

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-LD5-63HL-SLN-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 (P27402)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-63HL-SLN-UNV-L935-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

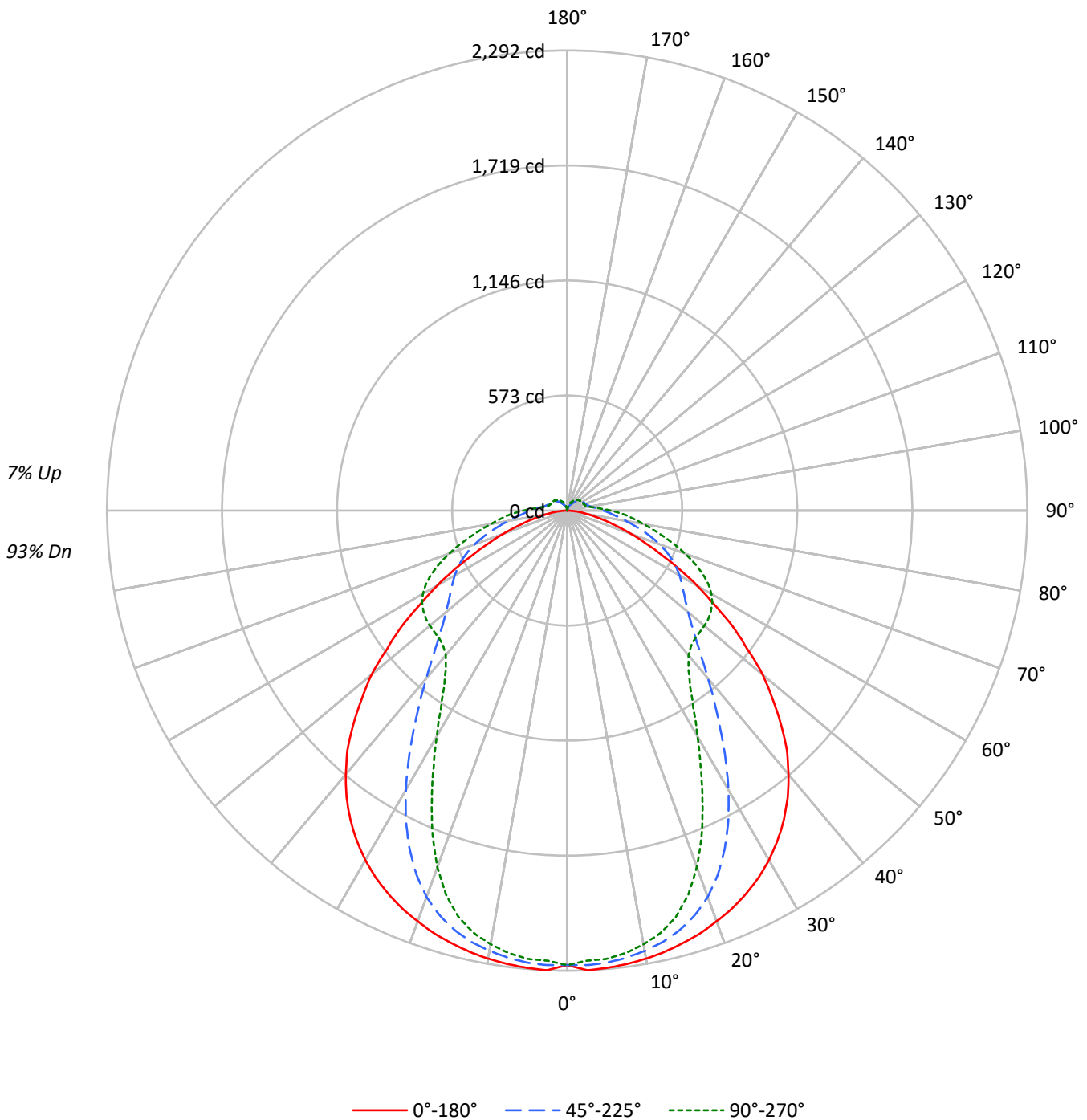
Lumens per Lamp: N/A  
Luminaire Lumens: 5692.0 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 48  
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

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

	0°	45°	90°
0°	18291	18291	18291
5°	18501	17886	17606
10°	18495	17392	16882
15°	18501	16809	15919
20°	18509	15943	14297
25°	18517	14609	12107
30°	18429	12855	9958
35°	18166	10937	8345
40°	17634	9263	7544
45°	16699	8050	7487
50°	15427	7359	7750
55°	13585	7073	8021
60°	11462	6973	8131
65°	9218	6818	7877
70°	7405	6467	7265
75°	5584	5851	6448
80°	4123	5256	5735
85°	2753	4958	5275



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.1	3.8
10°-20°	605.2	10.6
20°-30°	846.1	14.9
30°-40°	877.6	15.4
40°-50°	810.8	14.2
50°-60°	723.8	12.7
60°-70°	586.6	10.3
70°-80°	390.2	6.9
80°-90°	223.4	3.9
90°-100°	123.6	2.2
100°-110°	83.7	1.5
110°-120°	69.7	1.2
120°-130°	56.7	1.0
130°-140°	40.9	0.7
140°-150°	24.6	0.4
150°-160°	11.8	0.2
160°-170°	3.1	0.1
170°-180°	0.0	0.0
0°-30°	1665.4	29.3
0°-40°	2543.0	44.7
0°-60°	4077.6	71.6
0°-90°	5277.9	92.7
90°-120°	277.0	4.9
90°-150°	399.2	7.0
90°-180°	414.0	7.3
0°-180°	5692.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2263	2263	2263	2263	2263	
5°	2287	2249	2260	2245	2242	218
15°	2230	2183	2164	2115	2094	630
25°	2107	2014	1858	1663	1596	971
35°	1882	1675	1332	1118	1068	1174
45°	1507	1194	907	874	901	1159
55°	1007	761	708	823	874	896
65°	514	460	576	706	744	520
75°	200	250	388	476	496	219
85°	40	116	229	293	301	46
90°	2	82	181	218	216	3
95°	2	69	144	153	148	1
105°	1	60	103	100	95	1
115°	1	54	92	90	88	1
125°	1	46	81	85	83	1
135°	2	34	64	75	75	1
145°	2	22	44	58	62	1
155°	2	14	28	36	44	1
165°	2	8	14	18	24	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°	2263.4	2263.4	2263.4	2263.4	2263.4
2.5°	2291.9	2254.5	2266.3	2256.5	2243.7
5°	2287.0	2248.6	2260.4	2244.7	2241.7
7.5°	2278.1	2239.8	2246.6	2228.0	2223.0
10°	2266.3	2226.0	2227.0	2200.4	2193.5
12.5°	2250.6	2206.3	2200.4	2164.0	2154.2
15°	2229.9	2182.7	2164.0	2114.8	2094.2
17.5°	2207.3	2152.2	2113.9	2038.1	2005.7
20°	2176.8	2114.8	2047.9	1932.9	1889.6
22.5°	2146.3	2069.6	1962.4	1808.9	1750.9
25°	2107.0	2013.5	1858.1	1663.3	1595.5
27.5°	2062.7	1947.6	1738.1	1513.8	1441.0
30°	2010.6	1867.9	1606.3	1367.3	1298.4
32.5°	1949.6	1778.4	1467.6	1235.5	1171.5
35°	1881.7	1675.1	1331.9	1118.4	1068.2
37.5°	1804.0	1562.0	1205.9	1024.0	991.5
40°	1715.5	1439.1	1089.9	951.2	940.4
42.5°	1620.1	1319.1	990.5	904.0	913.8
45°	1506.9	1194.1	906.9	874.5	901.0
47.5°	1387.9	1072.2	839.0	857.7	896.1
50°	1272.8	959.1	785.9	846.9	892.2
52.5°	1130.2	857.7	743.6	837.1	886.3
55°	1007.3	761.3	708.2	823.3	874.5
57.5°	865.6	674.8	676.7	805.6	856.8
60°	747.6	596.1	646.3	781.0	830.2
62.5°	627.6	525.3	612.8	748.6	792.8
65°	514.4	460.3	576.4	706.3	743.6
67.5°	420.0	401.3	535.1	655.1	686.6
70°	340.3	347.2	489.9	598.1	624.6
72.5°	261.6	297.1	440.7	537.1	559.7
75°	199.7	249.8	388.5	476.1	495.8
77.5°	147.5	208.5	341.3	421.0	437.7
80°	104.3	172.1	297.1	372.8	385.6
82.5°	69.8	141.6	260.7	329.5	341.3
85°	40.3	116.1	229.2	293.1	301.0
87.5°	16.7	96.4	203.6	255.7	259.7
90°	2.0	81.6	181.0	218.4	216.4
92.5°	2.0	73.8	161.3	183.0	178.0
95°	2.0	68.9	143.6	153.4	148.5
97.5°	2.0	65.9	127.9	131.8	126.9
100°	1.0	63.9	117.1	117.1	112.1
102.5°	1.0	62.0	109.2	106.2	102.3
105°	1.0	60.0	103.3	100.3	95.4
107.5°	1.0	59.0	99.3	96.4	91.5
110°	1.0	57.1	96.4	93.4	89.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	56.1	94.4	92.5	87.5
115°	1.0	54.1	91.5	90.5	87.5
117.5°	1.0	52.1	89.5	89.5	86.6
120°	1.0	50.2	86.6	88.5	85.6
122.5°	1.0	48.2	83.6	86.6	83.6
125°	1.0	46.2	80.7	84.6	82.6
127.5°	2.0	43.3	76.7	82.6	80.7
130°	1.0	40.3	72.8	80.7	79.7
132.5°	2.0	37.4	68.9	77.7	77.7
135°	2.0	34.4	63.9	74.8	74.8
137.5°	2.0	30.5	59.0	70.8	71.8
140°	2.0	27.5	54.1	66.9	68.9
142.5°	2.0	24.6	49.2	63.0	65.9
145°	2.0	21.6	44.3	58.0	62.0
147.5°	2.0	19.7	39.3	52.1	58.0
150°	2.0	16.7	35.4	47.2	53.1
152.5°	2.0	14.8	31.5	42.3	49.2
155°	2.0	13.8	27.5	36.4	44.3
157.5°	2.0	11.8	23.6	31.5	39.3
160°	2.0	9.8	19.7	27.5	33.4
162.5°	2.0	8.9	16.7	22.6	29.5
165°	2.0	7.9	13.8	17.7	23.6
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)