

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-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: 4SNLED-LD5-76HL-SLC-UNV-L830-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

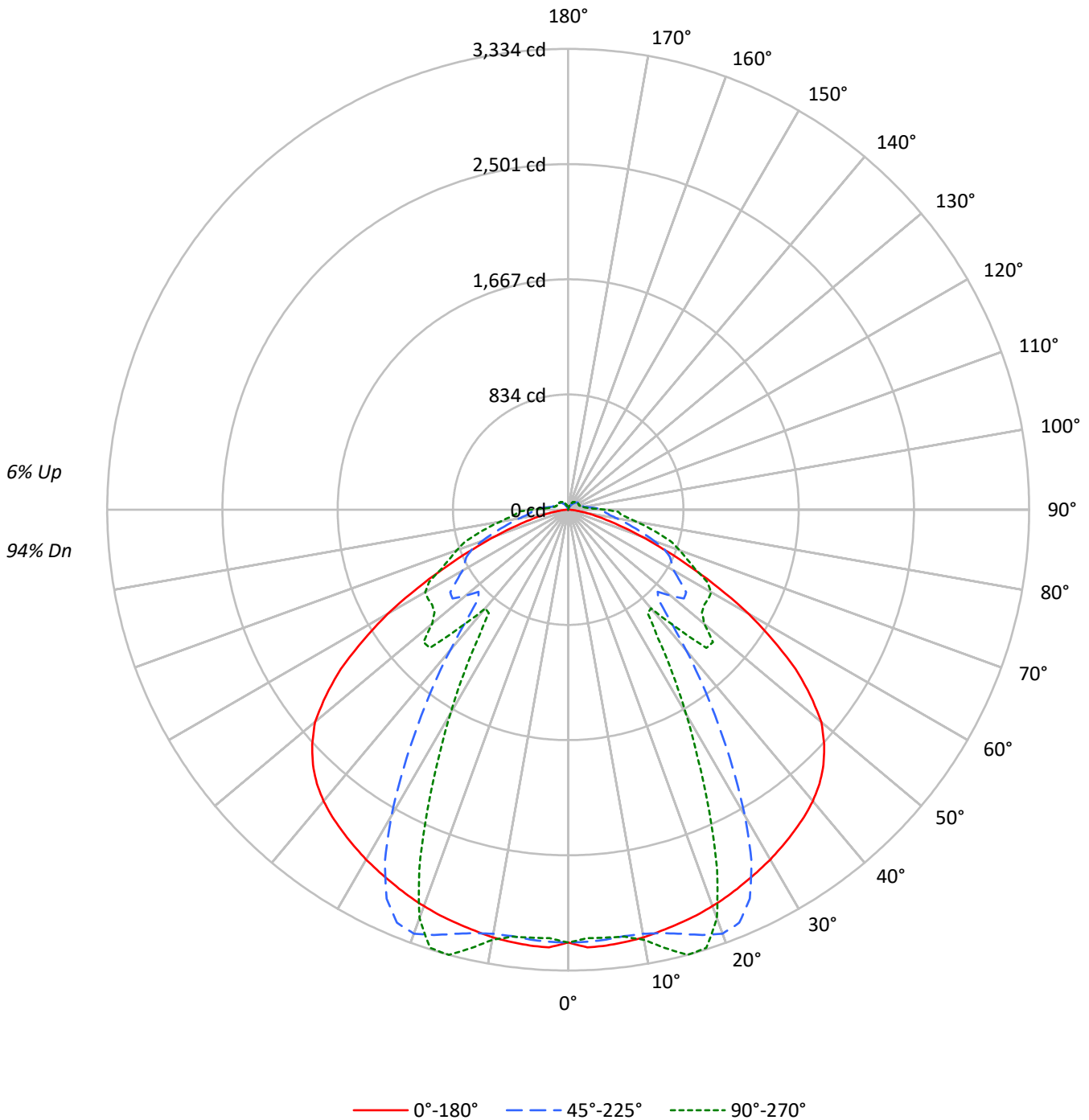
Lumens per Lamp: N/A  
Luminaire Lumens: 8042.0 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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	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°	25299	25299	25299
5°	25607	24707	24403
10°	25639	24330	24319
15°	25710	24673	25346
20°	25948	25408	23791
25°	26271	24418	18319
30°	26790	20451	13031
35°	27454	15489	8823
40°	28292	11260	7471
45°	28935	8168	11746
50°	28975	9044	11147
55°	27083	10409	11008
60°	23076	9525	11700
65°	17359	9606	10703
70°	12183	8744	9962
75°	7983	7326	8939
80°	5096	6276	7441
85°	2746	5966	6679



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.8	3.7
10°-20°	899.5	11.2
20°-30°	1306.6	16.2
30°-40°	1248.4	15.5
40°-50°	1141.9	14.2
50°-60°	1054.4	13.1
60°-70°	837.5	10.4
70°-80°	516.9	6.4
80°-90°	281.5	3.5
90°-100°	142.3	1.8
100°-110°	89.4	1.1
110°-120°	75.7	0.9
120°-130°	61.9	0.8
130°-140°	44.4	0.6
140°-150°	27.4	0.3
150°-160°	13.0	0.2
160°-170°	3.4	0.0
170°-180°	0.0	0.0
0°-30°	2503.9	31.1
0°-40°	3752.3	46.7
0°-60°	5948.7	74.0
0°-90°	7584.6	94.3
90°-120°	307.4	3.8
90°-150°	441.0	5.5
90°-180°	457.0	5.7
0°-180°	8042.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3131	3131	3131	3131	3131	
5°	3165	3117	3122	3106	3107	301
15°	3099	3057	3176	3294	3334	877
25°	2989	3048	3106	2629	2414	1382
35°	2844	2798	1886	1299	1130	1783
45°	2611	1821	920	1174	1414	2007
55°	2008	934	1042	1121	1200	1769
65°	969	606	812	987	1010	980
75°	286	323	486	644	687	324
85°	40	137	276	376	381	51
90°	1	103	247	292	270	2
95°	0	96	170	151	143	0
105°	0	86	105	96	94	0
115°	0	71	101	90	86	1
125°	1	57	90	87	83	1
135°	1	40	72	79	76	1
145°	1	25	50	64	68	1
155°	3	15	30	40	48	1
165°	3	8	15	19	26	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-76HL-SLC-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3130.7	3130.7	3130.7	3130.7	3130.7
2.5°	3169.5	3123.7	3129.3	3119.6	3103.0
5°	3165.3	3116.8	3122.4	3105.7	3107.1
7.5°	3154.2	3104.3	3111.3	3108.5	3115.4
10°	3141.8	3089.1	3115.4	3139.0	3159.8
12.5°	3119.6	3072.5	3136.2	3205.5	3248.5
15°	3098.8	3057.2	3176.4	3294.2	3334.4
17.5°	3078.0	3051.7	3226.3	3328.9	3323.3
20°	3051.7	3048.9	3263.7	3229.1	3144.5
22.5°	3022.6	3050.3	3234.6	2981.0	2814.7
25°	2989.3	3047.5	3105.7	2629.0	2414.2
27.5°	2956.1	3035.0	2871.5	2243.7	2031.7
30°	2922.8	3001.8	2555.5	1891.7	1699.1
32.5°	2884.0	2929.7	2211.8	1579.9	1402.5
35°	2843.8	2798.1	1886.2	1298.6	1129.5
37.5°	2802.2	2608.2	1593.7	1051.9	943.8
40°	2752.3	2369.8	1324.9	902.2	931.3
42.5°	2690.0	2101.0	1087.9	946.5	1148.9
45°	2611.0	1821.0	920.2	1173.8	1413.6
47.5°	2511.2	1552.2	878.6	1344.3	1419.1
50°	2390.6	1305.5	965.9	1288.9	1283.3
52.5°	2207.7	1100.4	1054.6	1175.2	1219.6
55°	2008.1	934.1	1042.2	1121.2	1200.2
57.5°	1755.9	821.8	956.2	1110.1	1201.5
60°	1505.1	747.0	882.8	1108.7	1194.6
62.5°	1227.9	679.1	845.4	1082.4	1133.6
65°	968.7	605.6	812.1	986.7	1010.3
67.5°	742.8	530.8	753.9	880.0	927.1
70°	559.9	457.3	662.4	798.3	856.5
72.5°	403.3	388.0	568.2	726.2	787.2
75°	285.5	322.9	486.4	644.4	687.4
77.5°	196.8	263.3	417.1	554.3	589.0
80°	128.9	210.7	354.8	476.7	500.3
82.5°	77.6	169.1	307.7	417.1	429.6
85°	40.2	137.2	275.8	375.6	381.1
87.5°	12.5	115.0	257.8	356.2	363.1
90°	1.4	102.6	246.7	292.4	270.2
92.5°	0.0	97.0	213.4	199.6	178.8
95°	0.0	95.6	170.5	151.1	142.7
97.5°	0.0	92.9	140.0	126.1	122.0
100°	0.0	90.1	120.6	110.9	109.5
102.5°	0.0	88.7	109.5	101.2	99.8
105°	0.0	85.9	105.3	95.6	94.2
107.5°	0.0	81.8	102.6	92.9	90.1
110°	0.0	77.6	102.6	91.5	87.3



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	73.5	102.6	90.1	85.9
115°	0.0	70.7	101.2	90.1	85.9
117.5°	1.4	67.9	99.8	90.1	85.9
120°	0.0	65.1	97.0	90.1	84.5
122.5°	1.4	61.0	94.2	88.7	84.5
125°	1.4	56.8	90.1	87.3	83.2
127.5°	1.4	52.7	85.9	84.5	80.4
130°	1.4	48.5	81.8	83.2	79.0
132.5°	1.4	44.3	76.2	80.4	77.6
135°	1.4	40.2	72.1	79.0	76.2
137.5°	1.4	36.0	66.5	74.8	74.8
140°	1.4	31.9	61.0	72.1	73.5
142.5°	1.4	29.1	55.4	69.3	70.7
145°	1.4	24.9	49.9	63.7	67.9
147.5°	1.4	22.2	44.3	58.2	63.7
150°	1.4	19.4	38.8	52.7	58.2
152.5°	1.4	16.6	34.6	45.7	54.0
155°	2.8	15.2	30.5	40.2	48.5
157.5°	2.8	12.5	24.9	34.6	41.6
160°	2.8	11.1	22.2	29.1	37.4
162.5°	2.8	9.7	18.0	24.9	31.9
165°	2.8	8.3	15.2	19.4	26.3
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)