

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-LD5-76HL-SLC-UNV-L935-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-LD5-76HL-SLC-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

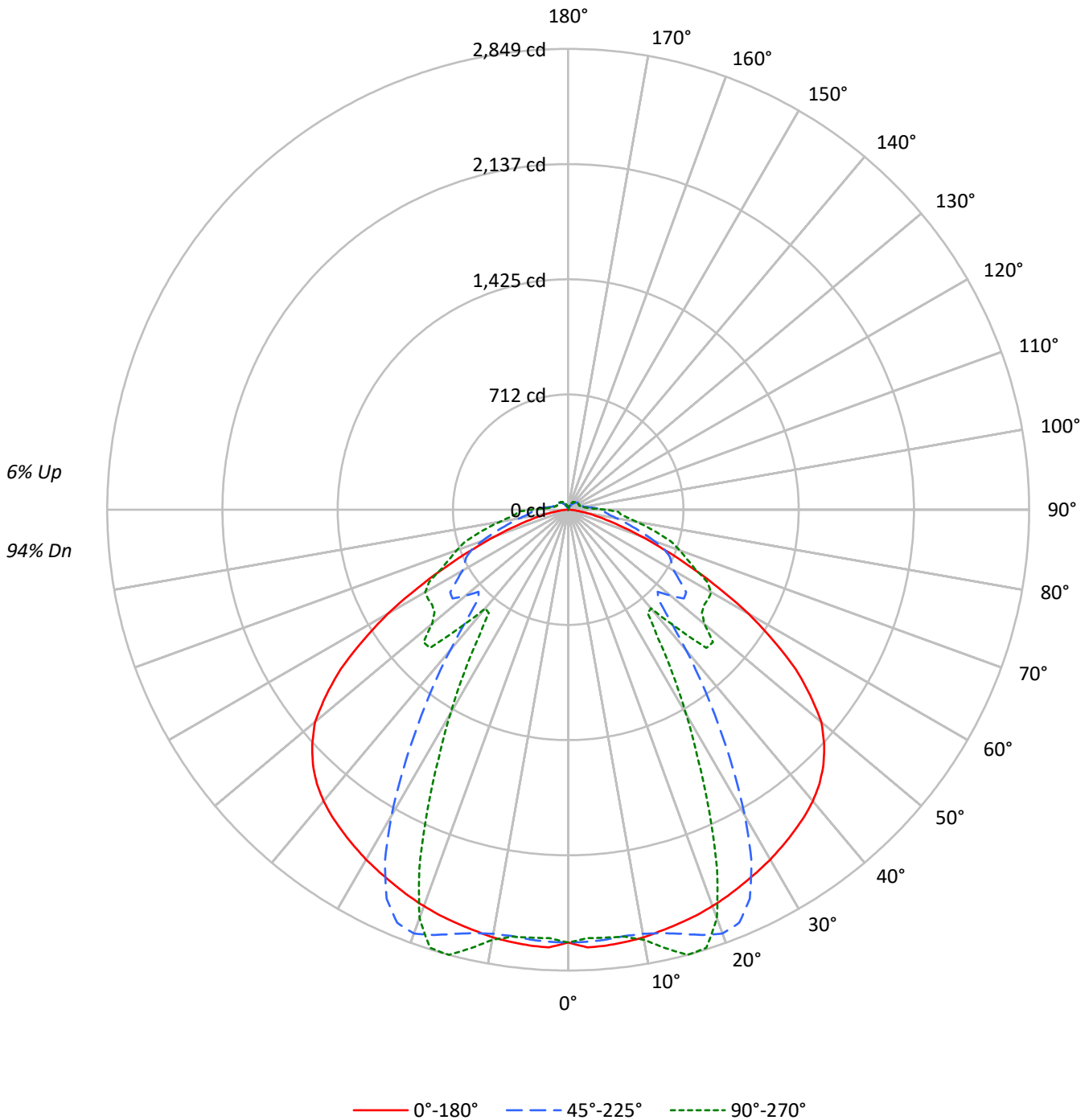
Lumens per Lamp: N/A
Luminaire Lumens: 6872.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 62
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°	21618	21618	21618
5°	21881	21112	20853
10°	21909	20791	20781
15°	21969	21084	21659
20°	22173	21711	20330
25°	22449	20866	15654
30°	22892	17475	11135
35°	23460	13236	7540
40°	24176	9621	6384
45°	24725	6979	10037
50°	24760	7729	9525
55°	23144	8895	9407
60°	19719	8139	9998
65°	14834	8209	9145
70°	10410	7472	8513
75°	6823	6261	7639
80°	4352	5364	6358
85°	2343	5098	5708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.5	3.7
10°-20°	768.6	11.2
20°-30°	1116.5	16.2
30°-40°	1066.8	15.5
40°-50°	975.8	14.2
50°-60°	901.0	13.1
60°-70°	715.7	10.4
70°-80°	441.7	6.4
80°-90°	240.5	3.5
90°-100°	121.6	1.8
100°-110°	76.4	1.1
110°-120°	64.7	0.9
120°-130°	52.9	0.8
130°-140°	37.9	0.6
140°-150°	23.4	0.3
150°-160°	11.1	0.2
160°-170°	2.9	0.0
170°-180°	0.0	0.0
0°-30°	2139.6	31.1
0°-40°	3206.4	46.7
0°-60°	5083.2	74.0
0°-90°	6481.2	94.3
90°-120°	262.7	3.8
90°-150°	376.8	5.5
90°-180°	391.0	5.7
0°-180°	6872.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2675	2675	2675	2675	2675	
5°	2705	2663	2668	2654	2655	257
15°	2648	2612	2714	2815	2849	749
25°	2554	2604	2654	2246	2063	1181
35°	2430	2391	1612	1110	965	1524
45°	2231	1556	786	1003	1208	1715
55°	1716	798	891	958	1026	1511
65°	828	518	694	843	863	837
75°	244	276	416	551	587	277
85°	34	117	236	321	326	44
90°	1	88	211	250	231	2
95°	0	82	146	129	122	0
105°	0	73	90	82	80	0
115°	0	60	86	77	73	1
125°	1	49	77	75	71	1
135°	1	34	62	68	65	1
145°	1	21	43	54	58	1
155°	2	13	26	34	41	1
165°	2	7	13	17	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°	2675.2	2675.2	2675.2	2675.2	2675.2
2.5°	2708.4	2669.3	2674.0	2665.7	2651.5
5°	2704.8	2663.4	2668.1	2653.9	2655.1
7.5°	2695.3	2652.7	2658.6	2656.3	2662.2
10°	2684.7	2639.7	2662.2	2682.3	2700.1
12.5°	2665.7	2625.5	2679.9	2739.2	2775.9
15°	2648.0	2612.4	2714.3	2814.9	2849.3
17.5°	2630.2	2607.7	2756.9	2844.6	2839.8
20°	2607.7	2605.3	2788.9	2759.3	2687.0
22.5°	2582.8	2606.5	2764.0	2547.3	2405.2
25°	2554.4	2604.1	2653.9	2246.5	2063.0
27.5°	2526.0	2593.5	2453.8	1917.3	1736.1
30°	2497.6	2565.1	2183.7	1616.5	1451.9
32.5°	2464.4	2503.5	1890.1	1350.0	1198.5
35°	2430.1	2391.0	1611.8	1109.6	965.2
37.5°	2394.5	2228.7	1361.9	898.8	806.5
40°	2351.9	2025.1	1132.1	770.9	795.8
42.5°	2298.6	1795.3	929.6	808.8	981.7
45°	2231.1	1556.1	786.3	1003.1	1207.9
47.5°	2145.8	1326.4	750.8	1148.7	1212.7
50°	2042.8	1115.6	825.4	1101.3	1096.6
52.5°	1886.5	940.3	901.2	1004.2	1042.1
55°	1716.0	798.2	890.6	958.1	1025.6
57.5°	1500.4	702.3	817.1	948.6	1026.7
60°	1286.1	638.3	754.4	947.4	1020.8
62.5°	1049.2	580.3	722.4	924.9	968.7
65°	827.8	517.5	694.0	843.2	863.3
67.5°	634.8	453.6	644.2	752.0	792.3
70°	478.4	390.8	566.1	682.1	731.9
72.5°	344.6	331.6	485.5	620.5	672.6
75°	244.0	275.9	415.7	550.7	587.4
77.5°	168.2	225.0	356.5	473.7	503.3
80°	110.1	180.0	303.2	407.4	427.5
82.5°	66.3	144.5	262.9	356.5	367.1
85°	34.3	117.2	235.7	320.9	325.7
87.5°	10.7	98.3	220.3	304.4	310.3
90°	1.2	87.6	210.8	249.9	230.9
92.5°	0.0	82.9	182.4	170.5	152.8
95°	0.0	81.7	145.7	129.1	122.0
97.5°	0.0	79.3	119.6	107.8	104.2
100°	0.0	77.0	103.0	94.7	93.6
102.5°	0.0	75.8	93.6	86.4	85.3
105°	0.0	73.4	90.0	81.7	80.5
107.5°	0.0	69.9	87.6	79.3	77.0
110°	0.0	66.3	87.6	78.2	74.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	62.8	87.6	77.0	73.4
115°	0.0	60.4	86.4	77.0	73.4
117.5°	1.2	58.0	85.3	77.0	73.4
120°	0.0	55.7	82.9	77.0	72.2
122.5°	1.2	52.1	80.5	75.8	72.2
125°	1.2	48.6	77.0	74.6	71.1
127.5°	1.2	45.0	73.4	72.2	68.7
130°	1.2	41.4	69.9	71.1	67.5
132.5°	1.2	37.9	65.1	68.7	66.3
135°	1.2	34.3	61.6	67.5	65.1
137.5°	1.2	30.8	56.8	63.9	63.9
140°	1.2	27.2	52.1	61.6	62.8
142.5°	1.2	24.9	47.4	59.2	60.4
145°	1.2	21.3	42.6	54.5	58.0
147.5°	1.2	18.9	37.9	49.7	54.5
150°	1.2	16.6	33.2	45.0	49.7
152.5°	1.2	14.2	29.6	39.1	46.2
155°	2.4	13.0	26.1	34.3	41.4
157.5°	2.4	10.7	21.3	29.6	35.5
160°	2.4	9.5	18.9	24.9	32.0
162.5°	2.4	8.3	15.4	21.3	27.2
165°	2.4	7.1	13.0	16.6	22.5
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)