

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: P290134

Luminaire Tested: **8SSRK-LN-50-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290134  
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-L940-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4444.1 lumens  
Efficiency: N/A  
Efficacy: 129.9 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

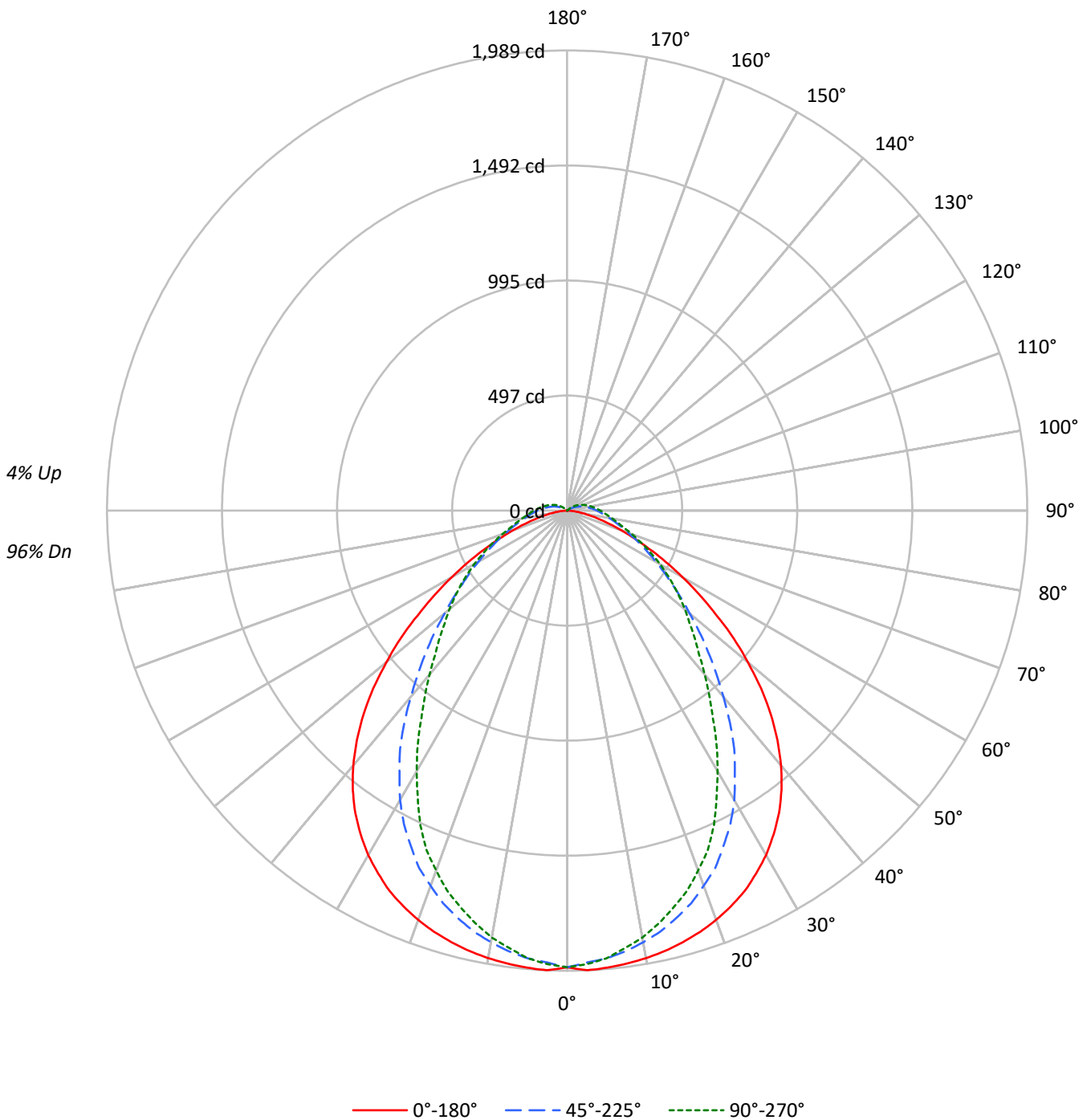
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	63747	63747	63747
5°	64178	50429	46648
10°	64170	41379	36028
15°	64203	34603	28666
20°	64224	29145	23162
25°	64053	24500	18660
30°	63353	20392	14646
35°	62038	16609	11400
40°	59613	13079	8956
45°	55695	10223	7118
50°	49961	7904	5795
55°	43060	6152	4708
60°	35867	4826	3785
65°	28591	3798	2989
70°	22308	3008	2350
75°	16705	2444	1871
80°	12074	2014	1551
85°	7511	1700	1322



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.3	4.2
10°-20°	519.0	11.7
20°-30°	748.0	16.8
30°-40°	810.2	18.2
40°-50°	717.6	16.1
50°-60°	546.0	12.3
60°-70°	363.8	8.2
70°-80°	224.8	5.1
80°-90°	140.8	3.2
90°-100°	92.5	2.1
100°-110°	56.7	1.3
110°-120°	29.3	0.7
120°-130°	9.6	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°	1452.3	32.7
0°-40°	2262.5	50.9
0°-60°	3526.1	79.3
0°-90°	4255.5	95.8
90°-120°	178.5	4.0
90°-150°	188.7	4.2
90°-180°	189.0	4.3
0°-180°	4444.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1974	1974	1974	1974	1974	
5°	1984	1971	1943	1950	1943	189
15°	1931	1895	1824	1799	1776	546
25°	1815	1730	1599	1531	1501	835
35°	1597	1447	1260	1142	1099	995
45°	1245	1050	860	795	779	955
55°	788	643	553	560	561	708
65°	391	343	353	373	375	395
75°	144	176	227	242	239	160
85°	25	90	154	169	167	31
90°	1	66	128	144	143	2
95°	3	46	106	123	122	2
105°	2	18	66	85	87	2
115°	2	2	34	53	58	1
125°	1	1	1	23	29	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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CATALOG NUMBER: 8SSRK-LN-50-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1974.1	1974.1	1974.1	1974.1	1974.1
2.5°	1988.7	1977.7	1955.3	1968.3	1962.1
5°	1983.5	1970.9	1942.7	1950.0	1942.7
7.5°	1975.1	1959.4	1921.8	1925.0	1907.7
10°	1964.2	1943.2	1894.6	1889.4	1873.7
12.5°	1950.0	1920.8	1863.8	1842.9	1827.7
15°	1931.2	1894.6	1823.6	1799.0	1776.5
17.5°	1909.8	1862.8	1780.2	1750.4	1723.7
20°	1883.1	1824.1	1725.8	1684.5	1655.3
22.5°	1850.7	1781.7	1672.0	1611.9	1588.4
25°	1815.2	1730.0	1599.3	1530.9	1500.6
27.5°	1768.7	1673.0	1527.7	1442.0	1398.6
30°	1719.5	1605.6	1444.6	1345.8	1299.9
32.5°	1660.5	1531.9	1348.5	1243.4	1202.6
35°	1596.7	1447.2	1260.1	1141.5	1099.2
37.5°	1521.5	1355.8	1155.1	1046.4	1009.3
40°	1438.9	1256.5	1050.5	954.9	925.6
42.5°	1344.8	1155.6	952.3	869.7	844.6
45°	1245.0	1050.0	860.3	795.0	779.3
47.5°	1136.3	944.4	774.1	727.5	716.0
50°	1019.2	838.9	690.4	664.8	665.3
52.5°	907.9	739.0	619.4	612.6	611.0
55°	787.6	642.9	553.0	559.8	561.3
57.5°	678.9	553.5	496.5	509.1	510.6
60°	575.4	473.5	442.7	462.0	464.6
62.5°	480.8	405.1	396.7	416.6	416.0
65°	390.9	342.9	352.8	373.2	374.7
67.5°	314.6	292.2	316.2	334.0	332.9
70°	249.8	246.7	280.7	299.5	298.4
72.5°	194.4	208.5	253.0	269.2	265.0
75°	144.3	175.6	227.4	242.5	238.9
77.5°	106.1	148.4	204.9	219.5	216.9
80°	72.6	126.0	185.5	200.7	197.6
82.5°	46.5	107.1	168.8	183.5	181.4
85°	25.1	90.4	153.7	169.3	166.7
87.5°	9.4	76.8	140.1	155.8	154.7
90°	1.0	65.9	128.1	144.3	143.2
92.5°	1.6	55.9	116.6	133.3	133.3
95°	2.6	46.5	106.1	122.8	122.3
97.5°	2.1	39.2	94.6	112.9	112.9
100°	2.1	32.4	84.1	102.4	103.5
102.5°	2.1	25.6	75.3	93.0	95.1
105°	1.6	18.3	66.4	84.7	86.8
107.5°	1.6	10.5	57.5	76.8	79.4
110°	1.6	2.6	49.7	68.5	71.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	1.6	41.8	60.6	63.8
115°	1.6	1.6	34.0	52.8	57.5
117.5°	1.0	1.0	25.1	46.0	50.2
120°	1.0	1.0	15.7	38.7	42.9
122.5°	1.0	1.0	6.8	30.8	36.6
125°	1.0	1.0	1.0	23.0	28.7
127.5°	1.0	1.0	0.5	13.6	20.4
130°	1.0	1.0	0.5	5.2	12.5
132.5°	1.0	1.0	0.5	0.5	3.7
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)