

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: P289765

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-TS-80-L935-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6327.1 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

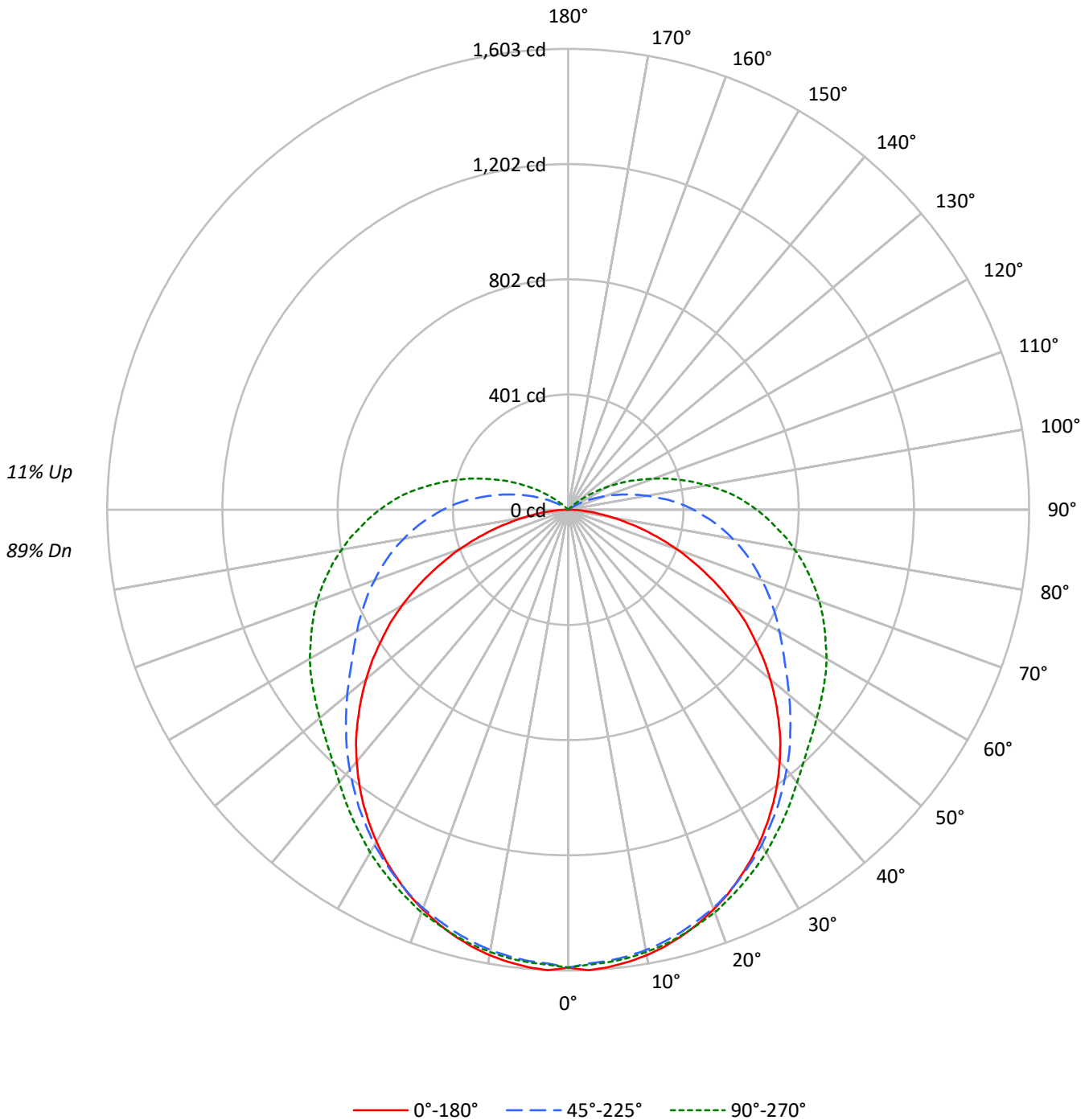
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	92	92	89
1	103	97	91	87	99	94	89	84	87	83	79	81	78	75	76	73	71	68
2	93	83	75	68	89	80	73	67	75	68	63	70	65	60	65	61	57	54
3	84	72	63	56	80	69	61	54	65	58	52	61	55	50	57	52	47	45
4	76	63	54	46	73	61	52	45	57	50	44	53	47	42	50	45	40	37
5	70	56	47	39	67	54	45	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	41	35	30	28
7	60	46	36	30	57	44	36	29	42	34	28	39	33	28	37	31	27	24
8	56	41	33	27	53	40	32	26	38	31	25	36	29	25	34	28	24	22
9	52	38	29	24	50	37	29	23	35	28	23	33	27	22	31	26	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°	102855	102855	102855
5°	103189	81735	75887
10°	102443	67824	60068
15°	101426	57582	49422
20°	100157	49699	41726
25°	98680	43199	35724
30°	97087	37889	31029
35°	95298	33288	27157
40°	93189	29306	23962
45°	90679	25853	21502
50°	87766	22868	19657
55°	84275	20352	18165
60°	80306	18415	16903
65°	74742	16768	15697
70°	68162	15278	14636
75°	59040	13906	13575
80°	47471	12551	12556
85°	32326	11219	11542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	2.4
10°-20°	431.7	6.8
20°-30°	655.5	10.4
30°-40°	796.8	12.6
40°-50°	850.4	13.4
50°-60°	834.0	13.2
60°-70°	762.0	12.0
70°-80°	646.7	10.2
80°-90°	503.2	8.0
90°-100°	354.8	5.6
100°-110°	210.9	3.3
110°-120°	99.8	1.6
120°-130°	28.9	0.5
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°	1237.9	19.6
0°-40°	2034.7	32.2
0°-60°	3719.1	58.8
0°-90°	5631.0	89.0
90°-120°	665.6	10.5
90°-150°	696.2	11.0
90°-180°	696.0	11.0
0°-180°	6327.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1593	1593	1593	1593	1593	
5°	1598	1592	1576	1585	1580	152
15°	1534	1531	1521	1534	1531	433
25°	1412	1412	1414	1436	1436	651
35°	1244	1251	1267	1298	1309	778
45°	1034	1052	1092	1150	1177	798
55°	793	827	918	1038	1083	710
65°	533	601	782	932	984	528
75°	273	415	650	811	866	290
85°	64	264	510	672	728	72
90°	5	196	435	599	655	6
95°	5	131	359	519	579	4
105°	4	36	205	348	401	4
115°	3	3	83	191	236	3
125°	2	2	4	64	93	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°	1592.6	1592.6	1592.6	1592.6	1592.6
2.5°	1603.3	1597.5	1580.2	1589.3	1584.3
5°	1597.5	1591.7	1576.0	1585.1	1580.2
7.5°	1586.8	1582.6	1567.0	1576.9	1573.6
10°	1573.6	1569.4	1555.4	1567.0	1562.0
12.5°	1555.4	1551.3	1539.7	1551.3	1549.6
15°	1533.9	1530.6	1520.7	1533.9	1531.4
17.5°	1508.3	1505.8	1497.6	1514.1	1510.8
20°	1479.4	1477.7	1475.3	1490.1	1491.0
22.5°	1448.0	1448.0	1446.4	1462.9	1463.7
25°	1411.7	1412.5	1414.1	1436.4	1436.4
27.5°	1374.5	1377.0	1381.1	1402.6	1407.5
30°	1333.2	1337.3	1346.4	1369.5	1377.0
32.5°	1289.4	1296.0	1305.9	1334.8	1342.3
35°	1244.0	1250.6	1267.1	1298.5	1309.2
37.5°	1195.2	1202.7	1224.2	1259.7	1273.7
40°	1144.0	1152.3	1181.2	1225.8	1238.2
42.5°	1092.0	1103.6	1139.1	1187.0	1206.0
45°	1034.2	1051.5	1092.0	1149.8	1177.1
47.5°	976.4	997.0	1047.4	1118.4	1151.5
50°	916.9	940.0	1002.8	1090.3	1128.3
52.5°	857.4	883.0	959.0	1063.9	1105.2
55°	793.0	826.8	918.5	1038.3	1082.9
57.5°	733.5	769.8	882.2	1012.7	1061.4
60°	666.6	712.9	848.3	986.3	1037.5
62.5°	600.5	655.9	816.1	959.0	1009.4
65°	532.8	601.3	782.2	931.7	983.8
67.5°	465.9	546.0	750.8	903.7	957.4
70°	402.3	498.1	716.2	874.8	929.3
72.5°	335.4	456.0	683.9	844.2	898.7
75°	273.4	414.7	650.1	811.1	866.5
77.5°	210.6	375.8	617.0	778.1	835.1
80°	157.8	339.5	580.7	743.4	799.6
82.5°	107.4	303.1	545.2	707.9	766.5
85°	64.4	264.3	509.7	671.6	727.7
87.5°	28.9	230.5	470.8	634.4	693.0
90°	5.0	195.8	435.3	598.9	655.0
92.5°	5.8	164.4	399.0	560.9	617.0
95°	5.0	131.3	359.3	518.7	579.0
97.5°	5.0	103.3	317.2	477.4	532.8
100°	4.1	76.8	276.7	433.7	488.2
102.5°	4.1	54.5	240.4	390.7	445.2
105°	4.1	35.5	204.9	347.8	400.6
107.5°	4.1	19.8	170.2	306.5	360.1
110°	4.1	7.4	138.8	269.3	313.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.3	3.3	108.2	228.0	274.2
115°	3.3	3.3	83.4	190.8	236.2
117.5°	3.3	2.5	57.0	156.1	197.4
120°	3.3	2.5	35.5	124.7	160.2
122.5°	2.5	1.7	17.3	92.5	128.0
125°	2.5	1.7	4.1	63.6	93.3
127.5°	2.5	0.8	0.0	38.0	64.4
130°	1.7	0.8	0.0	18.2	38.0
132.5°	1.7	0.8	0.0	3.3	16.5
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)