

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: P289990

Luminaire Tested: **8SSRK-LW-12-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289990
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-12-L940-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8855.0 lumens
Efficiency: N/A
Efficacy: 109.5 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

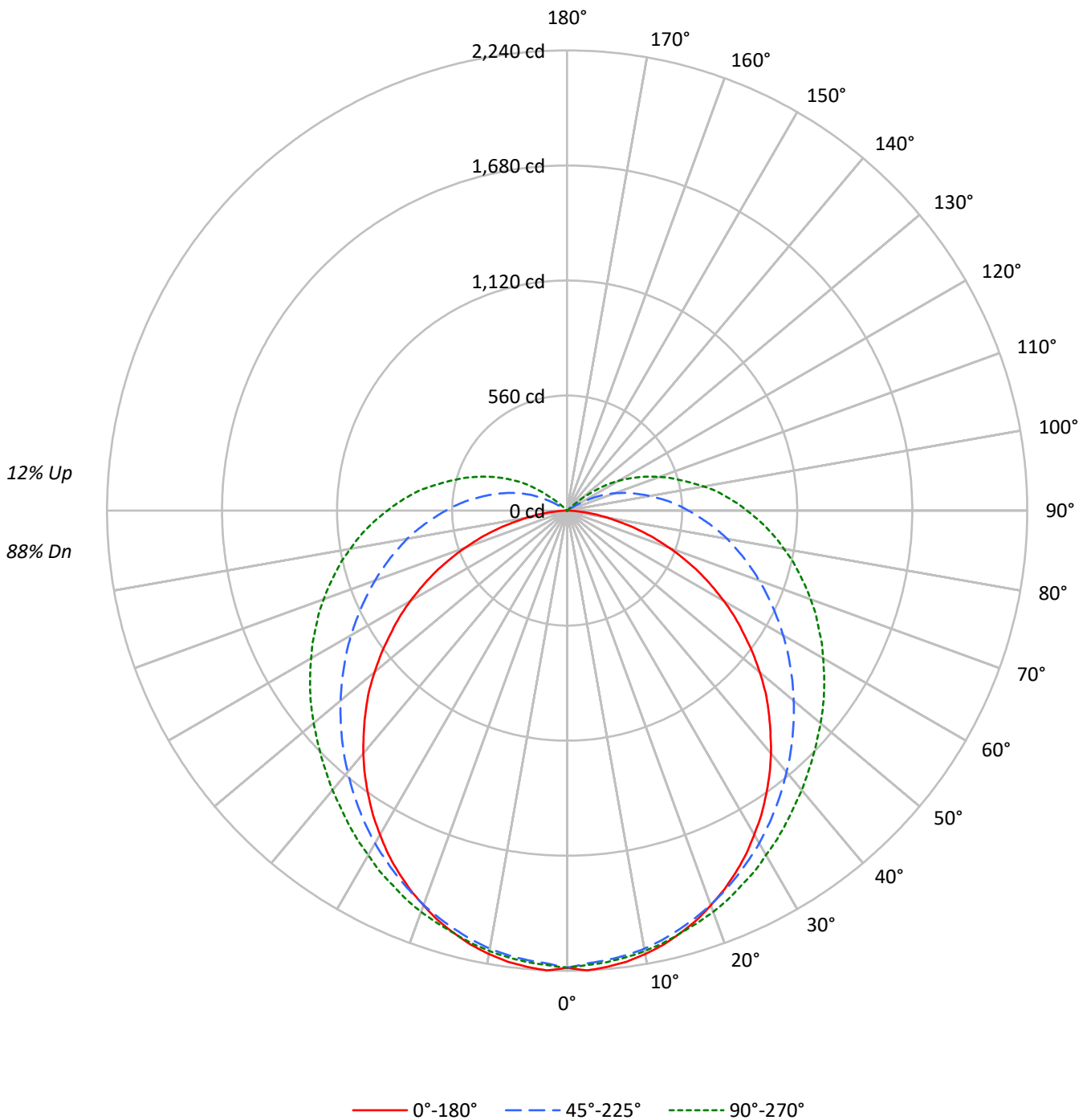
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	71858	71858	71858
5°	72150	57035	52982
10°	71628	47298	41865
15°	70789	40047	34376
20°	69745	34495	29089
25°	68566	30037	25007
30°	67107	26405	21814
35°	65585	23313	19267
40°	63967	20680	17194
45°	62106	18444	15459
50°	59961	16483	14031
55°	57471	14755	12812
60°	54941	13233	11719
65°	51710	11872	10767
70°	47250	10661	9927
75°	41328	9572	9142
80°	32896	8593	8410
85°	21366	7600	7742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.1	2.4
10°-20°	599.8	6.8
20°-30°	909.5	10.3
30°-40°	1110.0	12.5
40°-50°	1195.5	13.5
50°-60°	1174.2	13.3
60°-70°	1060.9	12.0
70°-80°	883.3	10.0
80°-90°	677.5	7.7
90°-100°	490.5	5.5
100°-110°	316.9	3.6
110°-120°	170.8	1.9
120°-130°	54.0	0.6
130°-140°	2.0	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°	1719.5	19.4
0°-40°	2829.5	32.0
0°-60°	5199.2	58.7
0°-90°	7820.9	88.3
90°-120°	978.1	11.0
90°-150°	1034.2	11.7
90°-180°	1034.0	11.7
0°-180°	8855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2225	2225	2225	2225	2225	
5°	2230	2222	2197	2214	2206	212
15°	2129	2125	2110	2134	2130	601
25°	1943	1946	1961	2003	2011	895
35°	1688	1710	1769	1839	1858	1056
45°	1388	1441	1552	1654	1693	1070
55°	1051	1155	1326	1474	1528	942
65°	707	860	1103	1288	1350	698
75°	357	592	891	1097	1167	378
85°	71	363	687	901	976	86
90°	2	273	590	802	874	4
95°	5	198	500	708	777	4
105°	5	70	325	509	572	5
115°	4	4	164	324	385	4
125°	2	1	1	130	185	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°	2225.3	2225.3	2225.3	2225.3	2225.3
2.5°	2240.5	2231.1	2206.5	2221.7	2214.7
5°	2229.9	2221.7	2197.2	2213.6	2206.5
7.5°	2214.7	2206.5	2183.1	2199.5	2193.7
10°	2192.5	2184.3	2165.6	2181.9	2177.3
12.5°	2164.4	2158.5	2141.0	2160.9	2156.2
15°	2129.3	2124.6	2110.5	2134.0	2130.4
17.5°	2091.8	2087.1	2078.9	2103.5	2104.7
20°	2045.0	2043.8	2042.6	2074.3	2078.9
22.5°	1997.0	1998.2	2002.8	2041.5	2048.5
25°	1943.1	1945.5	1960.7	2002.8	2011.0
27.5°	1885.8	1894.0	1916.2	1965.4	1978.3
30°	1821.4	1835.5	1870.6	1922.1	1936.1
32.5°	1758.2	1773.4	1820.2	1881.1	1899.8
35°	1688.0	1710.2	1768.7	1839.0	1857.7
37.5°	1617.7	1643.5	1716.1	1792.1	1815.6
40°	1544.0	1577.9	1661.0	1746.5	1776.9
42.5°	1464.4	1512.4	1608.4	1699.7	1733.6
45°	1388.3	1441.0	1552.2	1654.0	1692.6
47.5°	1309.9	1373.1	1496.0	1609.5	1650.5
50°	1223.2	1299.3	1439.8	1565.1	1610.7
52.5°	1139.0	1229.1	1383.6	1519.4	1569.7
55°	1051.2	1155.4	1326.3	1473.7	1527.6
57.5°	969.2	1080.4	1271.2	1425.8	1483.1
60°	881.4	1007.9	1213.9	1381.3	1438.6
62.5°	792.5	935.3	1157.7	1333.3	1397.7
65°	707.0	860.4	1102.7	1287.6	1349.7
67.5°	615.7	792.5	1048.8	1238.5	1308.7
70°	529.1	722.2	995.0	1191.6	1260.7
72.5°	442.5	654.3	942.3	1144.8	1215.1
75°	357.0	592.3	890.8	1096.8	1167.1
77.5°	271.6	526.8	838.1	1048.8	1122.6
80°	197.8	469.4	791.3	999.7	1071.1
82.5°	134.6	415.6	738.6	952.8	1025.4
85°	71.4	362.9	687.1	901.3	976.3
87.5°	21.1	316.1	636.8	851.0	925.9
90°	2.3	272.7	590.0	801.8	874.4
92.5°	3.5	235.3	545.5	757.4	827.6
95°	4.7	197.8	499.8	708.2	777.3
97.5°	4.7	165.1	453.0	657.9	731.6
100°	4.7	133.4	408.5	606.4	674.2
102.5°	4.7	104.2	366.4	554.9	621.6
105°	4.7	70.2	325.4	509.2	572.4
107.5°	4.7	35.1	285.6	464.7	526.8
110°	4.7	7.0	245.8	419.1	478.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.5	4.7	207.2	371.1	431.9
115°	3.5	3.5	163.9	324.2	385.1
117.5°	3.5	3.5	117.1	280.9	336.0
120°	3.5	2.3	67.9	235.3	290.3
122.5°	2.3	2.3	22.2	182.6	242.3
125°	2.3	1.2	1.2	129.9	185.0
127.5°	2.3	1.2	0.0	72.6	125.3
130°	2.3	1.2	0.0	21.1	71.4
132.5°	2.3	1.2	0.0	0.0	15.2
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)