

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-LD5-89SL-LC-UNV-L835-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 (P35657)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SRL-LD5-89SL-LC-UNV-L835-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

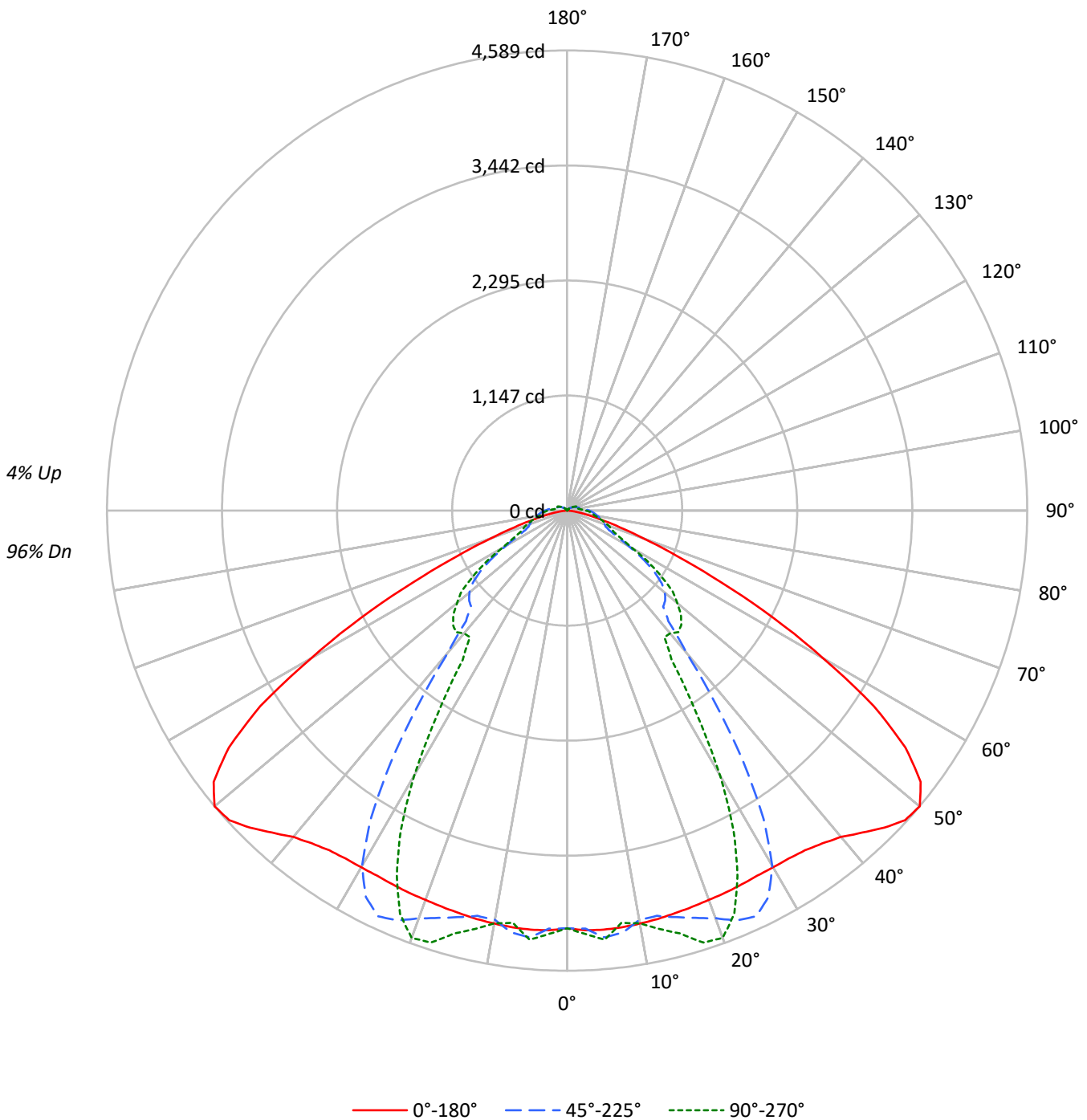
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10045.0 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.54 / 1.13 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 7.33' x H: 0.17')
CIE Type: Direct

Input Watts (W): 73.4
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

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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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	109	105	101	97	106	102	99	95	97	94	92	93	90	88	89	87	85	83
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	72
3	93	83	76	70	90	81	75	69	78	72	67	75	70	66	72	68	64	62
4	86	75	67	61	83	73	66	60	70	64	59	68	62	58	65	60	57	54
5	79	67	59	53	77	66	59	53	64	57	52	61	56	51	59	54	50	48
6	74	61	53	47	72	60	52	47	58	51	46	56	50	46	54	49	45	43
7	69	56	48	42	67	55	47	42	53	46	41	52	45	41	50	45	40	38
8	64	51	43	38	62	51	43	38	49	42	37	48	41	37	46	41	37	35
9	60	47	40	35	58	47	39	34	45	39	34	44	38	34	43	37	33	32
10	56	44	36	32	55	43	36	31	42	36	31	41	35	31	40	34	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24455	24455	24455
5°	24676	24149	23923
10°	24834	22748	22300
15°	25112	22565	22519
20°	25598	22955	22795
25°	26370	23557	19864
30°	27485	21639	14946
35°	29175	16383	8878
40°	31954	10046	7856
45°	36303	7559	8016
50°	40814	7353	7296
55°	40827	6387	6033
60°	33356	4515	4087
65°	22366	3129	2965
70°	13052	2909	2676
75°	7302	2862	2271
80°	4172	2752	1940
85°	2064	2724	1909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.7	4.0
10°-20°	1207.6	12.0
20°-30°	1922.0	19.1
30°-40°	1958.8	19.5
40°-50°	1654.4	16.5
50°-60°	1275.2	12.7
60°-70°	658.7	6.6
70°-80°	364.0	3.6
80°-90°	231.6	2.3
90°-100°	142.5	1.4
100°-110°	91.9	0.9
110°-120°	66.7	0.7
120°-130°	38.5	0.4
130°-140°	18.6	0.2
140°-150°	7.8	0.1
150°-160°	2.7	0.0
160°-170°	1.0	0.0
170°-180°	0.3	0.0
0°-30°	3532.3	35.2
0°-40°	5491.0	54.7
0°-60°	8420.6	83.8
0°-90°	9674.9	96.3
90°-120°	301.1	3.0
90°-150°	366.0	3.6
90°-180°	370.0	3.7
0°-180°	10045.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4165	4165	4165	4165	4165	
5°	4195	4210	4272	4313	4296	400
15°	4157	4159	4197	4347	4367	1178
25°	4114	4142	4463	4244	4020	1905
35°	4135	4330	3066	2085	1817	2610
45°	4472	2610	1354	1562	1609	3453
55°	4118	960	1058	1151	1151	3566
65°	1688	439	461	518	518	1742
75°	349	289	356	358	349	421
85°	39	188	266	257	244	53
90°	0	146	221	204	188	2
95°	0	114	176	154	141	0
105°	0	69	116	107	101	0
115°	2	41	84	101	99	1
125°	2	21	54	64	58	2
135°	2	11	30	36	30	2
145°	2	4	15	19	15	1
155°	2	2	6	9	4	1
165°	2	4	4	4	0	1
175°	4	4	4	4	0	0
180°	2	2	2	2	2	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4165.2	4165.2	4165.2	4165.2	4165.2
2.5°	4188.7	4173.7	4173.7	4227.3	4227.3
5°	4195.2	4210.2	4272.3	4313.0	4295.9
7.5°	4190.9	4259.4	4244.5	4184.5	4145.9
10°	4182.3	4285.2	4143.7	4184.5	4180.2
12.5°	4171.6	4246.6	4139.5	4283.0	4274.4
15°	4156.6	4158.7	4197.3	4347.3	4366.6
17.5°	4143.7	4103.0	4259.4	4460.9	4516.6
20°	4130.9	4085.9	4325.9	4557.3	4533.7
22.5°	4124.5	4100.9	4424.4	4484.4	4353.7
25°	4113.8	4141.6	4463.0	4244.5	4019.5
27.5°	4105.2	4188.7	4345.2	3835.2	3595.2
30°	4107.3	4255.2	4090.2	3355.3	3053.2
32.5°	4113.8	4319.4	3646.7	2712.5	2399.7
35°	4135.2	4330.2	3066.0	2084.7	1816.9
37.5°	4182.3	4212.3	2434.0	1649.8	1591.9
40°	4248.7	3856.6	1846.9	1540.5	1598.4
42.5°	4355.9	3258.9	1493.4	1557.7	1643.4
45°	4471.6	2609.7	1354.1	1561.9	1609.1
47.5°	4570.1	1926.2	1326.3	1504.1	1538.4
50°	4589.4	1450.5	1272.7	1412.0	1433.4
52.5°	4443.7	1146.3	1187.0	1289.8	1328.4
55°	4118.0	959.9	1058.4	1150.6	1150.6
57.5°	3627.4	814.2	889.2	977.0	968.4
60°	2952.5	670.6	709.2	762.8	749.9
62.5°	2322.6	537.8	550.6	608.5	617.1
65°	1688.4	439.2	460.7	518.5	518.5
67.5°	1184.8	375.0	415.7	469.2	473.5
70°	807.8	338.5	396.4	439.2	441.4
72.5°	550.6	312.8	377.1	400.7	394.2
75°	349.2	289.2	355.7	357.8	349.2
77.5°	227.1	263.5	334.2	317.1	310.7
80°	139.3	237.8	306.4	285.0	274.3
82.5°	79.3	212.1	285.0	270.0	259.3
85°	38.6	188.5	265.7	257.1	244.3
87.5°	15.0	167.1	244.3	231.4	218.5
90°	0.0	145.7	220.7	203.5	188.5
92.5°	0.0	128.6	197.1	175.7	162.8
95°	0.0	113.6	175.7	154.3	141.4
97.5°	0.0	100.7	156.4	137.1	122.1
100°	0.0	90.0	141.4	122.1	111.4
102.5°	0.0	79.3	126.4	113.6	107.1
105°	0.0	68.6	115.7	107.1	100.7
107.5°	0.0	60.0	105.0	102.8	98.6
110°	0.0	53.6	98.6	100.7	102.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	47.1	90.0	102.8	105.0
115°	2.1	40.7	83.6	100.7	98.6
117.5°	2.1	34.3	75.0	90.0	85.7
120°	2.1	30.0	68.6	81.4	75.0
122.5°	2.1	25.7	60.0	70.7	66.4
125°	2.1	21.4	53.6	64.3	57.8
127.5°	2.1	19.3	47.1	55.7	51.4
130°	2.1	17.1	40.7	49.3	45.0
132.5°	2.1	12.9	36.4	42.9	36.4
135°	2.1	10.7	30.0	36.4	30.0
137.5°	2.1	8.6	25.7	30.0	25.7
140°	2.1	6.4	21.4	25.7	21.4
142.5°	2.1	6.4	17.1	23.6	17.1
145°	2.1	4.3	15.0	19.3	15.0
147.5°	2.1	4.3	12.9	17.1	12.9
150°	2.1	4.3	10.7	15.0	8.6
152.5°	2.1	2.1	8.6	12.9	6.4
155°	2.1	2.1	6.4	8.6	4.3
157.5°	2.1	2.1	6.4	6.4	4.3
160°	2.1	2.1	6.4	6.4	2.1
162.5°	2.1	2.1	4.3	4.3	0.0
165°	2.1	4.3	4.3	4.3	0.0
167.5°	2.1	4.3	4.3	4.3	0.0
170°	2.1	4.3	4.3	4.3	0.0
172.5°	2.1	4.3	4.3	4.3	0.0
175°	4.3	4.3	4.3	4.3	0.0
177.5°	4.3	4.3	4.3	4.3	0.0
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)