

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-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-LD5-75SL-SLN-UNV-L840-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

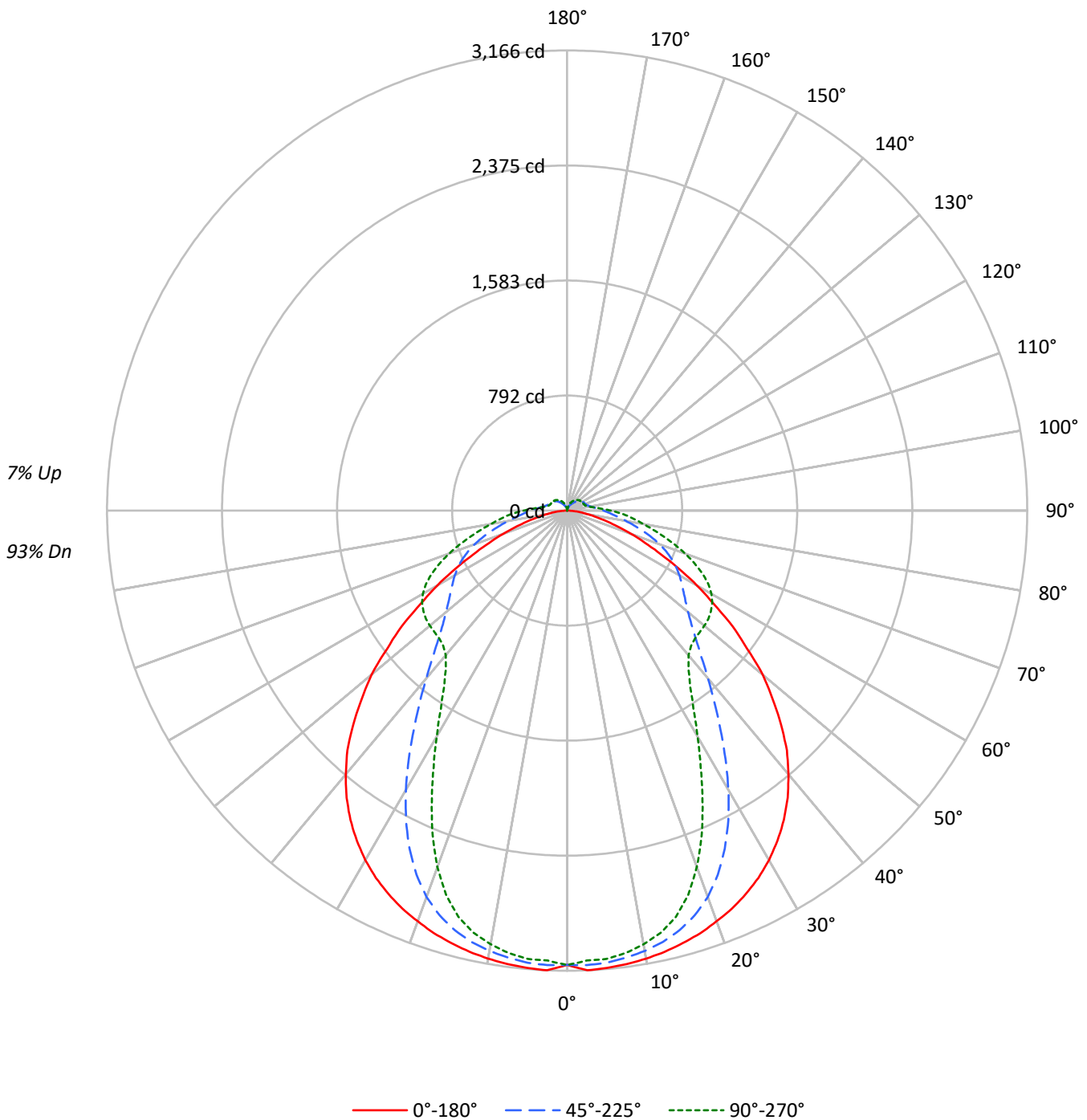
Lumens per Lamp: N/A
Luminaire Lumens: 7862.0 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



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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°	12631	12631	12631
5°	12795	12364	12159
10°	12808	12034	11659
15°	12830	11641	10994
20°	12855	11051	9874
25°	12880	10135	8361
30°	12841	8927	6877
35°	12681	7602	5763
40°	12336	6445	5210
45°	11710	5608	5170
50°	10849	5133	5352
55°	9587	4940	5539
60°	8125	4877	5615
65°	6574	4779	5440
70°	5325	4543	5017
75°	4068	4124	4453
80°	3078	3718	3961
85°	2191	3528	3643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.8	3.8
10°-20°	836.0	10.6
20°-30°	1168.6	14.9
30°-40°	1212.2	15.4
40°-50°	1119.8	14.2
50°-60°	999.8	12.7
60°-70°	810.3	10.3
70°-80°	538.9	6.9
80°-90°	308.6	3.9
90°-100°	170.7	2.2
100°-110°	115.6	1.5
110°-120°	96.3	1.2
120°-130°	78.3	1.0
130°-140°	56.4	0.7
140°-150°	34.0	0.4
150°-160°	16.4	0.2
160°-170°	4.2	0.1
170°-180°	0.0	0.0
0°-30°	2300.4	29.3
0°-40°	3512.6	44.7
0°-60°	5632.2	71.6
0°-90°	7290.0	92.7
90°-120°	382.6	4.9
90°-150°	551.4	7.0
90°-180°	572.0	7.3
0°-180°	7862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3126	3126	3126	3126	3126	
5°	3159	3106	3122	3100	3096	300
15°	3080	3015	2989	2921	2893	870
25°	2910	2781	2566	2298	2204	1341
35°	2599	2314	1840	1545	1476	1622
45°	2081	1649	1253	1208	1244	1600
55°	1391	1052	978	1137	1208	1237
65°	711	636	796	976	1027	718
75°	276	345	537	658	685	302
85°	56	160	317	405	416	64
90°	3	113	250	302	299	4
95°	3	95	198	212	205	2
105°	1	83	143	139	132	1
115°	1	75	126	125	121	1
125°	1	64	111	117	114	2
135°	3	48	88	103	103	2
145°	3	30	61	80	86	2
155°	3	19	38	50	61	1
165°	3	11	19	24	33	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-75SL-SLN-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3126.2	3126.2	3126.2	3126.2	3126.2
2.5°	3165.6	3114.0	3130.3	3116.7	3099.1
5°	3158.9	3105.9	3122.2	3100.4	3096.4
7.5°	3146.6	3093.6	3103.1	3077.3	3070.5
10°	3130.3	3074.6	3076.0	3039.3	3029.8
12.5°	3108.6	3047.4	3039.3	2989.0	2975.4
15°	3080.1	3014.8	2989.0	2921.1	2892.6
17.5°	3048.8	2972.7	2919.7	2815.1	2770.3
20°	3006.7	2921.1	2828.7	2669.7	2610.0
22.5°	2964.6	2858.6	2710.5	2498.6	2418.4
25°	2910.2	2781.1	2566.5	2297.5	2203.7
27.5°	2849.1	2690.1	2400.7	2091.0	1990.4
30°	2777.1	2580.1	2218.7	1888.5	1793.4
32.5°	2692.8	2456.4	2027.1	1706.5	1618.1
35°	2599.1	2313.8	1839.6	1544.8	1475.5
37.5°	2491.8	2157.5	1665.7	1414.4	1369.5
40°	2369.5	1987.7	1505.4	1313.8	1298.9
42.5°	2237.7	1821.9	1368.2	1248.6	1262.2
45°	2081.4	1649.4	1252.7	1207.8	1244.5
47.5°	1917.1	1480.9	1158.9	1184.7	1237.7
50°	1758.1	1324.7	1085.6	1169.8	1232.3
52.5°	1561.1	1184.7	1027.1	1156.2	1224.1
55°	1391.3	1051.6	978.2	1137.2	1207.8
57.5°	1195.6	932.0	934.7	1112.7	1183.4
60°	1032.6	823.3	892.6	1078.8	1146.7
62.5°	866.8	725.5	846.4	1033.9	1095.1
65°	710.6	635.8	796.2	975.5	1027.1
67.5°	580.1	554.3	739.1	904.9	948.3
70°	470.1	479.6	676.6	826.1	862.7
72.5°	361.4	410.3	608.7	741.8	773.1
75°	275.8	345.1	536.7	657.6	684.8
77.5°	203.8	288.0	471.5	581.5	604.6
80°	144.0	237.8	410.3	514.9	532.6
82.5°	96.5	195.6	360.0	455.1	471.5
85°	55.7	160.3	316.6	404.9	415.7
87.5°	23.1	133.1	281.2	353.2	358.7
90°	2.7	112.8	250.0	301.6	298.9
92.5°	2.7	101.9	222.8	252.7	245.9
95°	2.7	95.1	198.4	211.9	205.2
97.5°	2.7	91.0	176.6	182.1	175.3
100°	1.4	88.3	161.7	161.7	154.9
102.5°	1.4	85.6	150.8	146.7	141.3
105°	1.4	82.9	142.7	138.6	131.8
107.5°	1.4	81.5	137.2	133.1	126.4
110°	1.4	78.8	133.1	129.1	123.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	77.4	130.4	127.7	120.9
115°	1.4	74.7	126.4	125.0	120.9
117.5°	1.4	72.0	123.6	123.6	119.6
120°	1.4	69.3	119.6	122.3	118.2
122.5°	1.4	66.6	115.5	119.6	115.5
125°	1.4	63.9	111.4	116.8	114.1
127.5°	2.7	59.8	106.0	114.1	111.4
130°	1.4	55.7	100.5	111.4	110.1
132.5°	2.7	51.6	95.1	107.3	107.3
135°	2.7	47.6	88.3	103.3	103.3
137.5°	2.7	42.1	81.5	97.8	99.2
140°	2.7	38.0	74.7	92.4	95.1
142.5°	2.7	34.0	67.9	87.0	91.0
145°	2.7	29.9	61.1	80.2	85.6
147.5°	2.7	27.2	54.3	72.0	80.2
150°	2.7	23.1	48.9	65.2	73.4
152.5°	2.7	20.4	43.5	58.4	67.9
155°	2.7	19.0	38.0	50.3	61.1
157.5°	2.7	16.3	32.6	43.5	54.3
160°	2.7	13.6	27.2	38.0	46.2
162.5°	2.7	12.2	23.1	31.2	40.8
165°	2.7	10.9	19.0	24.5	32.6
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)