

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: P290133

Luminaire Tested: **8SSRK-LN-50-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-LN-50-L935-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4339.0 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

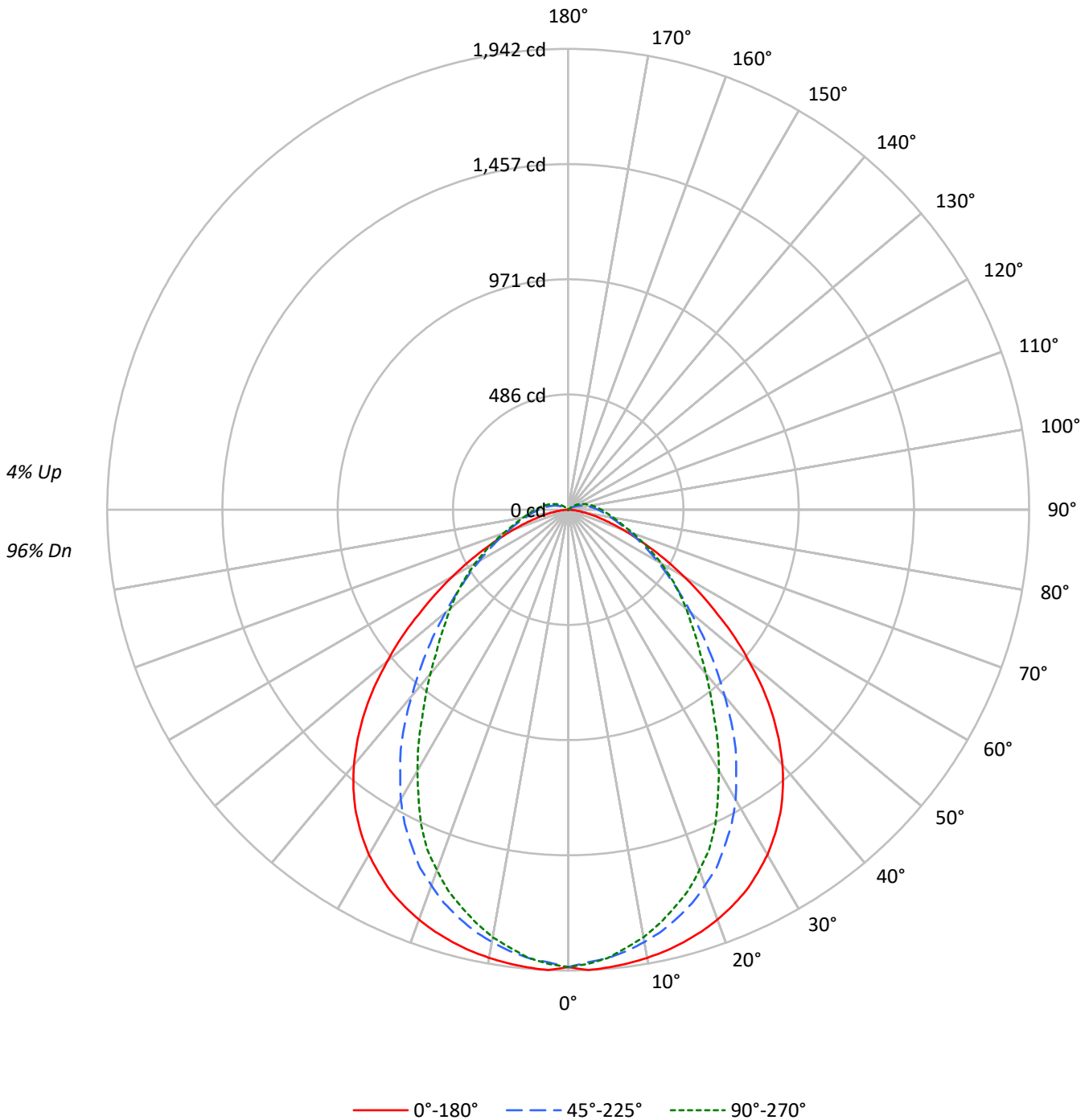
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81				
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69				
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59				
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41				
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36				
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	62239	62239	62239
5°	62660	49237	45546
10°	62651	40401	35176
15°	62687	33783	27988
20°	62706	28456	22613
25°	62539	23921	18219
30°	61857	19910	14299
35°	60573	16216	11131
40°	58204	12771	8744
45°	54375	9982	6950
50°	48779	7717	5659
55°	42043	6007	4597
60°	35019	4711	3696
65°	27918	3709	2919
70°	21781	2936	2295
75°	16300	2386	1827
80°	11791	1968	1515
85°	7332	1659	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	4.2
10°-20°	506.7	11.7
20°-30°	730.3	16.8
30°-40°	791.0	18.2
40°-50°	700.6	16.1
50°-60°	533.1	12.3
60°-70°	355.2	8.2
70°-80°	219.4	5.1
80°-90°	137.5	3.2
90°-100°	90.3	2.1
100°-110°	55.4	1.3
110°-120°	28.6	0.7
120°-130°	9.4	0.2
130°-140°	0.6	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°	1417.9	32.7
0°-40°	2209.0	50.9
0°-60°	3442.7	79.3
0°-90°	4154.9	95.8
90°-120°	174.2	4.0
90°-150°	184.2	4.2
90°-180°	184.0	4.2
0°-180°	4339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1927	1927	1927	1927	1927	
5°	1937	1924	1897	1904	1897	184
15°	1886	1850	1780	1756	1734	533
25°	1772	1689	1562	1495	1465	815
35°	1559	1413	1230	1114	1073	972
45°	1216	1025	840	776	761	932
55°	769	628	540	546	548	691
65°	382	335	344	364	366	385
75°	141	172	222	237	233	156
85°	24	88	150	165	163	30
90°	1	64	125	141	140	2
95°	3	45	104	120	119	2
105°	2	18	65	83	85	2
115°	2	2	33	52	56	1
125°	1	1	1	22	28	1
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	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°	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1941.7	1931.0	1909.0	1921.8	1915.7
5°	1936.6	1924.3	1896.8	1903.9	1896.8
7.5°	1928.4	1913.1	1876.4	1879.4	1862.6
10°	1917.7	1897.3	1849.8	1844.7	1829.4
12.5°	1903.9	1875.3	1819.7	1799.3	1784.5
15°	1885.6	1849.8	1780.4	1756.4	1734.5
17.5°	1864.6	1818.7	1738.1	1709.0	1683.0
20°	1838.6	1780.9	1685.0	1644.7	1616.1
22.5°	1807.0	1739.6	1632.4	1573.8	1550.8
25°	1772.3	1689.1	1561.5	1494.7	1465.1
27.5°	1726.9	1633.5	1491.6	1407.9	1365.6
30°	1678.9	1567.6	1410.5	1314.0	1269.1
32.5°	1621.2	1495.7	1316.6	1214.0	1174.2
35°	1559.0	1413.0	1230.3	1114.5	1073.2
37.5°	1485.5	1323.7	1127.8	1021.6	985.4
40°	1404.9	1226.8	1025.7	932.3	903.7
42.5°	1313.0	1128.3	929.8	849.1	824.6
45°	1215.5	1025.2	840.0	776.2	760.9
47.5°	1109.4	922.1	755.8	710.3	699.1
50°	995.1	819.0	674.1	649.1	649.6
52.5°	886.4	721.6	604.7	598.1	596.5
55°	769.0	627.7	539.9	546.5	548.1
57.5°	662.9	540.4	484.8	497.0	498.6
60°	561.8	462.3	432.2	451.1	453.7
62.5°	469.5	395.5	387.3	406.7	406.2
65°	381.7	334.8	344.5	364.4	365.9
67.5°	307.2	285.3	308.7	326.1	325.1
70°	243.9	240.9	274.0	292.4	291.4
72.5°	189.8	203.6	247.0	262.8	258.7
75°	140.8	171.5	222.0	236.8	233.2
77.5°	103.6	144.9	200.0	214.3	211.8
80°	70.9	123.0	181.2	196.0	192.9
82.5°	45.4	104.6	164.8	179.1	177.1
85°	24.5	88.3	150.0	165.3	162.8
87.5°	9.2	75.0	136.8	152.1	151.0
90°	1.0	64.3	125.0	140.8	139.8
92.5°	1.5	54.6	113.8	130.1	130.1
95°	2.6	45.4	103.6	119.9	119.4
97.5°	2.0	38.3	92.4	110.2	110.2
100°	2.0	31.6	82.2	100.0	101.0
102.5°	2.0	25.0	73.5	90.8	92.9
105°	1.5	17.9	64.8	82.7	84.7
107.5°	1.5	10.2	56.1	75.0	77.6
110°	1.5	2.6	48.5	66.8	69.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	40.8	59.2	62.3
115°	1.5	1.5	33.2	51.5	56.1
117.5°	1.0	1.0	24.5	44.9	49.0
120°	1.0	1.0	15.3	37.8	41.8
122.5°	1.0	1.0	6.6	30.1	35.7
125°	1.0	1.0	1.0	22.5	28.1
127.5°	1.0	1.0	0.5	13.3	19.9
130°	1.0	1.0	0.5	5.1	12.2
132.5°	1.0	1.0	0.5	0.5	3.6
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
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)