

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-LD5-63SL-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-LD5-63SL-SLC-UNV-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

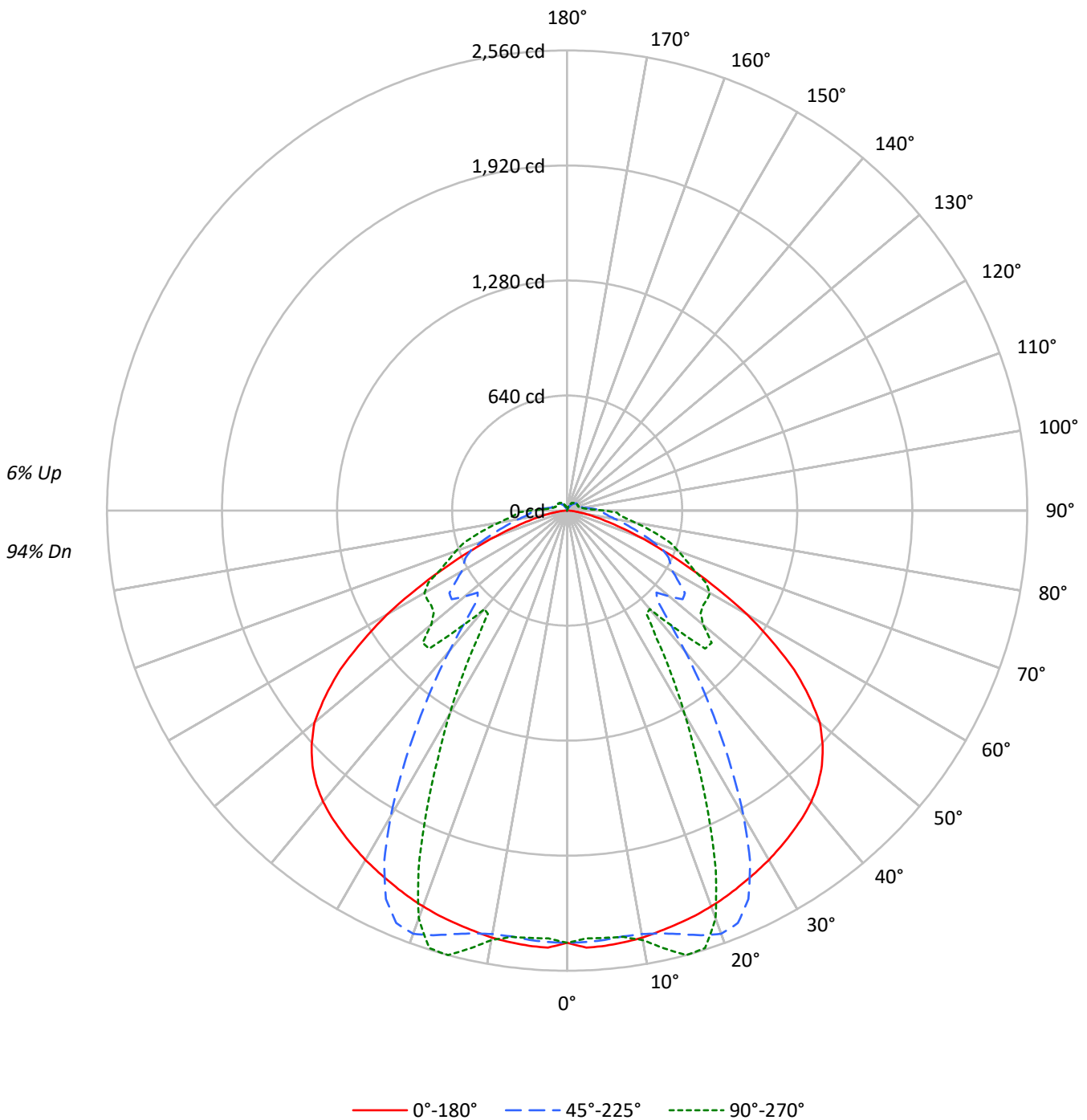
Lumens per Lamp: N/A
Luminaire Lumens: 6175.0 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): 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°	19426	19426	19426
5°	19662	18971	18738
10°	19687	18682	18673
15°	19741	18945	19462
20°	19924	19509	18268
25°	20172	18749	14066
30°	20570	15704	10005
35°	21080	11893	6775
40°	21725	8646	5737
45°	22217	6272	9019
50°	22248	6945	8559
55°	20795	7992	8452
60°	17718	7314	8984
65°	13329	7376	8218
70°	9354	6715	7649
75°	6129	5625	6864
80°	3914	4819	5714
85°	2111	4581	5128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	3.7
10°-20°	690.6	11.2
20°-30°	1003.3	16.2
30°-40°	958.6	15.5
40°-50°	876.8	14.2
50°-60°	809.6	13.1
60°-70°	643.1	10.4
70°-80°	396.9	6.4
80°-90°	216.1	3.5
90°-100°	109.2	1.8
100°-110°	68.6	1.1
110°-120°	58.2	0.9
120°-130°	47.5	0.8
130°-140°	34.1	0.6
140°-150°	21.0	0.3
150°-160°	10.0	0.2
160°-170°	2.6	0.0
170°-180°	0.0	0.0
0°-30°	1922.6	31.1
0°-40°	2881.2	46.7
0°-60°	4567.7	74.0
0°-90°	5823.8	94.3
90°-120°	236.0	3.8
90°-150°	338.6	5.5
90°-180°	351.0	5.7
0°-180°	6175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2404	2404	2404	2404	2404	
5°	2430	2393	2398	2385	2386	231
15°	2379	2348	2439	2529	2560	673
25°	2295	2340	2385	2019	1854	1061
35°	2184	2148	1448	997	867	1369
45°	2005	1398	707	901	1085	1541
55°	1542	717	800	861	922	1358
65°	744	465	624	758	776	752
75°	219	248	374	495	528	249
85°	31	105	212	288	293	39
90°	1	79	189	224	208	2
95°	0	73	131	116	110	0
105°	0	66	81	73	72	0
115°	0	54	78	69	66	1
125°	1	44	69	67	64	1
135°	1	31	55	61	58	1
145°	1	19	38	49	52	1
155°	2	12	23	31	37	1
165°	2	6	12	15	20	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°	2403.9	2403.9	2403.9	2403.9	2403.9
2.5°	2433.7	2398.5	2402.8	2395.4	2382.6
5°	2430.5	2393.2	2397.5	2384.7	2385.8
7.5°	2422.0	2383.7	2389.0	2386.8	2392.2
10°	2412.4	2371.9	2392.2	2410.3	2426.2
12.5°	2395.4	2359.2	2408.1	2461.3	2494.3
15°	2379.4	2347.5	2439.0	2529.4	2560.3
17.5°	2363.4	2343.2	2477.3	2556.0	2551.8
20°	2343.2	2341.1	2506.0	2479.4	2414.5
22.5°	2320.9	2342.1	2483.7	2288.9	2161.2
25°	2295.3	2340.0	2384.7	2018.7	1853.7
27.5°	2269.8	2330.4	2204.9	1722.8	1560.0
30°	2244.2	2304.9	1962.3	1452.5	1304.6
32.5°	2214.5	2249.6	1698.4	1213.1	1076.9
35°	2183.6	2148.5	1448.3	997.1	867.3
37.5°	2151.7	2002.7	1223.7	807.7	724.7
40°	2113.4	1819.7	1017.3	692.7	715.1
42.5°	2065.5	1613.2	835.3	726.8	882.2
45°	2004.8	1398.3	706.6	901.3	1085.4
47.5°	1928.2	1191.8	674.7	1032.2	1089.7
50°	1835.6	1002.4	741.7	989.6	985.4
52.5°	1695.2	844.9	809.8	902.4	936.4
55°	1541.9	717.2	800.2	860.9	921.5
57.5°	1348.3	631.0	734.2	852.4	922.6
60°	1155.6	573.6	677.9	851.3	917.3
62.5°	942.8	521.4	649.1	831.1	870.5
65°	743.8	465.0	623.6	757.7	775.8
67.5°	570.4	407.6	578.9	675.7	711.9
70°	429.9	351.2	508.7	612.9	657.6
72.5°	309.7	298.0	436.3	557.6	604.4
75°	219.2	247.9	373.5	494.8	527.8
77.5°	151.1	202.2	320.3	425.7	452.3
80°	99.0	161.7	272.4	366.1	384.2
82.5°	59.6	129.8	236.2	320.3	329.9
85°	30.9	105.3	211.8	288.4	292.6
87.5°	9.6	88.3	197.9	273.5	278.8
90°	1.1	78.7	189.4	224.5	207.5
92.5°	0.0	74.5	163.9	153.2	137.3
95°	0.0	73.4	130.9	116.0	109.6
97.5°	0.0	71.3	107.5	96.8	93.6
100°	0.0	69.2	92.6	85.1	84.1
102.5°	0.0	68.1	84.1	77.7	76.6
105°	0.0	66.0	80.9	73.4	72.4
107.5°	0.0	62.8	78.7	71.3	69.2
110°	0.0	59.6	78.7	70.2	67.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	56.4	78.7	69.2	66.0
115°	0.0	54.3	77.7	69.2	66.0
117.5°	1.1	52.1	76.6	69.2	66.0
120°	0.0	50.0	74.5	69.2	64.9
122.5°	1.1	46.8	72.4	68.1	64.9
125°	1.1	43.6	69.2	67.0	63.8
127.5°	1.1	40.4	66.0	64.9	61.7
130°	1.1	37.2	62.8	63.8	60.7
132.5°	1.1	34.1	58.5	61.7	59.6
135°	1.1	30.9	55.3	60.7	58.5
137.5°	1.1	27.7	51.1	57.5	57.5
140°	1.1	24.5	46.8	55.3	56.4
142.5°	1.1	22.3	42.6	53.2	54.3
145°	1.1	19.2	38.3	48.9	52.1
147.5°	1.1	17.0	34.1	44.7	48.9
150°	1.1	14.9	29.8	40.4	44.7
152.5°	1.1	12.8	26.6	35.1	41.5
155°	2.1	11.7	23.4	30.9	37.2
157.5°	2.1	9.6	19.2	26.6	31.9
160°	2.1	8.5	17.0	22.3	28.7
162.5°	2.1	7.4	13.8	19.2	24.5
165°	2.1	6.4	11.7	14.9	20.2
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)