

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: P289986

Luminaire Tested: **8SSRK-LW-10-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-LW-10-L840-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9425.8 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

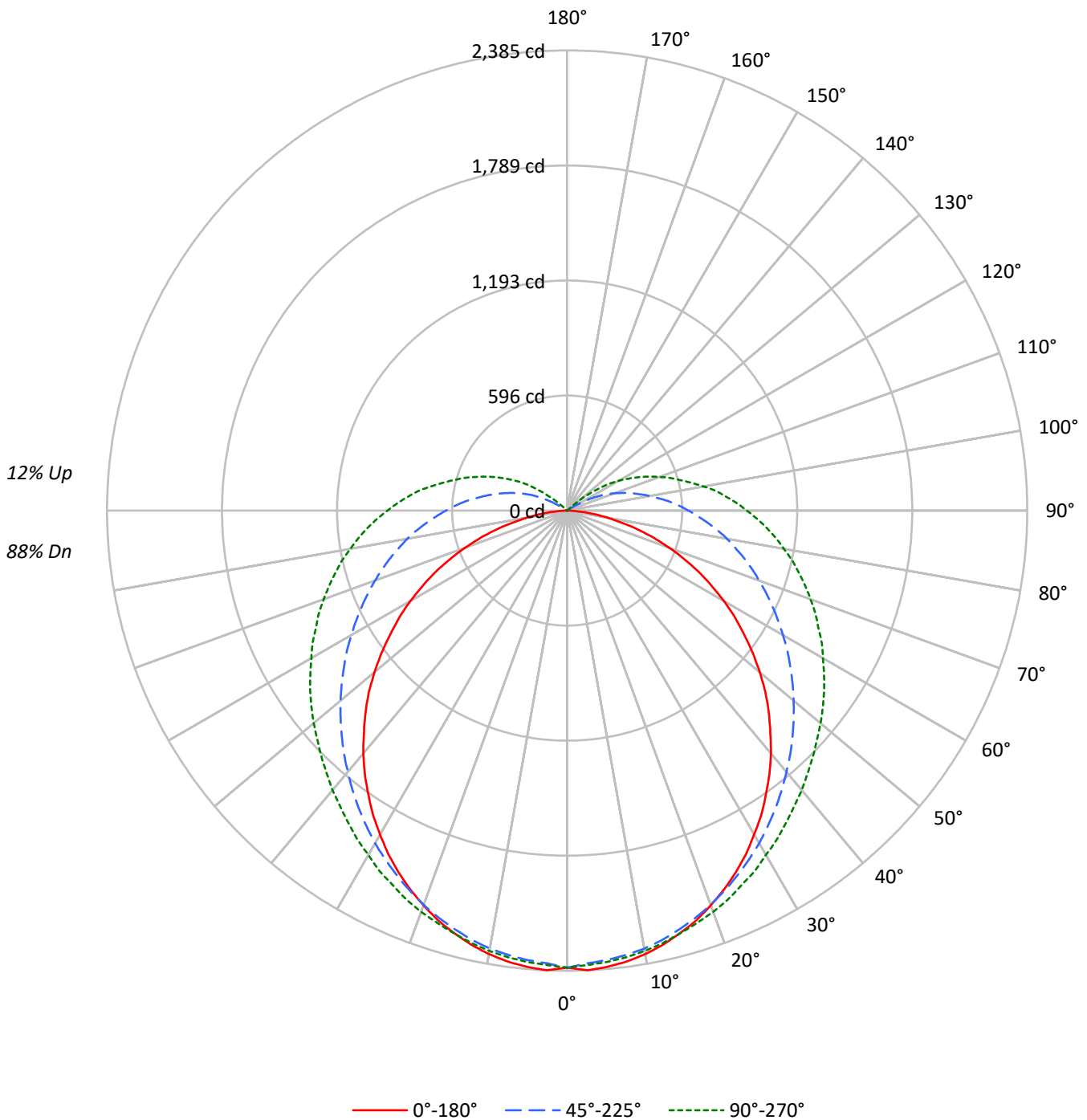
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88				
1	103	97	92	87	99	94	89	84	87	83	79	81	78	75	75	73	71	67				
2	93	83	75	68	89	80	73	67	74	68	63	69	64	60	65	61	57	54				
3	84	72	63	56	80	70	61	54	65	58	52	60	54	50	56	51	47	44				
4	76	63	54	47	73	61	52	46	57	50	44	53	47	42	50	44	40	37				
5	70	56	47	40	67	54	46	39	51	43	37	48	41	36	45	39	34	32				
6	65	50	41	34	62	49	40	34	46	38	32	43	36	31	40	35	30	28				
7	60	46	36	30	57	44	36	30	42	34	28	39	32	27	37	31	26	24				
8	55	41	33	27	53	40	32	26	38	31	25	36	29	24	34	28	24	21				
9	52	38	30	24	50	37	29	23	35	28	23	33	27	22	31	25	21	19				
10	49	35	27	21	47	34	26	21	32	25	21	31	24	20	29	23	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	76489	76489	76489
5°	76803	60711	56399
10°	76244	50347	44563
15°	75350	42629	36593
20°	74240	36719	30964
25°	72987	31973	26620
30°	71433	28108	23220
35°	69813	24817	20509
40°	68089	22014	18303
45°	66109	19633	16457
50°	63828	17545	14935
55°	61172	15707	13638
60°	58488	14085	12475
65°	55046	12637	11461
70°	50295	11348	10568
75°	43990	10189	9731
80°	35025	9147	8951
85°	22743	8090	8241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	2.4
10°-20°	638.5	6.8
20°-30°	968.2	10.3
30°-40°	1181.6	12.5
40°-50°	1272.6	13.5
50°-60°	1249.9	13.3
60°-70°	1129.3	12.0
70°-80°	940.2	10.0
80°-90°	721.1	7.7
90°-100°	522.1	5.5
100°-110°	337.3	3.6
110°-120°	181.8	1.9
120°-130°	57.5	0.6
130°-140°	2.2	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°	1830.3	19.4
0°-40°	3011.9	32.0
0°-60°	5534.3	58.7
0°-90°	8325.0	88.3
90°-120°	1041.2	11.0
90°-150°	1100.8	11.7
90°-180°	1101.0	11.7
0°-180°	9425.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2369	2369	2369	2369	2369	
5°	2374	2365	2339	2356	2349	225
15°	2266	2262	2247	2272	2268	639
25°	2068	2071	2087	2132	2141	953
35°	1797	1820	1883	1958	1977	1124
45°	1478	1534	1652	1761	1802	1139
55°	1119	1230	1412	1569	1626	1002
65°	753	916	1174	1371	1437	743
75°	380	630	948	1168	1242	402
85°	76	386	731	959	1039	91
90°	2	290	628	854	931	4
95°	5	211	532	754	827	4
105°	5	75	346	542	609	5
115°	4	4	174	345	410	4
125°	2	1	1	138	197	2
135°	0	0	0	0	0	1
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°	2368.7	2368.7	2368.7	2368.7	2368.7
2.5°	2384.9	2374.9	2348.8	2365.0	2357.5
5°	2373.7	2365.0	2338.8	2356.2	2348.8
7.5°	2357.5	2348.8	2323.8	2341.3	2335.1
10°	2333.8	2325.1	2305.2	2322.6	2317.6
12.5°	2303.9	2297.7	2279.0	2300.2	2295.2
15°	2266.5	2261.5	2246.6	2271.5	2267.8
17.5°	2226.7	2221.7	2212.9	2239.1	2240.4
20°	2176.8	2175.6	2174.3	2208.0	2212.9
22.5°	2125.7	2127.0	2132.0	2173.1	2180.6
25°	2068.4	2070.9	2087.1	2132.0	2140.7
27.5°	2007.4	2016.1	2039.7	2092.1	2105.8
30°	1938.8	1953.8	1991.2	2046.0	2060.9
32.5°	1871.5	1887.7	1937.6	2002.4	2022.3
35°	1796.8	1820.4	1882.8	1957.5	1977.4
37.5°	1722.0	1749.4	1826.7	1907.7	1932.6
40°	1643.5	1679.6	1768.1	1859.1	1891.5
42.5°	1558.8	1609.9	1712.0	1809.2	1845.4
45°	1477.8	1533.9	1652.2	1760.6	1801.8
47.5°	1394.3	1461.6	1592.4	1713.3	1756.9
50°	1302.1	1383.1	1532.6	1665.9	1714.5
52.5°	1212.4	1308.3	1472.8	1617.3	1670.9
55°	1118.9	1229.8	1411.8	1568.8	1626.1
57.5°	1031.7	1150.1	1353.2	1517.7	1578.7
60°	938.3	1072.8	1292.1	1470.3	1531.4
62.5°	843.6	995.6	1232.3	1419.2	1487.8
65°	752.6	915.8	1173.8	1370.6	1436.7
67.5°	655.4	843.6	1116.4	1318.3	1393.1
70°	563.2	768.8	1059.1	1268.5	1342.0
72.5°	471.0	696.5	1003.1	1218.6	1293.4
75°	380.0	630.5	948.2	1167.5	1242.3
77.5°	289.1	560.7	892.2	1116.4	1194.9
80°	210.6	499.7	842.3	1064.1	1140.1
82.5°	143.3	442.3	786.2	1014.3	1091.5
85°	76.0	386.3	731.4	959.4	1039.2
87.5°	22.4	336.4	677.8	905.9	985.6
90°	2.5	290.3	628.0	853.5	930.8
92.5°	3.7	250.5	580.6	806.2	880.9
95°	5.0	210.6	532.1	753.8	827.4
97.5°	5.0	175.7	482.2	700.3	778.8
100°	5.0	142.0	434.9	645.4	717.7
102.5°	5.0	110.9	390.0	590.6	661.6
105°	5.0	74.8	346.4	542.0	609.3
107.5°	5.0	37.4	304.0	494.7	560.7
110°	5.0	7.5	261.7	446.1	509.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	5.0	220.5	395.0	459.8
115°	3.7	3.7	174.4	345.2	409.9
117.5°	3.7	3.7	124.6	299.0	357.6
120°	3.7	2.5	72.3	250.5	309.0
122.5°	2.5	2.5	23.7	194.4	257.9
125°	2.5	1.2	1.2	138.3	196.9
127.5°	2.5	1.2	0.0	77.3	133.3
130°	2.5	1.2	0.0	22.4	76.0
132.5°	2.5	1.2	0.0	0.0	16.2
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)