

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-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 (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-L830-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

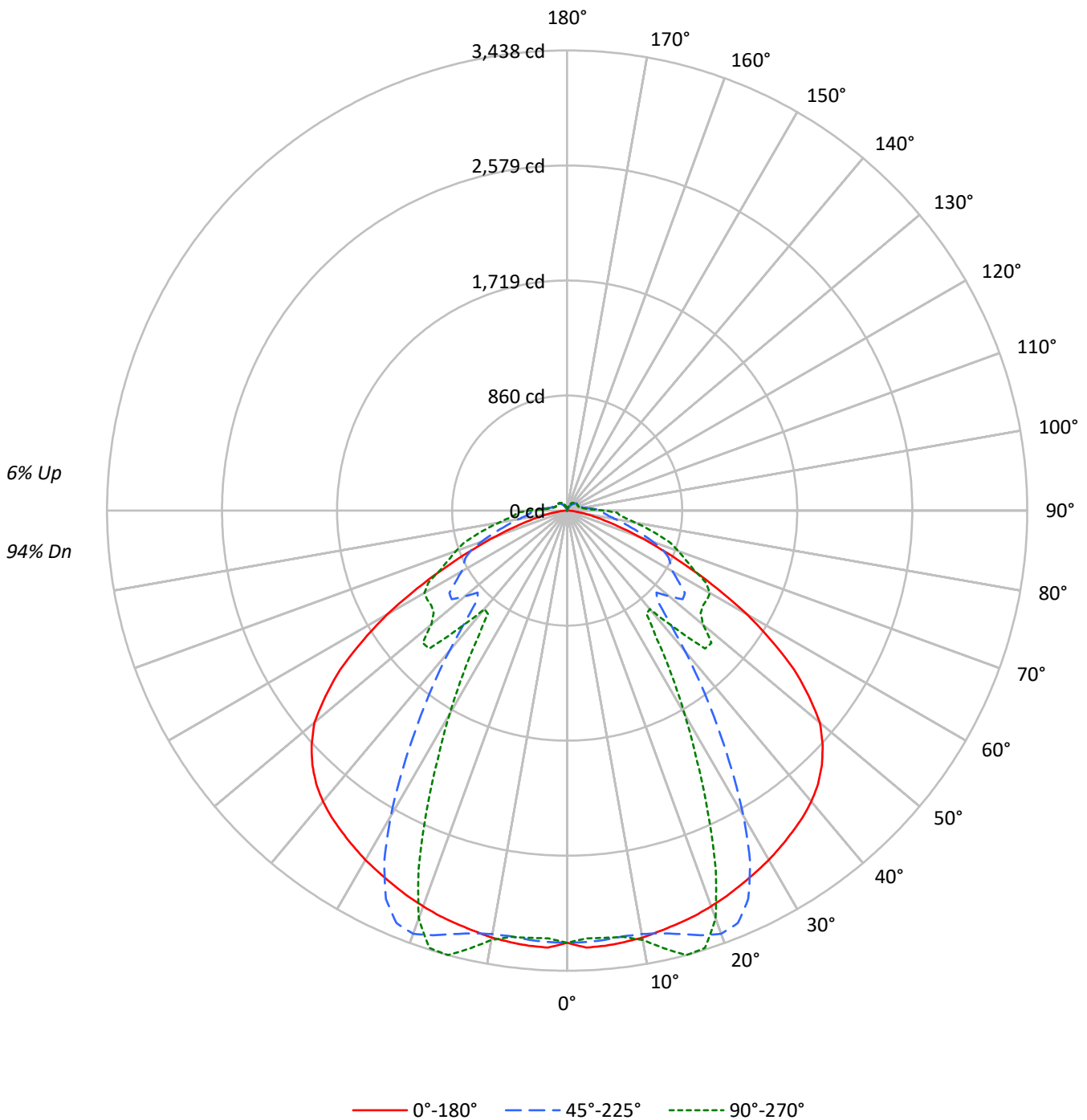
Lumens per Lamp: N/A
Luminaire Lumens: 8292.0 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 61
Input Voltage (V): NR
Input Current (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	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°	13043	13043	13043
5°	13219	12749	12581
10°	13254	12567	12537
15°	13310	12755	13067
20°	13453	13147	12266
25°	13642	12646	9444
30°	13935	10602	6718
35°	14307	8037	4549
40°	14775	5849	3852
45°	15146	4247	6055
50°	15211	4709	5747
55°	14267	5427	5675
60°	12210	4974	6032
65°	9240	5026	5518
70°	6539	4585	5136
75°	4343	3854	4609
80°	2841	3314	3837
85°	1628	3169	3444



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.1	3.7
10°-20°	927.4	11.2
20°-30°	1347.2	16.2
30°-40°	1287.2	15.5
40°-50°	1177.4	14.2
50°-60°	1087.2	13.1
60°-70°	863.6	10.4
70°-80°	533.0	6.4
80°-90°	290.2	3.5
90°-100°	146.7	1.8
100°-110°	92.2	1.1
110°-120°	78.1	0.9
120°-130°	63.8	0.8
130°-140°	45.8	0.6
140°-150°	28.2	0.3
150°-160°	13.4	0.2
160°-170°	3.5	0.0
170°-180°	0.0	0.0
0°-30°	2581.8	31.1
0°-40°	3869.0	46.7
0°-60°	6133.6	74.0
0°-90°	7820.4	94.3
90°-120°	317.0	3.8
90°-150°	454.7	5.5
90°-180°	472.0	5.7
0°-180°	8292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3228	3228	3228	3228	3228	
5°	3264	3214	3219	3202	3204	311
15°	3195	3152	3275	3397	3438	904
25°	3082	3142	3202	2711	2489	1425
35°	2932	2885	1945	1339	1165	1839
45°	2692	1878	949	1210	1458	2069
55°	2070	963	1075	1156	1238	1824
65°	999	624	837	1017	1042	1010
75°	294	333	502	664	709	334
85°	41	142	284	387	393	53
90°	1	106	254	302	279	2
95°	0	99	176	156	147	0
105°	0	89	109	99	97	0
115°	0	73	104	93	89	1
125°	1	59	93	90	86	1
135°	1	41	74	82	79	1
145°	1	26	51	66	70	1
155°	3	16	31	41	50	1
165°	3	9	16	20	27	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-SLC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3228.0	3228.0	3228.0	3228.0	3228.0
2.5°	3268.0	3220.9	3226.6	3216.6	3199.4
5°	3263.7	3213.7	3219.4	3202.3	3203.7
7.5°	3252.3	3200.8	3208.0	3205.1	3212.3
10°	3239.4	3185.1	3212.3	3236.6	3258.0
12.5°	3216.6	3168.0	3233.7	3305.2	3349.5
15°	3195.1	3152.3	3275.2	3396.6	3438.1
17.5°	3173.7	3146.5	3326.6	3432.3	3426.6
20°	3146.5	3143.7	3365.2	3329.5	3242.3
22.5°	3116.5	3145.1	3335.2	3073.7	2902.2
25°	3082.2	3142.3	3202.3	2710.7	2489.2
27.5°	3047.9	3129.4	2960.8	2313.5	2094.8
30°	3013.7	3095.1	2635.0	1950.5	1751.9
32.5°	2973.6	3020.8	2280.6	1629.0	1446.1
35°	2932.2	2885.0	1944.8	1338.9	1164.6
37.5°	2889.3	2689.3	1643.3	1084.6	973.1
40°	2837.9	2443.5	1366.1	930.2	960.3
42.5°	2773.6	2166.3	1121.7	976.0	1184.6
45°	2692.1	1877.6	948.8	1210.3	1457.5
47.5°	2589.3	1600.4	906.0	1386.1	1463.2
50°	2464.9	1346.1	996.0	1328.9	1323.2
52.5°	2276.3	1134.6	1087.4	1211.7	1257.5
55°	2070.5	963.1	1074.6	1156.0	1237.5
57.5°	1810.5	847.4	986.0	1144.6	1238.9
60°	1551.8	770.2	910.2	1143.2	1231.8
62.5°	1266.0	700.2	871.7	1116.0	1168.9
65°	998.8	624.5	837.4	1017.4	1041.7
67.5°	765.9	547.3	777.3	907.4	956.0
70°	577.3	471.6	683.0	823.1	883.1
72.5°	415.8	400.1	585.9	748.8	811.6
75°	294.4	332.9	501.6	664.5	708.8
77.5°	202.9	271.5	430.1	571.6	607.3
80°	132.9	217.2	365.8	491.6	515.9
82.5°	80.0	174.3	317.2	430.1	443.0
85°	41.4	141.5	284.4	387.2	393.0
87.5°	12.9	118.6	265.8	367.2	374.4
90°	1.4	105.7	254.4	301.5	278.6
92.5°	0.0	100.0	220.1	205.8	184.3
95°	0.0	98.6	175.8	155.8	147.2
97.5°	0.0	95.7	144.3	130.0	125.7
100°	0.0	92.9	124.3	114.3	112.9
102.5°	0.0	91.5	112.9	104.3	102.9
105°	0.0	88.6	108.6	98.6	97.2
107.5°	0.0	84.3	105.7	95.7	92.9
110°	0.0	80.0	105.7	94.3	90.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-SLC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	75.7	105.7	92.9	88.6
115°	0.0	72.9	104.3	92.9	88.6
117.5°	1.4	70.0	102.9	92.9	88.6
120°	0.0	67.2	100.0	92.9	87.2
122.5°	1.4	62.9	97.2	91.5	87.2
125°	1.4	58.6	92.9	90.0	85.7
127.5°	1.4	54.3	88.6	87.2	82.9
130°	1.4	50.0	84.3	85.7	81.5
132.5°	1.4	45.7	78.6	82.9	80.0
135°	1.4	41.4	74.3	81.5	78.6
137.5°	1.4	37.2	68.6	77.2	77.2
140°	1.4	32.9	62.9	74.3	75.7
142.5°	1.4	30.0	57.2	71.4	72.9
145°	1.4	25.7	51.4	65.7	70.0
147.5°	1.4	22.9	45.7	60.0	65.7
150°	1.4	20.0	40.0	54.3	60.0
152.5°	1.4	17.1	35.7	47.2	55.7
155°	2.9	15.7	31.4	41.4	50.0
157.5°	2.9	12.9	25.7	35.7	42.9
160°	2.9	11.4	22.9	30.0	38.6
162.5°	2.9	10.0	18.6	25.7	32.9
165°	2.9	8.6	15.7	20.0	27.2
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)