

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-LD5-60SL-SLN-UNV-L840-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-LD5-60SL-SLN-UNV-L840-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

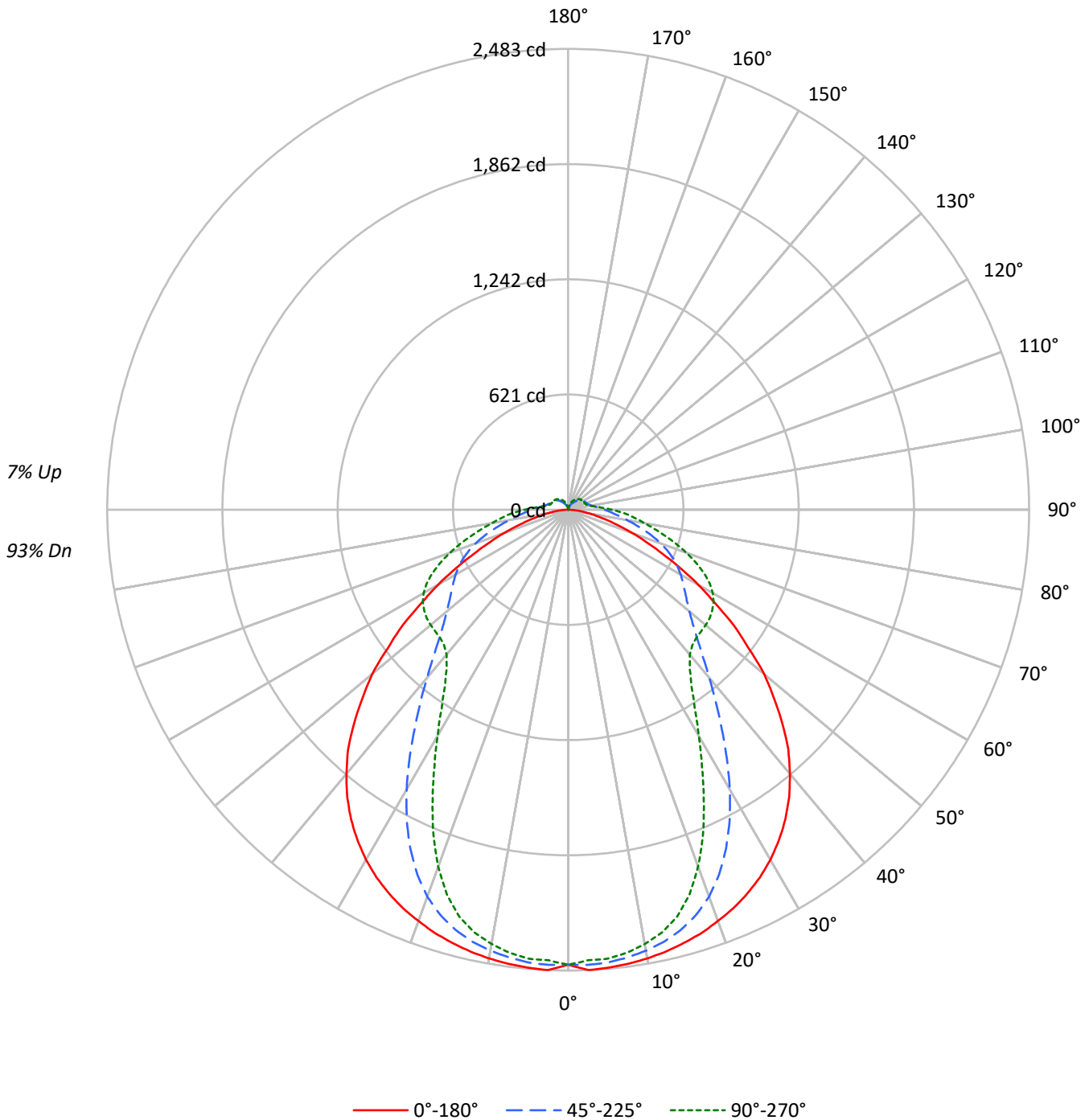
Lumens per Lamp: N/A
Luminaire Lumens: 6166.0 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 42
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-LD5-60SL-SLN-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-SLN-UNV-L840-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°	9907	9907	9907
5°	10034	9697	9536
10°	10045	9438	9144
15°	10062	9130	8622
20°	10082	8667	7743
25°	10102	7949	6557
30°	10071	7001	5393
35°	9946	5962	4520
40°	9675	5054	4086
45°	9184	4398	4055
50°	8509	4025	4198
55°	7518	3875	4344
60°	6372	3826	4404
65°	5155	3748	4267
70°	4176	3562	3935
75°	3191	3234	3492
80°	2413	2916	3106
85°	1719	2767	2858



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-SLN-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.0	3.8
10°-20°	655.6	10.6
20°-30°	916.5	14.9
30°-40°	950.7	15.4
40°-50°	878.3	14.2
50°-60°	784.1	12.7
60°-70°	635.5	10.3
70°-80°	422.7	6.9
80°-90°	242.0	3.9
90°-100°	133.9	2.2
100°-110°	90.7	1.5
110°-120°	75.5	1.2
120°-130°	61.4	1.0
130°-140°	44.3	0.7
140°-150°	26.7	0.4
150°-160°	12.8	0.2
160°-170°	3.3	0.1
170°-180°	0.0	0.0
0°-30°	1804.1	29.3
0°-40°	2754.8	44.7
0°-60°	4417.2	71.6
0°-90°	5717.4	92.7
90°-120°	300.1	4.9
90°-150°	432.5	7.0
90°-180°	449.0	7.3
0°-180°	6166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2452	2452	2452	2452	2452	
5°	2477	2436	2449	2432	2428	236
15°	2416	2364	2344	2291	2269	683
25°	2282	2181	2013	1802	1728	1052
35°	2038	1815	1443	1212	1157	1272
45°	1632	1294	982	947	976	1255
55°	1091	825	767	892	947	970
65°	557	499	624	765	806	563
75°	216	271	421	516	537	237
85°	44	126	248	318	326	50
90°	2	88	196	237	234	3
95°	2	75	156	166	161	2
105°	1	65	112	109	103	1
115°	1	59	99	98	95	1
125°	1	50	87	92	90	1
135°	2	37	69	81	81	2
145°	2	23	48	63	67	1
155°	2	15	30	39	48	1
165°	2	8	15	19	26	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-SLN-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2451.8	2451.8	2451.8	2451.8	2451.8
2.5°	2482.7	2442.3	2455.0	2444.4	2430.5
5°	2477.4	2435.9	2448.7	2431.6	2428.4
7.5°	2467.8	2426.3	2433.7	2413.5	2408.2
10°	2455.0	2411.4	2412.4	2383.7	2376.2
12.5°	2438.0	2390.0	2383.7	2344.2	2333.6
15°	2415.6	2364.5	2344.2	2290.9	2268.6
17.5°	2391.1	2331.4	2289.9	2207.8	2172.7
20°	2358.1	2290.9	2218.5	2093.8	2046.9
22.5°	2325.0	2241.9	2125.8	1959.6	1896.7
25°	2282.4	2181.2	2012.8	1801.9	1728.3
27.5°	2234.5	2109.8	1882.8	1639.9	1561.0
30°	2178.0	2023.5	1740.1	1481.1	1406.5
32.5°	2111.9	1926.5	1589.8	1338.3	1269.1
35°	2038.4	1814.6	1442.8	1211.5	1157.2
37.5°	1954.2	1692.1	1306.4	1109.2	1074.1
40°	1858.3	1558.9	1180.6	1030.4	1018.7
42.5°	1755.0	1428.9	1073.0	979.2	989.9
45°	1632.4	1293.6	982.4	947.3	976.1
47.5°	1503.5	1161.5	908.9	929.2	970.7
50°	1378.8	1038.9	851.4	917.4	966.5
52.5°	1224.3	929.2	805.6	906.8	960.1
55°	1091.1	824.7	767.2	891.9	947.3
57.5°	937.7	731.0	733.1	872.7	928.1
60°	809.8	645.7	700.1	846.1	899.3
62.5°	679.8	569.0	663.8	810.9	858.8
65°	557.3	498.7	624.4	765.1	805.6
67.5°	455.0	434.7	579.7	709.7	743.8
70°	368.7	376.1	530.6	647.9	676.6
72.5°	283.4	321.8	477.4	581.8	606.3
75°	216.3	270.7	420.9	515.7	537.0
77.5°	159.8	225.9	369.7	456.1	474.2
80°	112.9	186.5	321.8	403.8	417.7
82.5°	75.7	153.4	282.4	357.0	369.7
85°	43.7	125.7	248.3	317.5	326.1
87.5°	18.1	104.4	220.6	277.0	281.3
90°	2.1	88.4	196.1	236.6	234.4
92.5°	2.1	79.9	174.8	198.2	192.9
95°	2.1	74.6	155.6	166.2	160.9
97.5°	2.1	71.4	138.5	142.8	137.5
100°	1.1	69.3	126.8	126.8	121.5
102.5°	1.1	67.1	118.3	115.1	110.8
105°	1.1	65.0	111.9	108.7	103.4
107.5°	1.1	63.9	107.6	104.4	99.1
110°	1.1	61.8	104.4	101.2	97.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-60SL-SLN-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	60.7	102.3	100.2	94.8
115°	1.1	58.6	99.1	98.0	94.8
117.5°	1.1	56.5	97.0	97.0	93.8
120°	1.1	54.3	93.8	95.9	92.7
122.5°	1.1	52.2	90.6	93.8	90.6
125°	1.1	50.1	87.4	91.6	89.5
127.5°	2.1	46.9	83.1	89.5	87.4
130°	1.1	43.7	78.9	87.4	86.3
132.5°	2.1	40.5	74.6	84.2	84.2
135°	2.1	37.3	69.3	81.0	81.0
137.5°	2.1	33.0	63.9	76.7	77.8
140°	2.1	29.8	58.6	72.5	74.6
142.5°	2.1	26.6	53.3	68.2	71.4
145°	2.1	23.4	48.0	62.9	67.1
147.5°	2.1	21.3	42.6	56.5	62.9
150°	2.1	18.1	38.4	51.1	57.5
152.5°	2.1	16.0	34.1	45.8	53.3
155°	2.1	14.9	29.8	39.4	48.0
157.5°	2.1	12.8	25.6	34.1	42.6
160°	2.1	10.7	21.3	29.8	36.2
162.5°	2.1	9.6	18.1	24.5	32.0
165°	2.1	8.5	14.9	19.2	25.6
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)