

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-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 (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-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

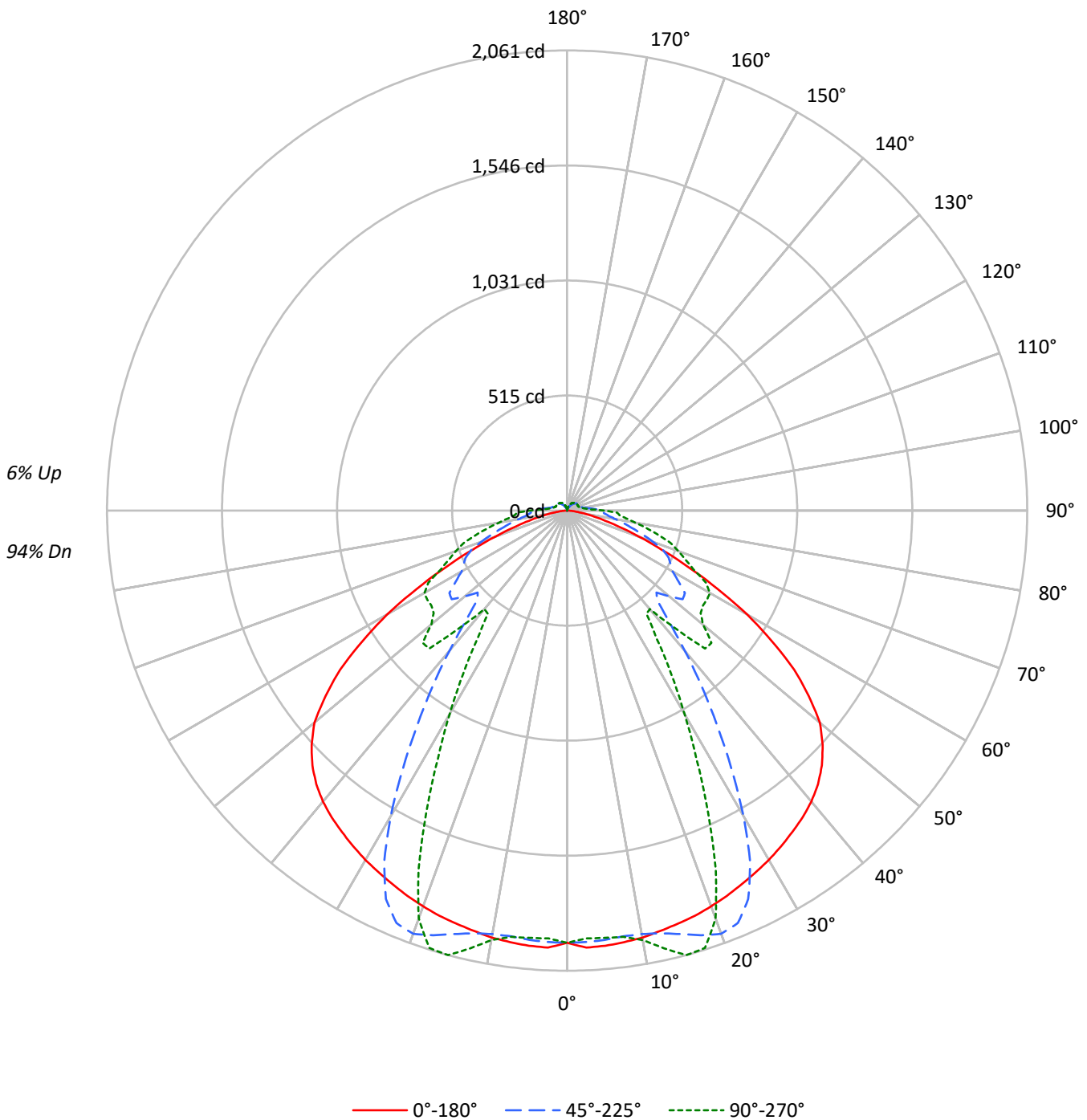
Lumens per Lamp: N/A
Luminaire Lumens: 4971.1 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	15638	15638	15638
5°	15828	15272	15084
10°	15848	15039	15032
15°	15892	15251	15667
20°	16039	15705	14706
25°	16239	15093	11324
30°	16560	12642	8054
35°	16970	9574	5454
40°	17488	6960	4618
45°	17885	5049	7261
50°	17910	5591	6891
55°	16741	6434	6805
60°	14264	5888	7232
65°	10731	5938	6616
70°	7531	5405	6158
75°	4935	4529	5526
80°	3151	3879	4599
85°	1694	3688	4129



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	3.7
10°-20°	556.0	11.2
20°-30°	807.7	16.2
30°-40°	771.7	15.5
40°-50°	705.9	14.2
50°-60°	651.8	13.1
60°-70°	517.7	10.4
70°-80°	319.5	6.4
80°-90°	174.0	3.5
90°-100°	88.0	1.8
100°-110°	55.3	1.1
110°-120°	46.8	0.9
120°-130°	38.2	0.8
130°-140°	27.4	0.6
140°-150°	16.9	0.3
150°-160°	8.0	0.2
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	1547.7	31.1
0°-40°	2319.4	46.7
0°-60°	3677.1	74.0
0°-90°	4688.3	94.3
90°-120°	190.0	3.8
90°-150°	272.6	5.5
90°-180°	283.0	5.7
0°-180°	4971.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1935	1935	1935	1935	1935	
5°	1957	1927	1930	1920	1921	186
15°	1916	1890	1963	2036	2061	542
25°	1848	1884	1920	1625	1492	854
35°	1758	1730	1166	803	698	1102
45°	1614	1126	569	726	874	1240
55°	1241	577	644	693	742	1093
65°	599	374	502	610	624	606
75°	176	200	301	398	425	200
85°	25	85	170	232	236	32
90°	1	63	152	181	167	1
95°	0	59	105	93	88	0
105°	0	53	65	59	58	0
115°	0	44	62	56	53	0
125°	1	35	56	54	51	1
135°	1	25	44	49	47	1
145°	1	15	31	39	42	1
155°	2	9	19	25	30	1
165°	2	5	9	12	16	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°	1935.2	1935.2	1935.2	1935.2	1935.2
2.5°	1959.1	1930.9	1934.3	1928.3	1918.0
5°	1956.6	1926.6	1930.0	1919.7	1920.6
7.5°	1949.7	1918.9	1923.2	1921.5	1925.7
10°	1942.0	1909.5	1925.7	1940.3	1953.2
12.5°	1928.3	1899.2	1938.6	1981.4	2008.0
15°	1915.5	1889.8	1963.4	2036.2	2061.1
17.5°	1902.6	1886.3	1994.3	2057.7	2054.2
20°	1886.3	1884.6	2017.4	1996.0	1943.7
22.5°	1868.3	1885.5	1999.4	1842.6	1739.8
25°	1847.8	1883.8	1919.7	1625.1	1492.3
27.5°	1827.2	1876.1	1775.0	1386.9	1255.8
30°	1806.7	1855.5	1579.7	1169.3	1050.2
32.5°	1782.7	1810.9	1367.2	976.6	866.9
35°	1757.8	1729.6	1165.9	802.7	698.2
37.5°	1732.1	1612.2	985.1	650.2	583.4
40°	1701.3	1464.9	819.0	557.7	575.7
42.5°	1662.7	1298.7	672.5	585.1	710.2
45°	1613.9	1125.6	568.8	725.6	873.8
47.5°	1552.2	959.4	543.1	830.9	877.2
50°	1477.7	807.0	597.1	796.7	793.3
52.5°	1364.6	680.2	651.9	726.4	753.8
55°	1241.3	577.4	644.2	693.0	741.9
57.5°	1085.4	508.0	591.1	686.2	742.7
60°	930.3	461.7	545.7	685.3	738.4
62.5°	759.0	419.8	522.6	669.0	700.7
65°	598.8	374.4	502.0	609.9	624.5
67.5°	459.2	328.1	466.0	544.0	573.1
70°	346.1	282.7	409.5	493.4	529.4
72.5°	249.3	239.9	351.2	448.9	486.6
75°	176.5	199.6	300.7	398.3	424.9
77.5°	121.6	162.8	257.9	342.7	364.1
80°	79.7	130.2	219.3	294.7	309.2
82.5°	48.0	104.5	190.2	257.9	265.6
85°	24.8	84.8	170.5	232.2	235.6
87.5°	7.7	71.1	159.3	220.2	224.4
90°	0.9	63.4	152.5	180.8	167.0
92.5°	0.0	60.0	131.9	123.4	110.5
95°	0.0	59.1	105.4	93.4	88.2
97.5°	0.0	57.4	86.5	78.0	75.4
100°	0.0	55.7	74.5	68.5	67.7
102.5°	0.0	54.8	67.7	62.5	61.7
105°	0.0	53.1	65.1	59.1	58.3
107.5°	0.0	50.5	63.4	57.4	55.7
110°	0.0	48.0	63.4	56.5	54.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	45.4	63.4	55.7	53.1
115°	0.0	43.7	62.5	55.7	53.1
117.5°	0.9	42.0	61.7	55.7	53.1
120°	0.0	40.3	60.0	55.7	52.3
122.5°	0.9	37.7	58.3	54.8	52.3
125°	0.9	35.1	55.7	54.0	51.4
127.5°	0.9	32.6	53.1	52.3	49.7
130°	0.9	30.0	50.5	51.4	48.8
132.5°	0.9	27.4	47.1	49.7	48.0
135°	0.9	24.8	44.5	48.8	47.1
137.5°	0.9	22.3	41.1	46.3	46.3
140°	0.9	19.7	37.7	44.5	45.4
142.5°	0.9	18.0	34.3	42.8	43.7
145°	0.9	15.4	30.8	39.4	42.0
147.5°	0.9	13.7	27.4	36.0	39.4
150°	0.9	12.0	24.0	32.6	36.0
152.5°	0.9	10.3	21.4	28.3	33.4
155°	1.7	9.4	18.8	24.8	30.0
157.5°	1.7	7.7	15.4	21.4	25.7
160°	1.7	6.9	13.7	18.0	23.1
162.5°	1.7	6.0	11.1	15.4	19.7
165°	1.7	5.1	9.4	12.0	16.3
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)