

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-L830-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-L830-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

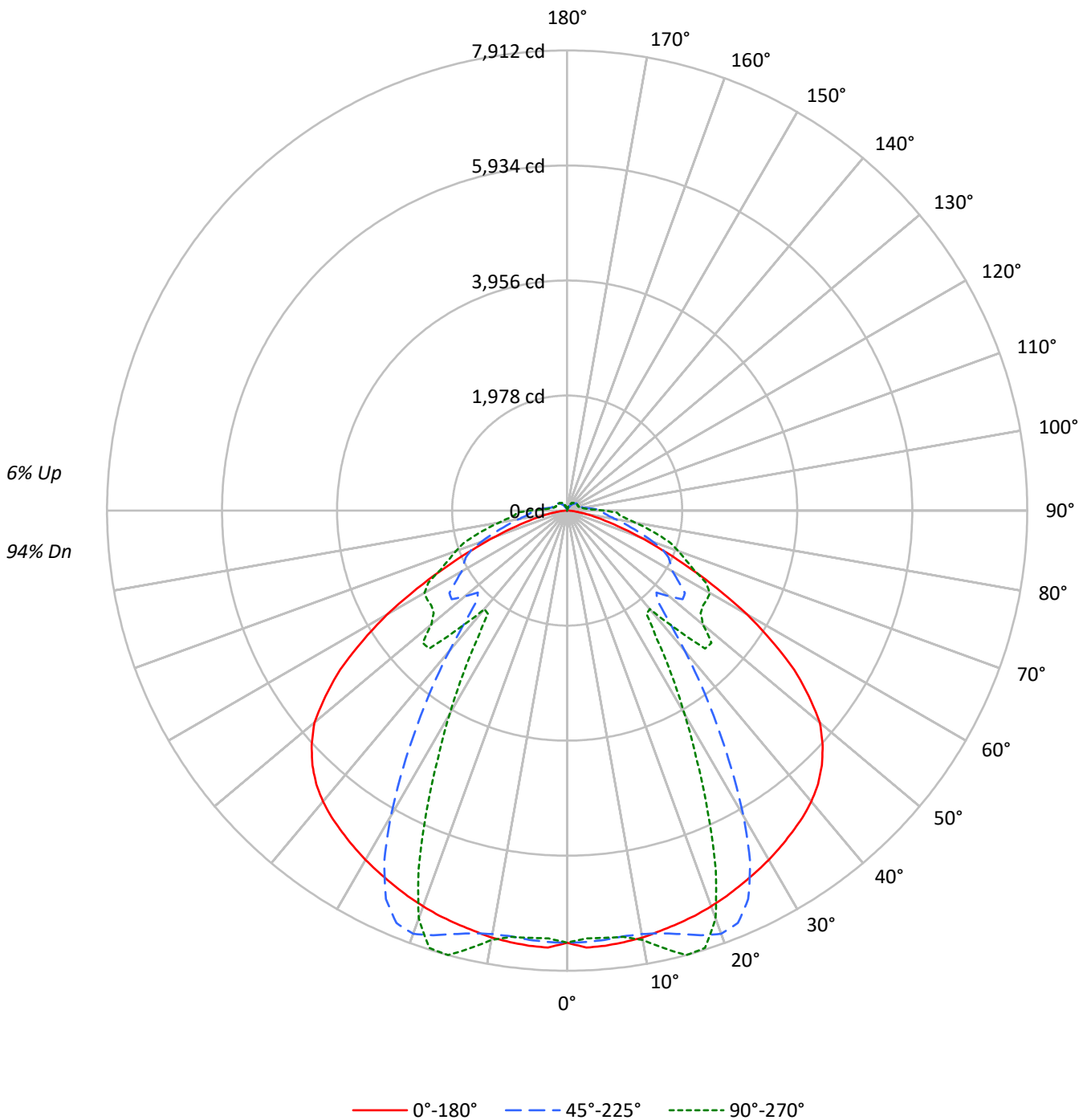
Lumens per Lamp: N/A
Luminaire Lumens: 19081.9 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 158
Input Voltage (V): NR
Input Current (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	64	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°	30015	30015	30015
5°	30421	29340	28952
10°	30501	28920	28851
15°	30629	29353	30071
20°	30959	30254	28226
25°	31393	29102	21734
30°	32067	24397	15459
35°	32923	18495	10468
40°	34000	13459	8864
45°	34856	9774	13935
50°	35004	10837	13225
55°	32833	12489	13059
60°	28098	11446	13881
65°	21264	11566	12697
70°	15048	10553	11819
75°	9992	8868	10605
80°	6536	7627	8828
85°	3753	7292	7924



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.7	3.7
10°-20°	2134.2	11.2
20°-30°	3100.3	16.2
30°-40°	2962.2	15.5
40°-50°	2709.6	14.2
50°-60°	2501.9	13.1
60°-70°	1987.3	10.4
70°-80°	1226.6	6.4
80°-90°	667.9	3.5
90°-100°	337.6	1.8
100°-110°	212.1	1.1
110°-120°	179.7	0.9
120°-130°	146.8	0.8
130°-140°	105.3	0.6
140°-150°	64.9	0.3
150°-160°	30.8	0.2
160°-170°	8.0	0.0
170°-180°	0.0	0.0
0°-30°	5941.3	31.1
0°-40°	8903.5	46.7
0°-60°	14115.0	74.0
0°-90°	17996.8	94.3
90°-120°	729.4	3.8
90°-150°	1046.4	5.5
90°-180°	1085.0	5.7
0°-180°	19081.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7428	7428	7428	7428	7428	
5°	7511	7396	7409	7369	7372	715
15°	7353	7254	7537	7816	7912	2081
25°	7093	7231	7369	6238	5728	3278
35°	6748	6639	4476	3081	2680	4231
45°	6195	4321	2184	2785	3354	4761
55°	4765	2216	2473	2660	2848	4197
65°	2299	1437	1927	2341	2397	2324
75°	677	766	1154	1529	1631	768
85°	95	326	654	891	904	122
90°	3	243	585	694	641	5
95°	0	227	404	358	339	0
105°	0	204	250	227	224	0
115°	0	168	240	214	204	2
125°	3	135	214	207	197	3
135°	3	95	171	187	181	3
145°	3	59	118	151	161	2
155°	7	36	72	95	115	2
165°	7	20	36	46	62	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7428.4	7428.4	7428.4	7428.4	7428.4
2.5°	7520.5	7412.0	7425.2	7402.1	7362.7
5°	7510.6	7395.6	7408.7	7369.2	7372.5
7.5°	7484.3	7366.0	7382.4	7375.8	7392.3
10°	7454.7	7329.8	7392.3	7448.2	7497.5
12.5°	7402.1	7290.3	7441.6	7606.0	7708.0
15°	7352.8	7254.2	7537.0	7816.5	7911.8
17.5°	7303.5	7241.0	7655.3	7898.7	7885.5
20°	7241.0	7234.4	7744.1	7661.9	7461.3
22.5°	7171.9	7237.7	7675.1	7073.3	6678.7
25°	7093.0	7231.1	7369.2	6238.0	5728.4
27.5°	7014.1	7201.5	6813.5	5323.9	4820.8
30°	6935.2	7122.6	6063.8	4488.6	4031.5
32.5°	6843.1	6951.6	5248.2	3748.7	3327.8
35°	6747.7	6639.2	4475.5	3081.2	2680.0
37.5°	6649.1	6188.7	3781.6	2495.9	2239.4
40°	6530.7	5623.1	3143.7	2140.7	2209.8
42.5°	6382.7	4985.2	2581.4	2246.0	2726.1
45°	6195.3	4320.9	2183.5	2785.3	3354.1
47.5°	5958.5	3683.0	2084.8	3189.7	3367.3
50°	5672.4	3097.6	2292.0	3058.2	3045.0
52.5°	5238.4	2611.0	2502.5	2788.5	2893.8
55°	4764.9	2216.4	2472.9	2660.3	2847.7
57.5°	4166.4	1950.0	2269.0	2634.0	2851.0
60°	3571.2	1772.4	2094.7	2630.7	2834.6
62.5°	2913.5	1611.3	2005.9	2568.2	2689.9
65°	2298.6	1437.0	1927.0	2341.3	2397.2
67.5°	1762.6	1259.4	1788.9	2088.1	2199.9
70°	1328.5	1085.2	1571.8	1894.1	2032.2
72.5°	956.9	920.7	1348.2	1723.1	1867.8
75°	677.4	766.2	1154.2	1529.1	1631.0
77.5°	466.9	624.8	989.8	1315.4	1397.6
80°	305.8	499.8	841.8	1131.2	1187.1
82.5°	184.1	401.2	730.0	989.8	1019.4
85°	95.4	325.5	654.4	891.1	904.3
87.5°	29.6	272.9	611.6	845.1	861.6
90°	3.3	243.3	585.3	693.8	641.2
92.5°	0.0	230.2	506.4	473.5	424.2
95°	0.0	226.9	404.5	358.4	338.7
97.5°	0.0	220.3	332.1	299.2	289.4
100°	0.0	213.7	286.1	263.1	259.8
102.5°	0.0	210.5	259.8	240.1	236.8
105°	0.0	203.9	249.9	226.9	223.6
107.5°	0.0	194.0	243.3	220.3	213.7
110°	0.0	184.1	243.3	217.0	207.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	174.3	243.3	213.7	203.9
115°	0.0	167.7	240.1	213.7	203.9
117.5°	3.3	161.1	236.8	213.7	203.9
120°	0.0	154.6	230.2	213.7	200.6
122.5°	3.3	144.7	223.6	210.5	200.6
125°	3.3	134.8	213.7	207.2	197.3
127.5°	3.3	125.0	203.9	200.6	190.7
130°	3.3	115.1	194.0	197.3	187.4
132.5°	3.3	105.2	180.9	190.7	184.1
135°	3.3	95.4	171.0	187.4	180.9
137.5°	3.3	85.5	157.8	177.6	177.6
140°	3.3	75.6	144.7	171.0	174.3
142.5°	3.3	69.1	131.5	164.4	167.7
145°	3.3	59.2	118.4	151.3	161.1
147.5°	3.3	52.6	105.2	138.1	151.3
150°	3.3	46.0	92.1	125.0	138.1
152.5°	3.3	39.5	82.2	108.5	128.2
155°	6.6	36.2	72.3	95.4	115.1
157.5°	6.6	29.6	59.2	82.2	98.7
160°	6.6	26.3	52.6	69.1	88.8
162.5°	6.6	23.0	42.7	59.2	75.6
165°	6.6	19.7	36.2	46.0	62.5
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)