

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: P289699

Luminaire Tested: **8SSRK-50-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-50-L850-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH NO LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5621.4 lumens
Efficiency: N/A
Efficacy: 164.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

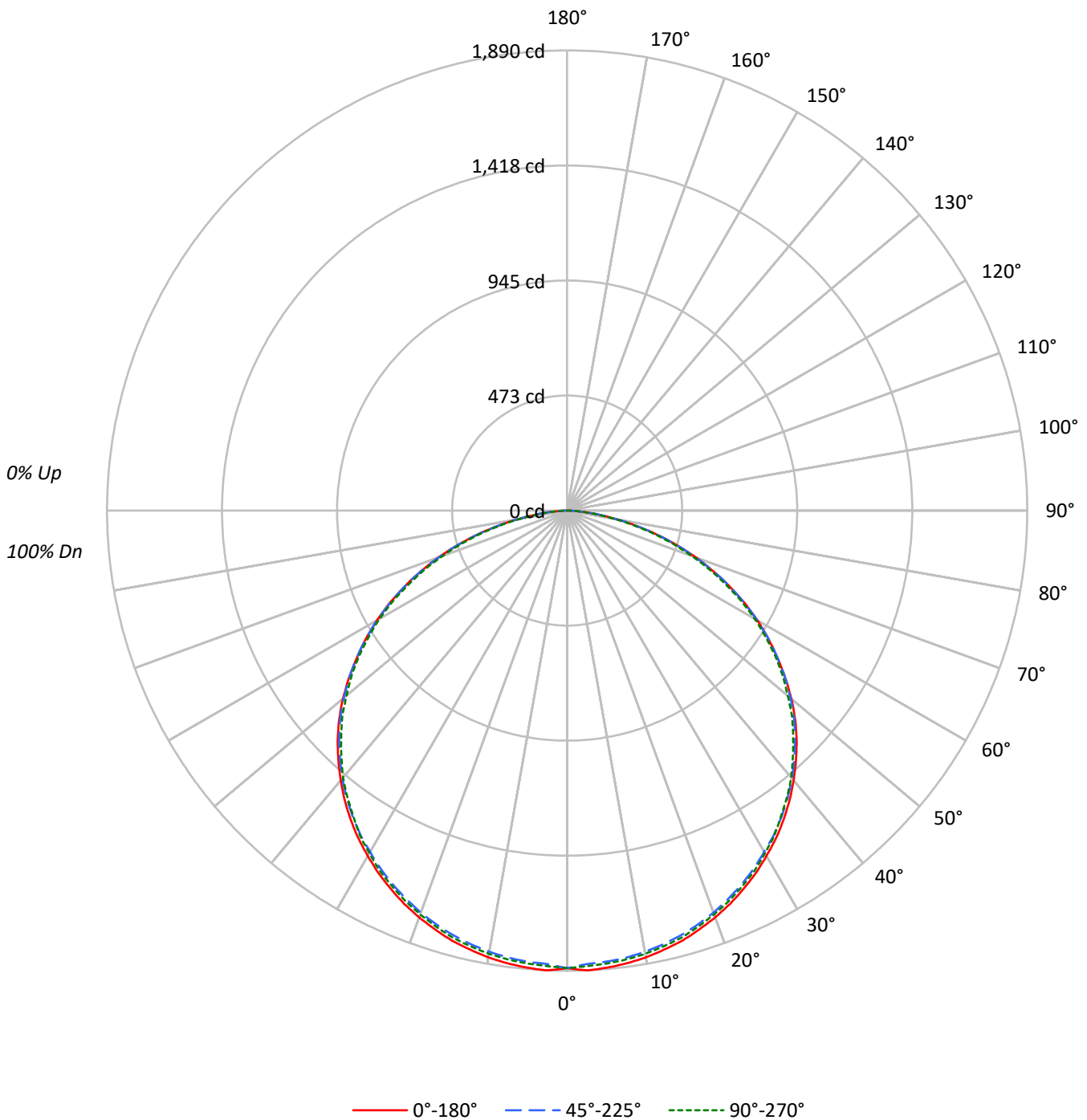
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	60685	60685	60685
5°	60968	48271	44844
10°	60873	40182	35541
15°	60795	34265	29298
20°	60639	29672	24697
25°	60496	25960	21172
30°	60343	22848	18307
35°	60223	20235	15890
40°	59944	17884	13856
45°	59641	15732	11990
50°	58931	13713	10301
55°	57657	11746	8757
60°	56225	9833	7252
65°	53817	7928	5727
70°	50367	5991	4276
75°	44268	4096	2894
80°	35041	2288	1562
85°	22563	827	515



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	3.2
10°-20°	513.1	9.1
20°-30°	786.4	14.0
30°-40°	964.0	17.1
40°-50°	1021.2	18.2
50°-60°	941.6	16.8
60°-70°	723.6	12.9
70°-80°	401.1	7.1
80°-90°	92.3	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1477.7	26.3
0°-40°	2441.6	43.4
0°-60°	4404.5	78.4
0°-90°	5621.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5621.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1879	1879	1879	1879	1879	
5°	1884	1876	1860	1878	1868	179
15°	1829	1820	1806	1822	1816	516
25°	1714	1708	1695	1712	1703	791
35°	1550	1543	1535	1541	1532	970
45°	1333	1329	1324	1322	1313	1027
55°	1055	1063	1056	1052	1044	943
65°	736	738	736	726	718	727
75°	382	383	381	375	369	404
85°	75	77	75	71	65	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1879.3	1879.3	1879.3	1879.3	1879.3
2.5°	1890.5	1881.2	1863.9	1881.2	1872.5
5°	1884.3	1876.2	1859.6	1877.5	1867.6
7.5°	1875.6	1868.8	1852.1	1869.4	1859.6
10°	1863.3	1855.9	1839.8	1858.3	1848.4
12.5°	1846.6	1839.8	1824.3	1841.6	1833.0
15°	1828.7	1820.0	1805.8	1821.9	1815.7
17.5°	1804.0	1797.2	1783.0	1798.4	1791.6
20°	1778.0	1771.2	1757.0	1772.5	1765.0
22.5°	1748.4	1741.6	1726.7	1743.4	1736.0
25°	1714.4	1708.2	1694.6	1711.9	1702.6
27.5°	1678.5	1673.6	1658.8	1673.0	1667.4
30°	1637.8	1634.7	1618.6	1629.7	1624.8
32.5°	1596.4	1590.8	1579.7	1588.4	1583.4
35°	1550.0	1542.6	1535.2	1540.8	1532.1
37.5°	1500.6	1495.7	1487.7	1492.6	1482.7
40°	1446.9	1442.6	1436.4	1437.6	1432.0
42.5°	1391.3	1386.3	1381.4	1378.9	1372.7
45°	1333.2	1328.9	1323.9	1322.1	1312.8
47.5°	1270.2	1267.1	1264.0	1259.7	1252.9
50°	1202.2	1203.5	1197.9	1194.2	1182.5
52.5°	1129.3	1136.7	1128.7	1123.2	1116.4
55°	1054.6	1062.6	1055.8	1051.5	1044.1
57.5°	980.4	984.1	979.8	976.7	966.8
60°	902.0	905.1	902.0	895.2	890.2
62.5°	821.0	824.8	818.6	813.6	806.8
65°	735.8	737.6	736.4	726.5	717.9
67.5°	649.9	653.0	649.3	642.5	633.9
70°	564.0	562.2	559.1	554.2	543.0
72.5°	473.2	473.2	472.6	463.3	457.8
75°	382.4	383.0	381.2	375.0	369.4
77.5°	291.6	298.4	293.5	287.3	281.1
80°	210.7	215.0	210.7	202.6	198.9
82.5°	134.7	140.9	137.2	129.1	127.9
85°	75.4	76.6	74.8	71.0	64.9
87.5°	28.4	29.7	30.3	24.7	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)