

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-LD5-70SL-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-LD5-70SL-SLW-UNV-L930-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

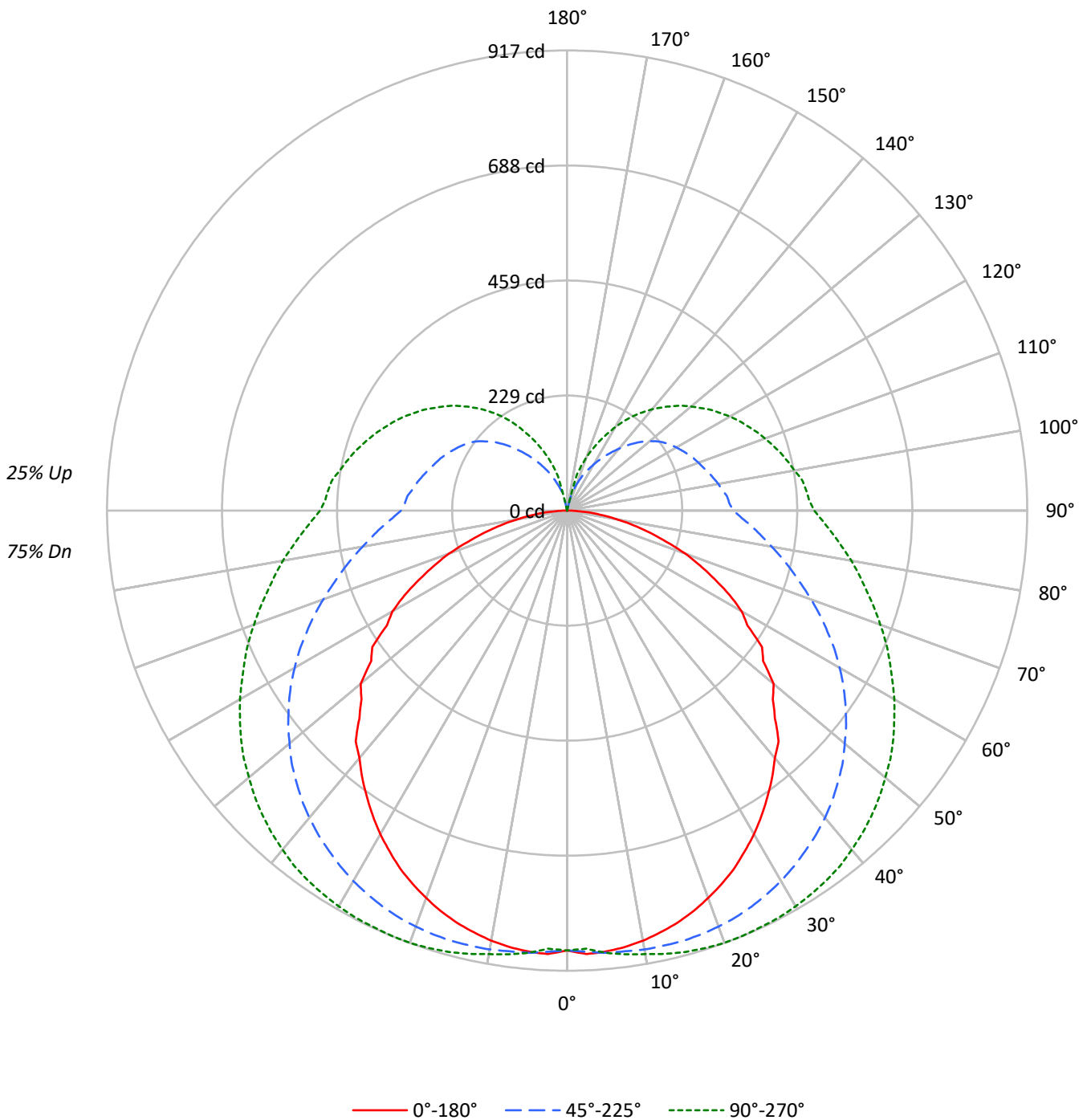
Lumens per Lamp: N/A  
Luminaire Lumens: 5046.0 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 70  
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	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°	7081	7081	7081
5°	7137	7000	6948
10°	7102	6936	6908
15°	7054	6898	6922
20°	6987	6868	6935
25°	6919	6843	6946
30°	6825	6822	6983
35°	6719	6796	7031
40°	6619	6792	7077
45°	6491	6778	7133
50°	6510	6761	7189
55°	6397	6763	7276
60°	6164	6767	7374
65°	5822	6774	7512
70°	5444	6824	7723
75°	4773	6982	8034
80°	4032	7320	8554
85°	2999	8001	9310



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.2	1.7
10°-20°	249.6	4.9
20°-30°	396.7	7.9
30°-40°	509.2	10.1
40°-50°	575.0	11.4
50°-60°	586.7	11.6
60°-70°	543.5	10.8
70°-80°	460.2	9.1
80°-90°	367.3	7.3
90°-100°	311.9	6.2
100°-110°	277.9	5.5
110°-120°	236.7	4.7
120°-130°	188.0	3.7
130°-140°	133.4	2.6
140°-150°	79.6	1.6
150°-160°	37.1	0.7
160°-170°	8.8	0.2
170°-180°	0.0	0.0
0°-30°	730.6	14.5
0°-40°	1239.8	24.6
0°-60°	2401.5	47.6
0°-90°	3772.6	74.8
90°-120°	826.5	16.4
90°-150°	1227.5	24.3
90°-180°	1273.0	25.2
0°-180°	5046.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	882	875	885	885	885	84
15°	850	857	888	905	911	240
25°	787	813	870	901	915	362
35°	696	747	828	879	900	436
45°	586	665	764	830	858	455
55°	474	554	677	760	793	416
65°	325	433	573	671	709	322
75°	171	302	464	577	618	182
85°	44	194	370	490	531	48
90°	2	159	331	451	492	4
95°	0	149	320	438	478	0
105°	0	138	292	402	441	0
115°	0	128	266	362	397	0
125°	0	110	236	319	350	0
135°	0	82	190	269	294	0
145°	0	53	133	202	230	0
155°	1	33	82	123	153	1
165°	1	18	37	51	72	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°	876.3	876.3	876.3	876.3	876.3
2.5°	884.6	875.1	879.8	878.6	873.9
5°	882.2	875.1	884.6	884.6	884.6
7.5°	877.4	872.7	885.7	890.5	891.7
10°	870.3	870.3	888.1	895.2	897.6
12.5°	860.8	864.4	888.1	898.8	904.7
15°	850.2	857.3	888.1	904.7	910.6
17.5°	837.1	849.0	885.7	905.9	914.2
20°	821.7	839.5	882.2	905.9	916.6
22.5°	805.1	827.6	877.4	903.5	916.6
25°	787.3	813.4	870.3	901.2	915.4
27.5°	766.0	799.2	862.0	897.6	914.2
30°	744.6	782.6	852.5	892.9	910.6
32.5°	720.9	764.8	840.7	885.7	905.9
35°	696.0	747.0	827.6	878.6	900.0
37.5°	671.1	725.7	814.6	869.1	892.9
40°	643.9	704.3	799.2	857.3	882.2
42.5°	623.7	681.8	782.6	845.4	871.5
45°	585.7	665.2	763.6	830.0	858.5
47.5°	556.1	633.2	744.6	814.6	844.2
50°	537.1	607.1	722.1	796.8	827.6
52.5°	492.1	589.3	700.8	779.0	812.2
55°	474.3	553.7	677.1	760.1	793.3
57.5°	425.7	528.8	653.3	738.7	773.1
60°	402.0	494.4	627.2	717.4	752.9
62.5°	365.2	464.8	601.2	693.7	730.4
65°	324.9	432.8	572.7	671.1	709.1
67.5°	286.9	400.8	545.4	647.4	687.7
70°	250.2	367.6	517.0	623.7	664.0
72.5°	207.5	334.4	489.7	601.2	641.5
75°	170.7	302.4	463.6	577.4	617.8
77.5°	135.2	271.5	438.7	556.1	596.4
80°	102.0	241.9	413.8	533.6	575.1
82.5°	71.1	217.0	391.3	512.2	552.5
85°	43.9	194.5	369.9	489.7	531.2
87.5°	20.2	174.3	348.6	468.4	511.0
90°	2.4	158.9	330.8	450.6	492.1
92.5°	1.2	154.1	323.7	442.3	482.6
95°	0.0	149.4	320.1	437.5	477.8
97.5°	0.0	144.7	311.8	430.4	471.9
100°	0.0	142.3	305.9	419.7	460.1
102.5°	0.0	138.7	298.8	410.3	450.6
105°	0.0	137.5	291.7	402.0	441.1
107.5°	0.0	135.2	284.6	391.3	430.4
110°	0.0	132.8	278.6	381.8	419.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	130.4	272.7	372.3	409.1
115°	0.0	128.1	265.6	361.6	397.2
117.5°	0.0	124.5	258.5	351.0	386.5
120°	0.0	119.8	251.4	341.5	374.7
122.5°	0.0	115.0	244.3	329.6	361.6
125°	0.0	110.3	236.0	319.0	349.8
127.5°	0.0	103.2	226.5	307.1	335.6
130°	0.0	96.0	214.6	295.2	322.5
132.5°	1.2	88.9	202.8	282.2	309.5
135°	0.0	81.8	189.7	269.2	294.1
137.5°	0.0	75.9	175.5	254.9	278.6
140°	0.0	68.8	161.3	238.3	263.2
142.5°	0.0	60.5	147.0	220.5	246.6
145°	0.0	53.4	132.8	201.6	230.0
147.5°	1.2	47.4	119.8	181.4	212.2
150°	1.2	42.7	106.7	161.3	192.1
152.5°	1.2	37.9	93.7	142.3	171.9
155°	1.2	33.2	81.8	123.3	153.0
157.5°	1.2	28.5	68.8	104.3	132.8
160°	1.2	24.9	56.9	87.7	113.8
162.5°	1.2	21.3	46.2	68.8	93.7
165°	1.2	17.8	36.8	51.0	72.3
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)