

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: P670471

Luminaire Tested: ALP90LSFSUNVDGY-60W-5000K

Issue Date: 3/29/2023

Test Information

Test Method: LM-79-2019
Report Number: P670471
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-60W-5000K
Description: ALP Premium Area Light
Light Source:
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9065 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Circular (Dia: 0.66' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U3 - G3

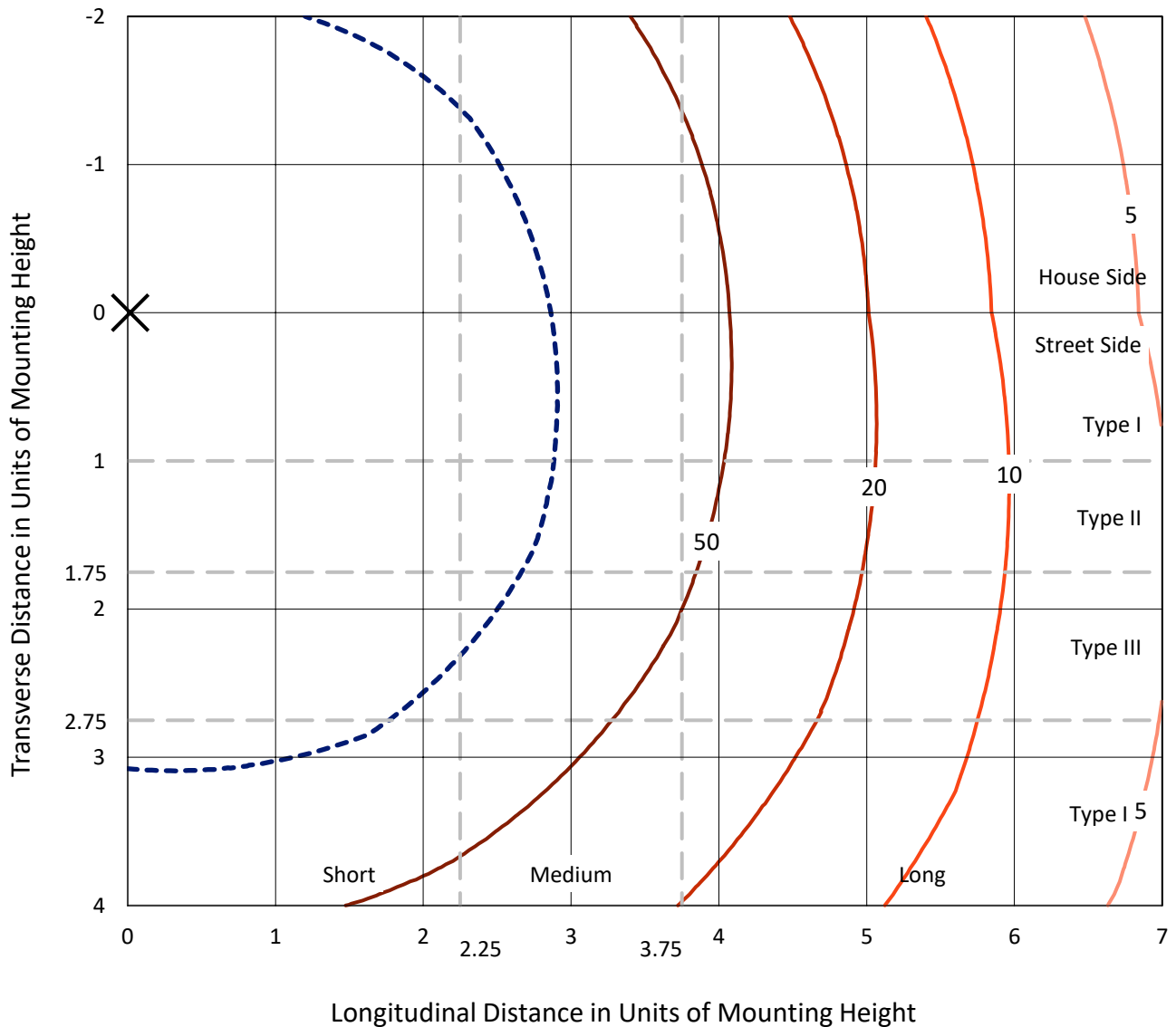
Input Watts (W): 62.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

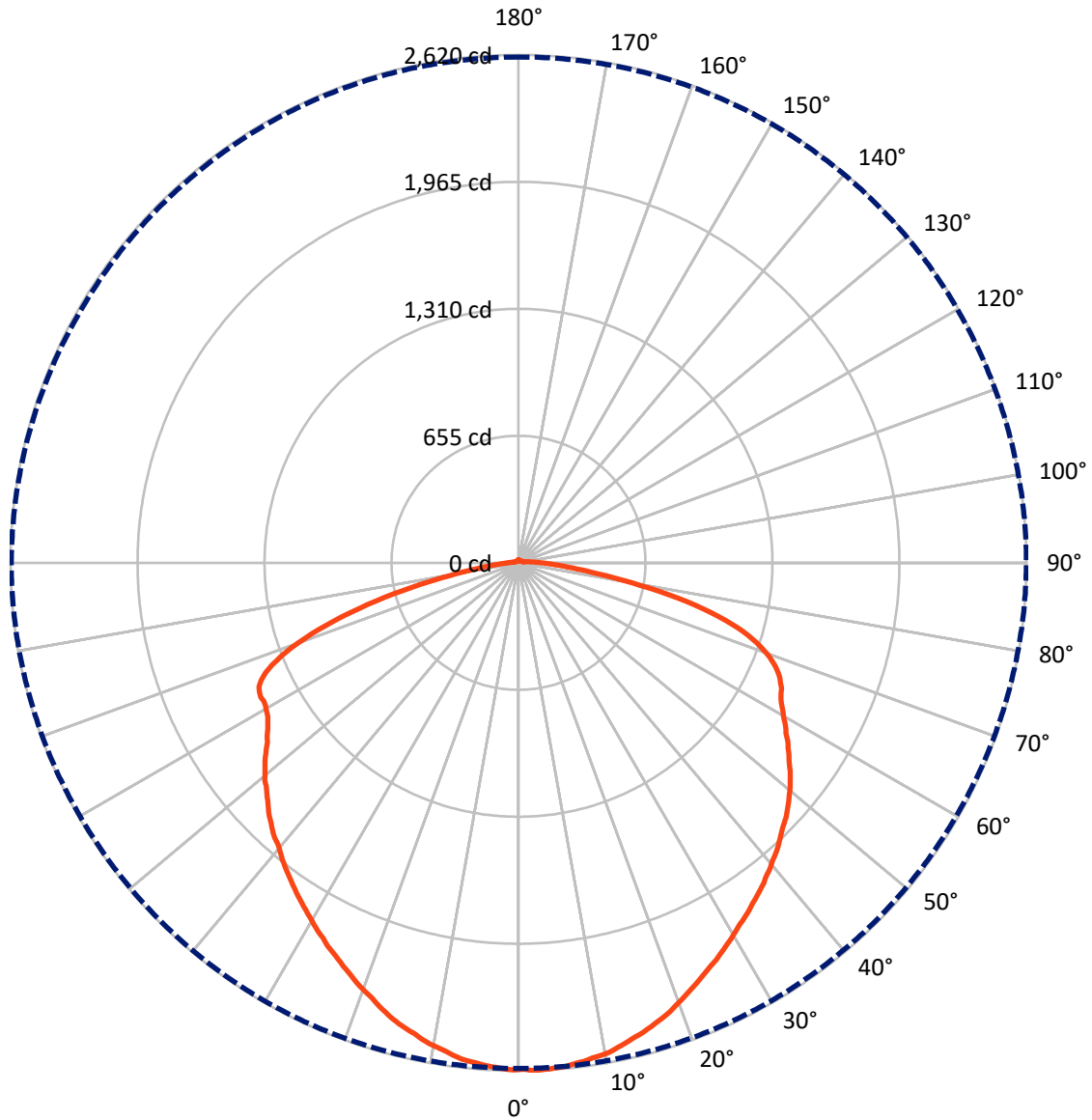
× Max cd
 - - - 1/2 Max cd



Based on 0.5 foot mounting height. Maximum calculated value = 10441.6 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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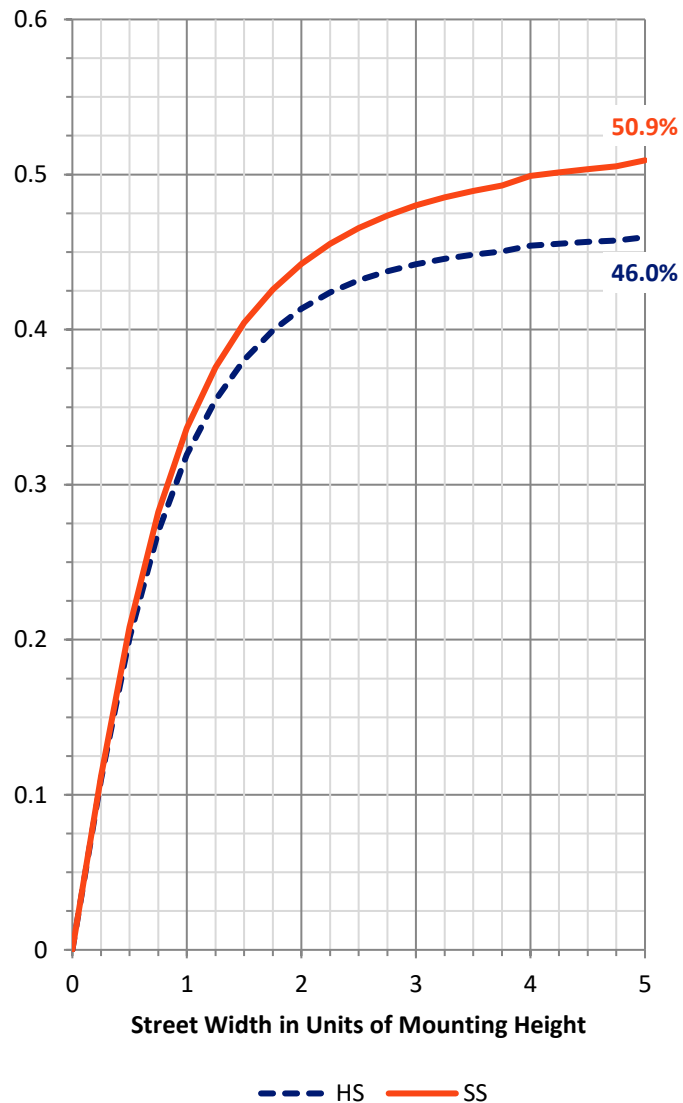
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4210.1	65.6	4275.7
	% Fixture	46.4	0.7	47.2
Street Side	Lumens	4697.4	91.9	4789.3
	% Fixture	51.8	1.0	52.8
Total	Lumens	8907.5	157.5	9065.0
	% Fixture	98.3	1.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.8	2.7
10°-20°	699.2	7.7
20°-30°	1055.6	11.6
30°-40°	1303.1	14.4
40°-50°	1442.9	15.9
50°-60°	1473.9	16.3
60°-70°	1426.3	15.7
70°-80°	970.2	10.7
80°-90°	290.5	3.2
90°-100°	62.6	0.7
100°-110°	29.1	0.3
110°-120°	22.3	0.2
120°-130°	15.5	0.2
130°-140°	9.9	0.1
140°-150°	7.3	0.1
150°-160°	5.8	0.1
160°-170°	3.8	0.0
170°-180°	1.3	0.0
0°-90°	8907.5	98.3
0°-180°	9065.0	100.0

Coefficient of Utilization



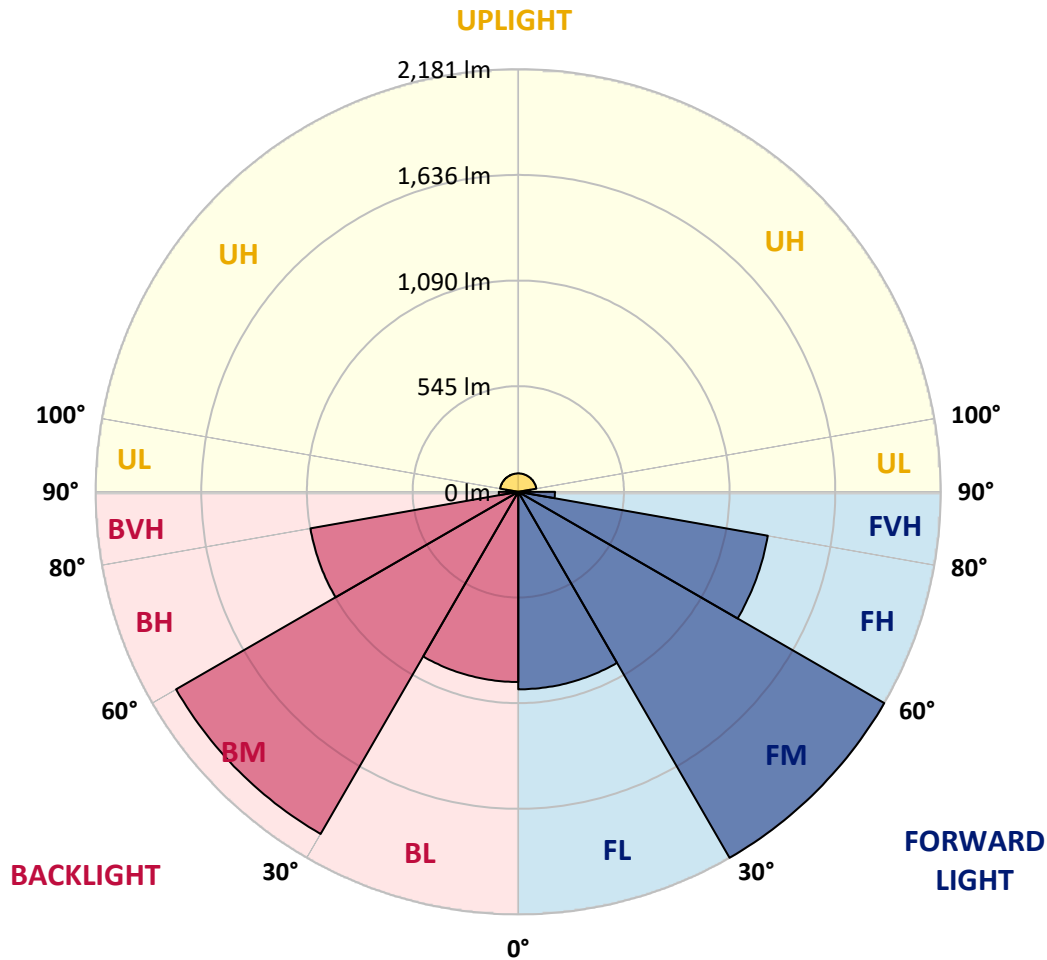
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1019.2	11.2			
FM (30°-60°)	2180.8	24.1			
FH (60°-80°)	1307.7	14.4			G1/1800
FVH (80°-90°)	189.7	2.1			G2/225
BL (0°-30°)	981.4	10.8	B2/1000		
BM (30°-60°)	2039.1	22.5	B2/2500		
BH (60°-80°)	1088.8	12.0	B3/2500		G3/2500
BVH (80°-90°)	100.8	1.1			G2/225
UL (90°-100°)	62.6	0.7		U3/500	
UH (100°-180°)	94.9	1.0		U3/500	

BUG Rating: B3-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4	2610.4
1°	2608.0	2608.1	2608.1	2619.8	2614.4	2613.3	2608.6	2608.6	2606.2	2616.3	2612.1
2°	2614.0	2612.5	2613.7	2618.2	2617.0	2607.5	2602.5	2603.4	2602.4	2612.4	2609.2
3°	2613.2	2612.2	2611.9	2615.3	2609.6	2601.3	2593.6	2587.0	2596.5	2605.6	2606.8
4°	2611.8	2610.0	2602.5	2611.2	2604.9	2591.5	2578.5	2581.0	2581.8	2600.4	2600.4
5°	2609.3	2613.0	2606.5	2608.0	2597.3	2576.8	2563.3	2565.0	2575.7	2592.1	2596.4
6°	2607.3	2607.9	2601.3	2599.1	2586.9	2563.5	2545.9	2542.7	2564.4	2584.0	2592.5
7°	2593.8	2598.1	2602.9	2592.8	2576.4	2546.8	2532.1	2534.9	2552.4	2576.2	2583.3
8°	2584.7	2592.8	2592.7	2582.7	2562.0	2535.0	2532.5	2519.2	2538.8	2563.5	2582.0
9°	2579.3	2578.4	2590.9	2576.4	2552.7	2520.6	2521.6	2512.1	2523.9	2545.8	2571.8
10°	2569.6	2573.5	2576.0	2567.1	2542.4	2515.6	2508.8	2509.9	2511.2	2533.9	2560.3
11°	2578.2	2564.5	2571.1	2552.9	2529.5	2504.3	2509.6	2492.3	2495.0	2521.8	2549.5
12°	2570.4	2566.8	2565.4	2539.4	2512.3	2500.8	2489.0	2483.6	2474.3	2506.2	2537.9
13°	2566.9	2568.5	2551.4	2522.5	2499.4	2488.7	2477.3	2467.9	2454.5	2486.8	2522.4
14°	2563.9	2554.1	2543.0	2510.6	2483.6	2473.7	2446.8	2457.8	2434.4	2471.9	2503.6
15°	2554.1	2541.7	2533.3	2494.9	2462.2	2454.9	2427.1	2424.9	2415.9	2457.1	2487.8
16°	2531.6	2535.6	2511.0	2478.5	2445.5	2430.4	2393.0	2405.8	2397.3	2439.0	2473.1
17°	2506.6	2520.5	2493.9	2463.5	2423.8	2407.4	2376.3	2379.4	2376.6	2417.9	2455.9
18°	2485.7	2502.0	2469.2	2446.2	2401.9	2378.0	2365.4	2352.4	2365.9	2395.6	2434.9
19°	2468.2	2483.7	2456.1	2424.3	2386.3	2356.1	2353.4	2335.9	2342.0	2370.4	2419.7
20°	2464.0	2469.0	2445.8	2404.0	2367.5	2340.9	2337.7	2309.9	2318.2	2351.6	2400.8
21°	2457.6	2445.8	2428.4	2383.7	2350.8	2325.2	2318.8	2298.5	2302.1	2333.3	2380.0
22°	2449.3	2437.3	2411.7	2363.9	2329.4	2301.3	2283.8	2267.0	2275.7	2310.9	2359.3
23°	2430.0	2426.6	2396.6	2343.6	2310.4	2282.4	2252.4	2257.7	2254.9	2287.2	2341.5
24°	2419.8	2413.9	2378.5	2322.7	2286.7	2256.3	2222.4	2232.0	2230.9	2267.8	2318.6
25°	2391.8	2399.3	2358.4	2302.7	2265.2	2230.1	2202.0	2206.1	2207.7	2245.1	2295.9
26°	2370.1	2375.8	2335.7	2286.8	2243.3	2213.9	2179.0	2173.6	2186.4	2225.0	2280.7
27°	2342.0	2352.7	2315.8	2265.7	2219.6	2180.4	2153.9	2151.4	2164.1	2207.2	2254.2
28°	2318.2	2326.1	2297.5	2246.3	2199.1	2155.2	2143.8	2124.4	2145.0	2182.2	2235.9
29°	2296.9	2305.8	2279.5	2227.0	2179.9	2130.8	2118.5	2105.2	2122.6	2164.5	2214.8
30°	2286.9	2287.3	2260.4	2206.6	2158.9	2114.0	2106.4	2081.5	2100.1	2142.4	2195.5
31°	2270.5	2267.4	2244.4	2186.5	2138.4	2093.2	2076.2	2069.9	2077.3	2119.8	2175.1
32°	2249.2	2244.9	2227.4	2169.4	2116.4	2074.1	2052.3	2047.4	2057.4	2100.5	2155.7
33°	2223.9	2228.8	2211.0	2153.1	2095.6	2053.7	2019.6	2028.9	2034.0	2079.8	2137.9
34°	2199.3	2206.7	2183.6	2132.4	2073.2	2028.1	1994.1	2006.1	2006.8	2061.0	2116.7
35°	2174.8	2189.6	2164.0	2114.6	2051.1	2010.2	1975.2	1984.5	1989.2	2039.4	2097.1
36°	2148.8	2156.2	2150.6	2097.8	2029.9	1994.8	1951.8	1963.4	1964.8	2017.4	2072.9
37°	2122.5	2143.4	2125.9	2078.9	2011.7	1971.3	1930.7	1940.5	1941.7	1997.2	2048.3
38°	2109.0	2122.9	2109.4	2057.5	1986.4	1951.9	1915.8	1922.6	1918.2	1977.3	2024.4
39°	2090.8	2104.1	2089.4	2040.4	1968.3	1934.3	1892.9	1906.8	1900.9	1956.6	2006.1
40°	2075.5	2083.1	2064.4	2019.4	1947.3	1910.2	1873.6	1882.8	1878.9	1932.1	1987.8
41°	2055.9	2062.0	2048.3	2001.7	1927.0	1884.6	1847.0	1854.8	1853.7	1910.1	1971.0
42°	2037.0	2039.1	2026.7	1982.4	1908.8	1866.8	1826.9	1828.0	1833.3	1897.4	1947.9
43°	2009.6	2006.0	2006.9	1960.8	1889.0	1840.6	1800.2	1809.4	1812.6	1877.0	1929.4
44°	1975.2	1992.6	1988.3	1937.4	1869.1	1814.8	1774.1	1788.7	1787.9	1852.9	1905.7



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	1950.0	1977.8	1962.4	1919.7	1848.9	1795.3	1743.8	1772.5	1771.1	1832.9	1881.1
46°	1933.5	1954.0	1944.2	1902.8	1827.8	1767.5	1719.6	1744.4	1750.6	1809.5	1860.1
47°	1907.7	1934.8	1913.9	1881.3	1804.5	1747.8	1698.6	1721.6	1736.3	1783.4	1839.5
48°	1885.9	1910.4	1897.0	1859.9	1782.9	1729.1	1681.3	1698.0	1713.4	1760.6	1816.9
49°	1876.6	1885.0	1871.9	1837.4	1761.2	1706.9	1662.5	1674.4	1691.1	1737.9	1796.2
50°	1851.9	1859.6	1854.2	1816.0	1743.5	1679.9	1653.3	1648.9	1666.1	1720.8	1777.8
51°	1828.6	1846.0	1831.8	1790.6	1721.6	1659.0	1628.4	1628.2	1645.7	1694.4	1756.2
52°	1799.5	1813.8	1807.1	1766.1	1699.3	1634.5	1597.7	1606.8	1620.0	1670.5	1733.8
53°	1768.9	1791.1	1784.8	1737.8	1678.0	1608.8	1570.0	1596.2	1598.9	1646.1	1710.3
54°	1742.9	1757.6	1755.2	1713.3	1654.2	1591.1	1547.0	1575.8	1582.9	1617.8	1686.6
55°	1720.9	1732.0	1733.8	1687.9	1632.4	1570.0	1533.2	1556.3	1561.0	1591.3	1657.6
56°	1696.0	1713.6	1717.4	1665.0	1611.8	1553.8	1522.7	1538.8	1545.2	1573.7	1637.6
57°	1680.3	1695.4	1684.4	1635.9	1591.5	1534.8	1509.9	1526.6	1528.4	1550.2	1616.2
58°	1651.4	1677.0	1663.3	1616.4	1571.7	1515.8	1491.5	1512.4	1510.9	1533.1	1600.2
59°	1626.5	1656.3	1643.9	1590.1	1550.3	1497.8	1471.0	1498.6	1494.1	1517.3	1582.3
60°	1602.2	1631.5	1620.5	1567.5	1535.0	1481.7	1457.5	1488.8	1482.9	1508.0	1567.1
61°	1585.2	1608.8	1598.6	1546.4	1518.3	1461.6	1440.6	1468.3	1470.0	1499.4	1547.3
62°	1573.7	1585.8	1578.4	1525.5	1501.8	1436.5	1409.0	1456.9	1456.2	1495.8	1528.2
63°	1560.8	1568.0	1557.7	1512.9	1488.9	1416.4	1373.1	1435.4	1440.1	1499.2	1512.5
64°	1560.2	1553.0	1534.2	1502.8	1470.9	1385.8	1343.1	1403.1	1423.9	1492.6	1502.7
65°	1559.9	1539.2	1513.7	1484.6	1450.5	1360.7	1314.2	1362.6	1396.3	1482.7	1490.6
66°	1543.8	1522.2	1500.9	1467.3	1430.4	1331.7	1275.0	1328.2	1359.5	1457.8	1482.0
67°	1494.1	1505.7	1475.6	1442.6	1402.1	1293.5	1227.1	1274.8	1309.2	1421.8	1463.1
68°	1441.9	1488.3	1451.6	1414.2	1366.7	1251.3	1178.0	1220.7	1253.2	1375.1	1439.9
69°	1414.1	1466.9	1433.5	1380.0	1323.8	1205.1	1118.2	1164.6	1186.8	1315.5	1403.8
70°	1397.3	1434.2	1405.5	1338.0	1275.2	1152.9	1059.3	1089.3	1110.2	1248.9	1360.9
71°	1360.0	1395.2	1369.9	1294.0	1216.2	1097.7	994.9	1015.4	1025.7	1170.8	1303.8
72°	1304.7	1350.5	1333.6	1239.2	1149.3	1032.3	925.2	938.1	935.1	1088.0	1235.5
73°	1248.4	1307.8	1279.9	1178.5	1076.2	959.6	848.4	853.5	845.4	999.0	1158.0
74°	1192.0	1259.5	1229.2	1105.5	996.7	885.2	762.2	768.0	754.0	905.1	1073.9
75°	1125.3	1206.6	1171.5	1026.9	912.5	805.6	682.9	680.9	662.4	808.9	986.3
76°	1045.7	1141.2	1105.9	939.1	823.8	724.1	607.2	591.4	574.8	711.1	891.5
77°	958.7	1071.0	1034.5	843.6	737.2	645.8	534.5	510.2	493.3	615.9	800.5
78°	872.0	1005.8	958.7	741.2	649.3	570.0	464.5	434.2	418.5	521.9	705.3
79°	785.5	931.3	874.2	639.0	568.7	500.4	394.6	367.4	353.2	435.7	615.9
80°	693.1	850.2	797.0	545.8	493.7	436.1	325.1	308.9	296.6	358.9	530.6
81°	601.8	770.8	715.0	461.1	426.7	376.5	266.2	256.0	247.8	294.9	453.4
82°	509.2	694.1	640.1	390.3	366.8	324.9	218.0	213.3	206.6	242.2	385.0
83°	423.8	614.0	567.2	332.1	314.1	275.4	177.6	176.5	172.1	198.2	327.6
84°	346.1	538.7	500.1	279.5	269.8	234.5	146.5	147.0	143.4	163.2	273.5
85°	274.5	466.5	438.7	238.0	230.0	198.8	117.7	122.5	118.9	135.1	229.7
86°	220.7	401.5	381.6	203.0	195.4	168.4	96.5	102.9	100.0	110.0	191.5
87°	179.0	343.2	333.2	173.4	165.9	143.5	81.6	87.0	84.8	91.9	158.8
88°	146.3	291.4	287.2	148.3	141.6	122.9	69.0	74.9	73.1	77.6	131.1
89°	121.6	246.7	244.4	127.7	119.8	106.0	58.2	65.5	64.0	66.5	107.9



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	101.8	206.7	207.8	110.4	103.4	93.3	48.5	58.1	56.9	58.0	89.3
91°	85.7	173.0	176.1	95.9	90.3	82.9	38.6	51.9	51.4	51.3	75.6
92°	71.6	144.2	148.6	82.9	80.1	74.4	30.6	46.8	46.9	45.9	65.2
93°	60.7	119.3	125.6	72.1	71.7	67.5	24.0	42.4	43.4	41.5	57.4
94°	52.1	100.0	107.6	62.6	64.8	61.7	19.0	38.9	40.6	37.9	51.6
95°	44.3	85.2	93.1	53.7	58.9	56.8	14.7	35.5	38.3	34.7	47.0
96°	37.6	73.9	82.4	45.7	54.1	52.7	11.8	32.8	36.5	31.7	43.5
97°	31.9	65.3	73.6	38.4	50.0	49.2	10.8	30.7	35.2	28.9	40.7
98°	26.8	58.7	66.6	32.3	46.7	46.2	10.2	28.8	34.1	26.4	38.6
99°	24.0	53.3	60.8	28.4	43.8	43.7	9.8	27.1	33.3	23.9	36.8
100°	22.9	49.1	56.1	26.3	41.4	41.4	9.7	25.3	32.8	21.4	35.6
101°	22.1	45.5	52.1	24.9	39.3	39.1	9.5	23.4	32.4	19.3	34.6
102°	21.4	42.7	48.7	23.6	37.7	37.0	9.2	21.8	32.1	18.1	33.9
103°	20.7	40.4	46.1	22.6	36.3	34.9	8.7	19.9	31.9	17.5	33.4
104°	20.1	38.7	43.9	22.0	35.1	32.8	8.2	18.2	31.7	17.1	33.1
105°	19.0	37.2	42.2	21.7	34.1	30.6	7.9	16.5	31.3	16.8	32.9
106°	17.6	36.2	40.6	21.5	33.3	28.6	7.9	15.0	31.0	16.6	32.8
107°	16.6	35.4	39.4	21.3	32.4	26.6	7.9	13.9	30.5	16.5	32.8
108°	15.3	34.8	38.4	21.1	31.6	24.6	8.0	13.9	30.0	16.5	32.9
109°	14.5	34.2	37.7	21.0	30.8	22.9	8.1	14.0	29.5	16.8	33.0
110°	14.6	33.9	37.1	20.9	30.0	21.5	8.2	14.2	28.8	17.1	32.9
111°	15.5	33.6	36.5	20.9	29.2	20.3	8.4	14.2	28.0	17.2	32.8
112°	16.4	33.3	36.0	20.9	28.4	19.4	8.5	14.1	27.0	17.2	32.6
113°	16.8	33.0	35.5	21.0	27.5	18.6	8.7	13.8	25.6	17.1	32.3
114°	17.0	32.8	35.0	20.9	26.6	17.8	8.8	13.5	24.1	17.0	31.9
115°	16.9	32.3	34.6	20.6	25.7	17.2	8.9	13.1	22.7	16.7	31.3
116°	16.9	32.1	34.0	20.3	24.8	16.5	9.1	12.8	21.5	16.5	30.7
117°	16.9	31.6	33.4	20.0	23.8	15.9	9.2	12.5	20.6	16.2	30.1
118°	16.9	31.0	32.8	19.6	22.8	15.3	9.4	12.2	19.8	15.8	29.2
119°	16.9	30.5	32.0	19.2	21.8	14.8	9.5	12.0	19.2	15.3	28.3
120°	16.7	29.8	31.3	18.9	20.9	14.3	9.6	11.7	18.5	14.9	27.4
121°	16.6	29.0	30.4	18.4	19.9	13.8	9.8	11.5	17.8	14.6	26.4
122°	16.3	28.2	29.6	18.0	19.0	13.4	9.9	11.3	16.9	14.2	25.3
123°	16.0	27.3	28.5	17.5	18.1	13.0	10.0	11.2	16.1	13.9	24.2
124°	15.7	26.3	27.5	17.1	17.3	12.6	10.1	11.0	15.4	13.6	23.1
125°	15.3	25.3	26.4	16.6	16.5	12.3	10.3	10.9	14.7	13.3	21.9
126°	14.9	24.2	25.2	16.1	15.8	12.0	10.4	10.8	14.2	13.0	20.8
127°	14.3	23.1	24.1	15.6	15.1	11.8	10.5	10.7	13.3	12.7	19.8
128°	13.5	22.0	22.9	15.1	14.5	11.6	10.6	10.7	12.0	12.5	18.7
129°	12.8	21.0	21.8	14.6	14.0	11.4	10.7	10.6	11.8	12.2	17.8
130°	12.2	20.0	20.7	14.1	13.5	11.2	10.8	10.7	12.1	12.0	16.9
131°	11.8	19.0	19.6	13.4	13.1	11.1	11.0	10.7	12.1	11.8	16.0
132°	11.7	18.0	18.6	12.9	12.8	11.0	11.0	10.8	11.9	11.5	15.3
133°	11.8	17.1	17.6	12.6	12.5	10.9	11.1	10.9	11.7	11.4	14.6
134°	11.9	16.3	16.7	12.5	12.2	10.9	11.2	11.0	11.5	11.2	13.9

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CATALOG NUMBER: ALP90LSFSUNVDGY-60W-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	11.9	15.5	15.9	12.2	12.0	11.0	11.3	11.1	11.4	11.1	13.3
136°	11.8	14.8	15.1	11.8	11.8	11.0	11.4	11.2	11.3	11.1	12.8
137°	11.6	14.1	14.3	11.5	11.6	11.1	11.5	11.3	11.3	11.1	12.3
138°	11.4	13.6	13.6	11.4	11.5	11.2	11.6	11.4	11.3	11.1	12.0
139°	11.2	13.0	13.0	11.3	11.4	11.3	11.6	11.5	11.3	11.1	11.6
140°	11.1	12.6	12.4	11.2	11.3	11.4	11.7	11.6	11.5	11.2	11.4
141°	11.1	12.2	12.0	11.2	11.3	11.5	11.8	11.7	11.5	11.3	11.2
142°	11.0	11.8	11.5	11.2	11.4	11.6	11.9	11.8	11.6	11.4	11.2
143°	11.0	11.5	11.2	11.3	11.5	11.7	11.9	11.9	11.7	11.5	11.3
144°	11.1	11.3	10.9	11.4	11.6	11.8	12.0	12.0	11.8	11.6	11.4
145°	11.1	11.1	10.9	11.5	11.7	11.9	12.1	12.1	11.9	11.7	11.5
146°	11.2	11.1	10.9	11.6	11.8	12.0	12.2	12.2	12.0	11.8	11.6
147°	11.3	11.2	11.1	11.7	11.9	12.1	12.3	12.3	12.1	11.8	11.7
148°	11.4	11.3	11.1	11.8	11.9	12.2	12.3	12.3	12.2	11.9	11.8
149°	11.5	11.4	11.2	11.9	12.0	12.3	12.4	12.4	12.3	12.0	11.9
150°	11.7	11.5	11.3	12.0	12.1	12.4	12.5	12.5	12.4	12.1	12.0
151°	11.8	11.6	11.4	12.1	12.2	12.5	12.6	12.5	12.5	12.2	12.1
152°	11.8	11.7	11.5	12.2	12.3	12.6	12.7	12.6	12.6	12.3	12.2
153°	12.0	11.8	11.6	12.3	12.4	12.7	12.8	12.7	12.7	12.4	12.3
154°	12.1	11.9	11.7	12.4	12.5	12.8	12.9	12.8	12.7	12.5	12.4
155°	12.1	12.0	11.8	12.5	12.6	12.9	12.9	12.8	12.8	12.6	12.5
156°	12.3	12.1	11.9	12.6	12.6	13.0	13.0	12.9	12.9	12.7	12.6
157°	12.4	12.2	12.0	12.7	12.7	13.0	13.1	13.0	13.0	12.8	12.7
158°	12.5	12.3	12.1	12.8	12.8	13.1	13.2	13.0	13.1	12.9	12.8
159°	12.6	12.4	12.2	12.9	12.9	13.2	13.3	13.1	13.1	13.0	12.9
160°	12.7	12.5	12.3	13.0	13.0	13.3	13.4	13.2	13.2	13.1	13.0
161°	12.8	12.6	12.4	13.1	13.1	13.3	13.4	13.2	13.2	13.2	13.1
162°	12.9	12.7	12.5	13.2	13.2	13.4	13.5	13.3	13.3	13.3	13.2
163°	13.0	12.8	12.6	13.3	13.2	13.5	13.6	13.4	13.4	13.4	13.3
164°	13.1	12.9	12.7	13.4	13.3	13.6	13.7	13.4	13.4	13.5	13.4
165°	13.2	13.0	12.8	13.5	13.4	13.6	13.8	13.5	13.5	13.6	13.4
166°	13.3	13.1	12.9	13.7	13.5	13.7	13.8	13.6	13.5	13.7	13.5
167°	13.4	13.2	13.0	13.7	13.5	13.8	13.9	13.6	13.6	13.8	13.6
168°	13.5	13.2	13.1	13.8	13.6	13.8	14.0	13.7	13.7	13.8	13.7
169°	13.6	13.3	13.2	13.9	13.7	13.9	14.1	13.7	13.7	13.9	13.8
170°	13.8	13.4	13.3	14.0	13.8	13.9	14.1	13.8	13.8	14.0	13.8
171°	13.8	13.5	13.3	14.1	13.8	14.0	14.2	13.8	13.8	14.1	13.9
172°	13.9	13.6	13.4	14.2	13.9	14.0	14.3	13.9	13.9	14.2	14.0
173°	14.0	13.7	13.5	14.3	14.0	14.1	14.3	13.9	13.9	14.3	14.0
174°	14.1	13.7	13.6	14.4	14.0	14.1	14.3	14.0	13.9	14.4	14.1
175°	14.2	13.8	13.7	14.4	14.1	14.1	14.4	14.0	14.0	14.4	14.1
176°	14.2	13.9	13.8	14.5	14.2	14.2	14.4	14.0	14.0	14.5	14.2
177°	14.3	13.9	13.8	14.5	14.2	14.2	14.4	14.1	14.0	14.5	14.2
178°	14.3	14.0	13.9	14.6	14.2	14.2	14.4	14.1	14.0	14.6	14.3
179°	14.4	14.0	13.9	14.6	14.3	14.2	14.4	14.1	14.0	14.6	14.3



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CATALOG NUMBER: ALP90LSFSUNVDGY-60W-5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4



REPORT NUMBER: P670471
CATALOG NUMBER: ALP90LSFSUNVDGY-60W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	2610.4	2610.4
1°	2611.6	2608.0
2°	2610.3	2614.0
3°	2608.5	2613.2
4°	2611.0	2611.8
5°	2608.9	2609.3
6°	2598.4	2607.3
7°	2587.5	2593.8
8°	2581.9	2584.7
9°	2578.5	2579.3
10°	2568.2	2569.6
11°	2566.1	2578.2
12°	2551.1	2570.4
13°	2542.7	2566.9
14°	2536.1	2563.9
15°	2528.7	2554.1
16°	2513.9	2531.6
17°	2497.0	2506.6
18°	2477.8	2485.7
19°	2458.6	2468.2
20°	2440.0	2464.0
21°	2424.9	2457.6
22°	2409.8	2449.3
23°	2393.3	2430.0
24°	2377.6	2419.8
25°	2358.0	2391.8
26°	2340.0	2370.1
27°	2315.5	2342.0
28°	2292.6	2318.2
29°	2275.4	2296.9
30°	2249.6	2286.9
31°	2227.5	2270.5
32°	2211.8	2249.2
33°	2192.1	2223.9
34°	2178.3	2199.3
35°	2160.7	2174.8
36°	2136.9	2148.8
37°	2112.7	2122.5
38°	2086.7	2109.0
39°	2065.4	2090.8
40°	2042.9	2075.5
41°	2022.8	2055.9
42°	2003.5	2037.0
43°	1983.3	2009.6
44°	1963.2	1975.2



REPORT NUMBER: P670471
CATALOG NUMBER: ALP90LSFSUNVDGY-60W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	1942.7	1950.0
46°	1918.1	1933.5
47°	1900.0	1907.7
48°	1872.9	1885.9
49°	1841.8	1876.6
50°	1819.7	1851.9
51°	1795.1	1828.6
52°	1773.0	1799.5
53°	1749.9	1768.9
54°	1729.4	1742.9
55°	1705.5	1720.9
56°	1672.9	1696.0
57°	1648.9	1680.3
58°	1629.6	1651.4
59°	1612.9	1626.5
60°	1598.8	1602.2
61°	1577.9	1585.2
62°	1561.2	1573.7
63°	1545.4	1560.8
64°	1530.3	1560.2
65°	1522.0	1559.9
66°	1506.4	1543.8
67°	1488.7	1494.1
68°	1469.6	1441.9
69°	1438.7	1414.1
70°	1397.8	1397.3
71°	1350.1	1360.0
72°	1300.1	1304.7
73°	1235.7	1248.4
74°	1180.0	1192.0
75°	1113.4	1125.3
76°	1041.7	1045.7
77°	966.1	958.7
78°	881.0	872.0
79°	790.2	785.5
80°	697.2	693.1
81°	603.9	601.8
82°	517.6	509.2
83°	438.3	423.8
84°	370.2	346.1
85°	311.5	274.5
86°	262.9	220.7
87°	220.7	179.0
88°	184.2	146.3
89°	152.5	121.6



REPORT NUMBER: P670471
CATALOG NUMBER: ALP90LSFSUNVDGY-60W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	125.2	101.8
91°	103.4	85.7
92°	85.5	71.6
93°	71.9	60.7
94°	61.7	52.1
95°	54.3	44.3
96°	48.6	37.6
97°	44.4	31.9
98°	41.1	26.8
99°	38.6	24.0
100°	36.6	22.9
101°	35.2	22.1
102°	34.0	21.4
103°	33.2	20.7
104°	32.6	20.1
105°	32.2	19.0
106°	32.0	17.6
107°	31.8	16.6
108°	31.8	15.3
109°	31.7	14.5
110°	31.6	14.6
111°	31.5	15.5
112°	31.5	16.4
113°	31.3	16.8
114°	31.1	17.0
115°	30.8	16.9
116°	30.4	16.9
117°	29.9	16.9
118°	29.3	16.9
119°	28.6	16.9
120°	27.9	16.7
121°	27.0	16.6
122°	26.1	16.3
123°	25.1	16.0
124°	24.0	15.7
125°	22.9	15.3
126°	21.9	14.9
127°	20.9	14.3
128°	19.8	13.5
129°	18.8	12.8
130°	17.9	12.2
131°	17.0	11.8
132°	16.1	11.7
133°	15.4	11.8
134°	14.7	11.9



REPORT NUMBER: P670471
CATALOG NUMBER: ALP90LSFSUNVDGY-60W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	14.1	11.9
136°	13.5	11.8
137°	13.0	11.6
138°	12.6	11.4
139°	12.2	11.2
140°	11.9	11.1
141°	11.6	11.1
142°	11.4	11.0
143°	11.2	11.0
144°	11.2	11.1
145°	11.2	11.1
146°	11.3	11.2
147°	11.4	11.3
148°	11.5	11.4
149°	11.6	11.5
150°	11.7	11.7
151°	11.7	11.8
152°	11.8	11.8
153°	11.9	12.0
154°	12.0	12.1
155°	12.1	12.1
156°	12.2	12.3
157°	12.3	12.4
158°	12.4	12.5
159°	12.5	12.6
160°	12.6	12.7
161°	12.7	12.8
162°	12.8	12.9
163°	12.9	13.0
164°	13.0	13.1
165°	13.1	13.2
166°	13.2	13.3
167°	13.3	13.4
168°	13.4	13.5
169°	13.5	13.6
170°	13.5	13.8
171°	13.6	13.8
172°	13.7	13.9
173°	13.8	14.0
174°	13.9	14.1
175°	13.9	14.2
176°	14.0	14.2
177°	14.1	14.3
178°	14.1	14.3
179°	14.2	14.4

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

Scaled Data Report



REPORT NUMBER: P670471
CATALOG NUMBER: ALP90LSFSUNVDGY-60W-5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	14.4	14.4

(END OF REPORT)