

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: P289981

Luminaire Tested: **8SSRK-LW-10-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289981
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-L935-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7785.7 lumens
Efficiency: N/A
Efficacy: 108.3 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

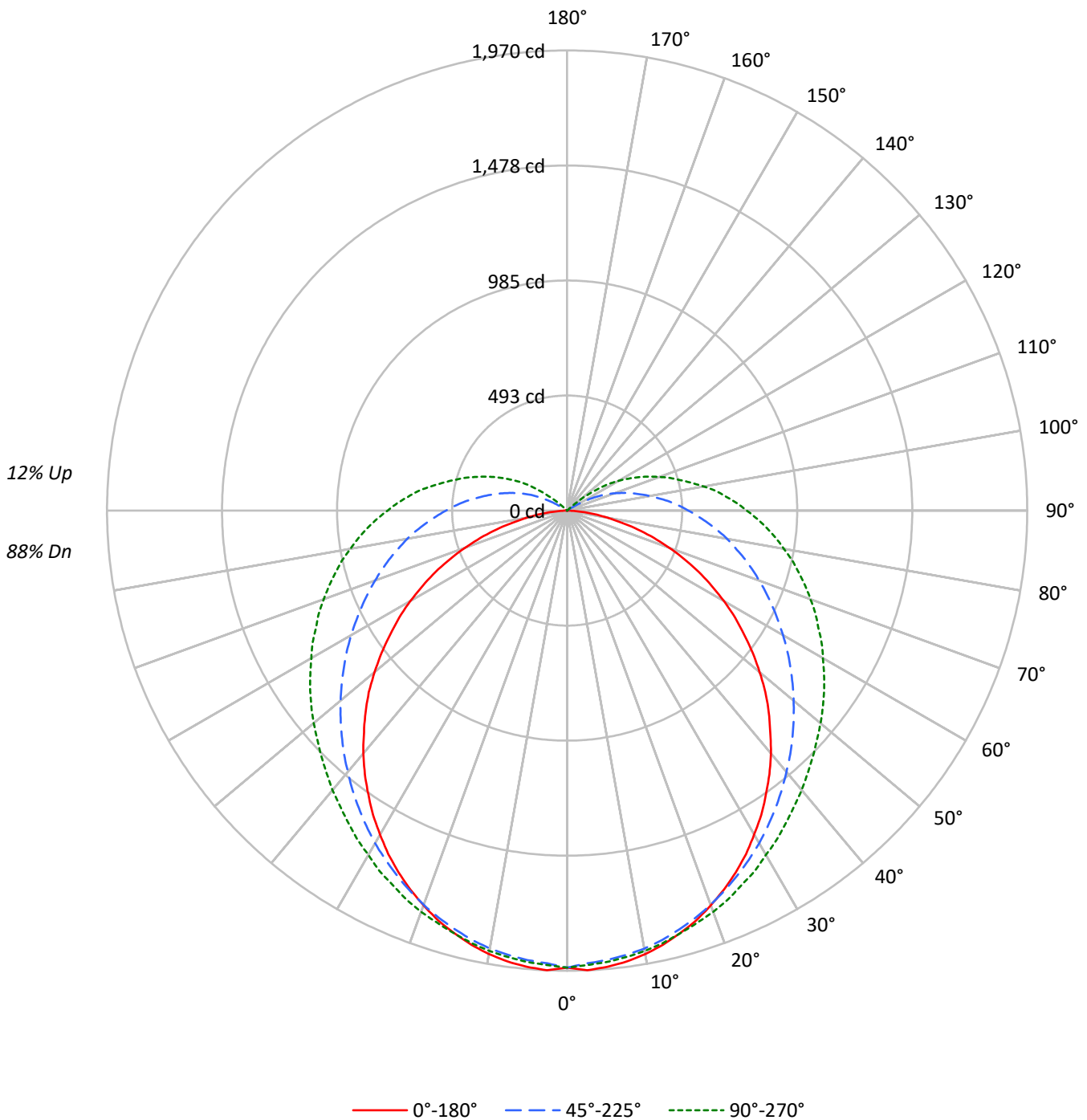
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	63178	63178	63178
5°	63437	50146	46585
10°	62977	41584	36808
15°	62238	35212	30226
20°	61321	30331	25577
25°	60288	26409	21988
30°	59005	23216	19180
35°	57663	20497	16941
40°	56240	18184	15117
45°	54604	16216	13592
50°	52721	14492	12337
55°	50528	12973	11265
60°	48309	11635	10304
65°	45464	10438	9467
70°	41543	9373	8729
75°	36338	8416	8037
80°	28921	7555	7394
85°	18793	6682	6807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	2.4
10°-20°	527.4	6.8
20°-30°	799.7	10.3
30°-40°	976.0	12.5
40°-50°	1051.1	13.5
50°-60°	1032.4	13.3
60°-70°	932.8	12.0
70°-80°	776.6	10.0
80°-90°	595.6	7.7
90°-100°	431.3	5.5
100°-110°	278.6	3.6
110°-120°	150.2	1.9
120°-130°	47.5	0.6
130°-140°	1.8	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°	1511.8	19.4
0°-40°	2487.8	32.0
0°-60°	4571.3	58.7
0°-90°	6876.4	88.3
90°-120°	860.0	11.0
90°-150°	909.3	11.7
90°-180°	909.0	11.7
0°-180°	7785.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1956	1956	1956	1956	1956	
5°	1961	1953	1932	1946	1940	186
15°	1872	1868	1856	1876	1873	528
25°	1708	1710	1724	1761	1768	787
35°	1484	1504	1555	1617	1633	929
45°	1221	1267	1365	1454	1488	941
55°	924	1016	1166	1296	1343	828
65°	622	756	970	1132	1187	613
75°	314	521	783	964	1026	332
85°	63	319	604	792	858	75
90°	2	240	519	705	769	4
95°	4	174	440	623	683	3
105°	4	62	286	448	503	4
115°	3	3	144	285	339	3
125°	2	1	1	114	163	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°	1956.5	1956.5	1956.5	1956.5	1956.5
2.5°	1969.9	1961.7	1940.1	1953.4	1947.3
5°	1960.6	1953.4	1931.8	1946.2	1940.1
7.5°	1947.3	1940.1	1919.5	1933.9	1928.7
10°	1927.7	1920.5	1904.0	1918.5	1914.3
12.5°	1903.0	1897.9	1882.4	1899.9	1895.8
15°	1872.1	1868.0	1855.7	1876.3	1873.2
17.5°	1839.2	1835.1	1827.9	1849.5	1850.5
20°	1798.0	1797.0	1796.0	1823.8	1827.9
22.5°	1755.8	1756.9	1761.0	1794.9	1801.1
25°	1708.5	1710.5	1723.9	1761.0	1768.2
27.5°	1658.1	1665.3	1684.8	1728.0	1739.4
30°	1601.5	1613.8	1644.7	1690.0	1702.3
32.5°	1545.9	1559.3	1600.4	1653.9	1670.4
35°	1484.1	1503.7	1555.1	1616.9	1633.4
37.5°	1422.4	1445.0	1508.8	1575.7	1596.3
40°	1357.5	1387.4	1460.5	1535.6	1562.3
42.5°	1287.5	1329.7	1414.1	1494.4	1524.3
45°	1220.6	1267.0	1364.7	1454.3	1488.2
47.5°	1151.7	1207.3	1315.3	1415.2	1451.2
50°	1075.5	1142.4	1265.9	1376.1	1416.2
52.5°	1001.4	1080.7	1216.5	1335.9	1380.2
55°	924.2	1015.8	1166.1	1295.8	1343.1
57.5°	852.2	950.0	1117.7	1253.6	1304.0
60°	775.0	886.2	1067.3	1214.5	1264.9
62.5°	696.8	822.3	1017.9	1172.3	1228.9
65°	621.6	756.5	969.5	1132.1	1186.7
67.5°	541.4	696.8	922.2	1088.9	1150.7
70°	465.2	635.0	874.8	1047.7	1108.5
72.5°	389.0	575.3	828.5	1006.6	1068.3
75°	313.9	520.8	783.2	964.4	1026.1
77.5°	238.8	463.1	736.9	922.2	987.0
80°	173.9	412.7	695.7	878.9	941.7
82.5°	118.4	365.4	649.4	837.8	901.6
85°	62.8	319.1	604.1	792.5	858.4
87.5°	18.5	277.9	559.9	748.2	814.1
90°	2.1	239.8	518.7	705.0	768.8
92.5°	3.1	206.9	479.6	665.9	727.7
95°	4.1	173.9	439.5	622.7	683.4
97.5°	4.1	145.1	398.3	578.4	643.3
100°	4.1	117.3	359.2	533.1	592.8
102.5°	4.1	91.6	322.1	487.8	546.5
105°	4.1	61.8	286.1	447.7	503.3
107.5°	4.1	30.9	251.1	408.6	463.1
110°	4.1	6.2	216.1	368.5	420.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.1	4.1	182.2	326.3	379.8
115°	3.1	3.1	144.1	285.1	338.6
117.5°	3.1	3.1	102.9	247.0	295.4
120°	3.1	2.1	59.7	206.9	255.2
122.5°	2.1	2.1	19.6	160.6	213.0
125°	2.1	1.0	1.0	114.2	162.6
127.5°	2.1	1.0	0.0	63.8	110.1
130°	2.1	1.0	0.0	18.5	62.8
132.5°	2.1	1.0	0.0	0.0	13.4
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)