

Scaled data based on original data using
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 766466

Luminaire Tested: **RMA15SXX22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 766466
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: RMA15SXX22
Description: RMA 150W HPS TYPE II ACRYLIC
Light Source: 150 WATT HPS ED 23.5
Ballast/Driver: -

Summary

Lumens per Lamp: 16000 (1 lamp)
Luminaire Lumens: 12758.7 lumens
Efficiency: 79.7%
Efficacy: 85.1 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B3 - U4 - G5

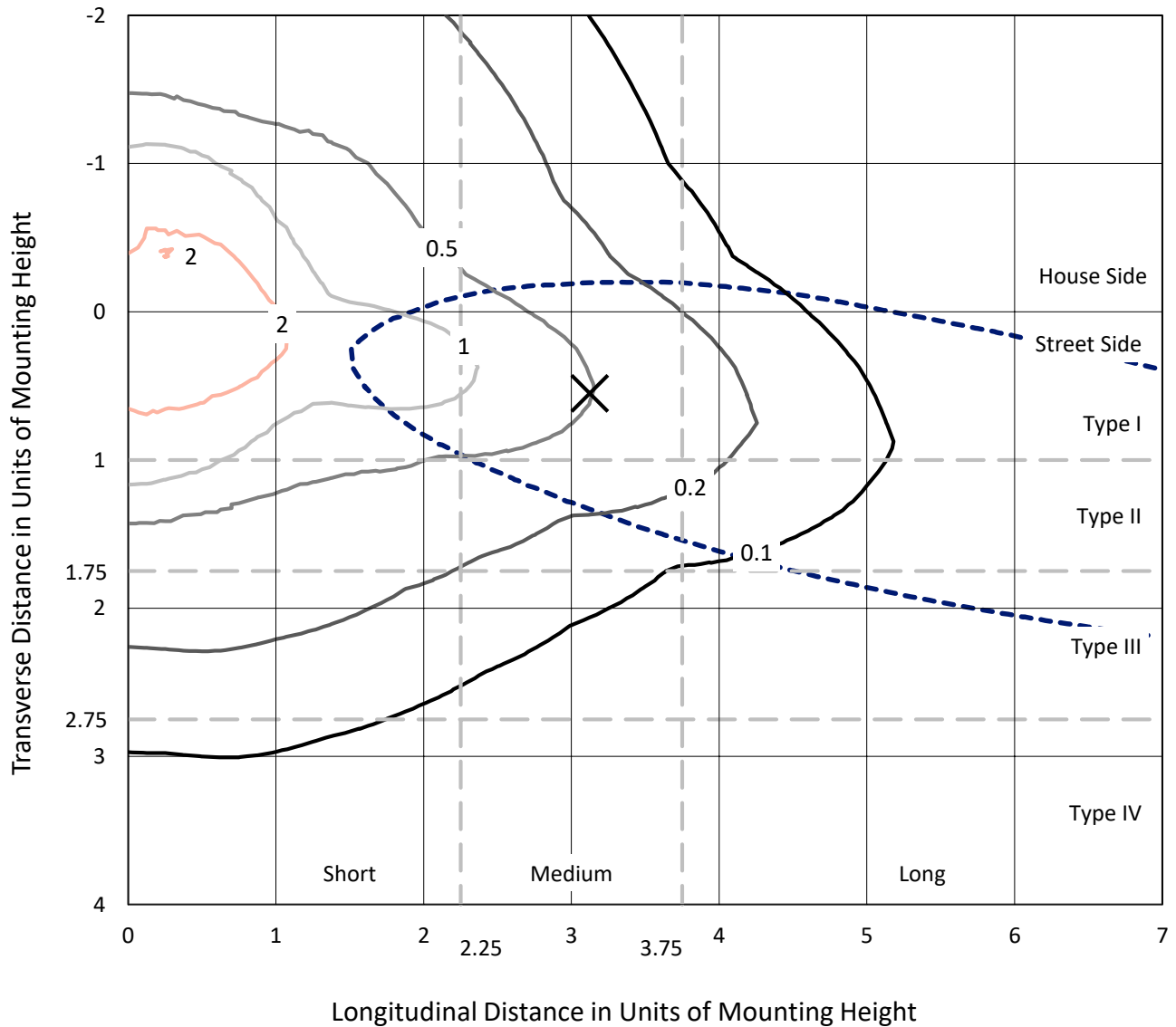
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

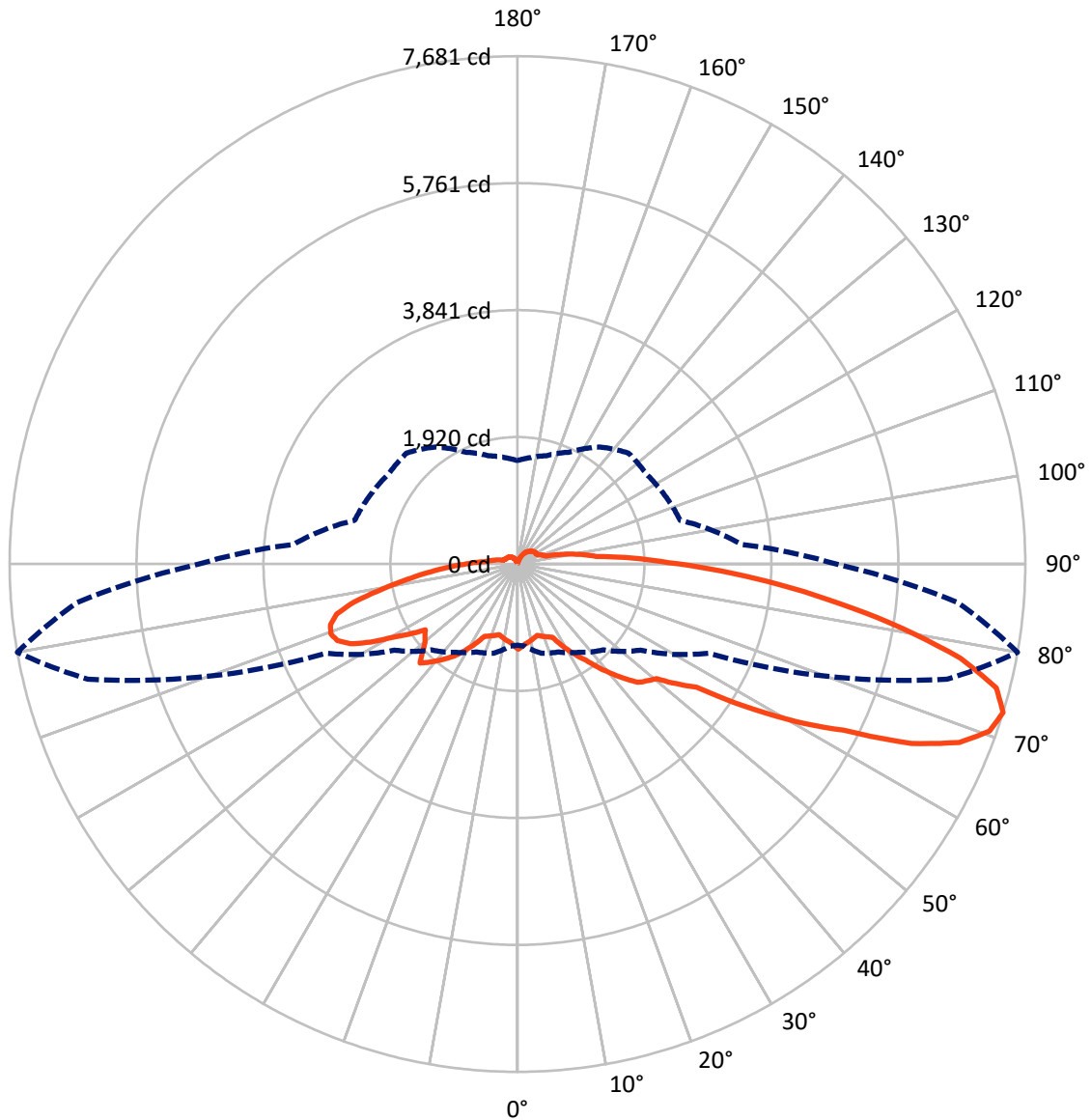
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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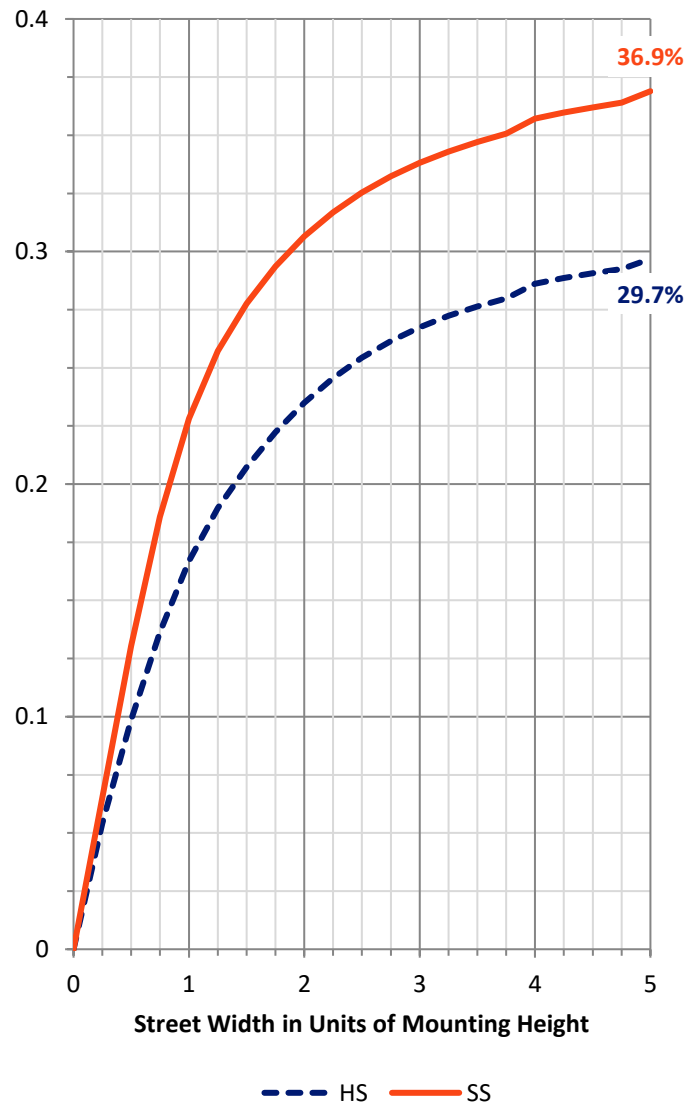
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4984.9	595.6	5580.5
	% Lamp	31.2	3.7	34.9
Street Side	Lumens	6251.6	926.6	7178.2
	% Lamp	39.1	5.8	44.9
Total	Lumens	11236.5	1522.2	12758.7
	% Lamp	70.2	9.5	79.7

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	112.9	0.9	0.7
10°-20°	317.0	2.5	2.0
20°-30°	566.0	4.4	3.5
30°-40°	975.8	7.6	6.1
40°-50°	1321.8	10.4	8.3
50°-60°	1473.5	11.5	9.2
60°-70°	2348.6	18.4	14.7
70°-80°	2559.7	20.1	16.0
80°-90°	1488.1	11.7	9.3
90°-100°	645.5	5.1	4.0
100°-110°	326.3	2.6	2.0
110°-120°	202.0	1.6	1.3
120°-130°	157.6	1.2	1.0
130°-140°	116.0	0.9	0.7
140°-150°	71.4	0.6	0.4
150°-160°	31.1	0.2	0.2
160°-170°	6.6	0.1	0.0
170°-180°	0.3	0.0	0.0
0°-90°	11236.5	88.1	70.2
0°-180°	12758.7	100.0	79.7

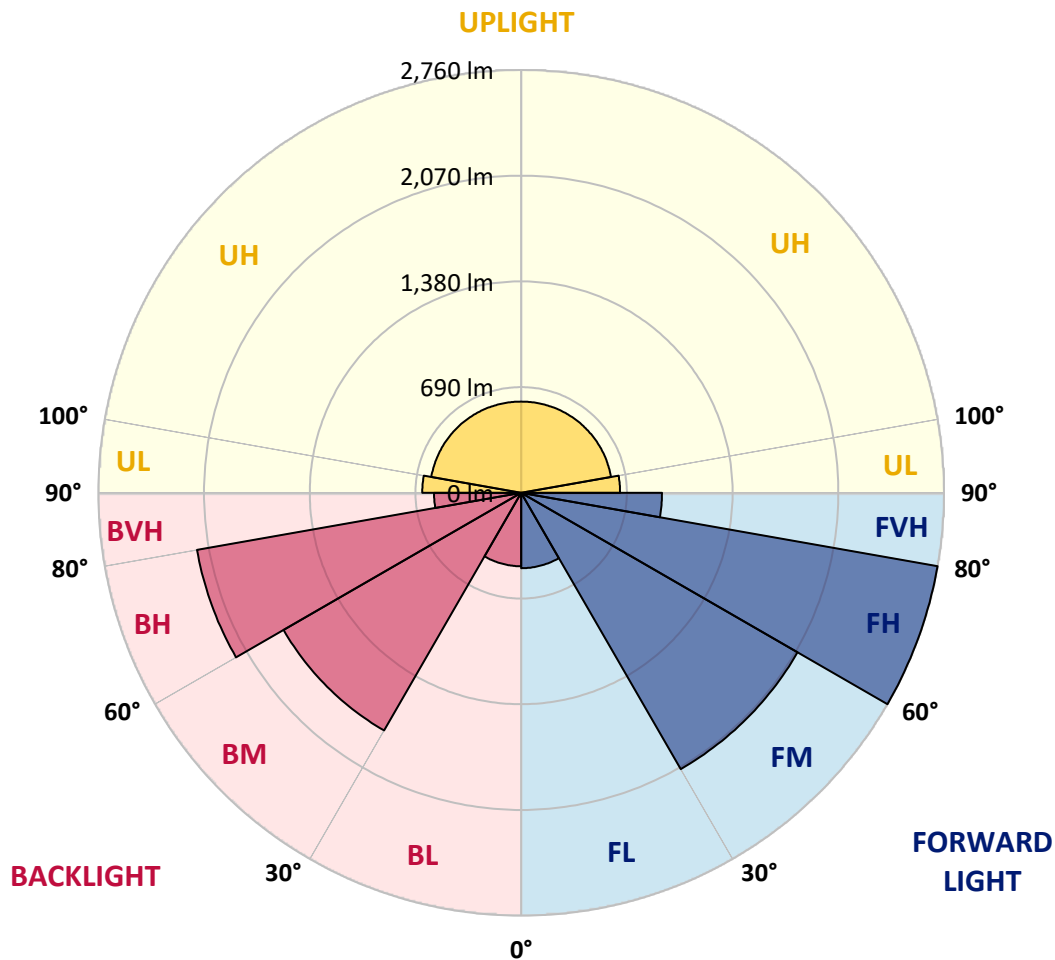


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.1	3.1			
FM (30°-60°)	2082.7	13.0			
FH (60°-80°)	2759.9	17.2			G2/5000
FVH (80°-90°)	919.3	5.7			G5
BL (0°-30°)	479.1	3.0	B1/500		
BM (30°-60°)	1790.7	11.2	B2/2500		
BH (60°-80°)	2148.4	13.4	B3/2500		G3/2500
BVH (80°-90°)	568.8	3.6			G4/750
UL (90°-100°)	645.5	4.0		U4/1000	
UH (100°-180°)	595.6	3.7		U4/1000	
Trapped Light	3241.3	20.3			

BUG Rating: B3-U4-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1290	1290	1290	1290	1290	1290	1290	1290	1290	1290	1290
5°	1178	1174	1165	1165	1187	1168	1181	1193	1183	1217	1216
15°	1008	1023	1038	1080	1090	1102	1113	1126	1126	1119	1110
25°	1074	1070	1093	1094	1090	1120	1187	1225	1241	1225	1229
35°	1433	1495	1442	1471	1514	1559	1669	1728	1817	1791	1791
45°	1856	1849	1827	1853	1909	1928	2064	2277	2546	2554	2464
50°	1358	1371	1354	1403	1488	1565	1763	2092	2626	2726	2506
55°	1002	1005	1050	1083	1160	1281	1523	2106	3089	3287	2885
60°	1103	1103	1188	1225	1329	1474	1789	2610	4421	4838	4172
62.5°	1155	1164	1246	1313	1442	1589	1951	2862	5259	5540	5051
65°	1196	1213	1316	1390	1539	1697	2102	3062	5987	6546	5848
67.5°	1225	1246	1368	1448	1608	1782	2215	3186	6474	7205	6380
70°	1236	1259	1391	1475	1639	1825	2274	3232	6714	7574	6649
72.5°	1228	1246	1395	1468	1631	1838	2271	3192	6728	7681	6684
75°	1178	1210	1368	1435	1581	1802	2196	3049	6477	7480	6426
77.5°	1109	1136	1294	1348	1465	1697	2032	2790	5887	6849	5763
80°	1025	1042	1191	1229	1325	1546	1818	2458	5080	5906	4868
82.5°	941	944	1078	1246	1181	1380	1589	2102	4236	4907	3994
85°	811	844	960	1008	1042	1212	1365	1849	3437	3974	3202
87.5°	724	743	837	880	899	1044	1200	1507	2672	3091	2471
90°	643	667	717	753	909	877	989	1262	2173	2286	1950
95°	466	491	514	539	562	592	637	759	1161	1196	1044
105°	266	265	268	274	272	265	266	292	436	450	401
115°	191	191	200	198	194	191	191	213	304	329	297
125°	168	169	171	169	171	168	177	206	304	318	285
135°	136	135	138	140	140	143	153	185	265	274	246
145°	98	101	103	103	104	107	119	152	213	213	187
155°	58	62	61	65	62	68	80	111	124	120	110
165°	12	12	16	13	14	10	14	13	19	19	13
175°	0	0	1	1	1	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1290	1290	1290	1290	1290	1290	1290	1290	1290	1290	1290
5°	1196	1199	1200	1222	1356	1186	1177	1170	1154	1155	1152
15°	1100	1105	1103	1097	1086	1050	1038	1061	1044	1000	999
25°	1197	1216	1183	1173	1141	1064	1050	1067	1076	1010	981
35°	1718	1727	1649	1602	1549	1471	1427	1413	1443	1346	1280
45°	2323	2182	2017	1906	1809	1802	1792	1799	1801	1608	1494
50°	2224	1983	1688	1547	1426	1417	1390	1377	1369	1285	1216
55°	2417	1899	1526	1346	1291	1235	1157	1112	1100	1084	1083
60°	3319	2407	1948	1753	1653	1569	1423	1327	1281	1267	1277
62.5°	3788	2772	2260	2085	1988	1921	1737	1568	1485	1310	1453
65°	4308	3111	2490	2345	2250	2192	1969	1736	1617	1547	1537
67.5°	4650	3321	2598	2477	2383	2339	2105	1836	1688	1614	1572
70°	4805	3413	2614	2509	2420	2396	2166	1875	1707	1630	1589
72.5°	4816	3399	2548	2459	2377	2373	2160	1866	1695	1605	1566
75°	4670	3244	2428	2306	2232	2237	2051	1778	1629	1532	1503
77.5°	4215	2852	2196	1957	1885	1878	1730	1514	1416	1320	1309
80°	3536	2354	1792	1575	1508	1587	1394	1236	1161	1078	1071
82.5°	2898	1921	1453	1272	1216	1277	1123	1008	951	883	877
85°	2341	1550	1178	1025	979	1022	896	812	773	715	712
87.5°	1831	1212	934	805	772	805	750	640	615	570	567
90°	1372	915	718	660	634	621	580	498	483	452	452
95°	756	530	430	405	392	385	362	318	310	297	298
105°	308	248	207	201	200	197	187	177	166	164	162
115°	243	201	175	171	168	165	159	151	146	143	142
125°	232	191	165	158	153	153	152	143	139	136	136
135°	200	166	140	129	127	127	127	126	124	122	122
145°	161	135	106	93	91	93	93	94	90	93	93
155°	100	87	67	54	55	54	54	55	55	54	55
165°	13	9	6	6	6	9	10	9	7	10	12
175°	0	0	0	0	0	1	1	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)