

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-SLN-UNV-L840-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 (P27402)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-83SL-SLN-UNV-L840-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

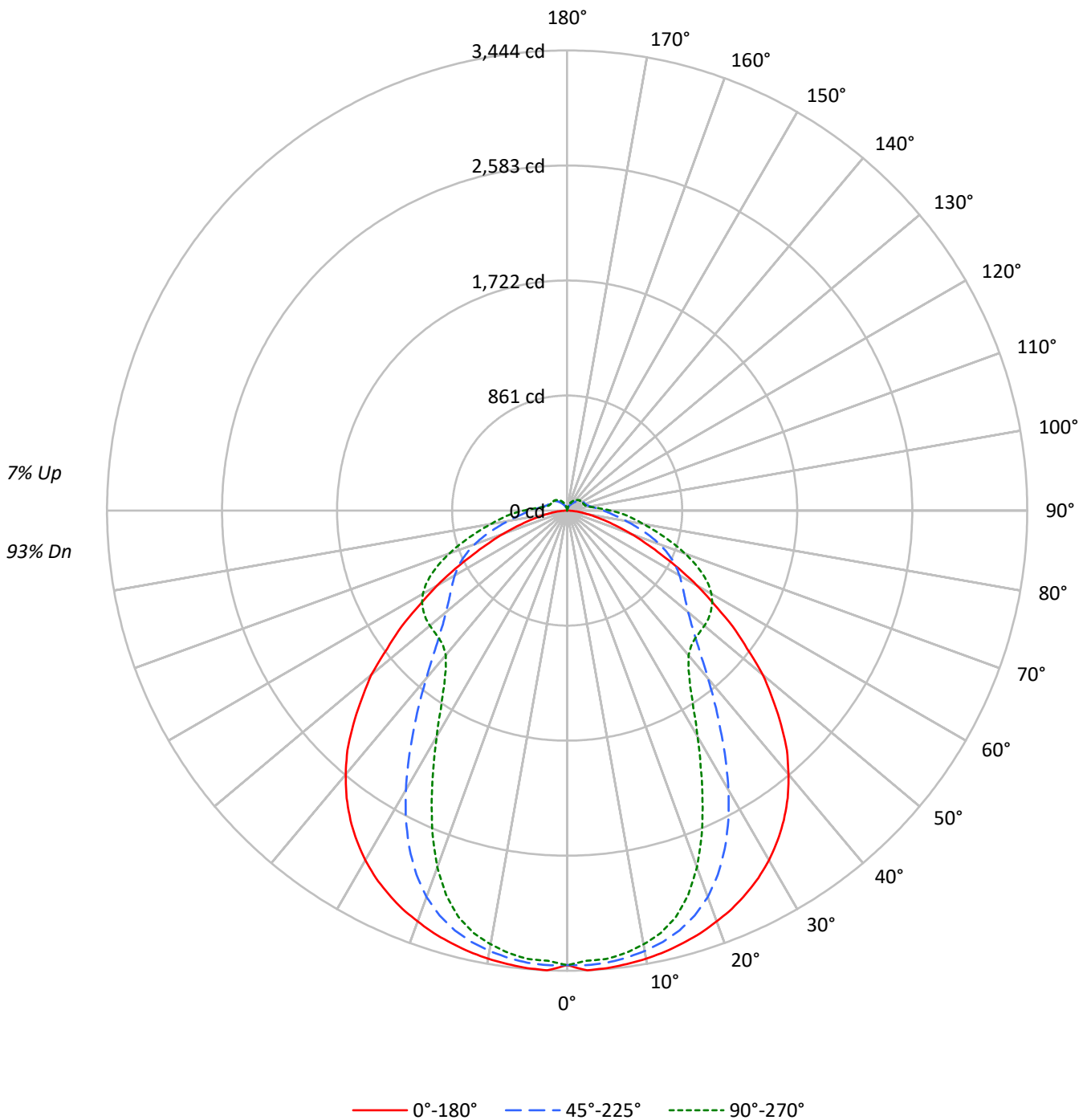
Lumens per Lamp: N/A  
Luminaire Lumens: 8554.0 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13743	13743	13743
5°	13921	13453	13230
10°	13935	13093	12685
15°	13960	12665	11962
20°	13986	12024	10742
25°	14014	11027	9097
30°	13971	9712	7482
35°	13798	8271	6271
40°	13422	7012	5668
45°	12742	6101	5626
50°	11804	5584	5823
55°	10430	5375	6026
60°	8840	5307	6110
65°	7152	5199	5919
70°	5794	4943	5459
75°	4427	4486	4844
80°	3349	4045	4310
85°	2384	3838	3963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.8	3.8
10°-20°	909.6	10.6
20°-30°	1271.5	14.9
30°-40°	1318.9	15.4
40°-50°	1218.4	14.2
50°-60°	1087.8	12.7
60°-70°	881.6	10.3
70°-80°	586.4	6.9
80°-90°	335.8	3.9
90°-100°	185.8	2.2
100°-110°	125.8	1.5
110°-120°	104.7	1.2
120°-130°	85.1	1.0
130°-140°	61.4	0.7
140°-150°	37.0	0.4
150°-160°	17.8	0.2
160°-170°	4.6	0.1
170°-180°	0.0	0.0
0°-30°	2502.9	29.3
0°-40°	3821.7	44.7
0°-60°	6128.0	71.6
0°-90°	7931.7	92.7
90°-120°	416.3	4.9
90°-150°	599.9	7.0
90°-180°	622.0	7.3
0°-180°	8554.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3401	3401	3401	3401	3401	
5°	3437	3379	3397	3373	3369	327
15°	3351	3280	3252	3178	3147	947
25°	3166	3026	2792	2500	2398	1459
35°	2828	2517	2002	1681	1605	1764
45°	2265	1795	1363	1314	1354	1741
55°	1514	1144	1064	1237	1314	1346
65°	773	692	866	1061	1118	781
75°	300	376	584	716	745	329
85°	61	174	344	440	452	70
90°	3	123	272	328	325	5
95°	3	104	216	231	223	2
105°	2	90	155	151	143	2
115°	2	81	138	136	132	1
125°	2	70	121	127	124	2
135°	3	52	96	112	112	2
145°	3	32	66	87	93	2
155°	3	21	41	55	66	1
165°	3	12	21	27	36	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-SLN-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3401.4	3401.4	3401.4	3401.4	3401.4
2.5°	3444.3	3388.1	3405.8	3391.1	3371.8
5°	3436.9	3379.2	3397.0	3373.3	3368.9
7.5°	3423.6	3365.9	3376.3	3348.2	3340.8
10°	3405.8	3345.2	3346.7	3306.8	3296.5
12.5°	3382.2	3315.7	3306.8	3252.1	3237.3
15°	3351.2	3280.2	3252.1	3178.2	3147.2
17.5°	3317.2	3234.4	3176.7	3062.9	3014.1
20°	3271.3	3178.2	3077.7	2904.7	2839.7
22.5°	3225.5	3110.2	2949.1	2718.5	2631.3
25°	3166.4	3025.9	2792.4	2499.7	2397.7
27.5°	3099.9	2926.9	2612.0	2275.0	2165.6
30°	3021.5	2807.2	2414.0	2054.7	1951.3
32.5°	2929.9	2672.6	2205.5	1856.7	1760.6
35°	2827.9	2517.4	2001.5	1680.8	1605.4
37.5°	2711.1	2347.4	1812.3	1538.8	1490.1
40°	2578.0	2162.7	1637.9	1429.5	1413.2
42.5°	2434.6	1982.3	1488.6	1358.5	1373.3
45°	2264.7	1794.6	1362.9	1314.1	1354.1
47.5°	2085.8	1611.3	1260.9	1289.0	1346.7
50°	1912.8	1441.3	1181.1	1272.8	1340.8
52.5°	1698.5	1289.0	1117.5	1258.0	1331.9
55°	1513.7	1144.2	1064.3	1237.3	1314.1
57.5°	1300.8	1014.1	1017.0	1210.7	1287.5
60°	1123.5	895.8	971.2	1173.7	1247.6
62.5°	943.1	789.4	920.9	1124.9	1191.5
65°	773.1	691.8	866.2	1061.4	1117.5
67.5°	631.2	603.1	804.2	984.5	1031.8
70°	511.5	521.8	736.2	898.8	938.7
72.5°	393.2	446.4	662.2	807.1	841.1
75°	300.1	375.5	583.9	715.5	745.0
77.5°	221.7	313.4	512.9	632.7	657.8
80°	156.7	258.7	446.4	560.3	579.5
82.5°	105.0	212.9	391.7	495.2	512.9
85°	60.6	174.4	344.4	440.5	452.3
87.5°	25.1	144.9	306.0	384.3	390.3
90°	3.0	122.7	272.0	328.2	325.2
92.5°	3.0	110.9	242.4	275.0	267.6
95°	3.0	103.5	215.8	230.6	223.2
97.5°	3.0	99.0	192.2	198.1	190.7
100°	1.5	96.1	175.9	175.9	168.5
102.5°	1.5	93.1	164.1	159.6	153.7
105°	1.5	90.2	155.2	150.8	143.4
107.5°	1.5	88.7	149.3	144.9	137.5
110°	1.5	85.7	144.9	140.4	134.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	84.3	141.9	139.0	131.6
115°	1.5	81.3	137.5	136.0	131.6
117.5°	1.5	78.3	134.5	134.5	130.1
120°	1.5	75.4	130.1	133.0	128.6
122.5°	1.5	72.4	125.6	130.1	125.6
125°	1.5	69.5	121.2	127.1	124.2
127.5°	3.0	65.0	115.3	124.2	121.2
130°	1.5	60.6	109.4	121.2	119.7
132.5°	3.0	56.2	103.5	116.8	116.8
135°	3.0	51.7	96.1	112.3	112.3
137.5°	3.0	45.8	88.7	106.4	107.9
140°	3.0	41.4	81.3	100.5	103.5
142.5°	3.0	37.0	73.9	94.6	99.0
145°	3.0	32.5	66.5	87.2	93.1
147.5°	3.0	29.6	59.1	78.3	87.2
150°	3.0	25.1	53.2	71.0	79.8
152.5°	3.0	22.2	47.3	63.6	73.9
155°	3.0	20.7	41.4	54.7	66.5
157.5°	3.0	17.7	35.5	47.3	59.1
160°	3.0	14.8	29.6	41.4	50.3
162.5°	3.0	13.3	25.1	34.0	44.3
165°	3.0	11.8	20.7	26.6	35.5
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)