

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: P289947

Luminaire Tested: **4SSRK-LW-80-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289947
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: 4SSRK-LW-80-L850-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7564.9 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

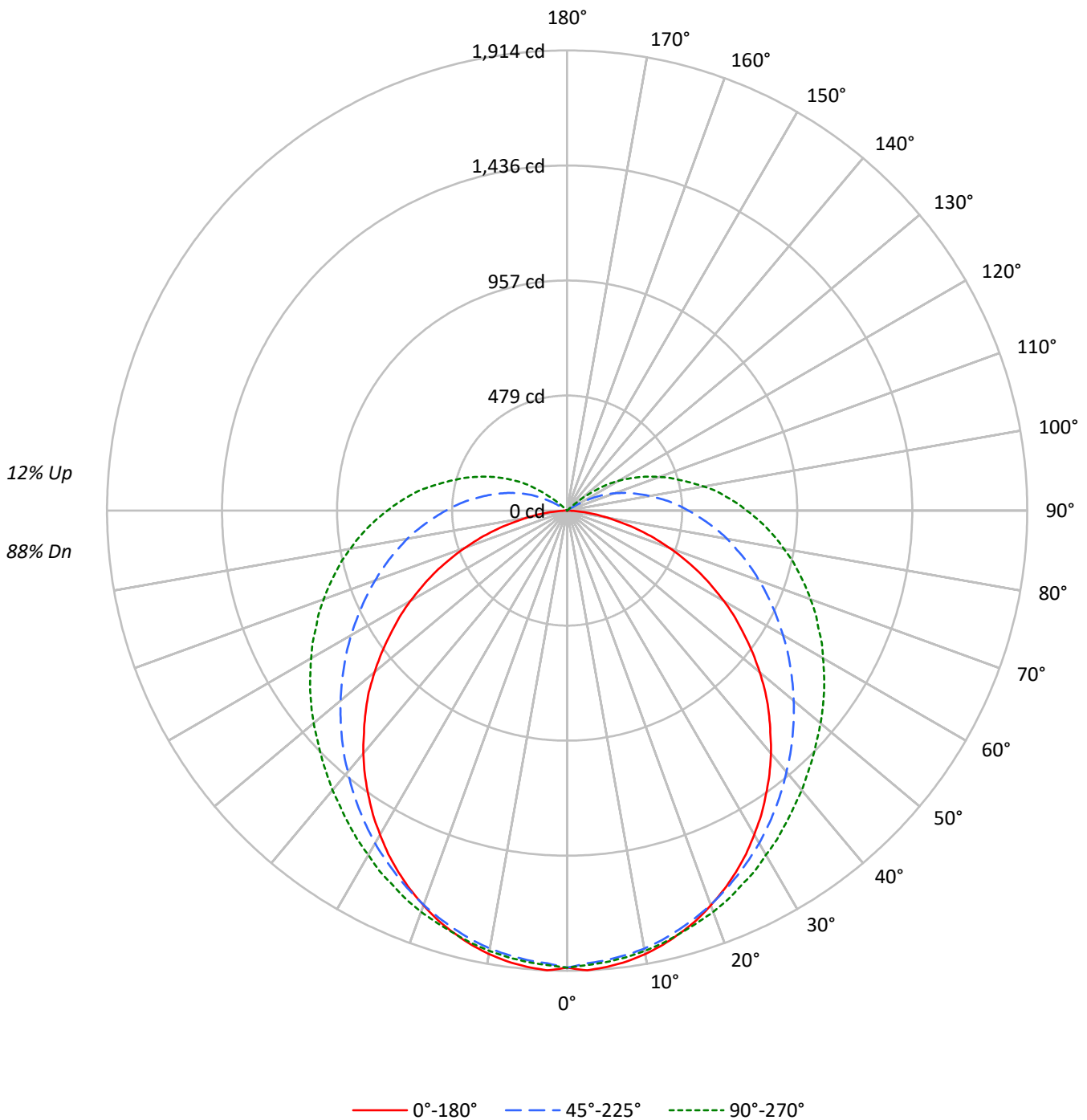
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	122779	122779	122779
5°	123058	97351	90529
10°	121941	80675	71532
15°	120284	68275	58739
20°	118281	58787	49704
25°	116043	51172	42730
30°	113319	44972	37274
35°	110474	39698	32922
40°	107445	35209	29379
45°	103989	31393	26416
50°	100028	28049	23975
55°	95433	25105	21890
60°	90715	22512	20023
65°	84730	20193	18396
70°	76583	18132	16962
75°	65864	16278	15619
80°	50840	14611	14368
85°	30619	12920	13228



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	2.4
10°-20°	512.4	6.8
20°-30°	777.0	10.3
30°-40°	948.3	12.5
40°-50°	1021.3	13.5
50°-60°	1003.1	13.3
60°-70°	906.3	12.0
70°-80°	754.6	10.0
80°-90°	578.7	7.7
90°-100°	419.0	5.5
100°-110°	270.7	3.6
110°-120°	145.9	1.9
120°-130°	46.2	0.6
130°-140°	1.7	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°	1469.0	19.4
0°-40°	2417.3	32.0
0°-60°	4441.8	58.7
0°-90°	6681.4	88.3
90°-120°	835.6	11.0
90°-150°	883.5	11.7
90°-180°	883.0	11.7
0°-180°	7564.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1901	1901	1901	1901	1901	
5°	1905	1898	1877	1891	1885	181
15°	1819	1815	1803	1823	1820	513
25°	1660	1662	1675	1711	1718	764
35°	1442	1461	1511	1571	1587	902
45°	1186	1231	1326	1413	1446	914
55°	898	987	1133	1259	1305	805
65°	604	735	942	1100	1153	596
75°	305	506	761	937	997	323
85°	61	310	587	770	834	73
90°	2	233	504	685	747	3
95°	4	169	427	605	664	3
105°	4	60	278	435	489	4
115°	3	3	140	277	329	3
125°	2	1	1	111	158	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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CATALOG NUMBER: 4SSRK-LW-80-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1901.1	1901.1	1901.1	1901.1	1901.1
2.5°	1914.1	1906.1	1885.1	1898.1	1892.1
5°	1905.1	1898.1	1877.1	1891.1	1885.1
7.5°	1892.1	1885.1	1865.1	1879.1	1874.1
10°	1873.1	1866.1	1850.1	1864.1	1860.1
12.5°	1849.1	1844.1	1829.1	1846.1	1842.1
15°	1819.1	1815.1	1803.1	1823.1	1820.1
17.5°	1787.1	1783.1	1776.1	1797.1	1798.1
20°	1747.1	1746.1	1745.1	1772.1	1776.1
22.5°	1706.1	1707.1	1711.1	1744.1	1750.1
25°	1660.1	1662.1	1675.1	1711.1	1718.1
27.5°	1611.1	1618.1	1637.1	1679.1	1690.1
30°	1556.1	1568.1	1598.1	1642.1	1654.1
32.5°	1502.1	1515.1	1555.1	1607.1	1623.1
35°	1442.1	1461.1	1511.1	1571.1	1587.1
37.5°	1382.1	1404.1	1466.1	1531.1	1551.1
40°	1319.0	1348.1	1419.1	1492.1	1518.1
42.5°	1251.0	1292.0	1374.1	1452.1	1481.1
45°	1186.0	1231.0	1326.0	1413.1	1446.1
47.5°	1119.0	1173.0	1278.0	1375.1	1410.1
50°	1045.0	1110.0	1230.0	1337.0	1376.1
52.5°	973.0	1050.0	1182.0	1298.0	1341.0
55°	898.0	987.0	1133.0	1259.0	1305.0
57.5°	828.0	923.0	1086.0	1218.0	1267.0
60°	753.0	861.0	1037.0	1180.0	1229.0
62.5°	677.0	799.0	989.0	1139.0	1194.0
65°	604.0	735.0	942.0	1100.0	1153.0
67.5°	526.0	677.0	896.0	1058.0	1118.0
70°	452.0	617.0	850.0	1018.0	1077.0
72.5°	378.0	559.0	805.0	978.0	1038.0
75°	305.0	506.0	761.0	937.0	997.0
77.5°	232.0	450.0	716.0	896.0	959.0
80°	169.0	401.0	676.0	854.0	915.0
82.5°	115.0	355.0	631.0	814.0	876.0
85°	61.0	310.0	587.0	770.0	834.0
87.5°	18.0	270.0	544.0	727.0	791.0
90°	2.0	233.0	504.0	685.0	747.0
92.5°	3.0	201.0	466.0	647.0	707.0
95°	4.0	169.0	427.0	605.0	664.0
97.5°	4.0	141.0	387.0	562.0	625.0
100°	4.0	114.0	349.0	518.0	576.0
102.5°	4.0	89.0	313.0	474.0	531.0
105°	4.0	60.0	278.0	435.0	489.0
107.5°	4.0	30.0	244.0	397.0	450.0
110°	4.0	6.0	210.0	358.0	409.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	4.0	177.0	317.0	369.0
115°	3.0	3.0	140.0	277.0	329.0
117.5°	3.0	3.0	100.0	240.0	287.0
120°	3.0	2.0	58.0	201.0	248.0
122.5°	2.0	2.0	19.0	156.0	207.0
125°	2.0	1.0	1.0	111.0	158.0
127.5°	2.0	1.0	0.0	62.0	107.0
130°	2.0	1.0	0.0	18.0	61.0
132.5°	2.0	1.0	0.0	0.0	13.0
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)