

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-LD5-83SL-LC-UNV-L830-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-LD5-83SL-LC-UNV-L830-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

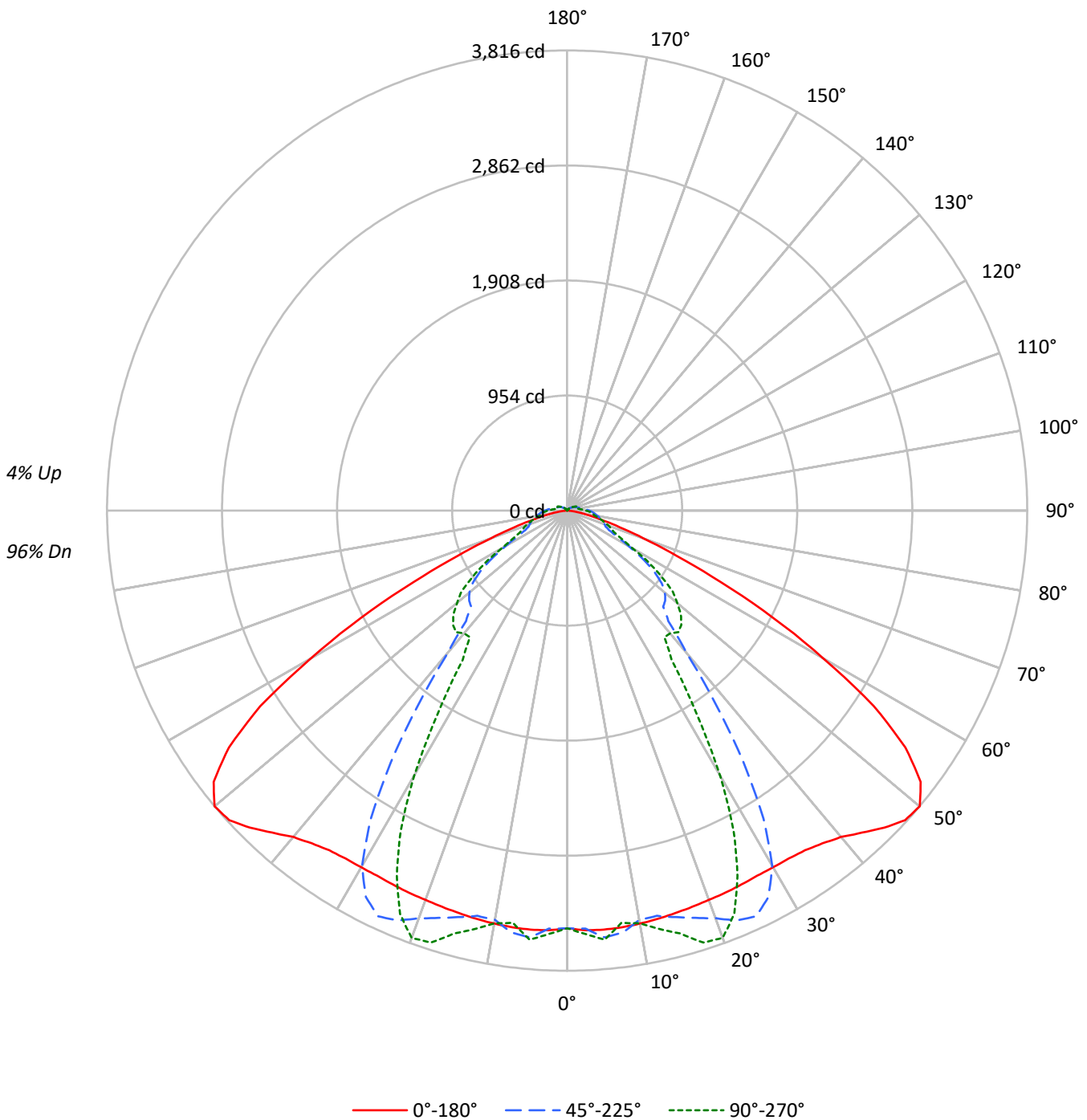
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8353.0 lumens
Efficiency: N/A
Efficacy: 141.1 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): 59.2
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	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°	20336	20336	20336
5°	20519	20082	19894
10°	20651	18917	18544
15°	20883	18764	18726
20°	21286	19089	18955
25°	21928	19589	16518
30°	22855	17994	12429
35°	24260	13624	7383
40°	26572	8354	6532
45°	30188	6285	6666
50°	33940	6114	6067
55°	33951	5311	5017
60°	27738	3754	3398
65°	18599	2602	2466
70°	10853	2419	2225
75°	6073	2380	1889
80°	3468	2288	1613
85°	1716	2264	1587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.8	4.0
10°-20°	1004.2	12.0
20°-30°	1598.2	19.1
30°-40°	1628.8	19.5
40°-50°	1375.7	16.5
50°-60°	1060.4	12.7
60°-70°	547.8	6.6
70°-80°	302.7	3.6
80°-90°	192.6	2.3
90°-100°	118.5	1.4
100°-110°	76.4	0.9
110°-120°	55.4	0.7
120°-130°	32.0	0.4
130°-140°	15.5	0.2
140°-150°	6.5	0.1
150°-160°	2.3	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	2937.3	35.2
0°-40°	4566.1	54.7
0°-60°	7002.2	83.8
0°-90°	8045.3	96.3
90°-120°	250.4	3.0
90°-150°	304.4	3.6
90°-180°	308.0	3.7
0°-180°	8353.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3464	3464	3464	3464	3464	
5°	3488	3501	3553	3586	3572	333
15°	3456	3458	3490	3615	3631	979
25°	3421	3444	3711	3530	3342	1584
35°	3439	3601	2550	1734	1511	2171
45°	3718	2170	1126	1299	1338	2872
55°	3424	798	880	957	957	2965
65°	1404	365	383	431	431	1449
75°	290	240	296	298	290	350
85°	32	157	221	214	203	44
90°	0	121	184	169	157	2
95°	0	94	146	128	118	0
105°	0	57	96	89	84	0
115°	2	34	70	84	82	1
125°	2	18	44	54	48	2
135°	2	9	25	30	25	1
145°	2	4	12	16	12	1
155°	2	2	5	7	4	1
165°	2	4	4	4	0	1
175°	4	4	4	4	0	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3463.6	3463.6	3463.6	3463.6	3463.6
2.5°	3483.2	3470.7	3470.7	3515.3	3515.3
5°	3488.5	3501.0	3552.7	3586.5	3572.3
7.5°	3485.0	3542.0	3529.5	3479.6	3447.5
10°	3477.8	3563.4	3445.8	3479.6	3476.1
12.5°	3468.9	3531.3	3442.2	3561.6	3554.5
15°	3456.5	3458.2	3490.3	3615.0	3631.1
17.5°	3445.8	3411.9	3542.0	3709.5	3755.8
20°	3435.1	3397.7	3597.2	3789.6	3770.0
22.5°	3429.7	3410.1	3679.2	3729.1	3620.4
25°	3420.8	3444.0	3711.2	3529.5	3342.4
27.5°	3413.7	3483.2	3613.2	3189.2	2989.7
30°	3415.5	3538.4	3401.2	2790.1	2538.9
32.5°	3420.8	3591.9	3032.4	2255.6	1995.5
35°	3438.6	3600.8	2549.6	1733.6	1510.9
37.5°	3477.8	3502.8	2024.0	1371.9	1323.8
40°	3533.1	3207.0	1535.8	1281.0	1329.1
42.5°	3622.2	2709.9	1241.8	1295.3	1366.5
45°	3718.4	2170.1	1126.0	1298.8	1338.0
47.5°	3800.3	1601.7	1102.9	1250.7	1279.2
50°	3816.4	1206.2	1058.3	1174.1	1191.9
52.5°	3695.2	953.2	987.1	1072.6	1104.6
55°	3424.4	798.2	880.1	956.8	956.8
57.5°	3016.4	677.0	739.4	812.4	805.3
60°	2455.2	557.7	589.7	634.3	623.6
62.5°	1931.3	447.2	457.9	506.0	513.1
65°	1404.0	365.2	383.1	431.2	431.2
67.5°	985.3	311.8	345.6	390.2	393.8
70°	671.7	281.5	329.6	365.2	367.0
72.5°	457.9	260.1	313.6	333.2	327.8
75°	290.4	240.5	295.8	297.5	290.4
77.5°	188.9	219.1	277.9	263.7	258.3
80°	115.8	197.8	254.8	237.0	228.1
82.5°	65.9	176.4	237.0	224.5	215.6
85°	32.1	156.8	220.9	213.8	203.1
87.5°	12.5	139.0	203.1	192.4	181.7
90°	0.0	121.2	183.5	169.3	156.8
92.5°	0.0	106.9	163.9	146.1	135.4
95°	0.0	94.4	146.1	128.3	117.6
97.5°	0.0	83.7	130.1	114.0	101.6
100°	0.0	74.8	117.6	101.6	92.6
102.5°	0.0	65.9	105.1	94.4	89.1
105°	0.0	57.0	96.2	89.1	83.7
107.5°	0.0	49.9	87.3	85.5	82.0
110°	0.0	44.5	82.0	83.7	85.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	39.2	74.8	85.5	87.3
115°	1.8	33.9	69.5	83.7	82.0
117.5°	1.8	28.5	62.4	74.8	71.3
120°	1.8	24.9	57.0	67.7	62.4
122.5°	1.8	21.4	49.9	58.8	55.2
125°	1.8	17.8	44.5	53.5	48.1
127.5°	1.8	16.0	39.2	46.3	42.8
130°	1.8	14.3	33.9	41.0	37.4
132.5°	1.8	10.7	30.3	35.6	30.3
135°	1.8	8.9	24.9	30.3	24.9
137.5°	1.8	7.1	21.4	24.9	21.4
140°	1.8	5.3	17.8	21.4	17.8
142.5°	1.8	5.3	14.3	19.6	14.3
145°	1.8	3.6	12.5	16.0	12.5
147.5°	1.8	3.6	10.7	14.3	10.7
150°	1.8	3.6	8.9	12.5	7.1
152.5°	1.8	1.8	7.1	10.7	5.3
155°	1.8	1.8	5.3	7.1	3.6
157.5°	1.8	1.8	5.3	5.3	3.6
160°	1.8	1.8	5.3	5.3	1.8
162.5°	1.8	1.8	3.6	3.6	0.0
165°	1.8	3.6	3.6	3.6	0.0
167.5°	1.8	3.6	3.6	3.6	0.0
170°	1.8	3.6	3.6	3.6	0.0
172.5°	1.8	3.6	3.6	3.6	0.0
175°	3.6	3.6	3.6	3.6	0.0
177.5°	3.6	3.6	3.6	3.6	0.0
180°	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)