

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

**Summary**

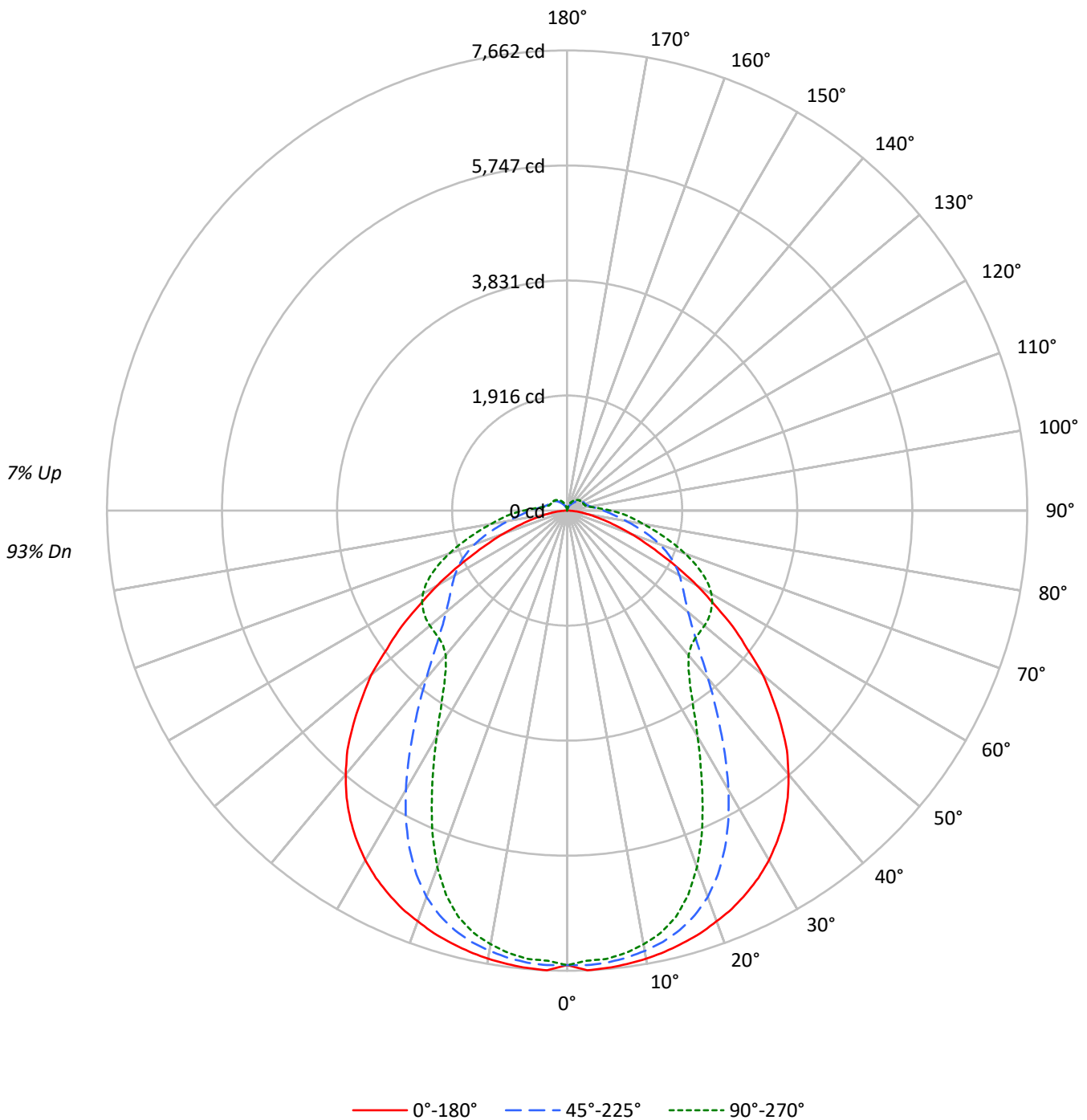
Lumens per Lamp: N/A  
Luminaire Lumens: 19029.0 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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



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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	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°	30573	30573	30573
5°	30968	29926	29430
10°	31000	29126	28219
15°	31054	28175	26609
20°	31114	26747	23897
25°	31176	24531	20237
30°	31080	21605	16645
35°	30694	18400	13949
40°	29858	15599	12610
45°	28344	13572	12515
50°	26259	12423	12954
55°	23204	11958	13407
60°	19664	11806	13591
65°	15910	11566	13168
70°	12888	10994	12144
75°	9848	9980	10777
80°	7451	8998	9587
85°	5302	8538	8818



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	715.9	3.8
10°-20°	2023.4	10.6
20°-30°	2828.5	14.9
30°-40°	2933.9	15.4
40°-50°	2710.5	14.2
50°-60°	2419.9	12.7
60°-70°	1961.1	10.3
70°-80°	1304.4	6.9
80°-90°	747.0	3.9
90°-100°	413.2	2.2
100°-110°	279.9	1.5
110°-120°	233.0	1.2
120°-130°	189.4	1.0
130°-140°	136.6	0.7
140°-150°	82.4	0.4
150°-160°	39.6	0.2
160°-170°	10.2	0.1
170°-180°	0.0	0.0
0°-30°	5567.8	29.3
0°-40°	8501.7	44.7
0°-60°	13632.0	71.6
0°-90°	17644.6	92.7
90°-120°	926.1	4.9
90°-150°	1334.6	7.0
90°-180°	1384.0	7.3
0°-180°	19029.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7567	7567	7567	7567	7567	
5°	7646	7517	7557	7504	7494	727
15°	7455	7297	7235	7070	7001	2107
25°	7044	6731	6212	5561	5334	3246
35°	6291	5600	4452	3739	3571	3925
45°	5038	3992	3032	2923	3012	3874
55°	3367	2545	2368	2752	2923	2994
65°	1720	1539	1927	2361	2486	1738
75°	668	835	1299	1592	1657	732
85°	135	388	766	980	1006	155
90°	7	273	605	730	724	10
95°	7	230	480	513	497	5
105°	3	201	345	335	319	3
115°	3	181	306	302	293	3
125°	3	155	270	283	276	4
135°	7	115	214	250	250	5
145°	7	72	148	194	207	4
155°	7	46	92	122	148	3
165°	7	26	46	59	79	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-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7566.7	7566.7	7566.7	7566.7	7566.7
2.5°	7662.1	7537.1	7576.6	7543.7	7500.9
5°	7645.6	7517.4	7556.8	7504.2	7494.3
7.5°	7616.0	7487.8	7510.8	7448.3	7431.9
10°	7576.6	7441.7	7445.0	7356.2	7333.2
12.5°	7523.9	7376.0	7356.2	7234.6	7201.7
15°	7454.9	7297.0	7234.6	7070.1	7001.1
17.5°	7379.3	7195.1	7066.8	6813.6	6705.1
20°	7277.3	7070.1	6846.5	6461.8	6317.1
22.5°	7175.4	6918.9	6560.4	6047.4	5853.4
25°	7043.8	6731.4	6211.9	5560.7	5333.8
27.5°	6895.9	6511.1	5810.7	5060.9	4817.6
30°	6721.6	6244.7	5370.0	4570.9	4340.7
32.5°	6517.7	5945.5	4906.3	4130.3	3916.5
35°	6290.8	5600.2	4452.5	3739.0	3571.2
37.5°	6031.0	5222.0	4031.6	3423.3	3314.7
40°	5735.0	4811.0	3643.6	3179.9	3143.7
42.5°	5416.1	4409.8	3311.5	3022.1	3055.0
45°	5037.9	3992.2	3031.9	2923.4	3012.2
47.5°	4640.0	3584.4	2805.0	2867.5	2995.8
50°	4255.2	3206.2	2627.5	2831.3	2982.6
52.5°	3778.4	2867.5	2486.1	2798.5	2962.9
55°	3367.4	2545.2	2367.7	2752.4	2923.4
57.5°	2893.8	2255.9	2262.4	2693.2	2864.2
60°	2499.2	1992.8	2160.5	2611.0	2775.4
62.5°	2098.0	1756.0	2048.7	2502.5	2650.5
65°	1719.9	1539.0	1927.0	2361.1	2486.1
67.5°	1404.2	1341.7	1788.9	2190.1	2295.3
70°	1137.8	1160.8	1637.6	1999.4	2088.2
72.5°	874.7	993.1	1473.2	1795.5	1871.1
75°	667.6	835.3	1298.9	1591.6	1657.4
77.5°	493.3	697.1	1141.1	1407.5	1463.4
80°	348.6	575.5	993.1	1246.3	1289.1
82.5°	233.5	473.5	871.4	1101.6	1141.1
85°	134.8	388.0	766.2	980.0	1006.3
87.5°	55.9	322.3	680.7	855.0	868.1
90°	6.6	272.9	605.1	730.0	723.5
92.5°	6.6	246.6	539.3	611.6	595.2
95°	6.6	230.2	480.1	513.0	496.6
97.5°	6.6	220.3	427.5	440.7	424.2
100°	3.3	213.7	391.3	391.3	374.9
102.5°	3.3	207.2	365.0	355.2	342.0
105°	3.3	200.6	345.3	335.4	319.0
107.5°	3.3	197.3	332.1	322.3	305.8
110°	3.3	190.7	322.3	312.4	299.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.3	187.4	315.7	309.1	292.7
115°	3.3	180.9	305.8	302.5	292.7
117.5°	3.3	174.3	299.2	299.2	289.4
120°	3.3	167.7	289.4	296.0	286.1
122.5°	3.3	161.1	279.5	289.4	279.5
125°	3.3	154.6	269.7	282.8	276.2
127.5°	6.6	144.7	256.5	276.2	269.7
130°	3.3	134.8	243.3	269.7	266.4
132.5°	6.6	125.0	230.2	259.8	259.8
135°	6.6	115.1	213.7	249.9	249.9
137.5°	6.6	101.9	197.3	236.8	240.1
140°	6.6	92.1	180.9	223.6	230.2
142.5°	6.6	82.2	164.4	210.5	220.3
145°	6.6	72.3	148.0	194.0	207.2
147.5°	6.6	65.8	131.5	174.3	194.0
150°	6.6	55.9	118.4	157.8	177.6
152.5°	6.6	49.3	105.2	141.4	164.4
155°	6.6	46.0	92.1	121.7	148.0
157.5°	6.6	39.5	78.9	105.2	131.5
160°	6.6	32.9	65.8	92.1	111.8
162.5°	6.6	29.6	55.9	75.6	98.7
165°	6.6	26.3	46.0	59.2	78.9
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)