

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-L940-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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

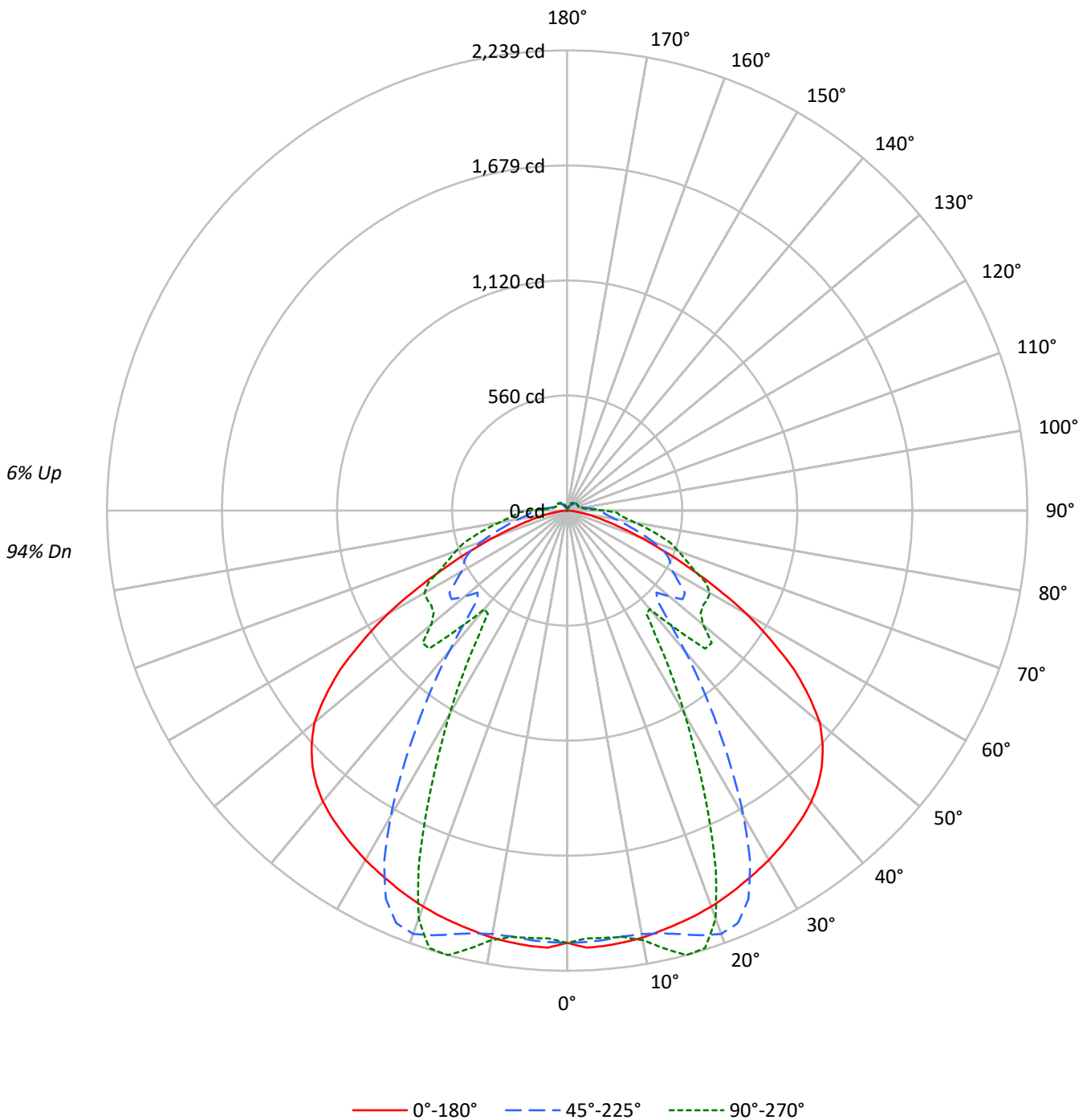
Lumens per Lamp: N/A
Luminaire Lumens: 5401.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 52
Input Voltage (V): NR
Input Current (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	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°	16991	16991	16991
5°	17197	16593	16389
10°	17219	16340	16332
15°	17267	16571	17023
20°	17427	17064	15979
25°	17643	16399	12303
30°	17992	13735	8751
35°	18438	10402	5926
40°	19002	7562	5018
45°	19432	5485	7889
50°	19459	6074	7487
55°	18190	6990	7393
60°	15498	6397	7858
65°	11659	6451	7188
70°	8181	5873	6690
75°	5360	4920	6004
80°	3423	4216	4997
85°	1845	4006	4487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.0	3.7
10°-20°	604.1	11.2
20°-30°	877.5	16.2
30°-40°	838.4	15.5
40°-50°	766.9	14.2
50°-60°	708.1	13.1
60°-70°	562.5	10.4
70°-80°	347.2	6.4
80°-90°	189.1	3.5
90°-100°	95.6	1.8
100°-110°	60.0	1.1
110°-120°	50.9	0.9
120°-130°	41.5	0.8
130°-140°	29.8	0.6
140°-150°	18.4	0.3
150°-160°	8.7	0.2
160°-170°	2.3	0.0
170°-180°	0.0	0.0
0°-30°	1681.6	31.1
0°-40°	2520.1	46.7
0°-60°	3995.1	74.0
0°-90°	5093.9	94.3
90°-120°	206.5	3.8
90°-150°	296.2	5.5
90°-180°	307.0	5.7
0°-180°	5401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2103	2103	2103	2103	2103	
5°	2126	2093	2097	2086	2087	202
15°	2081	2053	2133	2212	2239	589
25°	2008	2047	2086	1766	1621	928
35°	1910	1879	1267	872	759	1198
45°	1754	1223	618	788	949	1348
55°	1349	627	700	753	806	1188
65°	651	407	545	663	678	658
75°	192	217	327	433	462	217
85°	27	92	185	252	256	34
90°	1	69	166	196	182	1
95°	0	64	114	102	96	0
105°	0	58	71	64	63	0
115°	0	48	68	60	58	0
125°	1	38	60	59	56	1
135°	1	27	48	53	51	1
145°	1	17	34	43	46	1
155°	2	10	20	27	33	1
165°	2	6	10	13	18	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°	2102.6	2102.6	2102.6	2102.6	2102.6
2.5°	2128.6	2097.9	2101.6	2095.1	2083.9
5°	2125.8	2093.3	2097.0	2085.8	2086.7
7.5°	2118.4	2084.9	2089.5	2087.7	2092.3
10°	2110.0	2074.6	2092.3	2108.1	2122.1
12.5°	2095.1	2063.5	2106.3	2152.8	2181.7
15°	2081.2	2053.2	2133.3	2212.4	2239.4
17.5°	2067.2	2049.5	2166.8	2235.7	2231.9
20°	2049.5	2047.6	2191.9	2168.6	2111.9
22.5°	2030.0	2048.6	2172.4	2002.0	1890.3
25°	2007.6	2046.7	2085.8	1765.6	1621.4
27.5°	1985.3	2038.3	1928.5	1506.9	1364.5
30°	1962.9	2016.0	1716.3	1270.5	1141.1
32.5°	1936.9	1967.6	1485.5	1061.1	941.9
35°	1909.9	1879.2	1266.7	872.1	758.6
37.5°	1882.0	1751.7	1070.4	706.4	633.8
40°	1848.5	1591.6	889.8	605.9	625.5
42.5°	1806.6	1411.0	730.6	635.7	771.6
45°	1753.5	1223.0	618.0	788.3	949.4
47.5°	1686.5	1042.4	590.1	902.8	953.1
50°	1605.5	876.8	648.7	865.6	861.9
52.5°	1482.7	739.0	708.3	789.3	819.1
55°	1348.7	627.3	699.9	753.0	806.0
57.5°	1179.3	551.9	642.2	745.5	807.0
60°	1010.8	501.7	592.9	744.6	802.3
62.5°	824.6	456.1	567.8	726.9	761.4
65°	650.6	406.7	545.4	662.7	678.5
67.5°	498.9	356.5	506.3	591.0	622.7
70°	376.0	307.1	444.9	536.1	575.2
72.5°	270.8	260.6	381.6	487.7	528.7
75°	191.7	216.9	326.7	432.8	461.7
77.5°	132.2	176.8	280.2	372.3	395.6
80°	86.6	141.5	238.3	320.2	336.0
82.5°	52.1	113.6	206.6	280.2	288.5
85°	27.0	92.1	185.2	252.2	256.0
87.5°	8.4	77.3	173.1	239.2	243.9
90°	0.9	68.9	165.7	196.4	181.5
92.5°	0.0	65.2	143.3	134.0	120.1
95°	0.0	64.2	114.5	101.5	95.9
97.5°	0.0	62.4	94.0	84.7	81.9
100°	0.0	60.5	81.0	74.5	73.5
102.5°	0.0	59.6	73.5	67.9	67.0
105°	0.0	57.7	70.7	64.2	63.3
107.5°	0.0	54.9	68.9	62.4	60.5
110°	0.0	52.1	68.9	61.4	58.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	49.3	68.9	60.5	57.7
115°	0.0	47.5	67.9	60.5	57.7
117.5°	0.9	45.6	67.0	60.5	57.7
120°	0.0	43.7	65.2	60.5	56.8
122.5°	0.9	41.0	63.3	59.6	56.8
125°	0.9	38.2	60.5	58.6	55.8
127.5°	0.9	35.4	57.7	56.8	54.0
130°	0.9	32.6	54.9	55.8	53.1
132.5°	0.9	29.8	51.2	54.0	52.1
135°	0.9	27.0	48.4	53.1	51.2
137.5°	0.9	24.2	44.7	50.3	50.3
140°	0.9	21.4	41.0	48.4	49.3
142.5°	0.9	19.5	37.2	46.5	47.5
145°	0.9	16.8	33.5	42.8	45.6
147.5°	0.9	14.9	29.8	39.1	42.8
150°	0.9	13.0	26.1	35.4	39.1
152.5°	0.9	11.2	23.3	30.7	36.3
155°	1.9	10.2	20.5	27.0	32.6
157.5°	1.9	8.4	16.8	23.3	27.9
160°	1.9	7.4	14.9	19.5	25.1
162.5°	1.9	6.5	12.1	16.8	21.4
165°	1.9	5.6	10.2	13.0	17.7
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)