

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: **8SRL-LD5-74SL-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: 8SRL-LD5-74SL-LN-UNV-L840-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

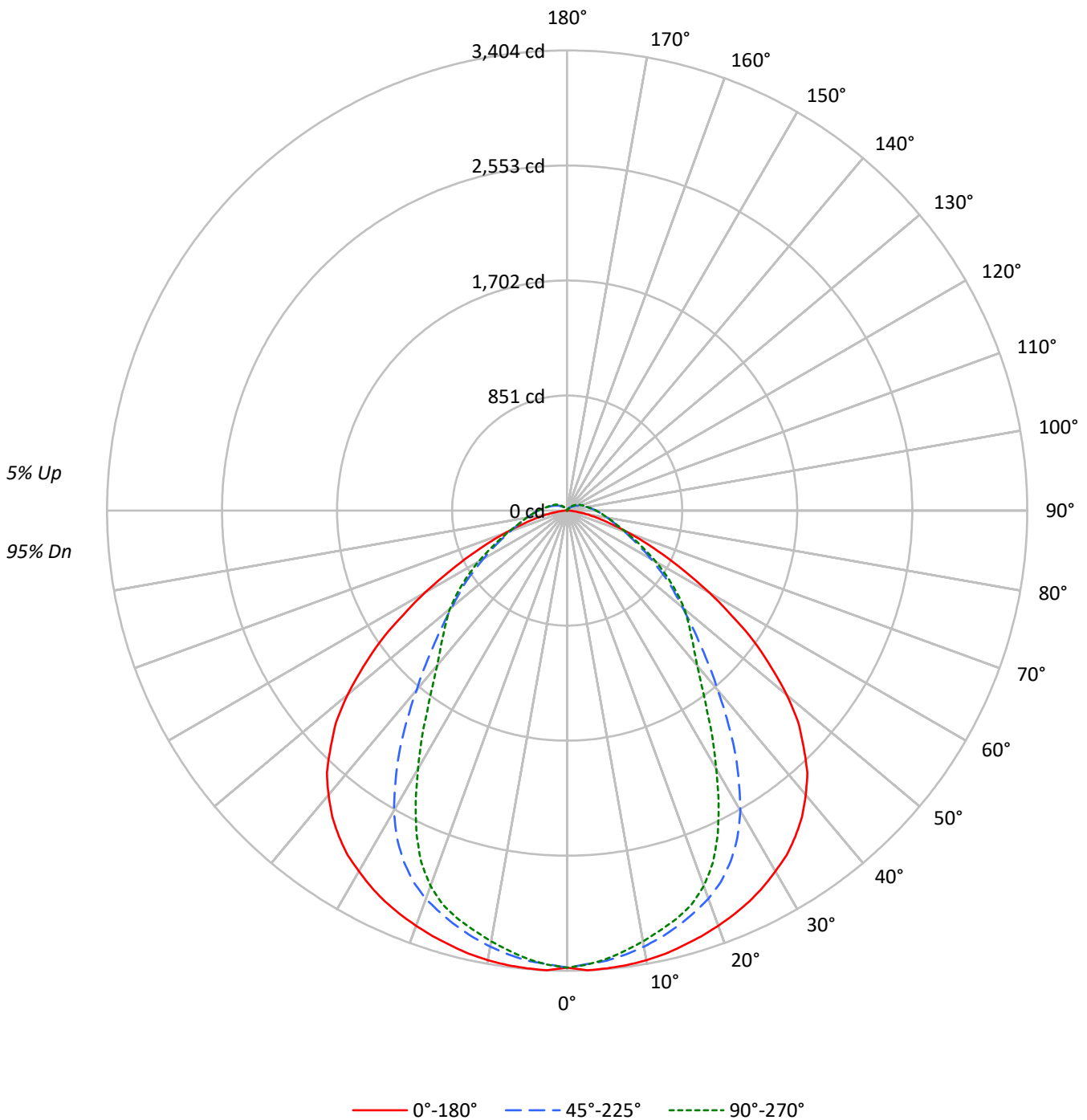
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7729.0 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.04 / 1.14
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 7.33' x H: 0.17')
CIE Type: Direct

Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (A_{in}): 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: 8SRL-LD5-74SL-LN-UNV-L840-CD1-U

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	
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°	19848	19848	19848
5°	19993	18890	18545
10°	20053	17977	17262
15°	20119	17089	16124
20°	20250	16216	14858
25°	20441	15109	13032
30°	20618	13560	10794
35°	20765	11539	8802
40°	20656	9423	7340
45°	20086	7727	6452
50°	18861	6423	5761
55°	16741	5491	4947
60°	13719	4562	4134
65°	10627	3827	3385
70°	7854	3283	2804
75°	5592	2909	2384
80°	3879	2704	2129
85°	2428	2586	1985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.5	4.1
10°-20°	904.6	11.7
20°-30°	1321.6	17.1
30°-40°	1411.6	18.3
40°-50°	1244.0	16.1
50°-60°	944.6	12.2
60°-70°	602.2	7.8
70°-80°	359.2	4.6
80°-90°	225.6	2.9
90°-100°	149.3	1.9
100°-110°	101.5	1.3
110°-120°	68.3	0.9
120°-130°	42.2	0.5
130°-140°	22.3	0.3
140°-150°	9.6	0.1
150°-160°	3.1	0.0
160°-170°	0.7	0.0
170°-180°	0.2	0.0
0°-30°	2544.7	32.9
0°-40°	3956.3	51.2
0°-60°	6144.8	79.5
0°-90°	7331.9	94.9
90°-120°	319.1	4.1
90°-150°	393.3	5.1
90°-180°	397.0	5.1
0°-180°	7729.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3380	3380	3380	3380	3380	
5°	3399	3374	3342	3352	3330	324
15°	3330	3268	3179	3157	3127	942
25°	3189	3046	2862	2725	2637	1471
35°	2943	2624	2160	1889	1801	1839
45°	2474	1862	1384	1303	1295	1902
55°	1689	1056	910	942	944	1494
65°	802	543	563	597	592	810
75°	267	276	362	378	367	298
85°	45	150	252	266	254	55
90°	2	113	214	224	214	3
95°	0	86	178	188	178	0
105°	0	54	124	136	131	0
115°	0	34	86	103	101	0
125°	2	22	57	72	71	2
135°	2	12	35	44	42	1
145°	2	5	18	24	22	1
155°	2	3	7	10	7	1
165°	2	3	3	0	0	0
175°	3	3	3	0	0	0
180°	2	2	2	2	2	



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-74SL-LN-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3380.5	3380.5	3380.5	3380.5	3380.5
2.5°	3404.1	3383.9	3358.6	3375.5	3362.0
5°	3399.0	3373.8	3341.8	3351.9	3330.1
7.5°	3390.6	3358.6	3313.2	3309.9	3284.6
10°	3377.1	3335.1	3274.6	3262.8	3235.9
12.5°	3358.6	3306.5	3230.8	3212.3	3180.4
15°	3330.1	3267.8	3178.7	3156.8	3126.6
17.5°	3301.5	3224.1	3119.8	3092.9	3057.6
20°	3267.8	3173.6	3055.9	2998.7	2955.0
22.5°	3232.5	3116.5	2971.8	2876.0	2818.8
25°	3188.8	3045.8	2862.5	2724.6	2637.1
27.5°	3140.0	2971.8	2728.0	2529.5	2425.2
30°	3081.1	2872.6	2563.1	2314.2	2204.9
32.5°	3022.3	2765.0	2361.3	2102.3	2003.1
35°	2943.2	2623.7	2159.5	1888.7	1801.3
37.5°	2854.1	2465.6	1939.2	1698.7	1634.8
40°	2746.5	2280.6	1732.3	1540.6	1493.5
42.5°	2630.4	2077.1	1552.3	1412.8	1387.5
45°	2474.0	1861.8	1384.2	1303.4	1295.0
47.5°	2319.3	1646.5	1241.2	1207.6	1212.6
50°	2120.8	1432.9	1111.7	1123.5	1131.9
52.5°	1902.2	1236.2	1005.7	1031.0	1037.7
55°	1688.6	1056.2	909.9	941.8	943.5
57.5°	1439.7	898.1	805.6	854.4	849.3
60°	1214.3	758.5	716.5	755.1	758.5
62.5°	992.3	644.1	637.4	671.1	669.4
65°	802.2	543.2	563.4	597.1	592.0
67.5°	637.4	454.1	501.2	529.8	518.0
70°	486.1	385.1	447.4	469.2	462.5
72.5°	365.0	326.3	400.3	420.5	408.7
75°	267.4	275.8	361.6	378.4	366.6
77.5°	191.7	237.1	331.3	341.4	333.0
80°	129.5	201.8	301.1	314.5	301.1
82.5°	82.4	173.2	275.8	287.6	275.8
85°	45.4	149.7	252.3	265.7	254.0
87.5°	20.2	129.5	232.1	243.9	233.8
90°	1.7	112.7	213.6	223.7	213.6
92.5°	0.0	97.5	195.1	206.9	196.8
95°	0.0	85.8	178.3	188.4	178.3
97.5°	0.0	75.7	163.1	173.2	164.8
100°	0.0	67.3	149.7	159.8	151.4
102.5°	0.0	58.9	136.2	148.0	141.3
105°	0.0	53.8	124.5	136.2	131.2
107.5°	0.0	47.1	114.4	127.8	124.5
110°	0.0	42.0	104.3	119.4	116.0



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-74SL-LN-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	38.7	94.2	111.0	107.6
115°	0.0	33.6	85.8	102.6	100.9
117.5°	0.0	30.3	79.0	94.2	94.2
120°	1.7	26.9	72.3	87.5	85.8
122.5°	1.7	23.5	63.9	79.0	77.4
125°	1.7	21.9	57.2	72.3	70.6
127.5°	1.7	18.5	52.1	63.9	62.2
130°	1.7	16.8	45.4	57.2	55.5
132.5°	1.7	13.5	40.4	50.5	48.8
135°	1.7	11.8	35.3	43.7	42.0
137.5°	1.7	10.1	30.3	38.7	37.0
140°	1.7	8.4	26.9	33.6	32.0
142.5°	1.7	6.7	21.9	28.6	26.9
145°	1.7	5.0	18.5	23.5	21.9
147.5°	1.7	3.4	15.1	20.2	18.5
150°	1.7	3.4	11.8	16.8	15.1
152.5°	1.7	3.4	10.1	13.5	10.1
155°	1.7	3.4	6.7	10.1	6.7
157.5°	1.7	3.4	5.0	6.7	5.0
160°	1.7	3.4	5.0	5.0	1.7
162.5°	1.7	3.4	3.4	1.7	0.0
165°	1.7	3.4	3.4	0.0	0.0
167.5°	1.7	3.4	3.4	0.0	0.0
170°	1.7	3.4	3.4	0.0	0.0
172.5°	1.7	3.4	3.4	0.0	0.0
175°	3.4	3.4	3.4	0.0	0.0
177.5°	1.7	3.4	1.7	0.0	0.0
180°	1.7	1.7	1.7	1.7	1.7

(END OF REPORT)