

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-LD5-65HL-SLW-UNV-L930-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 (P27403)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-65HL-SLW-UNV-L930-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

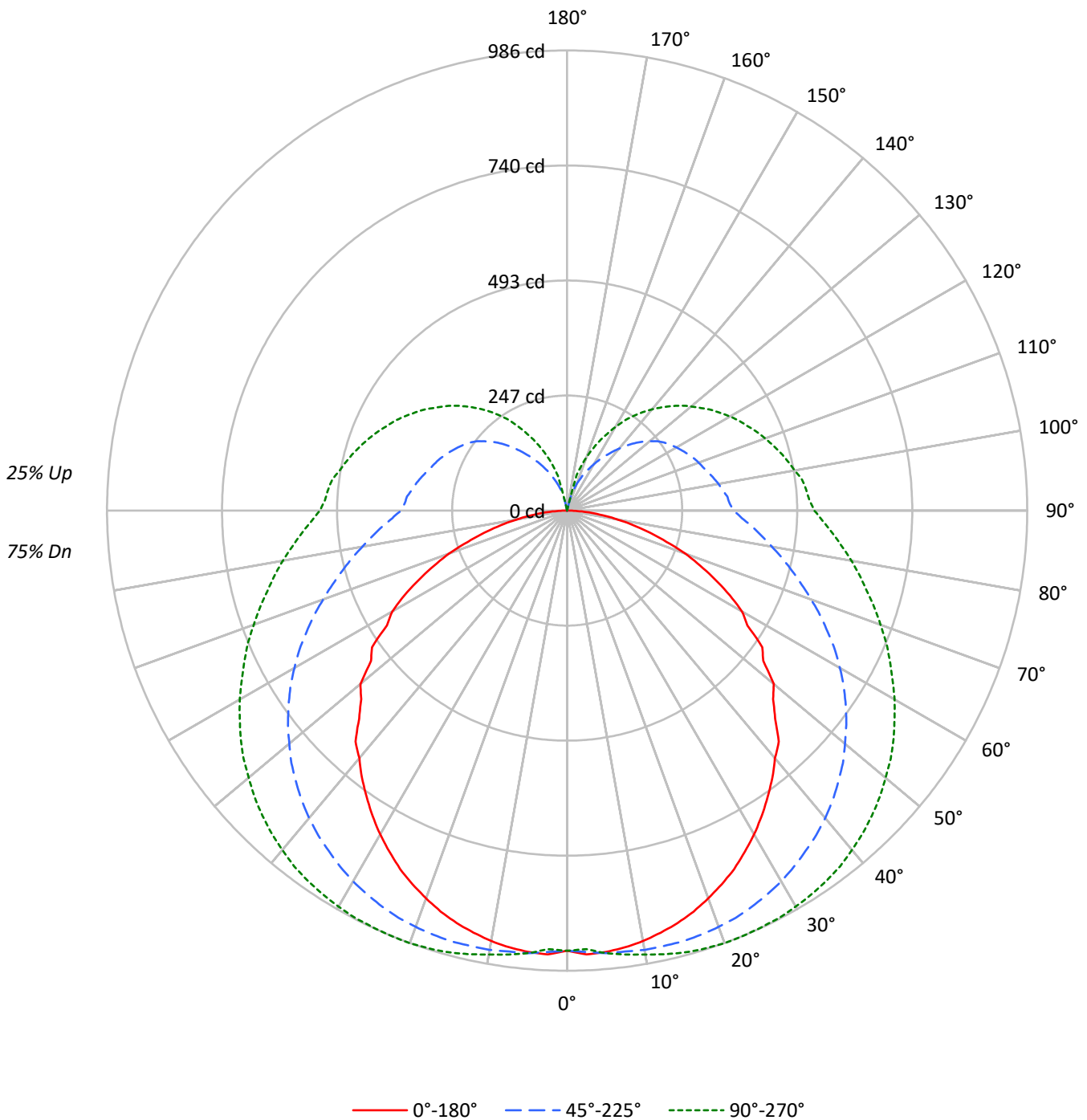
Lumens per Lamp: N/A  
Luminaire Lumens: 5430.0 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75				
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56				
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44				
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36				
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30				
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25				
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22				
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19				
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17				
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15				
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13				

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

	0°	45°	90°
0°	7620	7620	7620
5°	7680	7532	7476
10°	7643	7464	7434
15°	7591	7424	7449
20°	7518	7390	7462
25°	7445	7364	7474
30°	7345	7342	7515
35°	7231	7313	7566
40°	7122	7309	7615
45°	6985	7294	7676
50°	7006	7276	7736
55°	6884	7277	7829
60°	6633	7283	7935
65°	6265	7290	8083
70°	5858	7343	8311
75°	5137	7514	8645
80°	4337	7877	9204
85°	3225	8611	10018



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.6	1.7
10°-20°	268.6	4.9
20°-30°	426.9	7.9
30°-40°	547.9	10.1
40°-50°	618.8	11.4
50°-60°	631.4	11.6
60°-70°	584.9	10.8
70°-80°	495.2	9.1
80°-90°	395.3	7.3
90°-100°	335.7	6.2
100°-110°	299.1	5.5
110°-120°	254.7	4.7
120°-130°	202.3	3.7
130°-140°	143.5	2.6
140°-150°	85.7	1.6
150°-160°	39.9	0.7
160°-170°	9.5	0.2
170°-180°	0.0	0.0
0°-30°	786.2	14.5
0°-40°	1334.1	24.6
0°-60°	2584.3	47.6
0°-90°	4059.7	74.8
90°-120°	889.4	16.4
90°-150°	1320.9	24.3
90°-180°	1370.0	25.2
0°-180°	5430.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	943	943	943	943	943	
5°	949	942	952	952	952	90
15°	915	922	956	974	980	258
25°	847	875	937	970	985	390
35°	749	804	891	946	968	469
45°	630	716	822	893	924	490
55°	510	596	729	818	854	448
65°	350	466	616	722	763	347
75°	184	325	499	621	665	196
85°	47	209	398	527	572	52
90°	3	171	356	485	530	4
95°	0	161	344	471	514	0
105°	0	148	314	433	475	0
115°	0	138	286	389	427	0
125°	0	119	254	343	376	0
135°	0	88	204	290	316	0
145°	0	57	143	217	248	1
155°	1	36	88	133	165	1
165°	1	19	40	55	78	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°	942.9	942.9	942.9	942.9	942.9
2.5°	951.9	941.7	946.8	945.5	940.4
5°	949.3	941.7	951.9	951.9	951.9
7.5°	944.2	939.1	953.1	958.2	959.5
10°	936.6	936.6	955.7	963.4	965.9
12.5°	926.3	930.2	955.7	967.2	973.6
15°	914.9	922.5	955.7	973.6	979.9
17.5°	900.8	913.6	953.1	974.8	983.8
20°	884.2	903.4	949.3	974.8	986.3
22.5°	866.4	890.6	944.2	972.3	986.3
25°	847.2	875.3	936.6	969.7	985.0
27.5°	824.3	860.0	927.6	965.9	983.8
30°	801.3	842.1	917.4	960.8	979.9
32.5°	775.8	823.0	904.7	953.1	974.8
35°	749.0	803.9	890.6	945.5	968.5
37.5°	722.2	780.9	876.6	935.3	960.8
40°	692.8	757.9	860.0	922.5	949.3
42.5°	671.2	733.7	842.1	909.8	937.8
45°	630.3	715.8	821.7	893.2	923.8
47.5°	598.4	681.4	801.3	876.6	908.5
50°	578.0	653.3	777.1	857.4	890.6
52.5°	529.5	634.2	754.1	838.3	874.0
55°	510.4	595.9	728.6	817.9	853.6
57.5°	458.1	569.1	703.1	794.9	831.9
60°	432.6	532.1	675.0	772.0	810.2
62.5°	393.0	500.2	646.9	746.4	786.0
65°	349.6	465.7	616.3	722.2	763.0
67.5°	308.8	431.3	586.9	696.7	740.1
70°	269.2	395.5	556.3	671.2	714.5
72.5°	223.3	359.8	527.0	646.9	690.3
75°	183.7	325.4	498.9	621.4	664.8
77.5°	145.5	292.2	472.1	598.4	641.8
80°	109.7	260.3	445.3	574.2	618.8
82.5°	76.6	233.5	421.1	551.2	594.6
85°	47.2	209.3	398.1	527.0	571.6
87.5°	21.7	187.6	375.1	504.0	549.9
90°	2.6	171.0	356.0	484.9	529.5
92.5°	1.3	165.9	348.3	475.9	519.3
95°	0.0	160.8	344.5	470.8	514.2
97.5°	0.0	155.7	335.6	463.2	507.8
100°	0.0	153.1	329.2	451.7	495.1
102.5°	0.0	149.3	321.5	441.5	484.9
105°	0.0	148.0	313.9	432.6	474.7
107.5°	0.0	145.5	306.2	421.1	463.2
110°	0.0	142.9	299.9	410.9	451.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	140.4	293.5	400.7	440.2
115°	0.0	137.8	285.8	389.2	427.4
117.5°	0.0	134.0	278.2	377.7	416.0
120°	0.0	128.9	270.5	367.5	403.2
122.5°	0.0	123.8	262.8	354.7	389.2
125°	0.0	118.7	253.9	343.2	376.4
127.5°	0.0	111.0	243.7	330.5	361.1
130°	0.0	103.4	230.9	317.7	347.1
132.5°	1.3	95.7	218.2	303.7	333.0
135°	0.0	88.0	204.2	289.6	316.4
137.5°	0.0	81.7	188.8	274.3	299.9
140°	0.0	74.0	173.5	256.5	283.3
142.5°	0.0	65.1	158.2	237.3	265.4
145°	0.0	57.4	142.9	216.9	247.5
147.5°	1.3	51.0	128.9	195.2	228.4
150°	1.3	45.9	114.8	173.5	206.7
152.5°	1.3	40.8	100.8	153.1	185.0
155°	1.3	35.7	88.0	132.7	164.6
157.5°	1.3	30.6	74.0	112.3	142.9
160°	1.3	26.8	61.2	94.4	122.5
162.5°	1.3	23.0	49.8	74.0	100.8
165°	1.3	19.1	39.6	54.9	77.8
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)