

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-LD5-75SL-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-LD5-75SL-SLN-UNV-L830-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

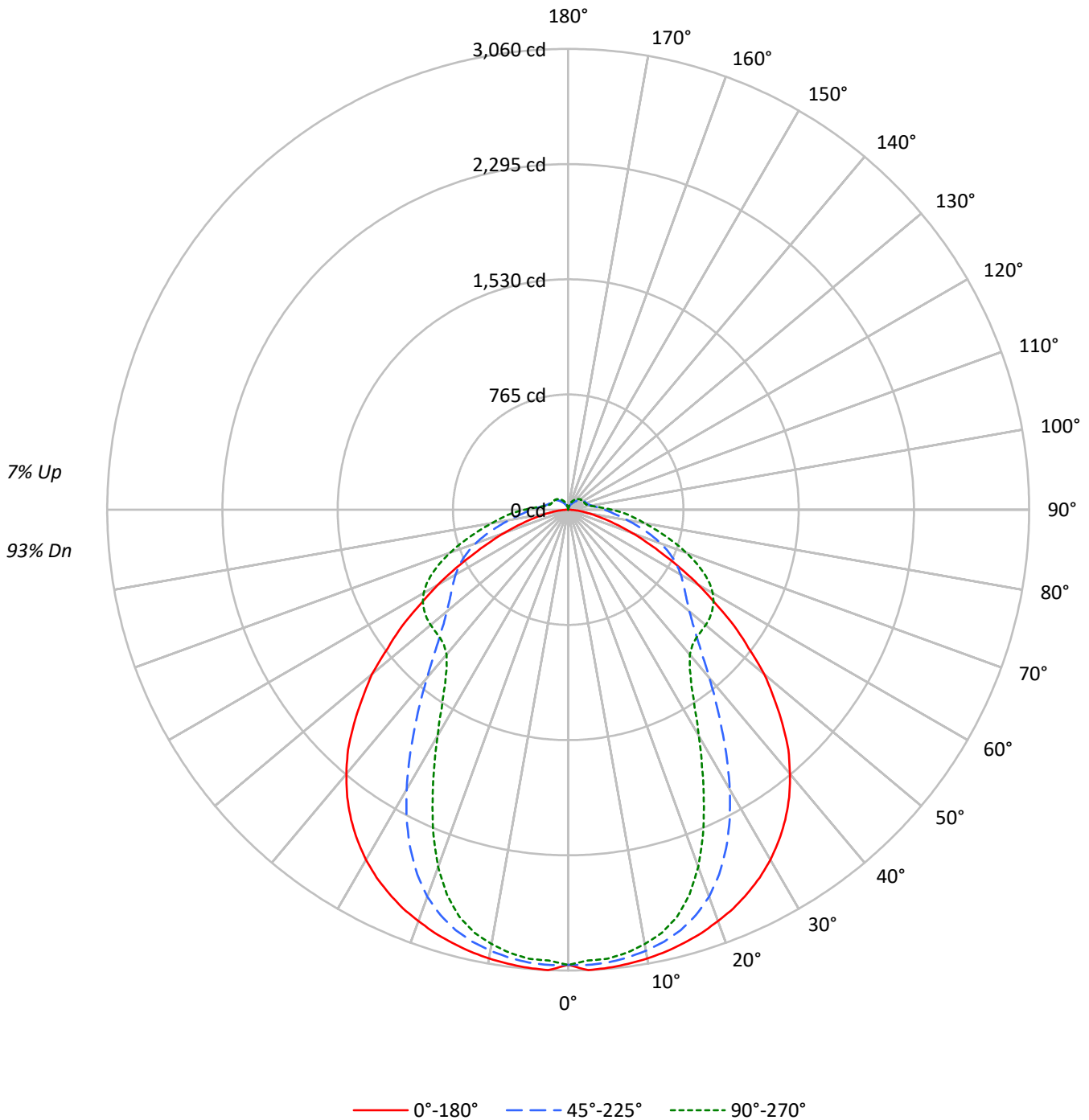
Lumens per Lamp: N/A  
Luminaire Lumens: 7600.0 lumens  
Efficiency: N/A  
Efficacy: 138.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 55  
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-LD5-75SL-SLN-UNV-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-75SL-SLN-UNV-L830-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°	12211	12211	12211
5°	12368	11952	11754
10°	12381	11633	11270
15°	12403	11253	10628
20°	12427	10682	9544
25°	12451	9798	8083
30°	12413	8629	6648
35°	12259	7349	5571
40°	11925	6230	5036
45°	11321	5421	4998
50°	10488	4962	5173
55°	9267	4776	5355
60°	7854	4715	5428
65°	6354	4619	5259
70°	5147	4391	4850
75°	3933	3986	4304
80°	2975	3594	3828
85°	2116	3410	3522



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-75SL-SLN-UNV-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.9	3.8
10°-20°	808.1	10.6
20°-30°	1129.7	14.9
30°-40°	1171.8	15.4
40°-50°	1082.5	14.2
50°-60°	966.5	12.7
60°-70°	783.3	10.3
70°-80°	521.0	6.9
80°-90°	298.3	3.9
90°-100°	165.0	2.2
100°-110°	111.8	1.5
110°-120°	93.1	1.2
120°-130°	75.6	1.0
130°-140°	54.6	0.7
140°-150°	32.9	0.4
150°-160°	15.8	0.2
160°-170°	4.1	0.1
170°-180°	0.0	0.0
0°-30°	2223.7	29.3
0°-40°	3395.5	44.7
0°-60°	5444.5	71.6
0°-90°	7047.1	92.7
90°-120°	369.9	4.9
90°-150°	533.0	7.0
90°-180°	553.0	7.3
0°-180°	7600.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3022	3022	3022	3022	3022	
5°	3054	3002	3018	2997	2993	290
15°	2977	2914	2889	2824	2796	841
25°	2813	2688	2481	2221	2130	1296
35°	2512	2237	1778	1493	1426	1568
45°	2012	1594	1211	1168	1203	1547
55°	1345	1016	946	1099	1168	1196
65°	687	615	770	943	993	694
75°	267	334	519	636	662	292
85°	54	155	306	391	402	62
90°	3	109	242	292	289	4
95°	3	92	192	205	198	2
105°	1	80	138	134	127	1
115°	1	72	122	121	117	1
125°	1	62	108	113	110	1
135°	3	46	85	100	100	2
145°	3	29	59	78	83	2
155°	3	18	37	49	59	1
165°	3	10	18	24	32	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-75SL-SLN-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3022.1	3022.1	3022.1	3022.1	3022.1
2.5°	3060.2	3010.2	3026.0	3012.9	2995.8
5°	3053.6	3002.4	3018.1	2997.1	2993.2
7.5°	3041.8	2990.5	2999.7	2974.8	2968.2
10°	3026.0	2972.2	2973.5	2938.0	2928.8
12.5°	3005.0	2945.9	2938.0	2889.4	2876.3
15°	2977.4	2914.4	2889.4	2823.7	2796.2
17.5°	2947.2	2873.7	2822.4	2721.3	2678.0
20°	2906.5	2823.7	2734.4	2580.8	2523.0
22.5°	2865.8	2763.3	2620.2	2415.3	2337.8
25°	2813.2	2688.5	2481.0	2220.9	2130.3
27.5°	2754.1	2600.5	2320.7	2021.3	1924.1
30°	2684.5	2494.1	2144.7	1825.6	1733.6
32.5°	2603.1	2374.6	1959.5	1649.6	1564.2
35°	2512.5	2236.7	1778.3	1493.3	1426.3
37.5°	2408.7	2085.6	1610.2	1367.2	1323.9
40°	2290.5	1921.5	1455.2	1270.0	1255.6
42.5°	2163.1	1761.2	1322.6	1207.0	1220.1
45°	2012.1	1594.4	1210.9	1167.6	1203.0
47.5°	1853.2	1431.6	1120.3	1145.3	1196.5
50°	1699.5	1280.5	1049.4	1130.8	1191.2
52.5°	1509.1	1145.3	992.9	1117.7	1183.3
55°	1344.9	1016.5	945.6	1099.3	1167.6
57.5°	1155.8	901.0	903.6	1075.6	1143.9
60°	998.2	795.9	862.9	1042.8	1108.5
62.5°	837.9	701.3	818.2	999.5	1058.6
65°	686.9	614.7	769.6	943.0	992.9
67.5°	560.8	535.9	714.5	874.7	916.7
70°	454.4	463.6	654.1	798.5	834.0
72.5°	349.4	396.6	588.4	717.1	747.3
75°	266.6	333.6	518.8	635.7	661.9
77.5°	197.0	278.4	455.7	562.1	584.4
80°	139.2	229.8	396.6	497.8	514.8
82.5°	93.2	189.1	348.0	440.0	455.7
85°	53.8	155.0	306.0	391.4	401.9
87.5°	22.3	128.7	271.9	341.5	346.7
90°	2.6	109.0	241.7	291.6	288.9
92.5°	2.6	98.5	215.4	244.3	237.7
95°	2.6	91.9	191.8	204.9	198.3
97.5°	2.6	88.0	170.7	176.0	169.4
100°	1.3	85.4	156.3	156.3	149.7
102.5°	1.3	82.7	145.8	141.8	136.6
105°	1.3	80.1	137.9	134.0	127.4
107.5°	1.3	78.8	132.7	128.7	122.1
110°	1.3	76.2	128.7	124.8	119.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-75SL-SLN-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	74.9	126.1	123.5	116.9
115°	1.3	72.2	122.1	120.8	116.9
117.5°	1.3	69.6	119.5	119.5	115.6
120°	1.3	67.0	115.6	118.2	114.3
122.5°	1.3	64.4	111.6	115.6	111.6
125°	1.3	61.7	107.7	112.9	110.3
127.5°	2.6	57.8	102.4	110.3	107.7
130°	1.3	53.8	97.2	107.7	106.4
132.5°	2.6	49.9	91.9	103.8	103.8
135°	2.6	46.0	85.4	99.8	99.8
137.5°	2.6	40.7	78.8	94.6	95.9
140°	2.6	36.8	72.2	89.3	91.9
142.5°	2.6	32.8	65.7	84.1	88.0
145°	2.6	28.9	59.1	77.5	82.7
147.5°	2.6	26.3	52.5	69.6	77.5
150°	2.6	22.3	47.3	63.0	70.9
152.5°	2.6	19.7	42.0	56.5	65.7
155°	2.6	18.4	36.8	48.6	59.1
157.5°	2.6	15.8	31.5	42.0	52.5
160°	2.6	13.1	26.3	36.8	44.7
162.5°	2.6	11.8	22.3	30.2	39.4
165°	2.6	10.5	18.4	23.6	31.5
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)