

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: **8SNLED-LD5-83SL-SLC-UNV-L850-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-83SL-SLC-UNV-L850-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

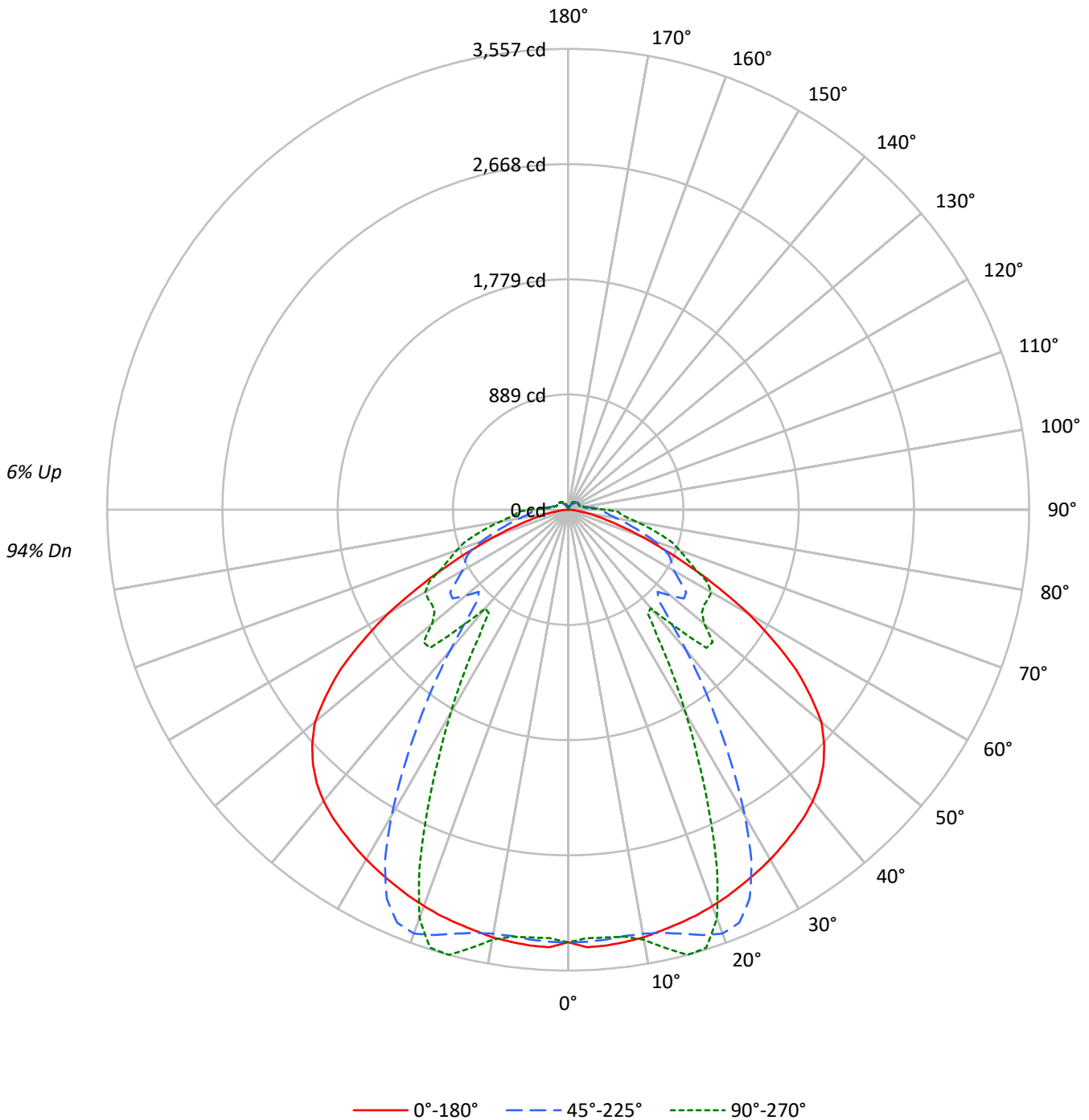
Lumens per Lamp: N/A
Luminaire Lumens: 8578.0 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 61
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	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13492	13492	13492
5°	13675	13189	13015
10°	13712	13000	12970
15°	13769	13195	13518
20°	13917	13600	12688
25°	14113	13082	9770
30°	14415	10967	6949
35°	14800	8314	4706
40°	15285	6050	3985
45°	15669	4394	6264
50°	15736	4871	5945
55°	14760	5614	5871
60°	12631	5145	6240
65°	9559	5199	5708
70°	6765	4744	5313
75°	4492	3987	4767
80°	2939	3429	3968
85°	1687	3278	3562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.7	3.7
10°-20°	959.4	11.2
20°-30°	1393.7	16.2
30°-40°	1331.6	15.5
40°-50°	1218.1	14.2
50°-60°	1124.7	13.1
60°-70°	893.4	10.4
70°-80°	551.4	6.4
80°-90°	300.3	3.5
90°-100°	151.8	1.8
100°-110°	95.4	1.1
110°-120°	80.8	0.9
120°-130°	66.0	0.8
130°-140°	47.3	0.6
140°-150°	29.2	0.3
150°-160°	13.9	0.2
160°-170°	3.6	0.0
170°-180°	0.0	0.0
0°-30°	2670.8	31.1
0°-40°	4002.4	46.7
0°-60°	6345.2	74.0
0°-90°	8090.2	94.3
90°-120°	327.9	3.8
90°-150°	470.4	5.5
90°-180°	488.0	5.7
0°-180°	8578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3339	3339	3339	3339	3339	
5°	3376	3325	3330	3313	3314	321
15°	3305	3261	3388	3514	3557	935
25°	3189	3251	3313	2804	2575	1474
35°	3033	2985	2012	1385	1205	1902
45°	2785	1942	982	1252	1508	2140
55°	2142	996	1112	1196	1280	1887
65°	1033	646	866	1052	1078	1045
75°	304	344	519	687	733	345
85°	43	146	294	401	406	55
90°	2	109	263	312	288	2
95°	0	102	182	161	152	0
105°	0	92	112	102	100	0
115°	0	75	108	96	92	1
125°	2	61	96	93	89	1
135°	2	43	77	84	81	1
145°	2	27	53	68	72	1
155°	3	16	32	43	52	1
165°	3	9	16	21	28	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-SLC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3339.3	3339.3	3339.3	3339.3	3339.3
2.5°	3380.7	3331.9	3337.9	3327.5	3309.8
5°	3376.3	3324.6	3330.5	3312.7	3314.2
7.5°	3364.5	3311.2	3318.6	3315.7	3323.1
10°	3351.2	3295.0	3323.1	3348.2	3370.4
12.5°	3327.5	3277.2	3345.2	3419.2	3465.0
15°	3305.3	3261.0	3388.1	3513.8	3556.6
17.5°	3283.2	3255.1	3441.3	3550.7	3544.8
20°	3255.1	3252.1	3481.2	3444.3	3354.1
22.5°	3224.0	3253.6	3450.2	3179.7	3002.3
25°	3188.6	3250.6	3312.7	2804.2	2575.1
27.5°	3153.1	3237.3	3062.9	2393.3	2167.1
30°	3117.6	3201.9	2725.9	2017.8	1812.3
32.5°	3076.2	3125.0	2359.3	1685.2	1496.0
35°	3033.3	2984.6	2011.9	1385.1	1204.8
37.5°	2989.0	2782.0	1700.0	1122.0	1006.7
40°	2935.8	2527.8	1413.2	962.3	993.4
42.5°	2869.3	2241.0	1160.4	1009.6	1225.5
45°	2785.0	1942.4	981.5	1252.1	1507.8
47.5°	2678.6	1655.6	937.2	1433.9	1513.7
50°	2550.0	1392.5	1030.3	1374.8	1368.8
52.5°	2354.8	1173.7	1124.9	1253.5	1300.8
55°	2142.0	996.3	1111.6	1195.9	1280.2
57.5°	1872.9	876.6	1020.0	1184.1	1281.6
60°	1605.4	796.8	941.6	1182.6	1274.2
62.5°	1309.7	724.3	901.7	1154.5	1209.2
65°	1033.3	646.0	866.2	1052.5	1077.6
67.5°	792.3	566.2	804.2	938.7	988.9
70°	597.2	487.8	706.6	851.5	913.5
72.5°	430.2	413.9	606.1	774.6	839.6
75°	304.5	344.4	518.9	687.4	733.2
77.5°	209.9	280.9	444.9	591.3	628.2
80°	137.5	224.7	378.4	508.5	533.6
82.5°	82.8	180.3	328.2	444.9	458.3
85°	42.9	146.3	294.2	400.6	406.5
87.5°	13.3	122.7	275.0	379.9	387.3
90°	1.5	109.4	263.1	311.9	288.3
92.5°	0.0	103.5	227.6	212.9	190.7
95°	0.0	102.0	181.8	161.1	152.3
97.5°	0.0	99.0	149.3	134.5	130.1
100°	0.0	96.1	128.6	118.3	116.8
102.5°	0.0	94.6	116.8	107.9	106.4
105°	0.0	91.7	112.3	102.0	100.5
107.5°	0.0	87.2	109.4	99.0	96.1
110°	0.0	82.8	109.4	97.6	93.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-SLC-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	78.3	109.4	96.1	91.7
115°	0.0	75.4	107.9	96.1	91.7
117.5°	1.5	72.4	106.4	96.1	91.7
120°	0.0	69.5	103.5	96.1	90.2
122.5°	1.5	65.0	100.5	94.6	90.2
125°	1.5	60.6	96.1	93.1	88.7
127.5°	1.5	56.2	91.7	90.2	85.7
130°	1.5	51.7	87.2	88.7	84.3
132.5°	1.5	47.3	81.3	85.7	82.8
135°	1.5	42.9	76.9	84.3	81.3
137.5°	1.5	38.4	71.0	79.8	79.8
140°	1.5	34.0	65.0	76.9	78.3
142.5°	1.5	31.0	59.1	73.9	75.4
145°	1.5	26.6	53.2	68.0	72.4
147.5°	1.5	23.7	47.3	62.1	68.0
150°	1.5	20.7	41.4	56.2	62.1
152.5°	1.5	17.7	37.0	48.8	57.7
155°	3.0	16.3	32.5	42.9	51.7
157.5°	3.0	13.3	26.6	37.0	44.3
160°	3.0	11.8	23.7	31.0	39.9
162.5°	3.0	10.3	19.2	26.6	34.0
165°	3.0	8.9	16.3	20.7	28.1
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)