	2246.4	2352.8
65°	2010.6	1257.0	1685.5	2048.0	2096.9
67.5°	1541.7	1101.6	1564.7	1826.5	1924.3
70°	1162.0	949.2	1374.9	1656.8	1777.6
72.5°	837.0	805.4	1179.3	1507.2	1633.8
75°	592.5	670.2	1009.6	1337.5	1426.7
77.5°	408.4	546.5	865.8	1150.5	1222.4
80°	267.5	437.2	736.3	989.5	1038.4
82.5°	161.1	350.9	638.5	865.8	891.7
85°	83.4	284.8	572.4	779.5	791.0
87.5°	25.9	238.7	535.0	739.2	753.6
90°	2.9	212.8	512.0	606.9	560.9
92.5°	0.0	201.3	443.0	414.2	371.0
95°	0.0	198.5	353.8	313.5	296.3
97.5°	0.0	192.7	290.5	261.7	253.1
100°	0.0	187.0	250.2	230.1	227.2
102.5°	0.0	184.1	227.2	210.0	207.1
105°	0.0	178.3	218.6	198.5	195.6
107.5°	0.0	169.7	212.8	192.7	187.0
110°	0.0	161.1	212.8	189.8	181.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	152.4	212.8	187.0	178.3
115°	0.0	146.7	210.0	187.0	178.3
117.5°	2.9	140.9	207.1	187.0	178.3
120°	0.0	135.2	201.3	187.0	175.5
122.5°	2.9	126.6	195.6	184.1	175.5
125°	2.9	117.9	187.0	181.2	172.6
127.5°	2.9	109.3	178.3	175.5	166.8
130°	2.9	100.7	169.7	172.6	164.0
132.5°	2.9	92.0	158.2	166.8	161.1
135°	2.9	83.4	149.6	164.0	158.2
137.5°	2.9	74.8	138.1	155.3	155.3
140°	2.9	66.2	126.6	149.6	152.4
142.5°	2.9	60.4	115.1	143.8	146.7
145°	2.9	51.8	103.5	132.3	140.9
147.5°	2.9	46.0	92.0	120.8	132.3
150°	2.9	40.3	80.5	109.3	120.8
152.5°	2.9	34.5	71.9	94.9	112.2
155°	5.8	31.6	63.3	83.4	100.7
157.5°	5.8	25.9	51.8	71.9	86.3
160°	5.8	23.0	46.0	60.4	77.7
162.5°	5.8	20.1	37.4	51.8	66.2
165°	5.8	17.3	31.6	40.3	54.7
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)