

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: P289764

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289764
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-L930-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 90 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5960.7 lumens
Efficiency: N/A
Efficacy: 94.8 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

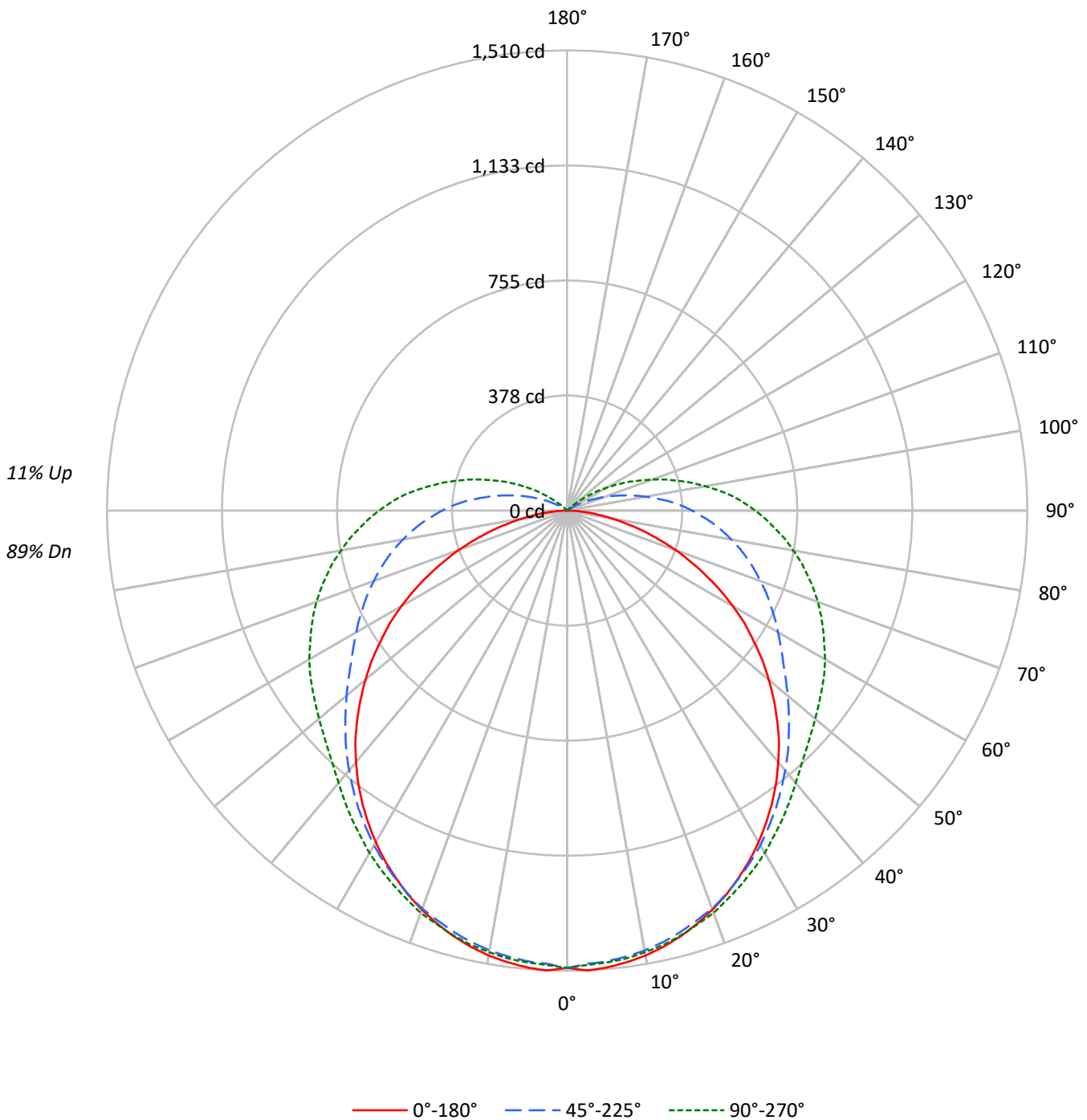
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	96894	96894	96894
5°	97214	77005	71488
10°	96506	63895	56588
15°	95554	54246	46559
20°	94355	46818	39308
25°	92962	40697	33655
30°	91465	35694	29231
35°	89775	31359	25585
40°	87797	27609	22575
45°	85427	24354	20256
50°	82683	21543	18520
55°	79386	19174	17113
60°	75656	17350	15924
65°	70407	15797	14787
70°	64215	14393	13787
75°	55628	13099	12788
80°	44703	11825	11829
85°	30468	10567	10874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	2.4
10°-20°	406.7	6.8
20°-30°	617.5	10.4
30°-40°	750.7	12.6
40°-50°	801.1	13.4
50°-60°	785.7	13.2
60°-70°	717.8	12.0
70°-80°	609.2	10.2
80°-90°	474.1	8.0
90°-100°	334.3	5.6
100°-110°	198.7	3.3
110°-120°	94.1	1.6
120°-130°	27.3	0.5
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°	1166.2	19.6
0°-40°	1916.8	32.2
0°-60°	3503.7	58.8
0°-90°	5304.8	89.0
90°-120°	627.0	10.5
90°-150°	655.9	11.0
90°-180°	656.0	11.0
0°-180°	5960.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1500	1500	1500	1500	1500	
5°	1505	1500	1485	1493	1489	143
15°	1445	1442	1433	1445	1443	408
25°	1330	1331	1332	1353	1353	613
35°	1172	1178	1194	1223	1233	733
45°	974	991	1029	1083	1109	752
55°	747	779	865	978	1020	669
65°	502	566	737	878	927	497
75°	258	391	612	764	816	273
85°	61	249	480	633	686	68
90°	5	184	410	564	617	6
95°	5	124	338	489	546	4
105°	4	34	193	328	377	4
115°	3	3	79	180	223	3
125°	2	2	4	60	88	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°	1500.3	1500.3	1500.3	1500.3	1500.3
2.5°	1510.4	1505.0	1488.6	1497.2	1492.5
5°	1505.0	1499.5	1484.8	1493.3	1488.6
7.5°	1494.9	1491.0	1476.2	1485.5	1482.4
10°	1482.4	1478.5	1465.3	1476.2	1471.5
12.5°	1465.3	1461.4	1450.5	1461.4	1459.9
15°	1445.1	1442.0	1432.6	1445.1	1442.7
17.5°	1420.9	1418.6	1410.8	1426.4	1423.3
20°	1393.7	1392.2	1389.8	1403.8	1404.6
22.5°	1364.1	1364.1	1362.6	1378.1	1378.9
25°	1329.9	1330.7	1332.2	1353.2	1353.2
27.5°	1294.9	1297.2	1301.1	1321.3	1326.0
30°	1256.0	1259.9	1268.4	1290.2	1297.2
32.5°	1214.7	1221.0	1230.3	1257.5	1264.5
35°	1171.9	1178.2	1193.7	1223.3	1233.4
37.5°	1126.0	1133.0	1153.3	1186.7	1199.9
40°	1077.8	1085.6	1112.8	1154.8	1166.5
42.5°	1028.7	1039.6	1073.1	1118.2	1136.1
45°	974.3	990.6	1028.7	1083.2	1108.9
47.5°	919.8	939.3	986.7	1053.6	1084.8
50°	863.8	885.6	944.7	1027.2	1063.0
52.5°	807.7	831.9	903.5	1002.3	1041.2
55°	747.0	779.0	865.3	978.2	1020.2
57.5°	691.0	725.3	831.1	954.0	1000.0
60°	628.0	671.6	799.2	929.1	977.4
62.5°	565.7	617.9	768.8	903.5	950.9
65°	501.9	566.5	736.9	877.8	926.8
67.5°	438.9	514.4	707.4	851.3	901.9
70°	379.0	469.2	674.7	824.1	875.4
72.5°	315.9	429.6	644.3	795.3	846.7
75°	257.6	390.6	612.4	764.2	816.3
77.5°	198.4	354.1	581.3	733.0	786.7
80°	148.6	319.8	547.1	700.4	753.3
82.5°	101.2	285.6	513.6	666.9	722.1
85°	60.7	249.0	480.1	632.7	685.6
87.5°	27.2	217.1	443.6	597.6	652.9
90°	4.7	184.4	410.1	564.2	617.1
92.5°	5.4	154.9	375.9	528.4	581.3
95°	4.7	123.7	338.5	488.7	545.5
97.5°	4.7	97.3	298.8	449.8	501.9
100°	3.9	72.4	260.7	408.5	459.9
102.5°	3.9	51.4	226.4	368.1	419.4
105°	3.9	33.5	193.0	327.6	377.4
107.5°	3.9	18.7	160.3	288.7	339.3
110°	3.9	7.0	130.7	253.7	295.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.1	3.1	101.9	214.8	258.4
115°	3.1	3.1	78.6	179.8	222.6
117.5°	3.1	2.3	53.7	147.1	186.0
120°	3.1	2.3	33.5	117.5	151.0
122.5°	2.3	1.6	16.3	87.2	120.6
125°	2.3	1.6	3.9	59.9	87.9
127.5°	2.3	0.8	0.0	35.8	60.7
130°	1.6	0.8	0.0	17.1	35.8
132.5°	1.6	0.8	0.0	3.1	15.6
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)