

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: P289944

Luminaire Tested: **4SSRK-LW-80-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289944
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-L830-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7312.7 lumens
Efficiency: N/A
Efficacy: 116.3 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

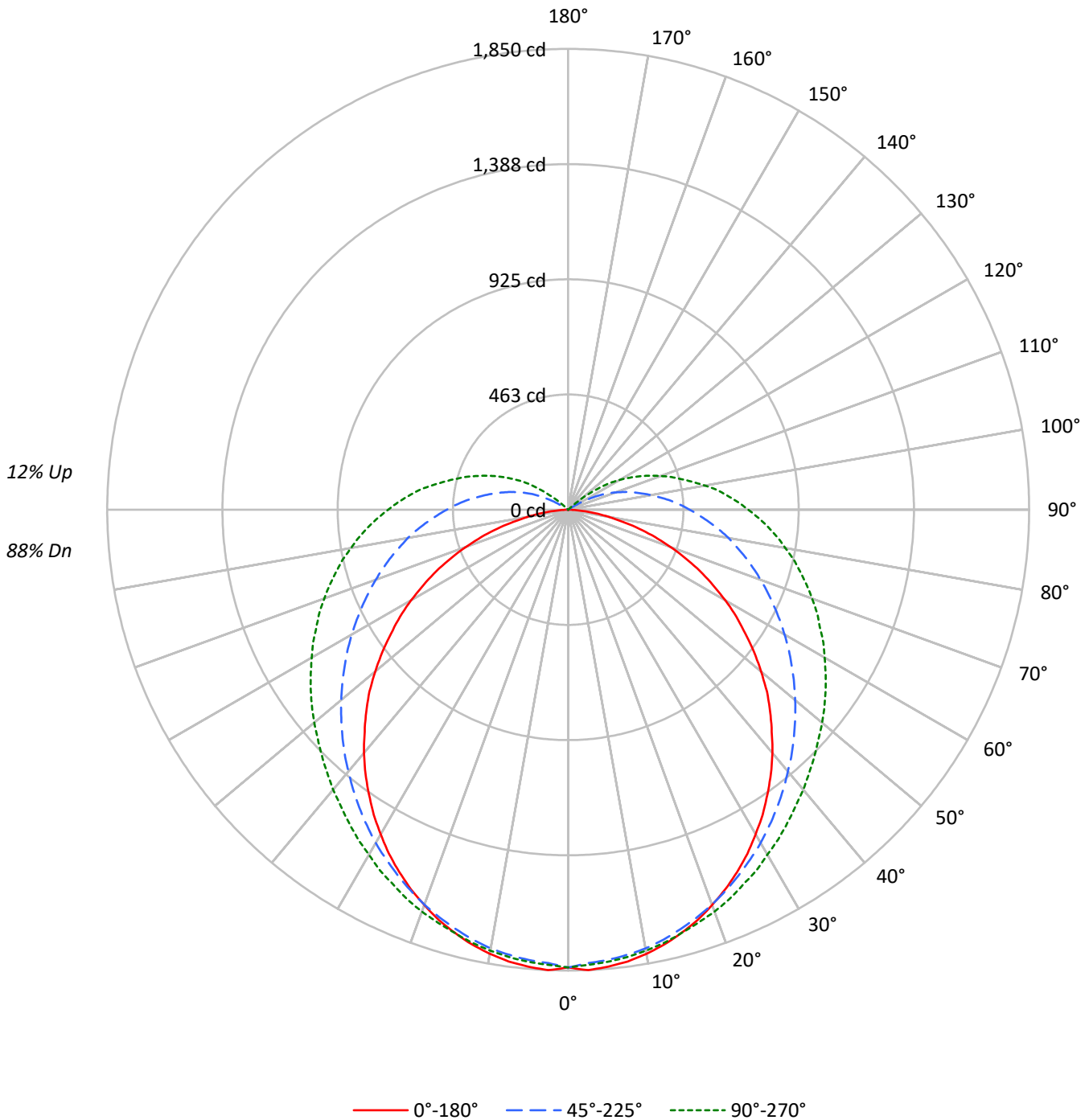
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	118684	118684	118684
5°	118950	94104	87509
10°	117872	77984	69144
15°	116271	65995	56780
20°	114334	56827	48045
25°	112171	49464	41305
30°	109539	43473	36030
35°	106789	38374	31822
40°	103868	34033	28398
45°	100526	30346	25533
50°	96696	27114	23175
55°	92256	24270	21161
60°	87691	21763	19357
65°	81910	19520	17783
70°	74025	17528	16396
75°	63662	15734	15099
80°	49156	14124	13889
85°	29615	12489	12787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	2.4
10°-20°	495.3	6.8
20°-30°	751.1	10.3
30°-40°	916.7	12.5
40°-50°	987.3	13.5
50°-60°	969.7	13.3
60°-70°	876.2	12.0
70°-80°	729.4	10.0
80°-90°	559.5	7.7
90°-100°	405.1	5.5
100°-110°	261.7	3.6
110°-120°	141.0	1.9
120°-130°	44.6	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°	1420.0	19.4
0°-40°	2336.7	32.0
0°-60°	4293.6	58.7
0°-90°	6458.7	88.3
90°-120°	807.8	11.0
90°-150°	854.1	11.7
90°-180°	854.0	11.7
0°-180°	7312.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1842	1835	1814	1828	1822	175
15°	1758	1754	1743	1762	1759	496
25°	1605	1607	1619	1654	1661	739
35°	1394	1412	1461	1519	1534	872
45°	1146	1190	1282	1366	1398	884
55°	868	954	1095	1217	1262	778
65°	584	710	911	1063	1115	576
75°	295	489	736	906	964	312
85°	59	300	567	744	806	71
90°	2	225	487	662	722	3
95°	4	163	413	585	642	3
105°	4	58	269	420	473	4
115°	3	3	135	268	318	3
125°	2	1	1	107	153	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°	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	1850.2	1842.5	1822.2	1834.8	1829.0
5°	1841.5	1834.8	1814.5	1828.0	1822.2
7.5°	1829.0	1822.2	1802.9	1816.4	1811.6
10°	1810.6	1803.8	1788.4	1801.9	1798.0
12.5°	1787.4	1782.6	1768.1	1784.5	1780.6
15°	1758.4	1754.5	1742.9	1762.3	1759.4
17.5°	1727.5	1723.6	1716.8	1737.1	1738.1
20°	1688.8	1687.8	1686.9	1713.0	1716.8
22.5°	1649.2	1650.1	1654.0	1685.9	1691.7
25°	1604.7	1606.6	1619.2	1654.0	1660.8
27.5°	1557.3	1564.1	1582.5	1623.1	1633.7
30°	1504.2	1515.8	1544.8	1587.3	1598.9
32.5°	1452.0	1464.5	1503.2	1553.5	1568.9
35°	1394.0	1412.3	1460.7	1518.7	1534.1
37.5°	1336.0	1357.2	1417.2	1480.0	1499.3
40°	1275.1	1303.1	1371.7	1442.3	1467.4
42.5°	1209.3	1249.0	1328.2	1403.6	1431.7
45°	1146.5	1190.0	1281.8	1365.9	1397.8
47.5°	1081.7	1133.9	1235.4	1329.2	1363.0
50°	1010.2	1073.0	1189.0	1292.5	1330.2
52.5°	940.6	1015.0	1142.6	1254.8	1296.3
55°	868.1	954.1	1095.3	1217.1	1261.5
57.5°	800.4	892.3	1049.8	1177.4	1224.8
60°	727.9	832.3	1002.5	1140.7	1188.1
62.5°	654.4	772.4	956.1	1101.1	1154.2
65°	583.9	710.5	910.6	1063.4	1114.6
67.5°	508.5	654.4	866.2	1022.8	1080.8
70°	436.9	596.4	821.7	984.1	1041.1
72.5°	365.4	540.4	778.2	945.4	1003.4
75°	294.8	489.1	735.6	905.8	963.8
77.5°	224.3	435.0	692.1	866.2	927.1
80°	163.4	387.6	653.5	825.6	884.5
82.5°	111.2	343.2	610.0	786.9	846.8
85°	59.0	299.7	567.4	744.3	806.2
87.5°	17.4	261.0	525.9	702.8	764.6
90°	1.9	225.2	487.2	662.2	722.1
92.5°	2.9	194.3	450.5	625.4	683.4
95°	3.9	163.4	412.8	584.8	641.9
97.5°	3.9	136.3	374.1	543.3	604.2
100°	3.9	110.2	337.4	500.7	556.8
102.5°	3.9	86.0	302.6	458.2	513.3
105°	3.9	58.0	268.7	420.5	472.7
107.5°	3.9	29.0	235.9	383.8	435.0
110°	3.9	5.8	203.0	346.1	395.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	3.9	171.1	306.4	356.7
115°	2.9	2.9	135.3	267.8	318.0
117.5°	2.9	2.9	96.7	232.0	277.4
120°	2.9	1.9	56.1	194.3	239.7
122.5°	1.9	1.9	18.4	150.8	200.1
125°	1.9	1.0	1.0	107.3	152.7
127.5°	1.9	1.0	0.0	59.9	103.4
130°	1.9	1.0	0.0	17.4	59.0
132.5°	1.9	1.0	0.0	0.0	12.6
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)