

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: **4SRL-LD5-49SL-LN-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 (P35658)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SRL-LD5-49SL-LN-UNV-L840-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

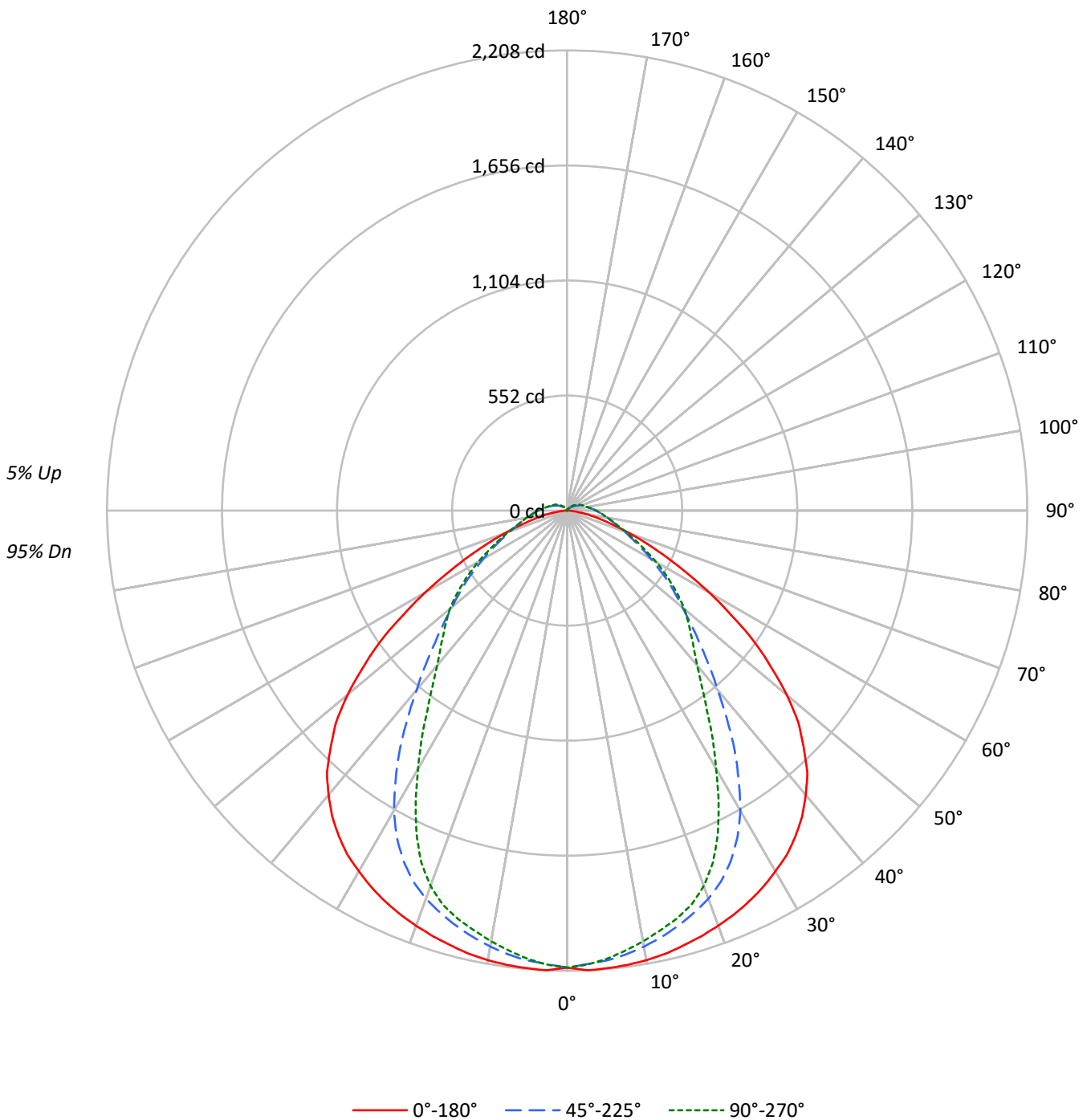
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5013.0 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.04 / 1.14
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 3.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 36.7
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	50	30	10	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	103	103	103	97	97	97	95				
1	108	104	100	96	105	101	97	94	96	93	90	91	89	86	87	85	83	80				
2	99	92	85	80	96	89	83	79	85	80	76	81	77	74	77	74	71	69				
3	91	82	74	68	88	80	73	67	76	70	65	73	68	63	69	65	62	59				
4	84	73	65	59	82	71	64	58	68	62	57	65	60	55	63	58	54	52				
5	78	66	58	51	76	65	57	51	62	55	50	59	54	49	57	52	48	46				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	44	52	47	43	41				
7	67	55	46	41	65	54	46	40	52	45	40	50	44	39	48	43	38	37				
8	63	50	42	37	61	49	42	36	48	41	36	46	40	35	44	39	35	33				
9	59	46	38	33	57	45	38	33	44	37	33	43	37	32	41	36	32	30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25746	25746	25746
5°	25883	24471	24056
10°	25910	23259	22393
15°	25941	22084	20916
20°	26054	20932	19273
25°	26240	19481	16905
30°	26403	17463	14001
35°	26521	14844	11418
40°	26302	12107	9522
45°	25488	9916	8369
50°	23836	8231	7473
55°	21054	7027	6418
60°	17147	5829	5362
65°	13172	4881	4391
70°	9623	4180	3637
75°	6726	3695	3093
80°	4516	3425	2762
85°	2616	3263	2574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.6	4.1
10°-20°	586.7	11.7
20°-30°	857.2	17.1
30°-40°	915.5	18.3
40°-50°	806.8	16.1
50°-60°	612.6	12.2
60°-70°	390.6	7.8
70°-80°	233.0	4.6
80°-90°	146.4	2.9
90°-100°	96.9	1.9
100°-110°	65.8	1.3
110°-120°	44.3	0.9
120°-130°	27.4	0.5
130°-140°	14.5	0.3
140°-150°	6.3	0.1
150°-160°	2.0	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	1650.5	32.9
0°-40°	2566.0	51.2
0°-60°	3985.5	79.5
0°-90°	4755.4	94.9
90°-120°	207.0	4.1
90°-150°	255.1	5.1
90°-180°	258.0	5.1
0°-180°	5013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2193	2193	2193	2193	2193	
5°	2205	2188	2168	2174	2160	210
15°	2160	2120	2062	2048	2028	611
25°	2068	1976	1857	1767	1710	954
35°	1909	1702	1401	1225	1168	1193
45°	1605	1208	898	845	840	1234
55°	1095	685	590	611	612	969
65°	520	352	365	387	384	525
75°	173	179	234	245	238	193
85°	30	97	164	172	165	36
90°	1	73	138	145	138	2
95°	0	56	116	122	116	0
105°	0	35	81	88	85	0
115°	0	22	56	66	66	0
125°	1	14	37	47	46	1
135°	1	8	23	28	27	1
145°	1	3	12	15	14	1
155°	1	2	4	6	4	1
165°	1	2	2	0	0	0
175°	2	2	2	0	0	0
180°	1	1	1	1	1	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2192.6	2192.6	2192.6	2192.6	2192.6
2.5°	2207.9	2194.8	2178.4	2189.3	2180.6
5°	2204.6	2188.2	2167.5	2174.0	2159.9
7.5°	2199.1	2178.4	2149.0	2146.8	2130.4
10°	2190.4	2163.1	2123.9	2116.2	2098.8
12.5°	2178.4	2144.6	2095.5	2083.5	2062.8
15°	2159.9	2119.5	2061.7	2047.5	2027.9
17.5°	2141.3	2091.1	2023.5	2006.1	1983.1
20°	2119.5	2058.4	1982.1	1945.0	1916.6
22.5°	2096.6	2021.3	1927.5	1865.3	1828.2
25°	2068.2	1975.5	1856.6	1767.2	1710.4
27.5°	2036.6	1927.5	1769.3	1640.6	1573.0
30°	1998.4	1863.2	1662.4	1501.0	1430.1
32.5°	1960.2	1793.3	1531.5	1363.5	1299.2
35°	1909.0	1701.7	1400.6	1225.0	1168.3
37.5°	1851.2	1599.2	1257.7	1101.7	1060.3
40°	1781.3	1479.2	1123.6	999.2	968.7
42.5°	1706.1	1347.2	1006.8	916.3	899.9
45°	1604.6	1207.6	897.8	845.4	839.9
47.5°	1504.3	1067.9	805.0	783.2	786.5
50°	1375.5	929.4	721.0	728.7	734.1
52.5°	1233.7	801.8	652.3	668.7	673.0
55°	1095.2	685.0	590.1	610.9	612.0
57.5°	933.8	582.5	522.5	554.1	550.9
60°	787.6	492.0	464.7	489.8	492.0
62.5°	643.6	417.8	413.4	435.2	434.2
65°	520.3	352.3	365.4	387.2	384.0
67.5°	413.4	294.5	325.1	343.6	336.0
70°	315.3	249.8	290.2	304.3	300.0
72.5°	236.7	211.6	259.6	272.7	265.1
75°	173.4	178.9	234.5	245.4	237.8
77.5°	124.4	153.8	214.9	221.4	216.0
80°	84.0	130.9	195.3	204.0	195.3
82.5°	53.5	112.4	178.9	186.5	178.9
85°	29.5	97.1	163.6	172.4	164.7
87.5°	13.1	84.0	150.5	158.2	151.6
90°	1.1	73.1	138.5	145.1	138.5
92.5°	0.0	63.3	126.5	134.2	127.6
95°	0.0	55.6	115.6	122.2	115.6
97.5°	0.0	49.1	105.8	112.4	106.9
100°	0.0	43.6	97.1	103.6	98.2
102.5°	0.0	38.2	88.4	96.0	91.6
105°	0.0	34.9	80.7	88.4	85.1
107.5°	0.0	30.5	74.2	82.9	80.7
110°	0.0	27.3	67.6	77.4	75.3



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	25.1	61.1	72.0	69.8
115°	0.0	21.8	55.6	66.5	65.5
117.5°	0.0	19.6	51.3	61.1	61.1
120°	1.1	17.5	46.9	56.7	55.6
122.5°	1.1	15.3	41.5	51.3	50.2
125°	1.1	14.2	37.1	46.9	45.8
127.5°	1.1	12.0	33.8	41.5	40.4
130°	1.1	10.9	29.5	37.1	36.0
132.5°	1.1	8.7	26.2	32.7	31.6
135°	1.1	7.6	22.9	28.4	27.3
137.5°	1.1	6.5	19.6	25.1	24.0
140°	1.1	5.5	17.5	21.8	20.7
142.5°	1.1	4.4	14.2	18.5	17.5
145°	1.1	3.3	12.0	15.3	14.2
147.5°	1.1	2.2	9.8	13.1	12.0
150°	1.1	2.2	7.6	10.9	9.8
152.5°	1.1	2.2	6.5	8.7	6.5
155°	1.1	2.2	4.4	6.5	4.4
157.5°	1.1	2.2	3.3	4.4	3.3
160°	1.1	2.2	3.3	3.3	1.1
162.5°	1.1	2.2	2.2	1.1	0.0
165°	1.1	2.2	2.2	0.0	0.0
167.5°	1.1	2.2	2.2	0.0	0.0
170°	1.1	2.2	2.2	0.0	0.0
172.5°	1.1	2.2	2.2	0.0	0.0
175°	2.2	2.2	2.2	0.0	0.0
177.5°	1.1	2.2	1.1	0.0	0.0
180°	1.1	1.1	1.1	1.1	1.1

(END OF REPORT)