

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: P289941

Luminaire Tested: **4SSRK-LW-80-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289941
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-L935-CD1-U
Description: 8000 LUMEN, 4 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: 6248.6 lumens
Efficiency: N/A
Efficacy: 99.3 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

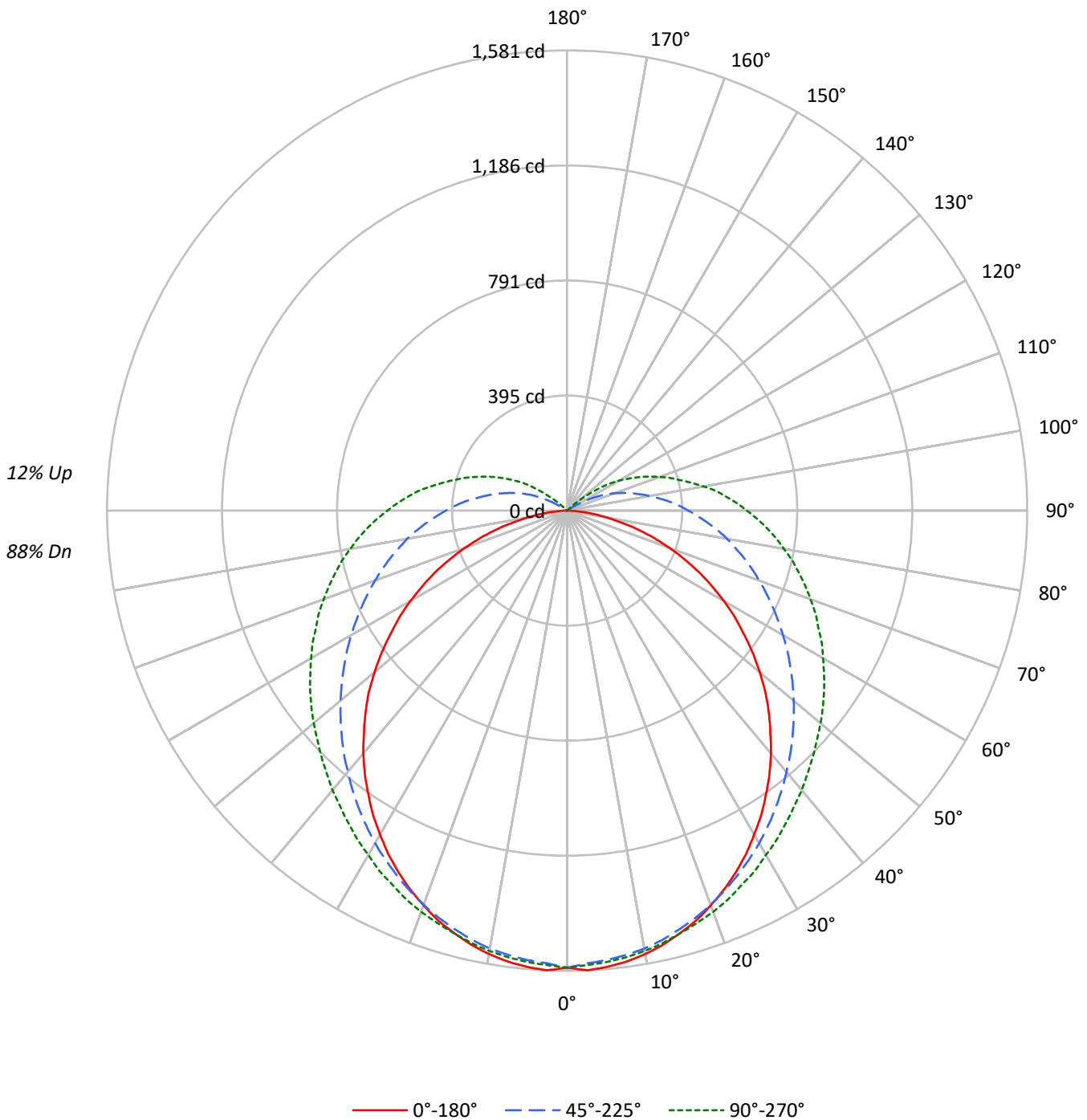
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	101415	101415	101415
5°	101645	80408	74778
10°	100718	66634	59084
15°	99350	56393	48518
20°	97699	48557	41054
25°	95849	42267	35294
30°	93598	37146	30786
35°	91246	32789	27192
40°	88750	29080	24266
45°	85901	25931	21818
50°	82626	23169	19802
55°	78833	20738	18082
60°	74933	18596	16540
65°	69986	16680	15196
70°	63266	14977	14010
75°	54398	13446	12901
80°	41996	12069	11868
85°	25298	10673	10926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	2.4
10°-20°	423.3	6.8
20°-30°	641.8	10.3
30°-40°	783.3	12.5
40°-50°	843.6	13.5
50°-60°	828.6	13.3
60°-70°	748.7	12.0
70°-80°	623.3	10.0
80°-90°	478.0	7.7
90°-100°	346.1	5.5
100°-110°	223.6	3.6
110°-120°	120.5	1.9
120°-130°	38.1	0.6
130°-140°	1.4	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°	1213.4	19.4
0°-40°	1996.7	32.0
0°-60°	3668.8	58.7
0°-90°	5518.8	88.3
90°-120°	690.2	11.0
90°-150°	729.8	11.7
90°-180°	730.0	11.7
0°-180°	6248.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1574	1568	1550	1562	1557	149
15°	1502	1499	1489	1506	1503	424
25°	1371	1373	1384	1413	1419	631
35°	1191	1207	1248	1298	1311	745
45°	980	1017	1095	1167	1194	755
55°	742	815	936	1040	1078	665
65°	499	607	778	909	952	492
75°	252	418	629	774	824	267
85°	50	256	485	636	689	61
90°	2	192	416	566	617	3
95°	3	140	353	500	548	3
105°	3	50	230	359	404	3
115°	2	2	116	229	272	3
125°	2	1	1	92	130	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°	1570.3	1570.3	1570.3	1570.3	1570.3
2.5°	1581.0	1574.4	1557.1	1567.8	1562.8
5°	1573.6	1567.8	1550.4	1562.0	1557.1
7.5°	1562.8	1557.1	1540.5	1552.1	1548.0
10°	1547.1	1541.4	1528.1	1539.7	1536.4
12.5°	1527.3	1523.2	1510.8	1524.8	1521.5
15°	1502.5	1499.2	1489.3	1505.8	1503.4
17.5°	1476.1	1472.8	1467.0	1484.4	1485.2
20°	1443.1	1442.2	1441.4	1463.7	1467.0
22.5°	1409.2	1410.0	1413.3	1440.6	1445.5
25°	1371.2	1372.9	1383.6	1413.3	1419.1
27.5°	1330.7	1336.5	1352.2	1386.9	1396.0
30°	1285.3	1295.2	1320.0	1356.3	1366.2
32.5°	1240.7	1251.4	1284.5	1327.4	1340.6
35°	1191.1	1206.8	1248.1	1297.7	1310.9
37.5°	1141.6	1159.7	1211.0	1264.6	1281.2
40°	1089.5	1113.5	1172.1	1232.4	1253.9
42.5°	1033.4	1067.2	1135.0	1199.4	1223.3
45°	979.7	1016.8	1095.3	1167.2	1194.4
47.5°	924.3	968.9	1055.7	1135.8	1164.7
50°	863.2	916.9	1016.0	1104.4	1136.6
52.5°	803.7	867.3	976.4	1072.2	1107.7
55°	741.8	815.3	935.9	1040.0	1078.0
57.5°	683.9	762.4	897.1	1006.1	1046.6
60°	622.0	711.2	856.6	974.7	1015.2
62.5°	559.2	660.0	816.9	940.8	986.3
65°	498.9	607.1	778.1	908.6	952.4
67.5°	434.5	559.2	740.1	873.9	923.5
70°	373.4	509.7	702.1	840.9	889.6
72.5°	312.2	461.7	664.9	807.9	857.4
75°	251.9	418.0	628.6	774.0	823.5
77.5°	191.6	371.7	591.4	740.1	792.2
80°	139.6	331.2	558.4	705.4	755.8
82.5°	95.0	293.2	521.2	672.4	723.6
85°	50.4	256.1	484.9	636.0	688.9
87.5°	14.9	223.0	449.4	600.5	653.4
90°	1.7	192.5	416.3	565.8	617.0
92.5°	2.5	166.0	384.9	534.4	584.0
95°	3.3	139.6	352.7	499.7	548.5
97.5°	3.3	116.5	319.7	464.2	516.3
100°	3.3	94.2	288.3	427.9	475.8
102.5°	3.3	73.5	258.5	391.5	438.6
105°	3.3	49.6	229.6	359.3	403.9
107.5°	3.3	24.8	201.5	327.9	371.7
110°	3.3	5.0	173.5	295.7	337.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	3.3	146.2	261.8	304.8
115°	2.5	2.5	115.6	228.8	271.8
117.5°	2.5	2.5	82.6	198.2	237.1
120°	2.5	1.7	47.9	166.0	204.9
122.5°	1.7	1.7	15.7	128.9	171.0
125°	1.7	0.8	0.8	91.7	130.5
127.5°	1.7	0.8	0.0	51.2	88.4
130°	1.7	0.8	0.0	14.9	50.4
132.5°	1.7	0.8	0.0	0.0	10.7
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)