

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: **4SNLED-LD5-66SL-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: 4SNLED-LD5-66SL-SLC-UNV-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

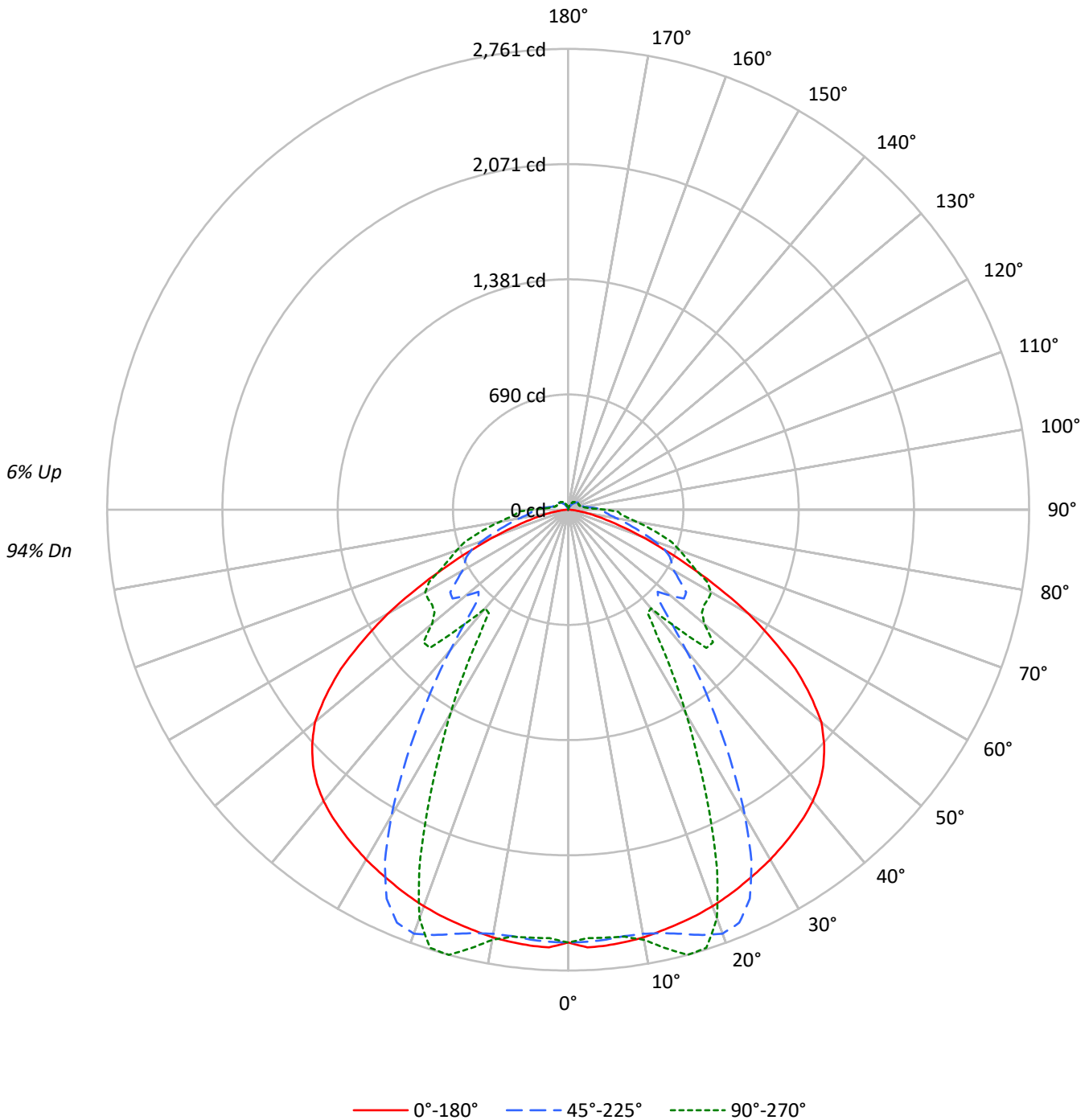
Lumens per Lamp: N/A
Luminaire Lumens: 6660.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 55
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°	20952	20952	20952
5°	21207	20461	20210
10°	21233	20149	20140
15°	21292	20433	20991
20°	21489	21042	19703
25°	21756	20222	15171
30°	22186	16937	10791
35°	22736	12827	7307
40°	23430	9325	6188
45°	23963	6765	9728
50°	23996	7491	9232
55°	22429	8620	9116
60°	19110	7888	9689
65°	14376	7956	8864
70°	10090	7241	8250
75°	6610	6067	7403
80°	4218	5197	6162
85°	2275	4940	5531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.7	3.7
10°-20°	744.9	11.2
20°-30°	1082.1	16.2
30°-40°	1033.9	15.5
40°-50°	945.7	14.2
50°-60°	873.2	13.1
60°-70°	693.6	10.4
70°-80°	428.1	6.4
80°-90°	233.1	3.5
90°-100°	117.8	1.8
100°-110°	74.0	1.1
110°-120°	62.7	0.9
120°-130°	51.2	0.8
130°-140°	36.7	0.6
140°-150°	22.7	0.3
150°-160°	10.8	0.2
160°-170°	2.8	0.0
170°-180°	0.0	0.0
0°-30°	2073.6	31.1
0°-40°	3107.5	46.7
0°-60°	4926.4	74.0
0°-90°	6281.3	94.3
90°-120°	254.6	3.8
90°-150°	365.2	5.5
90°-180°	379.0	5.7
0°-180°	6660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2593	2593	2593	2593	2593	
5°	2621	2581	2586	2572	2573	249
15°	2566	2532	2630	2728	2761	726
25°	2476	2524	2572	2177	1999	1144
35°	2355	2317	1562	1075	935	1477
45°	2162	1508	762	972	1171	1662
55°	1663	774	863	928	994	1465
65°	802	502	673	817	837	811
75°	236	267	403	534	569	268
85°	33	114	228	311	316	42
90°	1	85	204	242	224	2
95°	0	79	141	125	118	0
105°	0	71	87	79	78	0
115°	0	58	84	75	71	1
125°	1	47	75	72	69	1
135°	1	33	60	65	63	1
145°	1	21	41	53	56	1
155°	2	13	25	33	40	1
165°	2	7	13	16	22	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2592.7	2592.7	2592.7	2592.7	2592.7
2.5°	2624.8	2586.9	2591.5	2583.5	2569.7
5°	2621.4	2581.2	2585.8	2572.0	2573.2
7.5°	2612.2	2570.9	2576.6	2574.3	2580.0
10°	2601.9	2558.2	2580.0	2599.6	2616.8
12.5°	2583.5	2544.5	2597.3	2654.7	2690.2
15°	2566.3	2531.8	2630.5	2728.1	2761.4
17.5°	2549.1	2527.3	2671.9	2756.8	2752.2
20°	2527.3	2525.0	2702.9	2674.2	2604.2
22.5°	2503.2	2526.1	2678.8	2468.7	2331.0
25°	2475.6	2523.8	2572.0	2177.2	1999.3
27.5°	2448.1	2513.5	2378.1	1858.1	1682.5
30°	2420.5	2485.9	2116.4	1566.6	1407.1
32.5°	2388.4	2426.3	1831.7	1308.4	1161.5
35°	2355.1	2317.2	1562.0	1075.4	935.4
37.5°	2320.7	2160.0	1319.9	871.1	781.6
40°	2279.3	1962.6	1097.2	747.2	771.3
42.5°	2227.7	1739.9	901.0	783.9	951.5
45°	2162.3	1508.1	762.1	972.1	1170.7
47.5°	2079.6	1285.4	727.6	1113.3	1175.3
50°	1979.8	1081.1	800.0	1067.4	1062.8
52.5°	1828.3	911.3	873.4	973.3	1010.0
55°	1663.0	773.6	863.1	928.5	993.9
57.5°	1454.1	680.6	791.9	919.3	995.1
60°	1246.4	618.6	731.1	918.2	989.3
62.5°	1016.9	562.4	700.1	896.4	938.8
65°	802.2	501.5	672.6	817.2	836.7
67.5°	615.2	439.6	624.4	728.8	767.8
70°	463.7	378.7	548.6	661.1	709.3
72.5°	334.0	321.4	470.6	601.4	651.9
75°	236.4	267.4	402.8	533.7	569.3
77.5°	163.0	218.1	345.5	459.1	487.8
80°	106.7	174.5	293.8	394.8	414.3
82.5°	64.3	140.0	254.8	345.5	355.8
85°	33.3	113.6	228.4	311.0	315.6
87.5°	10.3	95.3	213.5	295.0	300.7
90°	1.1	84.9	204.3	242.2	223.8
92.5°	0.0	80.3	176.7	165.3	148.1
95°	0.0	79.2	141.2	125.1	118.2
97.5°	0.0	76.9	115.9	104.4	101.0
100°	0.0	74.6	99.9	91.8	90.7
102.5°	0.0	73.5	90.7	83.8	82.6
105°	0.0	71.2	87.2	79.2	78.0
107.5°	0.0	67.7	84.9	76.9	74.6
110°	0.0	64.3	84.9	75.7	72.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	60.8	84.9	74.6	71.2
115°	0.0	58.5	83.8	74.6	71.2
117.5°	1.1	56.2	82.6	74.6	71.2
120°	0.0	53.9	80.3	74.6	70.0
122.5°	1.1	50.5	78.0	73.5	70.0
125°	1.1	47.1	74.6	72.3	68.9
127.5°	1.1	43.6	71.2	70.0	66.6
130°	1.1	40.2	67.7	68.9	65.4
132.5°	1.1	36.7	63.1	66.6	64.3
135°	1.1	33.3	59.7	65.4	63.1
137.5°	1.1	29.8	55.1	62.0	62.0
140°	1.1	26.4	50.5	59.7	60.8
142.5°	1.1	24.1	45.9	57.4	58.5
145°	1.1	20.7	41.3	52.8	56.2
147.5°	1.1	18.4	36.7	48.2	52.8
150°	1.1	16.1	32.1	43.6	48.2
152.5°	1.1	13.8	28.7	37.9	44.8
155°	2.3	12.6	25.2	33.3	40.2
157.5°	2.3	10.3	20.7	28.7	34.4
160°	2.3	9.2	18.4	24.1	31.0
162.5°	2.3	8.0	14.9	20.7	26.4
165°	2.3	6.9	12.6	16.1	21.8
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)