

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: HALO

Report Number: P670467

Luminaire Tested: ALP90LSFSUNVDGY-40W-4000K

Issue Date: 3/29/2023

Test Information

Test Method: LM-79-2019
Report Number: P670467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (2022-07-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ALP90LSFSUNVDGY-40W-4000K
Description: ALP Premium Area Light
Light Source:
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6427 lumens
Efficiency: N/A
Efficacy: 164.4 lumens/watt
Luminous Opening: Circular (Dia: 0.66' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U3 - G2

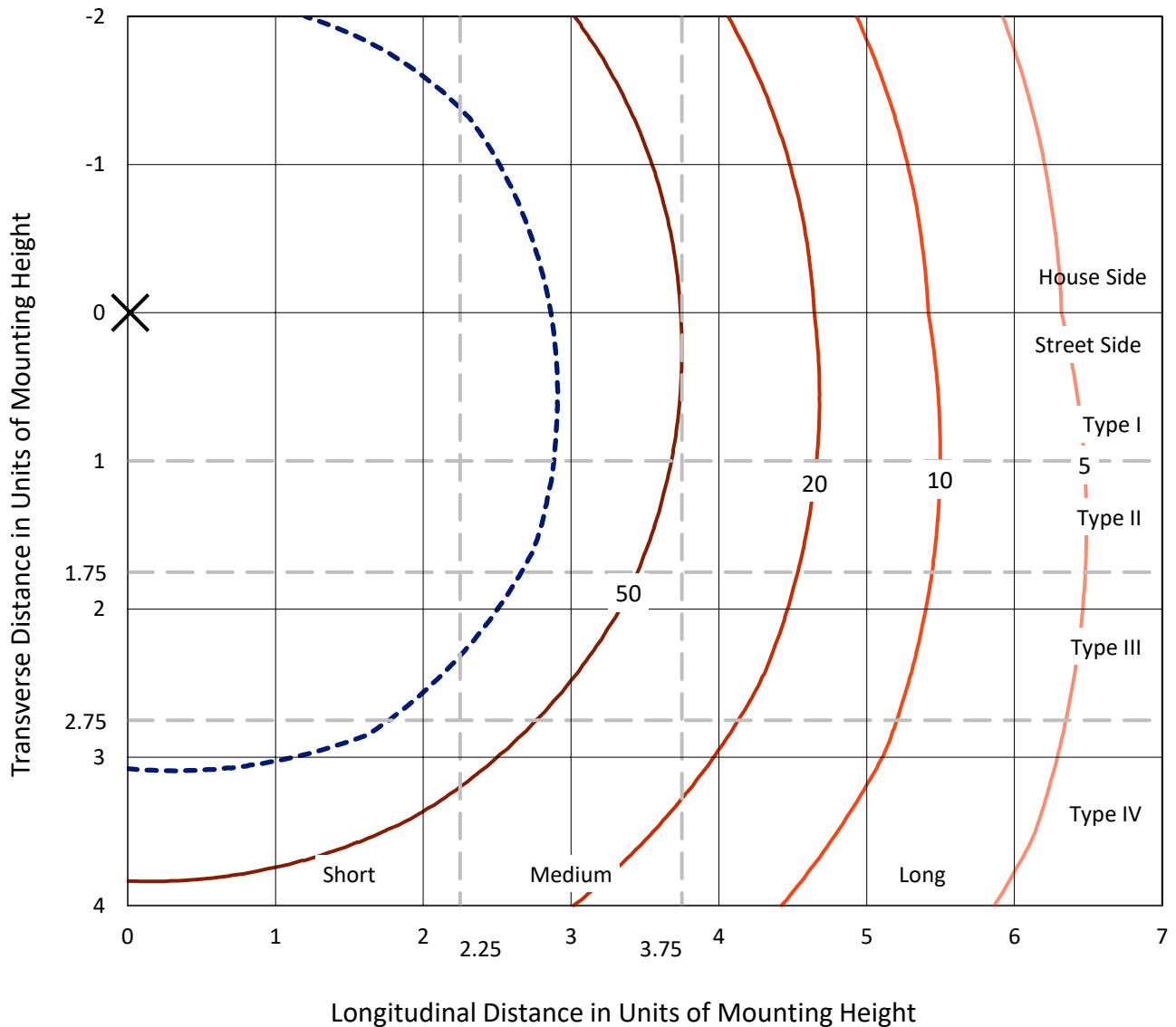
Input Watts (W): 39.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

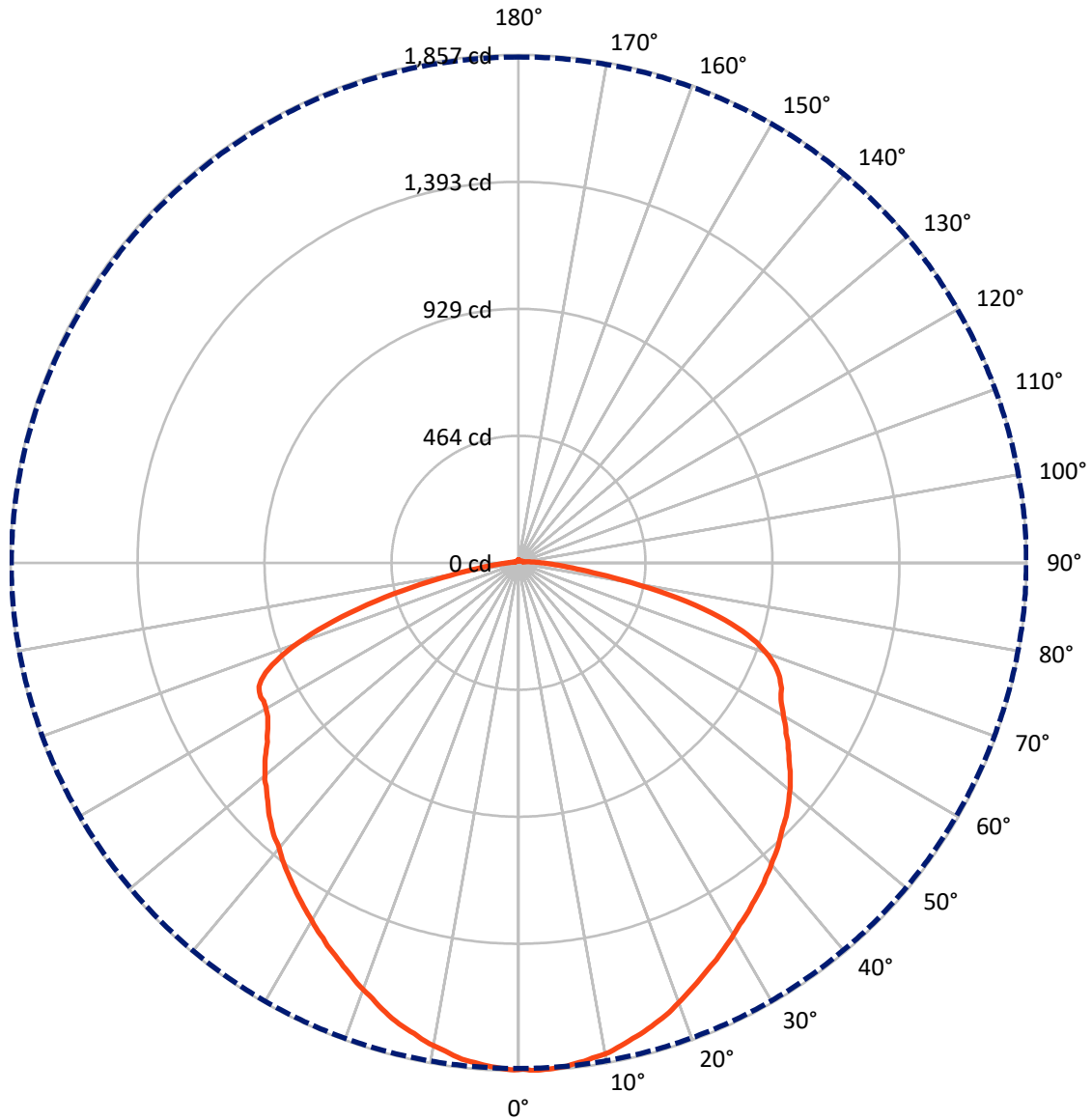
× Max cd
 - - - 1/2 Max cd



Based on 0.5 foot mounting height. Maximum calculated value = 7402.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 1-Deg Vertical

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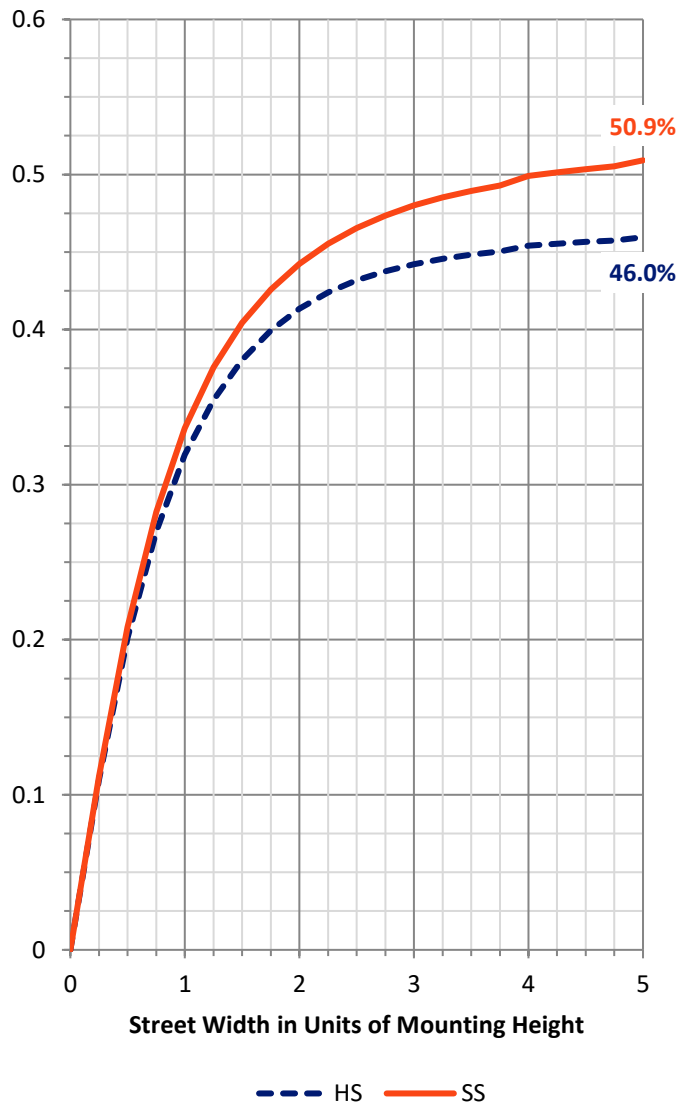
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2984.9	46.5	3031.4
	% Fixture	46.4	0.7	47.2
Street Side	Lumens	3330.4	65.2	3395.6
	% Fixture	51.8	1.0	52.8
Total	Lumens	6315.3	111.7	6427.0
	% Fixture	98.3	1.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	2.7
10°-20°	495.7	7.7
20°-30°	748.4	11.6
30°-40°	923.9	14.4
40°-50°	1023.0	15.9
50°-60°	1045.0	16.3
60°-70°	1011.2	15.7
70°-80°	687.8	10.7
80°-90°	206.0	3.2
90°-100°	44.4	0.7
100°-110°	20.6	0.3
110°-120°	15.8	0.2
120°-130°	11.0	0.2
130°-140°	7.0	0.1
140°-150°	5.2	0.1
150°-160°	4.1	0.1
160°-170°	2.7	0.0
170°-180°	0.9	0.0
0°-90°	6315.3	98.3
0°-180°	6427.0	100.0

Coefficient of Utilization



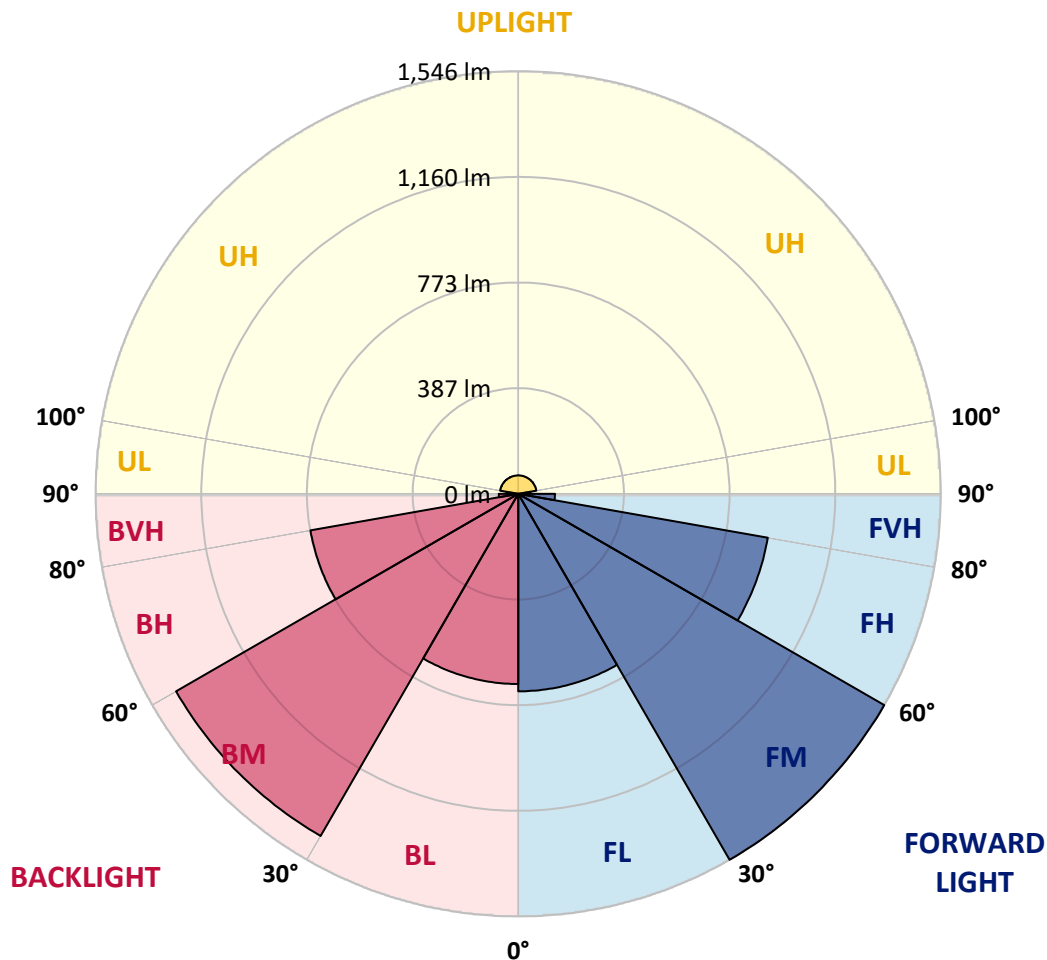
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.6	11.2			
FM (30°-60°)	1546.2	24.1			
FH (60°-80°)	927.1	14.4			G1/1800
FVH (80°-90°)	134.5	2.1			G2/225
BL (0°-30°)	695.8	10.8	B2/1000		
BM (30°-60°)	1445.7	22.5	B2/2500		
BH (60°-80°)	771.9	12.0	B2/1000		G2/1000
BVH (80°-90°)	71.5	1.1			G1/100
UL (90°-100°)	44.4	0.7		U2/50	
UH (100°-180°)	67.3	1.0		U3/500	

BUG Rating: B2-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7	1850.7
1°	1849.0	1849.1	1849.1	1857.4	1853.6	1852.8	1849.5	1849.5	1847.8	1854.9	1851.9
2°	1853.3	1852.3	1853.1	1856.3	1855.4	1848.7	1845.2	1845.8	1845.0	1852.2	1849.9
3°	1852.8	1852.1	1851.8	1854.3	1850.1	1844.3	1838.8	1834.2	1840.9	1847.4	1848.2
4°	1851.7	1850.4	1845.1	1851.3	1846.9	1837.3	1828.1	1829.9	1830.5	1843.6	1843.7
5°	1849.9	1852.6	1848.0	1849.1	1841.4	1826.9	1817.4	1818.5	1826.1	1837.8	1840.8
6°	1848.6	1848.9	1844.3	1842.7	1834.1	1817.5	1805.0	1802.7	1818.1	1832.0	1838.0
7°	1839.0	1842.0	1845.5	1838.3	1826.7	1805.7	1795.2	1797.2	1809.7	1826.5	1831.5
8°	1832.5	1838.3	1838.2	1831.1	1816.4	1797.3	1795.5	1786.1	1800.0	1817.5	1830.6
9°	1828.7	1828.1	1836.9	1826.6	1809.9	1787.1	1787.8	1781.1	1789.4	1805.0	1823.4
10°	1821.8	1824.6	1826.3	1820.1	1802.5	1783.5	1778.7	1779.5	1780.4	1796.5	1815.2
11°	1827.9	1818.2	1822.9	1810.0	1793.4	1775.5	1779.3	1767.0	1768.9	1787.9	1807.5
12°	1822.4	1819.8	1818.8	1800.4	1781.2	1773.0	1764.7	1760.9	1754.3	1776.8	1799.4
13°	1819.9	1821.0	1808.9	1788.5	1772.1	1764.5	1756.4	1749.7	1740.2	1763.1	1788.4
14°	1817.8	1810.8	1803.0	1780.0	1760.9	1753.9	1734.8	1742.6	1726.0	1752.5	1775.0
15°	1810.8	1802.1	1796.1	1768.9	1745.7	1740.5	1720.8	1719.2	1712.8	1742.1	1763.9
16°	1794.8	1797.7	1780.3	1757.2	1733.8	1723.1	1696.6	1705.7	1699.7	1729.2	1753.4
17°	1777.2	1787.0	1768.2	1746.6	1718.5	1706.8	1684.8	1687.0	1685.0	1714.3	1741.2
18°	1762.3	1773.9	1750.6	1734.3	1702.9	1686.0	1677.1	1667.9	1677.4	1698.5	1726.3
19°	1749.9	1761.0	1741.4	1718.8	1691.9	1670.5	1668.5	1656.1	1660.4	1680.6	1715.5
20°	1746.9	1750.5	1734.0	1704.4	1678.6	1659.7	1657.4	1637.7	1643.6	1667.3	1702.2
21°	1742.4	1734.0	1721.7	1690.0	1666.7	1648.6	1644.0	1629.6	1632.2	1654.3	1687.4
22°	1736.5	1728.0	1709.9	1676.0	1651.5	1631.6	1619.2	1607.3	1613.5	1638.4	1672.7
23°	1722.9	1720.4	1699.1	1661.6	1638.1	1618.2	1596.9	1600.7	1598.7	1621.6	1660.1
24°	1715.6	1711.4	1686.4	1646.8	1621.3	1599.7	1575.7	1582.5	1581.7	1607.9	1643.8
25°	1695.7	1701.0	1672.1	1632.6	1606.0	1581.1	1561.2	1564.1	1565.3	1591.7	1627.8
26°	1680.3	1684.5	1656.0	1621.3	1590.5	1569.6	1544.9	1541.1	1550.1	1577.5	1617.0
27°	1660.4	1668.0	1641.9	1606.4	1573.7	1545.8	1527.1	1525.3	1534.3	1564.9	1598.2
28°	1643.6	1649.2	1628.9	1592.6	1559.2	1528.0	1519.9	1506.2	1520.8	1547.1	1585.3
29°	1628.5	1634.8	1616.2	1578.9	1545.5	1510.7	1502.0	1492.6	1504.9	1534.6	1570.3
30°	1621.4	1621.7	1602.6	1564.5	1530.6	1498.8	1493.4	1475.8	1488.9	1518.9	1556.6
31°	1609.8	1607.6	1591.2	1550.2	1516.1	1484.1	1472.0	1467.6	1472.8	1502.9	1542.1
32°	1594.7	1591.6	1579.2	1538.0	1500.5	1470.5	1455.0	1451.6	1458.7	1489.3	1528.4
33°	1576.8	1580.2	1567.6	1526.5	1485.8	1456.1	1431.9	1438.5	1442.1	1474.6	1515.8
34°	1559.3	1564.5	1548.1	1511.9	1469.9	1437.9	1413.8	1422.3	1422.8	1461.2	1500.7
35°	1541.9	1552.4	1534.3	1499.2	1454.2	1425.2	1400.4	1407.0	1410.3	1445.9	1486.8
36°	1523.5	1528.8	1524.7	1487.3	1439.2	1414.3	1383.8	1392.0	1393.0	1430.3	1469.7
37°	1504.9	1519.7	1507.2	1473.9	1426.3	1397.6	1368.8	1375.8	1376.6	1416.0	1452.2
38°	1495.2	1505.1	1495.5	1458.8	1408.3	1383.9	1358.3	1363.1	1360.0	1401.9	1435.3
39°	1482.4	1491.8	1481.4	1446.7	1395.5	1371.4	1342.0	1351.9	1347.7	1387.2	1422.3
40°	1471.5	1476.9	1463.7	1431.8	1380.7	1354.3	1328.4	1334.9	1332.1	1369.8	1409.3
41°	1457.6	1462.0	1452.2	1419.2	1366.2	1336.2	1309.5	1315.0	1314.3	1354.2	1397.4
42°	1444.2	1445.7	1436.9	1405.5	1353.3	1323.5	1295.2	1296.0	1299.8	1345.2	1381.1
43°	1424.8	1422.2	1422.9	1390.2	1339.3	1305.0	1276.3	1282.9	1285.1	1330.8	1367.9
44°	1400.4	1412.7	1409.7	1373.6	1325.2	1286.7	1257.8	1268.2	1267.6	1313.7	1351.2



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	1382.5	1402.2	1391.3	1361.0	1310.9	1272.9	1236.4	1256.7	1255.7	1299.5	1333.7
46°	1370.8	1385.4	1378.4	1349.0	1295.9	1253.2	1219.2	1236.8	1241.1	1282.9	1318.8
47°	1352.5	1371.7	1357.0	1333.8	1279.4	1239.2	1204.3	1220.6	1231.0	1264.4	1304.2
48°	1337.1	1354.5	1344.9	1318.6	1264.1	1225.9	1192.0	1203.9	1214.8	1248.2	1288.2
49°	1330.5	1336.5	1327.2	1302.7	1248.7	1210.2	1178.7	1187.1	1199.0	1232.1	1273.5
50°	1313.0	1318.4	1314.6	1287.6	1236.1	1191.0	1172.2	1169.0	1181.2	1220.0	1260.4
51°	1296.4	1308.8	1298.7	1269.5	1220.6	1176.2	1154.5	1154.4	1166.8	1201.3	1245.2
52°	1275.8	1286.0	1281.2	1252.1	1204.8	1158.8	1132.8	1139.2	1148.6	1184.3	1229.3
53°	1254.1	1269.9	1265.4	1232.1	1189.7	1140.6	1113.1	1131.7	1133.6	1167.0	1212.6
54°	1235.7	1246.2	1244.4	1214.7	1172.8	1128.1	1096.8	1117.3	1122.3	1147.0	1195.8
55°	1220.1	1227.9	1229.2	1196.7	1157.3	1113.1	1087.0	1103.4	1106.8	1128.2	1175.2
56°	1202.5	1215.0	1217.6	1180.5	1142.7	1101.6	1079.6	1091.0	1095.5	1115.7	1161.0
57°	1191.3	1202.0	1194.2	1159.8	1128.3	1088.2	1070.5	1082.4	1083.6	1099.1	1145.9
58°	1170.9	1189.0	1179.3	1146.0	1114.3	1074.7	1057.4	1072.3	1071.2	1086.9	1134.6
59°	1153.2	1174.3	1165.5	1127.4	1099.1	1061.9	1042.9	1062.5	1059.3	1075.7	1121.8
60°	1136.0	1156.7	1148.9	1111.3	1088.3	1050.5	1033.3	1055.6	1051.4	1069.2	1111.1
61°	1123.9	1140.7	1133.4	1096.4	1076.4	1036.2	1021.4	1041.0	1042.2	1063.1	1097.0
62°	1115.7	1124.3	1119.0	1081.5	1064.7	1018.5	999.0	1032.9	1032.5	1060.5	1083.5
63°	1106.6	1111.7	1104.4	1072.7	1055.6	1004.2	973.5	1017.7	1021.0	1062.9	1072.4
64°	1106.2	1101.1	1087.7	1065.5	1042.9	982.5	952.3	994.8	1009.5	1058.3	1065.4
65°	1105.9	1091.3	1073.2	1052.6	1028.4	964.7	931.7	966.1	989.9	1051.2	1056.8
66°	1094.6	1079.3	1064.1	1040.3	1014.2	944.2	903.9	941.7	963.9	1033.6	1050.7
67°	1059.3	1067.5	1046.2	1022.8	994.1	917.1	870.0	903.8	928.2	1008.1	1037.3
68°	1022.3	1055.2	1029.1	1002.7	968.9	887.2	835.2	865.5	888.5	974.9	1020.9
69°	1002.6	1040.0	1016.4	978.4	938.6	854.4	792.8	825.7	841.4	932.6	995.3
70°	990.6	1016.8	996.5	948.6	904.1	817.4	751.0	772.3	787.1	885.5	964.9
71°	964.2	989.2	971.2	917.5	862.2	778.2	705.4	719.9	727.2	830.1	924.4
72°	925.0	957.5	945.5	878.6	814.8	731.9	656.0	665.1	663.0	771.4	875.9
73°	885.1	927.2	907.5	835.5	763.0	680.3	601.5	605.1	599.4	708.3	821.0
74°	845.1	893.0	871.5	783.8	706.6	627.6	540.4	544.5	534.6	641.7	761.4
75°	797.8	855.5	830.6	728.1	646.9	571.2	484.2	482.7	469.7	573.5	699.3
76°	741.4	809.1	784.0	665.8	584.1	513.3	430.5	419.3	407.5	504.1	632.1
77°	679.7	759.4	733.4	598.1	522.7	457.9	378.9	361.7	349.8	436.7	567.6
78°	618.2	713.1	679.7	525.5	460.4	404.1	329.3	307.8	296.7	370.0	500.0
79°	556.9	660.3	619.8	453.1	403.2	354.8	279.7	260.5	250.4	308.9	436.7
80°	491.4	602.8	565.0	387.0	350.1	309.2	230.5	219.0	210.3	254.5	376.2
81°	426.7	546.5	506.9	326.9	302.5	266.9	188.8	181.5	175.7	209.1	321.4
82°	361.0	492.1	453.8	276.7	260.1	230.3	154.5	151.2	146.5	171.7	273.0
83°	300.4	435.4	402.1	235.4	222.7	195.2	125.9	125.1	122.0	140.5	232.3
84°	245.4	382.0	354.6	198.2	191.3	166.3	103.9	104.2	101.7	115.7	193.9
85°	194.6	330.7	311.0	168.7	163.1	140.9	83.5	86.9	84.3	95.8	162.9
86°	156.4	284.7	270.6	143.9	138.5	119.4	68.4	72.9	70.9	78.0	135.8
87°	126.9	243.3	236.3	123.0	117.6	101.7	57.8	61.7	60.1	65.2	112.6
88°	103.8	206.6	203.6	105.2	100.4	87.1	48.9	53.1	51.8	55.0	92.9
89°	86.2	174.9	173.3	90.5	85.0	75.2	41.3	46.5	45.4	47.1	76.5



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	72.2	146.5	147.3	78.3	73.3	66.2	34.4	41.2	40.4	41.1	63.3
91°	60.8	122.6	124.8	68.0	64.0	58.8	27.4	36.8	36.4	36.4	53.6
92°	50.7	102.2	105.4	58.8	56.8	52.8	21.7	33.2	33.3	32.6	46.3
93°	43.1	84.6	89.0	51.1	50.8	47.9	17.1	30.1	30.8	29.5	40.7
94°	37.0	70.9	76.3	44.4	45.9	43.7	13.4	27.6	28.8	26.8	36.6
95°	31.4	60.4	66.0	38.1	41.8	40.3	10.4	25.1	27.1	24.6	33.4
96°	26.7	52.4	58.4	32.4	38.4	37.4	8.4	23.2	25.9	22.5	30.9
97°	22.6	46.3	52.2	27.3	35.5	34.9	7.7	21.8	24.9	20.5	28.9
98°	19.0	41.6	47.2	22.9	33.1	32.8	7.2	20.4	24.2	18.7	27.3
99°	17.0	37.8	43.1	20.1	31.0	31.0	7.0	19.2	23.6	17.0	26.1
100°	16.2	34.8	39.8	18.7	29.3	29.3	6.9	17.9	23.2	15.2	25.2
101°	15.6	32.2	36.9	17.6	27.9	27.8	6.8	16.6	23.0	13.7	24.6
102°	15.1	30.3	34.6	16.7	26.7	26.3	6.5	15.4	22.8	12.8	24.0
103°	14.7	28.6	32.7	16.0	25.7	24.8	6.2	14.1	22.6	12.4	23.7
104°	14.3	27.4	31.1	15.6	24.9	23.2	5.8	12.9	22.4	12.1	23.4
105°	13.5	26.4	29.9	15.4	24.2	21.7	5.6	11.7	22.2	11.9	23.3
106°	12.5	25.7	28.8	15.3	23.6	20.2	5.6	10.6	22.0	11.8	23.3
107°	11.7	25.1	28.0	15.1	23.0	18.9	5.6	9.9	21.6	11.7	23.3
108°	10.8	24.7	27.2	15.0	22.4	17.5	5.6	9.9	21.3	11.7	23.3
109°	10.3	24.3	26.8	14.9	21.9	16.3	5.7	10.0	20.9	11.9	23.4
110°	10.4	24.0	26.3	14.8	21.3	15.2	5.8	10.0	20.4	12.1	23.4
111°	11.0	23.8	25.9	14.8	20.7	14.4	5.9	10.0	19.9	12.2	23.3
112°	11.6	23.6	25.5	14.8	20.1	13.8	6.0	10.0	19.1	12.2	23.1
113°	11.9	23.4	25.2	14.9	19.5	13.2	6.1	9.8	18.1	12.1	22.9
114°	12.1	23.2	24.8	14.8	18.9	12.6	6.2	9.6	17.1	12.0	22.6
115°	12.0	22.9	24.5	14.6	18.2	12.2	6.3	9.3	16.1	11.9	22.2
116°	12.0	22.8	24.1	14.4	17.6	11.7	6.4	9.1	15.2	11.7	21.8
117°	12.0	22.4	23.7	14.2	16.9	11.3	6.5	8.9	14.6	11.5	21.3
118°	12.0	22.0	23.2	13.9	16.2	10.9	6.6	8.7	14.1	11.2	20.7
119°	12.0	21.6	22.7	13.6	15.5	10.5	6.7	8.5	13.6	10.9	20.1
120°	11.9	21.2	22.2	13.4	14.8	10.1	6.8	8.3	13.1	10.6	19.4
121°	11.8	20.6	21.6	13.1	14.1	9.8	6.9	8.2	12.6	10.3	18.7
122°	11.6	20.0	21.0	12.8	13.4	9.5	7.0	8.0	12.0	10.1	17.9
123°	11.4	19.3	20.2	12.4	12.8	9.2	7.1	7.9	11.4	9.9	17.2
124°	11.1	18.7	19.5	12.1	12.2	9.0	7.2	7.8	10.9	9.6	16.3
125°	10.9	17.9	18.7	11.8	11.7	8.7	7.3	7.7	10.4	9.4	15.5
126°	10.5	17.2	17.9	11.4	11.2	8.5	7.4	7.7	10.0	9.2	14.8
127°	10.1	16.4	17.1	11.1	10.7	8.4	7.4	7.6	9.4	9.0	14.0
128°	9.6	15.6	16.3	10.7	10.3	8.2	7.5	7.6	8.5	8.8	13.3
129°	9.1	14.9	15.5	10.4	9.9	8.1	7.6	7.6	8.3	8.7	12.6
130°	8.7	14.2	14.7	10.0	9.6	8.0	7.7	7.6	8.6	8.5	12.0
131°	8.4	13.4	13.9	9.5	9.3	7.9	7.8	7.6	8.6	8.3	11.4
132°	8.3	12.8	13.2	9.2	9.1	7.8	7.8	7.7	8.4	8.2	10.8
133°	8.3	12.1	12.5	9.0	8.9	7.8	7.9	7.7	8.3	8.1	10.3
134°	8.5	11.5	11.9	8.8	8.7	7.7	8.0	7.8	8.2	8.0	9.9



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	8.5	11.0	11.3	8.6	8.5	7.8	8.0	7.9	8.1	7.9	9.5
136°	8.4	10.5	10.7	8.4	8.4	7.8	8.1	7.9	8.0	7.8	9.1
137°	8.2	10.0	10.2	8.2	8.3	7.9	8.1	8.0	8.0	7.8	8.7
138°	8.1	9.6	9.7	8.1	8.2	8.0	8.2	8.1	8.0	7.9	8.5
139°	8.0	9.2	9.2	8.0	8.1	8.0	8.2	8.1	8.0	7.9	8.2
140°	7.9	8.9	8.8	7.9	8.0	8.1	8.3	8.2	8.1	8.0	8.1
141°	7.9	8.6	8.5	7.9	8.0	8.1	8.4	8.3	8.2	8.0	7.9
142°	7.8	8.4	8.2	8.0	8.1	8.2	8.4	8.4	8.3	8.1	7.9
143°	7.8	8.2	7.9	8.0	8.1	8.3	8.5	8.4	8.3	8.2	8.0
144°	7.8	8.0	7.8	8.1	8.2	8.4	8.5	8.5	8.4	8.2	8.1
145°	7.9	7.9	7.7	8.1	8.3	8.4	8.6	8.6	8.4	8.3	8.1
146°	8.0	7.9	7.8	8.2	8.3	8.5	8.6	8.6	8.5	8.3	8.2
147°	8.0	7.9	7.8	8.3	8.4	8.6	8.7	8.7	8.6	8.4	8.3
148°	8.1	8.0	7.9	8.3	8.5	8.6	8.7	8.7	8.6	8.5	8.4
149°	8.2	8.1	8.0	8.4	8.5	8.7	8.8	8.8	8.7	8.5	8.4
150°	8.3	8.2	8.0	8.5	8.6	8.8	8.9	8.8	8.8	8.6	8.5
151°	8.3	8.2	8.1	8.6	8.7	8.8	8.9	8.9	8.8	8.7	8.6
152°	8.4	8.3	8.2	8.6	8.7	8.9	9.0	8.9	8.9	8.7	8.7
153°	8.5	8.4	8.2	8.7	8.8	9.0	9.1	9.0	9.0	8.8	8.7
154°	8.6	8.5	8.3	8.8	8.8	9.1	9.1	9.0	9.0	8.9	8.8
155°	8.6	8.5	8.4	8.9	8.9	9.1	9.2	9.1	9.1	8.9	8.9
156°	8.7	8.6	8.5	8.9	9.0	9.2	9.3	9.1	9.2	9.0	9.0
157°	8.8	8.7	8.5	9.0	9.0	9.3	9.3	9.2	9.2	9.1	9.0
158°	8.8	8.7	8.6	9.1	9.1	9.3	9.4	9.2	9.3	9.2	9.1
159°	8.9	8.8	8.7	9.2	9.1	9.4	9.4	9.3	9.3	9.2	9.2
160°	9.0	8.9	8.7	9.2	9.2	9.4	9.5	9.3	9.3	9.3	9.2
161°	9.1	9.0	8.8	9.3	9.3	9.5	9.5	9.4	9.4	9.4	9.3
162°	9.2	9.0	8.9	9.4	9.3	9.5	9.6	9.4	9.4	9.4	9.3
163°	9.2	9.1	8.9	9.5	9.4	9.6	9.6	9.5	9.5	9.5	9.4
164°	9.3	9.2	9.0	9.5	9.5	9.6	9.7	9.5	9.5	9.6	9.5
165°	9.4	9.2	9.1	9.6	9.5	9.7	9.8	9.6	9.6	9.6	9.5
166°	9.5	9.3	9.2	9.7	9.6	9.7	9.8	9.6	9.6	9.7	9.6
167°	9.5	9.3	9.2	9.7	9.6	9.8	9.9	9.7	9.6	9.8	9.6
168°	9.6	9.4	9.3	9.8	9.7	9.8	9.9	9.7	9.7	9.8	9.7
169°	9.7	9.5	9.3	9.9	9.7	9.8	10.0	9.7	9.7	9.9	9.8
170°	9.8	9.5	9.4	9.9	9.8	9.9	10.0	9.8	9.8	10.0	9.8
171°	9.8	9.6	9.5	10.0	9.8	9.9	10.1	9.8	9.8	10.0	9.9
172°	9.9	9.6	9.5	10.1	9.9	10.0	10.1	9.9	9.8	10.1	9.9
173°	9.9	9.7	9.6	10.1	9.9	10.0	10.1	9.9	9.9	10.1	10.0
174°	10.0	9.7	9.6	10.2	10.0	10.0	10.2	9.9	9.9	10.2	10.0
175°	10.1	9.8	9.7	10.2	10.0	10.0	10.2	9.9	9.9	10.2	10.0
176°	10.1	9.8	9.8	10.3	10.0	10.1	10.2	10.0	9.9	10.3	10.1
177°	10.1	9.9	9.8	10.3	10.1	10.1	10.2	10.0	9.9	10.3	10.1
178°	10.2	9.9	9.9	10.3	10.1	10.1	10.2	10.0	10.0	10.3	10.1
179°	10.2	9.9	9.9	10.4	10.1	10.1	10.2	10.0	9.9	10.4	10.1



REPORT NUMBER: P670467
CATALOG NUMBER: ALP90LSFSUNVDGY-40W-4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2



REPORT NUMBER: P670467
CATALOG NUMBER: ALP90LSFSUNVDGY-40W-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	1850.7	1850.7
1°	1851.6	1849.0
2°	1850.7	1853.3
3°	1849.4	1852.8
4°	1851.2	1851.7
5°	1849.7	1849.9
6°	1842.2	1848.6
7°	1834.5	1839.0
8°	1830.5	1832.5
9°	1828.2	1828.7
10°	1820.8	1821.8
11°	1819.4	1827.9
12°	1808.7	1822.4
13°	1802.8	1819.9
14°	1798.1	1817.8
15°	1792.8	1810.8
16°	1782.3	1794.8
17°	1770.3	1777.2
18°	1756.8	1762.3
19°	1743.1	1749.9
20°	1730.0	1746.9
21°	1719.2	1742.4
22°	1708.5	1736.5
23°	1696.8	1722.9
24°	1685.7	1715.6
25°	1671.8	1695.7
26°	1659.0	1680.3
27°	1641.7	1660.4
28°	1625.5	1643.6
29°	1613.2	1628.5
30°	1595.0	1621.4
31°	1579.2	1609.8
32°	1568.2	1594.7
33°	1554.2	1576.8
34°	1544.4	1559.3
35°	1531.9	1541.9
36°	1515.0	1523.5
37°	1497.9	1504.9
38°	1479.4	1495.2
39°	1464.3	1482.4
40°	1448.4	1471.5
41°	1434.2	1457.6
42°	1420.5	1444.2
43°	1406.2	1424.8
44°	1391.9	1400.4



REPORT NUMBER: P670467
CATALOG NUMBER: ALP90LSFSUNVDGY-40W-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	1377.3	1382.5
46°	1359.9	1370.8
47°	1347.1	1352.5
48°	1327.9	1337.1
49°	1305.9	1330.5
50°	1290.2	1313.0
51°	1272.7	1296.4
52°	1257.0	1275.8
53°	1240.7	1254.1
54°	1226.2	1235.7
55°	1209.2	1220.1
56°	1186.1	1202.5
57°	1169.1	1191.3
58°	1155.4	1170.9
59°	1143.5	1153.2
60°	1133.6	1136.0
61°	1118.7	1123.9
62°	1106.9	1115.7
63°	1095.7	1106.6
64°	1085.0	1106.2
65°	1079.1	1105.9
66°	1068.0	1094.6
67°	1055.5	1059.3
68°	1041.9	1022.3
69°	1020.0	1002.6
70°	991.0	990.6
71°	957.2	964.2
72°	921.7	925.0
73°	876.1	885.1
74°	836.6	845.1
75°	789.4	797.8
76°	738.6	741.4
77°	684.9	679.7
78°	624.6	618.2
79°	560.2	556.9
80°	494.3	491.4
81°	428.2	426.7
82°	367.0	361.0
83°	310.8	300.4
84°	262.5	245.4
85°	220.9	194.6
86°	186.4	156.4
87°	156.5	126.9
88°	130.6	103.8
89°	108.1	86.2



REPORT NUMBER: P670467
CATALOG NUMBER: ALP90LSFSUNVDGY-40W-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	88.8	72.2
91°	73.3	60.8
92°	60.6	50.7
93°	50.9	43.1
94°	43.7	37.0
95°	38.5	31.4
96°	34.4	26.7
97°	31.5	22.6
98°	29.1	19.0
99°	27.4	17.0
100°	26.0	16.2
101°	24.9	15.6
102°	24.1	15.1
103°	23.6	14.7
104°	23.1	14.3
105°	22.9	13.5
106°	22.7	12.5
107°	22.6	11.7
108°	22.5	10.8
109°	22.5	10.3
110°	22.4	10.4
111°	22.4	11.0
112°	22.3	11.6
113°	22.2	11.9
114°	22.1	12.1
115°	21.9	12.0
116°	21.6	12.0
117°	21.2	12.0
118°	20.8	12.0
119°	20.3	12.0
120°	19.8	11.9
121°	19.1	11.8
122°	18.5	11.6
123°	17.8	11.4
124°	17.1	11.1
125°	16.3	10.9
126°	15.6	10.5
127°	14.8	10.1
128°	14.0	9.6
129°	13.3	9.1
130°	12.7	8.7
131°	12.0	8.4
132°	11.4	8.3
133°	10.9	8.3
134°	10.4	8.5



REPORT NUMBER: P670467
CATALOG NUMBER: ALP90LSFSUNVDGY-40W-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	10.0	8.5
136°	9.6	8.4
137°	9.2	8.2
138°	8.9	8.1
139°	8.7	8.0
140°	8.4	7.9
141°	8.2	7.9
142°	8.1	7.8
143°	8.0	7.8
144°	7.9	7.8
145°	8.0	7.9
146°	8.0	8.0
147°	8.1	8.0
148°	8.1	8.1
149°	8.2	8.2
150°	8.3	8.3
151°	8.3	8.3
152°	8.4	8.4
153°	8.5	8.5
154°	8.5	8.6
155°	8.6	8.6
156°	8.7	8.7
157°	8.7	8.8
158°	8.8	8.8
159°	8.9	8.9
160°	8.9	9.0
161°	9.0	9.1
162°	9.1	9.2
163°	9.2	9.2
164°	9.2	9.3
165°	9.3	9.4
166°	9.4	9.5
167°	9.4	9.5
168°	9.5	9.6
169°	9.5	9.7
170°	9.6	9.8
171°	9.7	9.8
172°	9.7	9.9
173°	9.8	9.9
174°	9.8	10.0
175°	9.9	10.1
176°	9.9	10.1
177°	10.0	10.1
178°	10.0	10.2
179°	10.0	10.2

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P670467
CATALOG NUMBER: ALP90LSFSUNVDGY-40W-4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	10.2	10.2

(END OF REPORT)