

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: P289940

Luminaire Tested: **4SSRK-LW-80-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289940
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-L930-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5886.7 lumens
Efficiency: N/A
Efficacy: 93.6 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

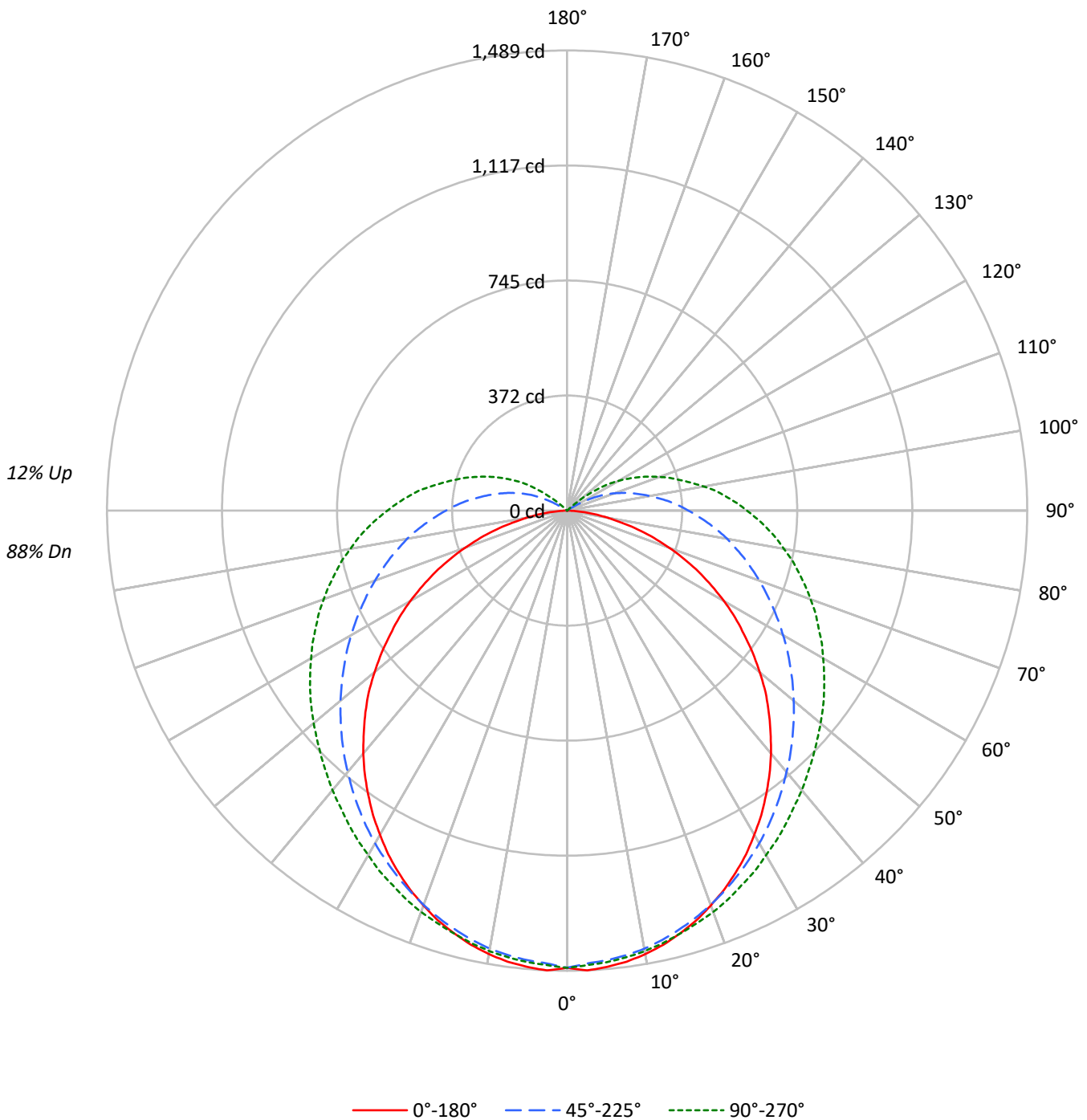
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	95538	95538	95538
5°	95754	75750	70446
10°	94885	62775	55661
15°	93597	53129	45707
20°	92040	45744	38678
25°	90298	39820	33249
30°	88180	34994	29004
35°	85960	30889	25618
40°	83610	27396	22861
45°	80921	24430	20556
50°	77840	21828	18656
55°	74264	19537	17034
60°	70596	17519	15582
65°	65932	15713	14315
70°	59589	14111	13199
75°	51245	12667	12154
80°	39559	11371	11180
85°	23843	10055	10294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	2.4
10°-20°	398.7	6.8
20°-30°	604.7	10.3
30°-40°	737.9	12.5
40°-50°	794.8	13.5
50°-60°	780.6	13.3
60°-70°	705.3	12.0
70°-80°	587.2	10.0
80°-90°	450.4	7.7
90°-100°	326.1	5.5
100°-110°	210.6	3.6
110°-120°	113.5	1.9
120°-130°	35.9	0.6
130°-140°	1.3	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°	1143.1	19.4
0°-40°	1881.0	32.0
0°-60°	3456.4	58.7
0°-90°	5199.2	88.3
90°-120°	650.2	11.0
90°-150°	687.5	11.7
90°-180°	688.0	11.7
0°-180°	5886.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1479	1479	1479	1479	1479	
5°	1482	1477	1461	1472	1467	141
15°	1416	1412	1403	1419	1416	399
25°	1292	1293	1304	1332	1337	595
35°	1122	1137	1176	1222	1235	702
45°	923	958	1032	1100	1125	712
55°	699	768	882	980	1016	626
65°	470	572	733	856	897	464
75°	237	394	592	729	776	251
85°	48	241	457	599	649	57
90°	2	181	392	533	581	3
95°	3	132	332	471	517	2
105°	3	47	216	338	380	3
115°	2	2	109	216	256	2
125°	2	1	1	86	123	2
135°	0	0	0	0	0	0
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°	1479.3	1479.3	1479.3	1479.3	1479.3
2.5°	1489.4	1483.2	1466.9	1477.0	1472.3
5°	1482.4	1477.0	1460.6	1471.5	1466.9
7.5°	1472.3	1466.9	1451.3	1462.2	1458.3
10°	1457.5	1452.1	1439.6	1450.5	1447.4
12.5°	1438.9	1435.0	1423.3	1436.5	1433.4
15°	1415.5	1412.4	1403.1	1418.6	1416.3
17.5°	1390.6	1387.5	1382.1	1398.4	1399.2
20°	1359.5	1358.7	1357.9	1378.9	1382.1
22.5°	1327.6	1328.4	1331.5	1357.2	1361.8
25°	1291.8	1293.3	1303.5	1331.5	1336.9
27.5°	1253.7	1259.1	1273.9	1306.6	1315.1
30°	1210.9	1220.2	1243.5	1277.8	1287.1
32.5°	1168.8	1178.9	1210.1	1250.5	1263.0
35°	1122.1	1136.9	1175.8	1222.5	1235.0
37.5°	1075.4	1092.6	1140.8	1191.4	1207.0
40°	1026.4	1049.0	1104.2	1161.0	1181.3
42.5°	973.5	1005.4	1069.2	1129.9	1152.5
45°	922.9	957.9	1031.9	1099.6	1125.3
47.5°	870.8	912.8	994.5	1070.0	1097.2
50°	813.2	863.8	957.2	1040.4	1070.8
52.5°	757.2	817.1	919.8	1010.1	1043.5
55°	698.8	768.1	881.7	979.7	1015.5
57.5°	644.3	718.3	845.1	947.8	986.0
60°	586.0	670.0	807.0	918.3	956.4
62.5°	526.8	621.8	769.6	886.3	929.1
65°	470.0	572.0	733.0	856.0	897.2
67.5°	409.3	526.8	697.3	823.3	870.0
70°	351.7	480.1	661.5	792.2	838.1
72.5°	294.2	435.0	626.4	761.1	807.8
75°	237.3	393.8	592.2	729.2	775.8
77.5°	180.5	350.2	557.2	697.3	746.3
80°	131.5	312.1	526.1	664.6	712.0
82.5°	89.5	276.3	491.0	633.4	681.7
85°	47.5	241.2	456.8	599.2	649.0
87.5°	14.0	210.1	423.3	565.7	615.5
90°	1.6	181.3	392.2	533.1	581.3
92.5°	2.3	156.4	362.6	503.5	550.2
95°	3.1	131.5	332.3	470.8	516.7
97.5°	3.1	109.7	301.2	437.3	486.4
100°	3.1	88.7	271.6	403.1	448.2
102.5°	3.1	69.3	243.6	368.9	413.2
105°	3.1	46.7	216.3	338.5	380.5
107.5°	3.1	23.3	189.9	308.9	350.2
110°	3.1	4.7	163.4	278.6	318.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	3.1	137.7	246.7	287.1
115°	2.3	2.3	108.9	215.6	256.0
117.5°	2.3	2.3	77.8	186.8	223.3
120°	2.3	1.6	45.1	156.4	193.0
122.5°	1.6	1.6	14.8	121.4	161.1
125°	1.6	0.8	0.8	86.4	123.0
127.5°	1.6	0.8	0.0	48.2	83.3
130°	1.6	0.8	0.0	14.0	47.5
132.5°	1.6	0.8	0.0	0.0	10.1
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)