

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: P289943

Luminaire Tested: **4SSRK-LW-80-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289943
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-L950-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6816.1 lumens
Efficiency: N/A
Efficacy: 108.4 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

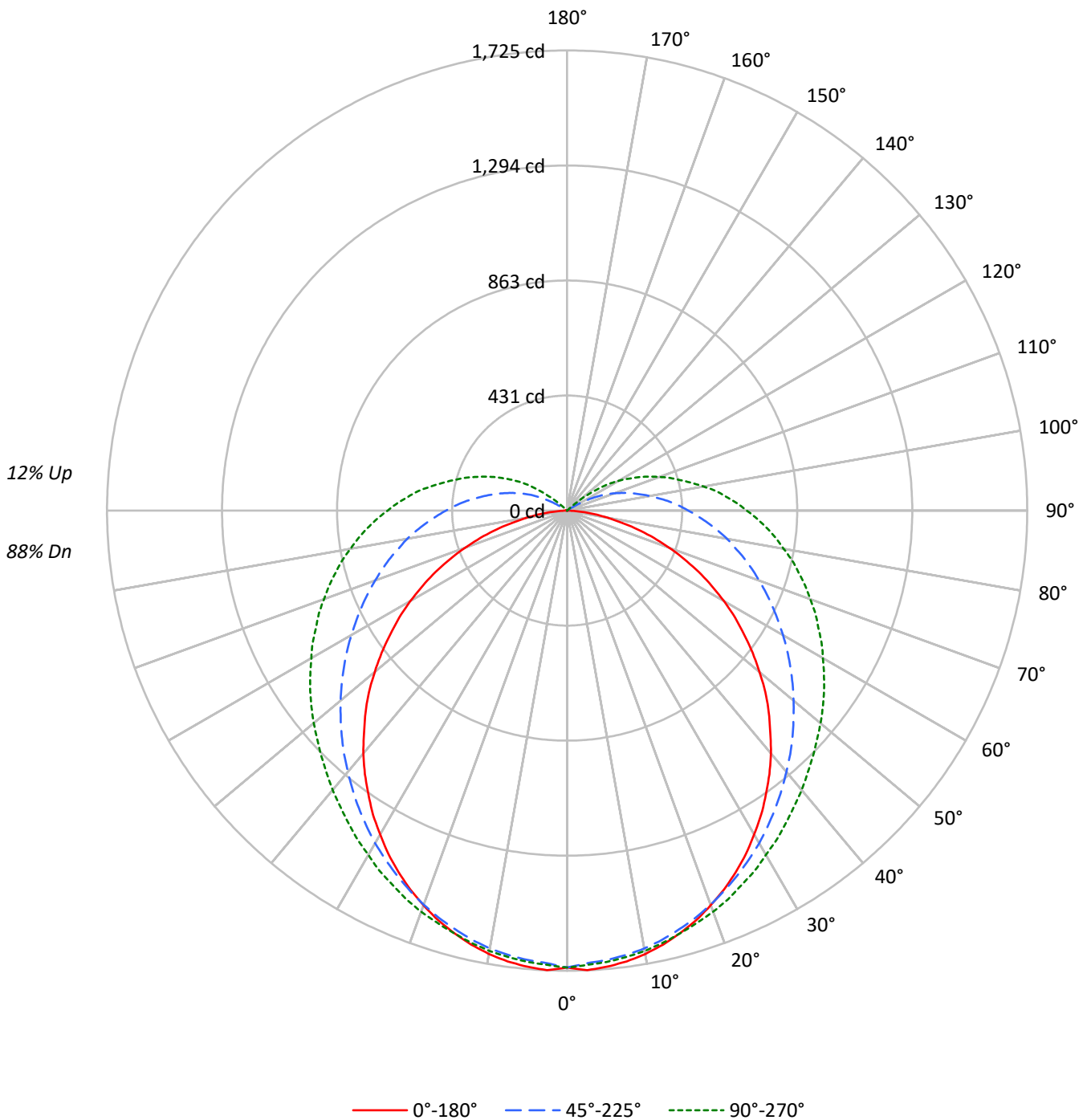
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	110624	110624	110624
5°	110876	87710	81563
10°	109864	72686	64449
15°	108376	61516	52923
20°	106568	52966	44782
25°	104551	46104	38500
30°	102097	40521	33583
35°	99534	35768	29661
40°	96814	31723	26470
45°	93696	28287	23800
50°	90130	25274	21600
55°	85986	22621	19723
60°	81740	20285	18042
65°	76341	18195	16576
70°	69010	16338	15283
75°	59343	14667	14073
80°	45817	13165	12945
85°	27607	11641	11919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	2.4
10°-20°	461.7	6.8
20°-30°	700.1	10.3
30°-40°	854.4	12.5
40°-50°	920.2	13.5
50°-60°	903.8	13.3
60°-70°	816.6	12.0
70°-80°	679.9	10.0
80°-90°	521.5	7.7
90°-100°	377.5	5.5
100°-110°	243.9	3.6
110°-120°	131.4	1.9
120°-130°	41.6	0.6
130°-140°	1.6	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°	1323.6	19.4
0°-40°	2178.0	32.0
0°-60°	4002.0	58.7
0°-90°	6020.0	88.3
90°-120°	752.9	11.0
90°-150°	796.0	11.7
90°-180°	796.0	11.7
0°-180°	6816.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1713	1713	1713	1713	1713	
5°	1716	1710	1691	1704	1698	163
15°	1639	1635	1625	1643	1640	462
25°	1496	1498	1509	1542	1548	689
35°	1299	1316	1362	1416	1430	813
45°	1069	1109	1195	1273	1303	824
55°	809	889	1021	1134	1176	725
65°	544	662	849	991	1039	537
75°	275	456	686	844	898	291
85°	55	279	529	694	752	66
90°	2	210	454	617	673	3
95°	4	152	385	545	598	3
105°	4	54	250	392	441	4
115°	3	3	126	250	296	3
125°	2	1	1	100	142	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°	1712.9	1712.9	1712.9	1712.9	1712.9
2.5°	1724.6	1717.4	1698.4	1710.2	1704.8
5°	1716.5	1710.2	1691.2	1703.9	1698.4
7.5°	1704.8	1698.4	1680.4	1693.0	1688.5
10°	1687.6	1681.3	1666.9	1679.5	1675.9
12.5°	1666.0	1661.5	1648.0	1663.3	1659.7
15°	1639.0	1635.4	1624.6	1642.6	1639.9
17.5°	1610.1	1606.5	1600.2	1619.2	1620.1
20°	1574.1	1573.2	1572.3	1596.6	1600.2
22.5°	1537.2	1538.1	1541.7	1571.4	1576.8
25°	1495.7	1497.5	1509.2	1541.7	1548.0
27.5°	1451.6	1457.9	1475.0	1512.8	1522.7
30°	1402.0	1412.8	1439.9	1479.5	1490.3
32.5°	1353.4	1365.1	1401.1	1448.0	1462.4
35°	1299.3	1316.4	1361.5	1415.5	1429.9
37.5°	1245.2	1265.1	1320.9	1379.5	1397.5
40°	1188.5	1214.6	1278.6	1344.3	1367.8
42.5°	1127.2	1164.1	1238.0	1308.3	1334.4
45°	1068.6	1109.2	1194.8	1273.2	1302.9
47.5°	1008.3	1056.9	1151.5	1238.9	1270.5
50°	941.6	1000.1	1108.3	1204.7	1239.8
52.5°	876.7	946.1	1065.0	1169.5	1208.3
55°	809.1	889.3	1020.9	1134.4	1175.8
57.5°	746.1	831.7	978.5	1097.5	1141.6
60°	678.5	775.8	934.4	1063.2	1107.4
62.5°	610.0	719.9	891.1	1026.3	1075.8
65°	544.2	662.3	848.8	991.1	1038.9
67.5°	473.9	610.0	807.3	953.3	1007.4
70°	407.3	555.9	765.9	917.3	970.4
72.5°	340.6	503.7	725.3	881.2	935.3
75°	274.8	455.9	685.7	844.3	898.3
77.5°	209.0	405.5	645.1	807.3	864.1
80°	152.3	361.3	609.1	769.5	824.4
82.5°	103.6	319.9	568.6	733.4	789.3
85°	55.0	279.3	528.9	693.8	751.5
87.5°	16.2	243.3	490.2	655.1	712.7
90°	1.8	209.9	454.1	617.2	673.1
92.5°	2.7	181.1	419.9	583.0	637.0
95°	3.6	152.3	384.7	545.1	598.3
97.5°	3.6	127.0	348.7	506.4	563.1
100°	3.6	102.7	314.5	466.7	519.0
102.5°	3.6	80.2	282.0	427.1	478.4
105°	3.6	54.1	250.5	391.9	440.6
107.5°	3.6	27.0	219.9	357.7	405.5
110°	3.6	5.4	189.2	322.6	368.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	3.6	159.5	285.6	332.5
115°	2.7	2.7	126.1	249.6	296.4
117.5°	2.7	2.7	90.1	216.2	258.6
120°	2.7	1.8	52.3	181.1	223.5
122.5°	1.8	1.8	17.1	140.6	186.5
125°	1.8	0.9	0.9	100.0	142.4
127.5°	1.8	0.9	0.0	55.9	96.4
130°	1.8	0.9	0.0	16.2	55.0
132.5°	1.8	0.9	0.0	0.0	11.7
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)