

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-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-LD5-83SL-LC-UNV-L835-CD1-U
Description: SRL LINEAR LED

Light Source: -
Ballast/Driver: -

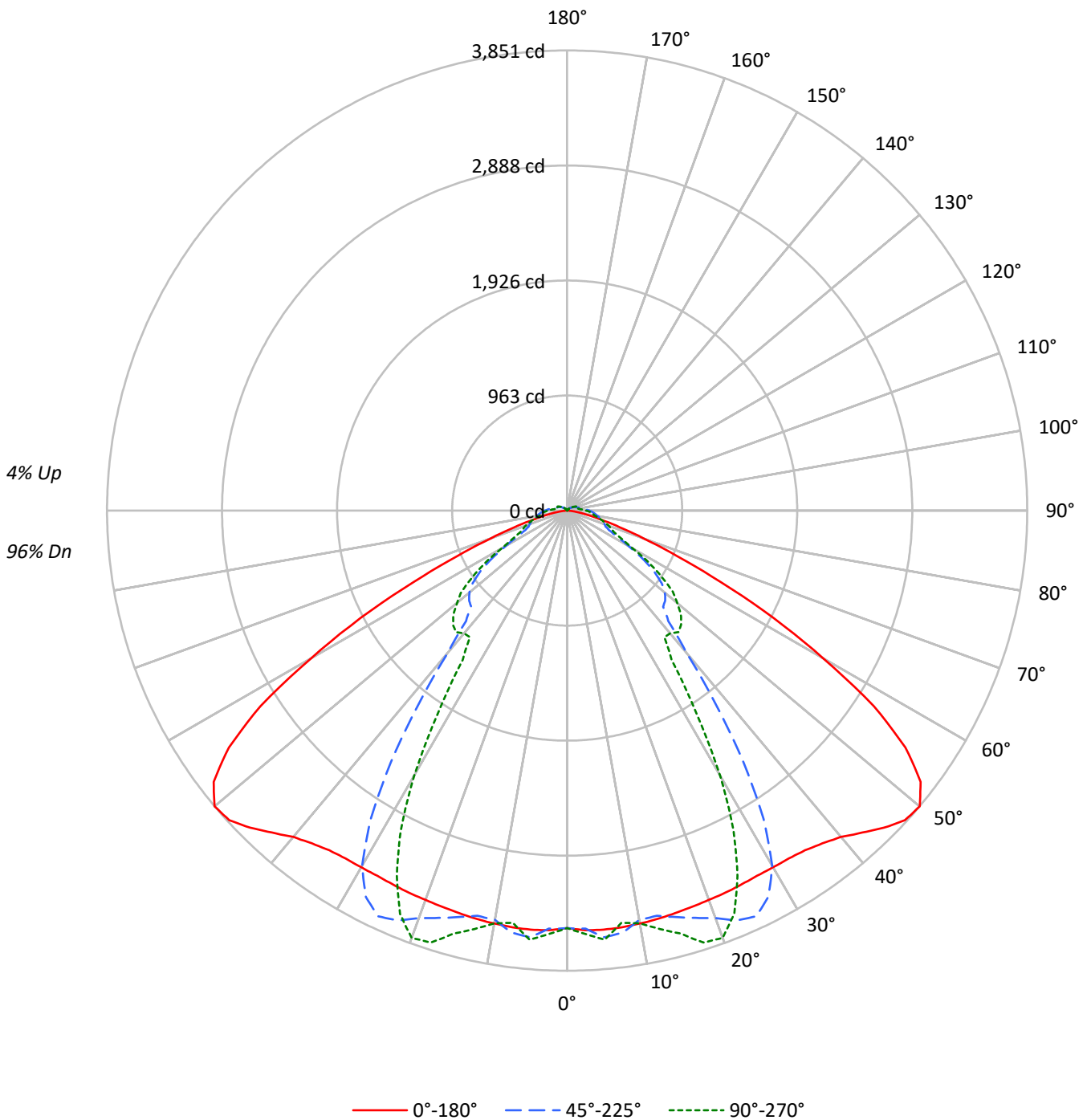
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8429.0 lumens
Efficiency: N/A
Efficacy: 142.4 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 (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-LD5-83SL-LC-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-83SL-LC-UNV-L835-CD1-U

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	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°	20521	20521	20521
5°	20706	20264	20075
10°	20839	19089	18712
15°	21072	18935	18896
20°	21480	19262	19128
25°	22128	19767	16668
30°	23064	18158	12542
35°	24481	13748	7450
40°	26814	8430	6592
45°	30463	6343	6727
50°	34248	6170	6122
55°	34259	5360	5063
60°	27990	3789	3429
65°	18767	2625	2488
70°	10951	2441	2245
75°	6129	2401	1906
80°	3501	2309	1627
85°	1733	2285	1602



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-83SL-LC-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.9	4.0
10°-20°	1013.3	12.0
20°-30°	1612.8	19.1
30°-40°	1643.6	19.5
40°-50°	1388.2	16.5
50°-60°	1070.0	12.7
60°-70°	552.7	6.6
70°-80°	305.4	3.6
80°-90°	194.4	2.3
90°-100°	119.6	1.4
100°-110°	77.1	0.9
110°-120°	55.9	0.7
120°-130°	32.3	0.4
130°-140°	15.6	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°	2964.0	35.2
0°-40°	4607.6	54.7
0°-60°	7065.9	83.8
0°-90°	8118.4	96.3
90°-120°	252.7	3.0
90°-150°	307.1	3.6
90°-180°	311.0	3.7
0°-180°	8429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3495	3495	3495	3495	3495	
5°	3520	3533	3585	3619	3605	336
15°	3488	3490	3522	3648	3664	988
25°	3452	3475	3745	3562	3373	1598
35°	3470	3634	2573	1749	1525	2190
45°	3752	2190	1136	1311	1350	2898
55°	3456	806	888	966	966	2992
65°	1417	369	386	435	435	1462
75°	293	243	298	300	293	353
85°	32	158	223	216	205	44
90°	0	122	185	171	158	2
95°	0	95	147	129	119	0
105°	0	58	97	90	84	0
115°	2	34	70	84	83	1
125°	2	18	45	54	48	2
135°	2	9	25	31	25	1
145°	2	4	13	16	13	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	



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-83SL-LC-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3495.1	3495.1	3495.1	3495.1	3495.1
2.5°	3514.9	3502.3	3502.3	3547.2	3547.2
5°	3520.3	3532.9	3585.0	3619.2	3604.8
7.5°	3516.7	3574.2	3561.6	3511.3	3478.9
10°	3509.5	3595.8	3477.1	3511.3	3507.7
12.5°	3500.5	3563.4	3473.5	3594.0	3586.8
15°	3487.9	3489.7	3522.1	3647.9	3664.1
17.5°	3477.1	3443.0	3574.2	3743.2	3790.0
20°	3466.3	3428.6	3629.9	3824.1	3804.3
22.5°	3460.9	3441.2	3712.6	3763.0	3653.3
25°	3451.9	3475.3	3745.0	3561.6	3372.8
27.5°	3444.8	3514.9	3646.1	3218.2	3016.9
30°	3446.6	3570.6	3432.2	2815.5	2562.0
32.5°	3451.9	3624.5	3060.0	2276.1	2013.6
35°	3469.9	3633.5	2572.8	1749.3	1524.6
37.5°	3509.5	3534.7	2042.4	1384.4	1335.8
40°	3565.2	3236.2	1549.8	1292.7	1341.2
42.5°	3655.1	2734.6	1253.1	1307.1	1379.0
45°	3752.2	2189.8	1136.3	1310.7	1350.2
47.5°	3834.9	1616.3	1112.9	1262.1	1290.9
50°	3851.1	1217.2	1067.9	1184.8	1202.8
52.5°	3728.8	961.9	996.0	1082.3	1114.7
55°	3455.5	805.5	888.2	965.5	965.5
57.5°	3043.8	683.2	746.1	819.8	812.6
60°	2477.5	562.7	595.1	640.0	629.3
62.5°	1948.9	451.3	462.1	510.6	517.8
65°	1416.7	368.6	386.5	435.1	435.1
67.5°	994.2	314.6	348.8	393.7	397.3
70°	677.8	284.1	332.6	368.6	370.4
72.5°	462.1	262.5	316.4	336.2	330.8
75°	293.1	242.7	298.4	300.2	293.1
77.5°	190.6	221.1	280.5	266.1	260.7
80°	116.9	199.6	257.1	239.1	230.1
82.5°	66.5	178.0	239.1	226.5	217.5
85°	32.4	158.2	222.9	215.7	205.0
87.5°	12.6	140.2	205.0	194.2	183.4
90°	0.0	122.3	185.2	170.8	158.2
92.5°	0.0	107.9	165.4	147.4	136.6
95°	0.0	95.3	147.4	129.4	118.7
97.5°	0.0	84.5	131.2	115.1	102.5
100°	0.0	75.5	118.7	102.5	93.5
102.5°	0.0	66.5	106.1	95.3	89.9
105°	0.0	57.5	97.1	89.9	84.5
107.5°	0.0	50.3	88.1	86.3	82.7
110°	0.0	44.9	82.7	84.5	86.3



TEST NUMBER: P#

CATALOG NUMBER: 8SRL-LD5-83SL-LC-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	39.6	75.5	86.3	88.1
115°	1.8	34.2	70.1	84.5	82.7
117.5°	1.8	28.8	62.9	75.5	71.9
120°	1.8	25.2	57.5	68.3	62.9
122.5°	1.8	21.6	50.3	59.3	55.7
125°	1.8	18.0	44.9	53.9	48.5
127.5°	1.8	16.2	39.6	46.7	43.1
130°	1.8	14.4	34.2	41.4	37.8
132.5°	1.8	10.8	30.6	36.0	30.6
135°	1.8	9.0	25.2	30.6	25.2
137.5°	1.8	7.2	21.6	25.2	21.6
140°	1.8	5.4	18.0	21.6	18.0
142.5°	1.8	5.4	14.4	19.8	14.4
145°	1.8	3.6	12.6	16.2	12.6
147.5°	1.8	3.6	10.8	14.4	10.8
150°	1.8	3.6	9.0	12.6	7.2
152.5°	1.8	1.8	7.2	10.8	5.4
155°	1.8	1.8	5.4	7.2	3.6
157.5°	1.8	1.8	5.4	5.4	3.6
160°	1.8	1.8	5.4	5.4	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)