

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



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: P670463

Luminaire Tested: ALP90LSFSUNVDGY-28W-3000K

Issue Date: 3/29/2023

Test Information

Test Method: LM-79-2019
Report Number: P670463
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-28W-3000K
Description: ALP Premium Area Light
Light Source: 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4446 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Luminous Opening: Circular (Dia: 0.66' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U2 - G2

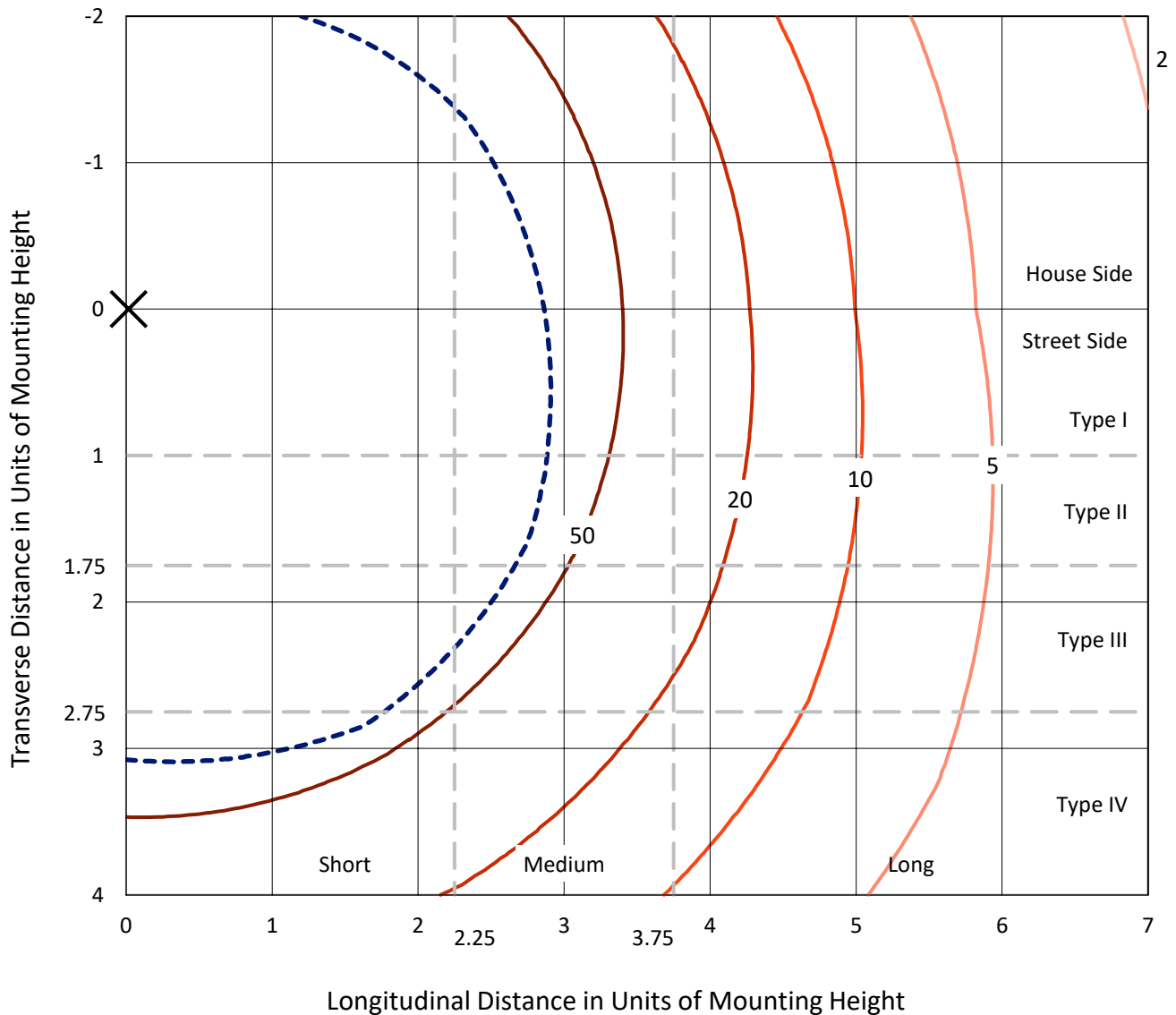
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

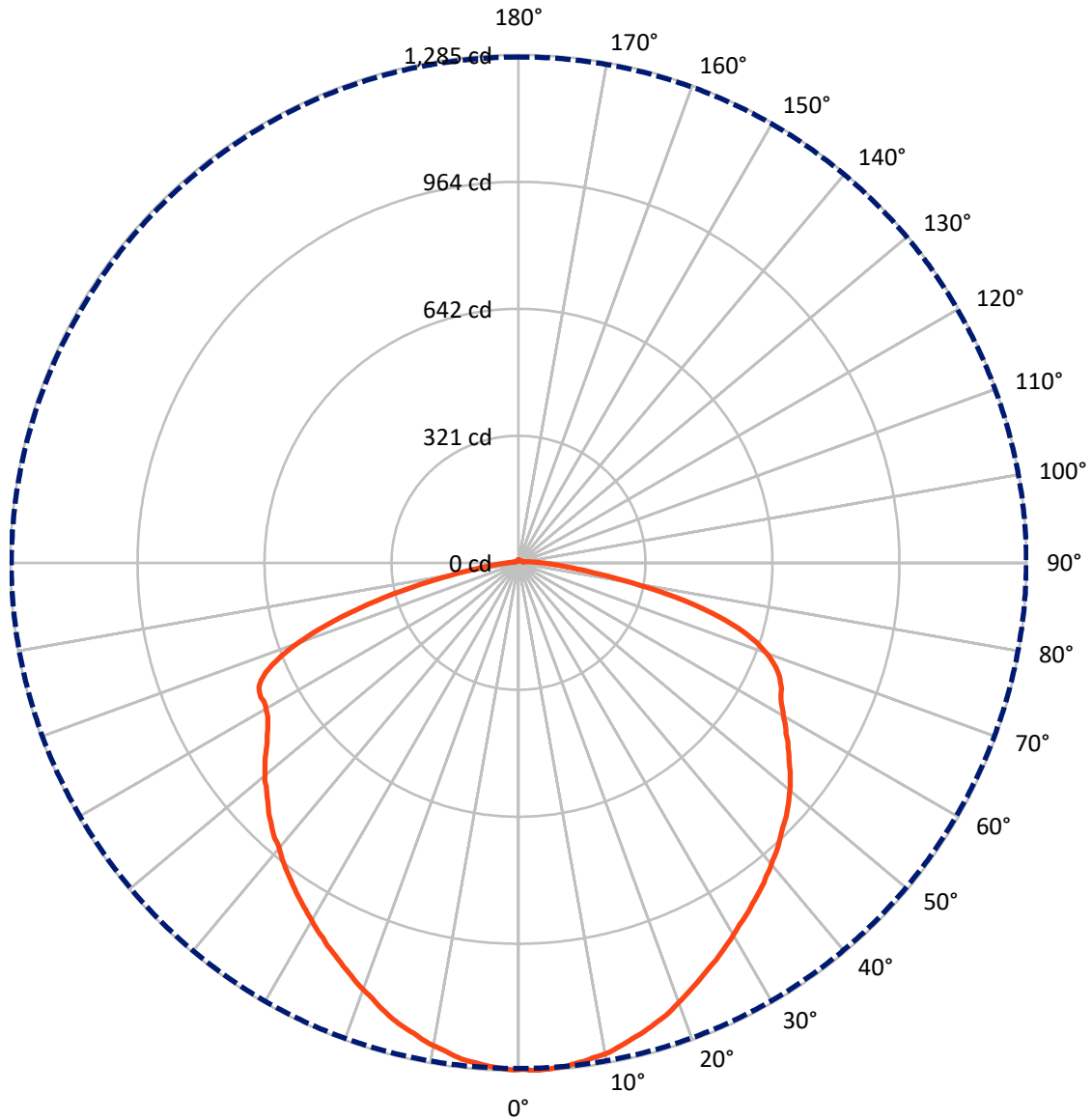
× Max cd
 - - - 1/2 Max cd



Based on 0.5 foot mounting height. Maximum calculated value = 5121.2 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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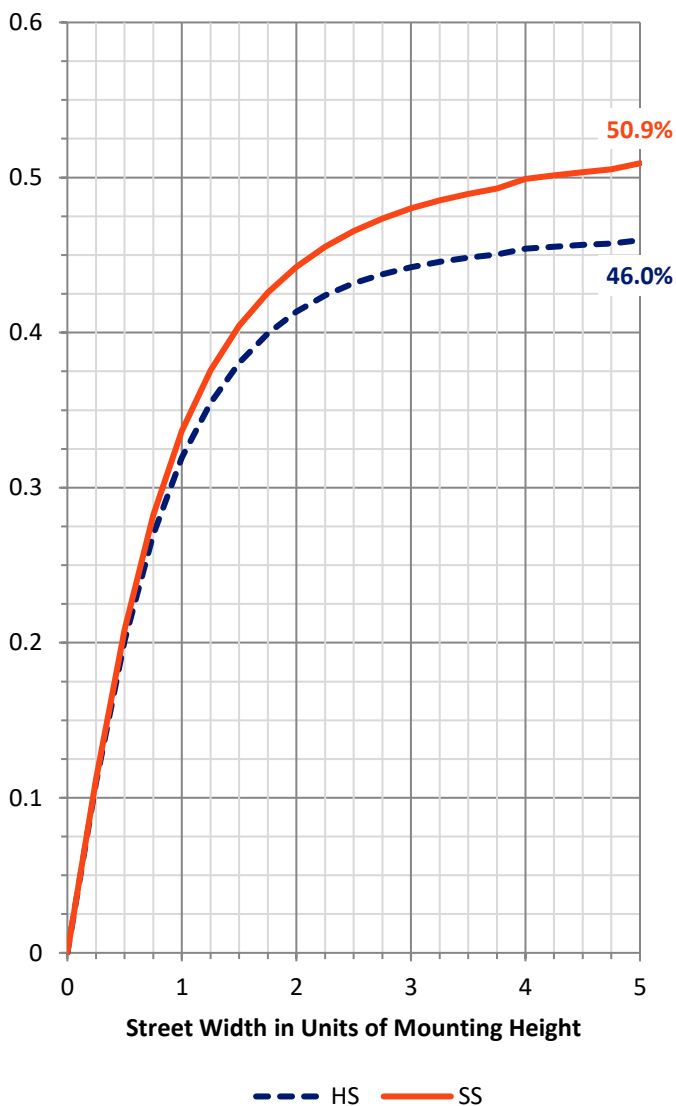
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2064.9	32.2	2097.1
	% Fixture	46.4	0.7	47.2
Street Side	Lumens	2303.9	45.1	2348.9
	% Fixture	51.8	1.0	52.8
Total	Lumens	4368.7	77.3	4446.0
	% Fixture	98.3	1.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	2.7
10°-20°	342.9	7.7
20°-30°	517.7	11.6
30°-40°	639.1	14.4
40°-50°	707.7	15.9
50°-60°	722.9	16.3
60°-70°	699.5	15.7
70°-80°	475.8	10.7
80°-90°	142.5	3.2
90°-100°	30.7	0.7
100°-110°	14.3	0.3
110°-120°	10.9	0.2
120°-130°	7.6	0.2
130°-140°	4.8	0.1
140°-150°	3.6	0.1
150°-160°	2.8	0.1
160°-170°	1.9	0.0
170°-180°	0.7	0.0
0°-90°	4368.7	98.3
0°-180°	4446.0	100.0

Coefficient of Utilization

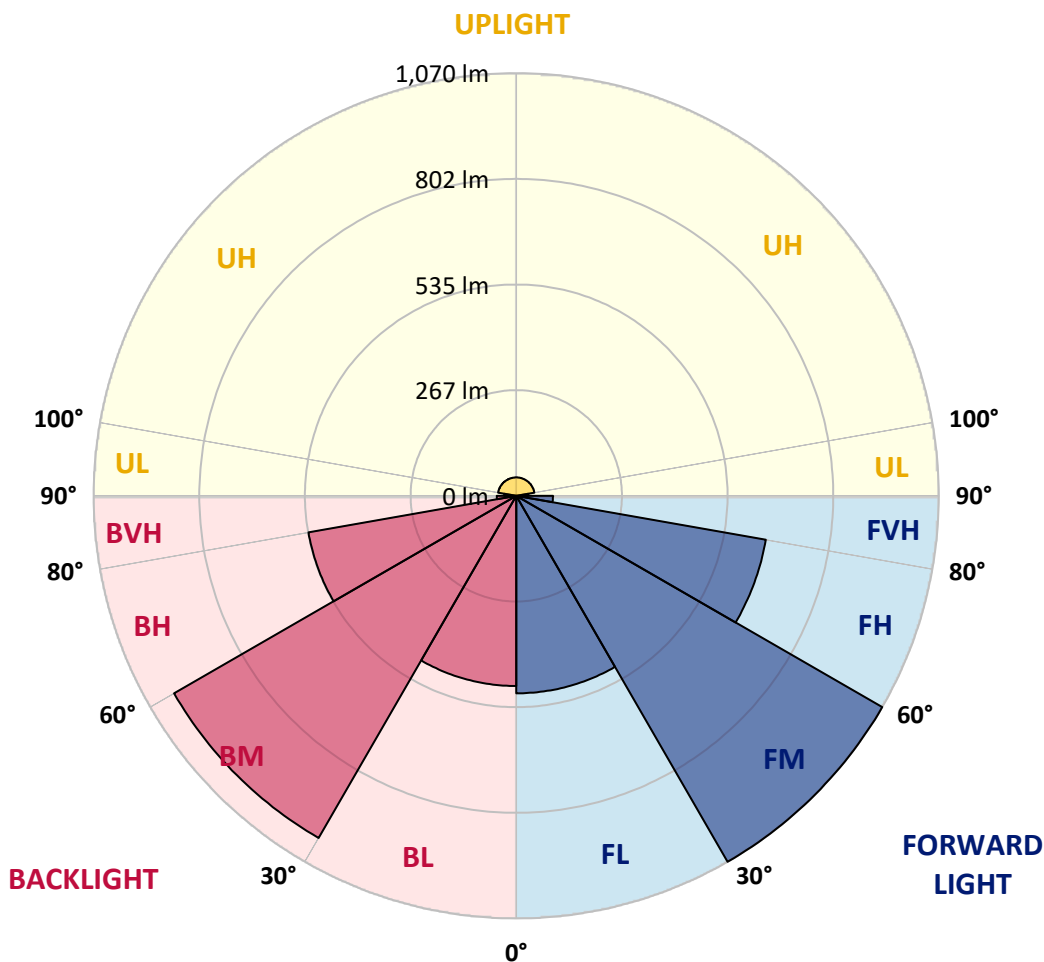


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	499.9	11.2			
FM (30°-60°)	1069.6	24.1			
FH (60°-80°)	641.4	14.4			G0/660
FVH (80°-90°)	93.0	2.1			G1/100
BL (0°-30°)	481.3	10.8	B1/500		
BM (30°-60°)	1000.1	22.5	B2/2500		
BH (60°-80°)	534.0	12.0	B2/1000		G2/1000
BVH (80°-90°)	49.5	1.1			G1/100
UL (90°-100°)	30.7	0.7		U2/50	
UH (100°-180°)	46.6	1.0		U2/50	

BUG Rating: B2-U2-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3	1280.3
1°	1279.1	1279.2	1279.2	1284.9	1282.2	1281.7	1279.4	1279.4	1278.2	1283.2	1281.1
2°	1282.0	1281.3	1281.9	1284.1	1283.5	1278.9	1276.4	1276.9	1276.3	1281.3	1279.7
3°	1281.7	1281.2	1281.0	1282.7	1279.9	1275.8	1272.1	1268.8	1273.5	1278.0	1278.5
4°	1281.0	1280.1	1276.4	1280.7	1277.6	1271.0	1264.6	1265.9	1266.3	1275.4	1275.4
5°	1279.7	1281.6	1278.4	1279.1	1273.8	1263.8	1257.2	1258.0	1263.3	1271.3	1273.4
6°	1278.8	1279.0	1275.8	1274.7	1268.8	1257.3	1248.7	1247.1	1257.7	1267.3	1271.5
7°	1272.1	1274.2	1276.6	1271.7	1263.6	1249.1	1241.9	1243.3	1251.9	1263.5	1267.0
8°	1267.7	1271.7	1271.6	1266.7	1256.5	1243.3	1242.1	1235.6	1245.2	1257.3	1266.4
9°	1265.0	1264.6	1270.7	1263.6	1252.0	1236.2	1236.7	1232.1	1237.9	1248.6	1261.4
10°	1260.3	1262.2	1263.4	1259.1	1246.9	1233.8	1230.4	1231.0	1231.7	1242.8	1255.7
11°	1264.5	1257.8	1261.0	1252.1	1240.6	1228.3	1230.8	1222.4	1223.7	1236.8	1250.4
12°	1260.7	1258.9	1258.2	1245.5	1232.2	1226.5	1220.7	1218.1	1213.6	1229.2	1244.7
13°	1258.9	1259.7	1251.4	1237.2	1225.9	1220.6	1215.0	1210.4	1203.8	1219.7	1237.1
14°	1257.5	1252.7	1247.2	1231.3	1218.1	1213.3	1200.1	1205.5	1194.0	1212.4	1227.9
15°	1252.7	1246.6	1242.5	1223.7	1207.6	1204.0	1190.4	1189.3	1184.9	1205.1	1220.2
16°	1241.6	1243.6	1231.5	1215.6	1199.4	1192.0	1173.7	1180.0	1175.8	1196.2	1213.0
17°	1229.4	1236.2	1223.2	1208.3	1188.8	1180.7	1165.5	1167.0	1165.6	1185.9	1204.5
18°	1219.1	1227.1	1211.0	1199.8	1178.0	1166.3	1160.1	1153.8	1160.4	1174.9	1194.2
19°	1210.5	1218.2	1204.6	1189.0	1170.4	1155.6	1154.2	1145.7	1148.6	1162.6	1186.8
20°	1208.5	1211.0	1199.5	1179.1	1161.2	1148.1	1146.5	1132.9	1137.0	1153.4	1177.5
21°	1205.4	1199.6	1191.0	1169.1	1153.0	1140.4	1137.3	1127.3	1129.1	1144.4	1167.3
22°	1201.3	1195.4	1182.8	1159.4	1142.5	1128.7	1120.1	1111.9	1116.2	1133.4	1157.1
23°	1191.8	1190.2	1175.4	1149.4	1133.2	1119.4	1104.7	1107.3	1105.9	1121.8	1148.4
24°	1186.8	1183.9	1166.6	1139.2	1121.5	1106.6	1090.0	1094.7	1094.2	1112.3	1137.2
25°	1173.1	1176.7	1156.7	1129.4	1111.0	1093.8	1080.0	1082.0	1082.8	1101.1	1126.1
26°	1162.4	1165.3	1145.6	1121.6	1100.3	1085.8	1068.7	1066.1	1072.3	1091.3	1118.6
27°	1148.6	1153.9	1135.8	1111.2	1088.6	1069.4	1056.4	1055.2	1061.4	1082.5	1105.6
28°	1137.0	1140.9	1126.8	1101.7	1078.6	1057.0	1051.4	1041.9	1052.1	1070.3	1096.6
29°	1126.5	1130.9	1118.0	1092.2	1069.1	1045.1	1039.0	1032.5	1041.0	1061.6	1086.3
30°	1121.6	1121.8	1108.7	1082.3	1058.9	1036.8	1033.1	1020.9	1030.0	1050.7	1076.8
31°	1113.6	1112.1	1100.8	1072.4	1048.8	1026.6	1018.3	1015.2	1018.8	1039.7	1066.8
32°	1103.1	1101.0	1092.5	1064.0	1038.0	1017.3	1006.6	1004.1	1009.1	1030.2	1057.3
33°	1090.8	1093.2	1084.4	1056.0	1027.8	1007.3	990.5	995.1	997.6	1020.1	1048.6
34°	1078.7	1082.3	1070.9	1045.9	1016.8	994.7	978.0	983.9	984.2	1010.8	1038.2
35°	1066.7	1073.9	1061.4	1037.1	1006.0	985.9	968.7	973.3	975.6	1000.2	1028.5
36°	1053.9	1057.5	1054.8	1028.9	995.6	978.4	957.3	963.0	963.7	989.4	1016.7
37°	1041.0	1051.3	1042.7	1019.6	986.6	966.8	946.9	951.7	952.3	979.6	1004.6
38°	1034.4	1041.2	1034.6	1009.1	974.2	957.3	939.6	943.0	940.8	969.8	992.9
39°	1025.5	1032.0	1024.8	1000.8	965.4	948.7	928.4	935.2	932.3	959.6	983.9
40°	1018.0	1021.7	1012.5	990.5	955.1	936.9	918.9	923.4	921.5	947.6	974.9
41°	1008.3	1011.3	1004.6	981.7	945.1	924.3	905.9	909.7	909.2	936.8	966.7
42°	999.1	1000.1	994.0	972.3	936.2	915.6	896.0	896.6	899.2	930.6	955.4
43°	985.6	983.8	984.3	961.7	926.5	902.8	882.9	887.4	889.0	920.6	946.3
44°	968.8	977.3	975.2	950.2	916.7	890.1	870.1	877.3	876.9	908.8	934.7



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	956.4	970.0	962.5	941.5	906.8	880.5	855.3	869.3	868.6	898.9	922.6
46°	948.3	958.3	953.5	933.2	896.4	866.9	843.4	855.6	858.6	887.5	912.3
47°	935.6	948.9	938.7	922.7	885.1	857.2	833.1	844.4	851.6	874.7	902.2
48°	925.0	937.0	930.4	912.2	874.5	848.1	824.6	832.8	840.3	863.5	891.1
49°	920.4	924.5	918.1	901.2	863.8	837.2	815.4	821.2	829.4	852.4	881.0
50°	908.3	912.0	909.4	890.7	855.1	823.9	810.9	808.7	817.1	844.0	871.9
51°	896.8	905.4	898.4	878.2	844.4	813.7	798.6	798.6	807.1	831.0	861.4
52°	882.6	889.6	886.3	866.2	833.4	801.6	783.6	788.0	794.5	819.3	850.4
53°	867.6	878.5	875.3	852.3	823.0	789.0	770.0	782.9	784.2	807.3	838.8
54°	854.8	862.0	860.9	840.3	811.3	780.4	758.7	772.9	776.4	793.4	827.2
55°	844.0	849.5	850.3	827.8	800.6	770.0	751.9	763.3	765.6	780.5	813.0
56°	831.8	840.5	842.3	816.6	790.5	762.1	746.8	754.7	757.9	771.8	803.2
57°	824.1	831.5	826.1	802.3	780.5	752.8	740.5	748.8	749.6	760.3	792.7
58°	810.0	822.5	815.8	792.8	770.8	743.4	731.5	741.8	741.0	751.9	784.9
59°	797.7	812.3	806.3	779.9	760.4	734.6	721.5	735.0	732.8	744.2	776.0
60°	785.8	800.2	794.8	768.8	752.8	726.7	714.8	730.2	727.3	739.6	768.6
61°	777.5	789.1	784.0	758.4	744.7	716.8	706.6	720.1	721.0	735.4	758.9
62°	771.8	777.8	774.1	748.2	736.6	704.6	691.1	714.5	714.2	733.6	749.5
63°	765.5	769.0	764.0	742.0	730.2	694.7	673.4	704.0	706.3	735.3	741.8
64°	765.2	761.7	752.5	737.0	721.4	679.7	658.7	688.2	698.4	732.1	737.0
65°	765.0	754.9	742.4	728.2	711.4	667.4	644.5	668.3	684.8	727.2	731.1
66°	757.2	746.6	736.1	719.7	701.6	653.1	625.3	651.4	666.8	715.0	726.8
67°	732.8	738.5	723.7	707.6	687.7	634.4	601.8	625.2	642.1	697.3	717.6
68°	707.2	729.9	711.9	693.6	670.3	613.7	577.7	598.7	614.6	674.4	706.2
69°	693.6	719.4	703.1	676.8	649.3	591.1	548.4	571.2	582.1	645.2	688.5
70°	685.3	703.4	689.3	656.2	625.4	565.4	519.5	534.3	544.5	612.5	667.5
71°	667.0	684.3	671.9	634.7	596.5	538.4	488.0	498.0	503.1	574.2	639.5
72°	639.9	662.3	654.1	607.8	563.7	506.3	453.8	460.1	458.6	533.6	605.9
73°	612.3	641.4	627.7	578.0	527.8	470.6	416.1	418.6	414.7	490.0	567.9
74°	584.6	617.7	602.9	542.2	488.8	434.2	373.8	376.7	369.8	443.9	526.7
75°	551.9	591.8	574.6	503.6	447.5	395.1	335.0	333.9	324.9	396.7	483.7
76°	512.9	559.7	542.4	460.6	404.1	355.1	297.8	290.1	281.9	348.8	437.3
77°	470.2	525.3	507.4	413.7	361.6	316.7	262.1	250.2	242.0	302.1	392.6
78°	427.7	493.3	470.2	363.5	318.5	279.6	227.8	212.9	205.3	256.0	345.9
79°	385.3	456.7	428.8	313.4	278.9	245.4	193.5	180.2	173.2	213.7	302.1
80°	339.9	417.0	390.9	267.7	242.2	213.9	159.5	151.5	145.5	176.0	260.3
81°	295.2	378.0	350.7	226.1	209.3	184.7	130.6	125.6	121.5	144.6	222.4
82°	249.8	340.4	313.9	191.4	179.9	159.3	106.9	104.6	101.3	118.8	188.8
83°	207.8	301.2	278.2	162.9	154.1	135.0	87.1	86.6	84.4	97.2	160.7
84°	169.7	264.2	245.3	137.1	132.3	115.0	71.9	72.1	70.3	80.0	134.2
85°	134.6	228.8	215.2	116.7	112.8	97.5	57.8	60.1	58.3	66.2	112.7
86°	108.2	196.9	187.2	99.6	95.8	82.6	47.3	50.5	49.1	53.9	93.9
87°	87.8	168.3	163.4	85.1	81.3	70.4	40.0	42.7	41.6	45.1	77.9
88°	71.8	142.9	140.9	72.7	69.5	60.3	33.9	36.8	35.8	38.1	64.3
89°	59.6	121.0	119.9	62.6	58.8	52.0	28.6	32.1	31.4	32.6	52.9



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	49.9	101.4	101.9	54.2	50.7	45.8	23.8	28.5	27.9	28.4	43.8
91°	42.1	84.8	86.4	47.0	44.3	40.7	19.0	25.4	25.2	25.2	37.1
92°	35.1	70.7	72.9	40.7	39.3	36.5	15.0	22.9	23.0	22.5	32.0
93°	29.8	58.5	61.6	35.3	35.2	33.1	11.8	20.8	21.3	20.4	28.2
94°	25.6	49.1	52.8	30.7	31.8	30.3	9.3	19.1	19.9	18.6	25.3
95°	21.7	41.8	45.7	26.4	28.9	27.8	7.2	17.4	18.8	17.0	23.1
96°	18.4	36.2	40.4	22.4	26.5	25.8	5.8	16.1	17.9	15.5	21.4
97°	15.6	32.0	36.1	18.9	24.5	24.1	5.3	15.1	17.2	14.2	20.0
98°	13.1	28.8	32.7	15.8	22.9	22.7	5.0	14.1	16.7	12.9	18.9
99°	11.8	26.1	29.8	13.9	21.5	21.4	4.8	13.3	16.4	11.7	18.1
100°	11.2	24.1	27.5	12.9	20.3	20.3	4.8	12.4	16.1	10.5	17.5
101°	10.8	22.3	25.6	12.2	19.3	19.2	4.7	11.5	15.9	9.5	17.0
102°	10.5	21.0	23.9	11.6	18.5	18.2	4.5	10.7	15.8	8.9	16.6
103°	10.2	19.8	22.6	11.1	17.8	17.1	4.3	9.8	15.7	8.6	16.4
104°	9.9	19.0	21.5	10.8	17.2	16.1	4.0	8.9	15.5	8.4	16.2
105°	9.3	18.3	20.7	10.6	16.7	15.0	3.9	8.1	15.4	8.2	16.1
106°	8.6	17.8	19.9	10.6	16.3	14.0	3.9	7.3	15.2	8.2	16.1
107°	8.1	17.3	19.3	10.5	15.9	13.0	3.9	6.8	15.0	8.1	16.1
108°	7.5	17.1	18.8	10.3	15.5	12.1	3.9	6.8	14.7	8.1	16.1
109°	7.1	16.8	18.5	10.3	15.1	11.2	4.0	6.9	14.5	8.2	16.2
110°	7.2	16.6	18.2	10.2	14.7	10.5	4.0	6.9	14.1	8.4	16.2
111°	7.6	16.5	17.9	10.3	14.3	10.0	4.1	6.9	13.7	8.5	16.1
112°	8.0	16.4	17.6	10.3	13.9	9.5	4.2	6.9	13.2	8.4	16.0
113°	8.2	16.2	17.4	10.3	13.5	9.1	4.2	6.8	12.5	8.4	15.8
114°	8.3	16.1	17.2	10.2	13.1	8.7	4.3	6.6	11.8	8.3	15.6
115°	8.3	15.9	17.0	10.1	12.6	8.4	4.4	6.4	11.1	8.2	15.4
116°	8.3	15.7	16.7	10.0	12.1	8.1	4.5	6.3	10.5	8.1	15.1
117°	8.3	15.5	16.4	9.8	11.7	7.8	4.5	6.1	10.1	7.9	14.7
118°	8.3	15.2	16.1	9.6	11.2	7.5	4.6	6.0	9.7	7.7	14.3
119°	8.3	15.0	15.7	9.4	10.7	7.3	4.7	5.9	9.4	7.5	13.9
120°	8.2	14.6	15.3	9.2	10.2	7.0	4.7	5.8	9.1	7.3	13.4
121°	8.1	14.2	14.9	9.0	9.8	6.8	4.8	5.6	8.7	7.2	12.9
122°	8.0	13.8	14.5	8.8	9.3	6.6	4.9	5.6	8.3	7.0	12.4
123°	7.9	13.4	14.0	8.6	8.9	6.4	4.9	5.5	7.9	6.8	11.9
124°	7.7	12.9	13.5	8.4	8.5	6.2	5.0	5.4	7.6	6.7	11.3
125°	7.5	12.4	12.9	8.1	8.1	6.1	5.0	5.3	7.2	6.5	10.8
126°	7.3	11.9	12.4	7.9	7.7	5.9	5.1	5.3	6.9	6.4	10.2
127°	7.0	11.3	11.8	7.7	7.4	5.8	5.1	5.3	6.5	6.2	9.7
128°	6.6	10.8	11.2	7.4	7.1	5.7	5.2	5.2	5.9	6.1	9.2
129°	6.3	10.3	10.7	7.2	6.9	5.6	5.3	5.2	5.8	6.0	8.7
130°	6.0	9.8	10.2	6.9	6.6	5.5	5.3	5.2	5.9	5.9	8.3
131°	5.8	9.3	9.6	6.6	6.4	5.4	5.4	5.3	6.0	5.8	7.9
132°	5.7	8.8	9.1	6.3	6.3	5.4	5.4	5.3	5.8	5.7	7.5
133°	5.8	8.4	8.7	6.2	6.1	5.4	5.5	5.4	5.7	5.6	7.1
134°	5.8	8.0	8.2	6.1	6.0	5.4	5.5	5.4	5.6	5.5	6.8



REPORT NUMBER: P670463
 CATALOG NUMBER: ALP90LSFSUNVDGY-28W-3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	5.9	7.6	7.8	6.0	5.9	5.4	5.5	5.5	5.6	5.5	6.5
136°	5.8	7.3	7.4	5.8	5.8	5.4	5.6	5.5	5.6	5.4	6.3
137°	5.7	6.9	7.0	5.7	5.7	5.4	5.6	5.5	5.5	5.4	6.1
138°	5.6	6.7	6.7	5.6	5.6	5.5	5.7	5.6	5.5	5.4	5.9
139°	5.5	6.4	6.4	5.5	5.6	5.5	5.7	5.6	5.6	5.5	5.7
140°	5.5	6.2	6.1	5.5	5.6	5.6	5.7	5.7	5.6	5.5	5.6
141°	5.4	6.0	5.9	5.5	5.6	5.6	5.8	5.7	5.7	5.6	5.5
142°	5.4	5.8	5.6	5.5	5.6	5.7	5.8	5.8	5.7	5.6	5.5
143°	5.4	5.6	5.5	5.5	5.6	5.7	5.9	5.8	5.7	5.6	5.5
144°	5.4	5.5	5.4	5.6	5.7	5.8	5.9	5.9	5.8	5.7	5.6
145°	5.5	5.5	5.3	5.6	5.7	5.8	5.9	5.9	5.8	5.7	5.6
146°	5.5	5.4	5.4	5.7	5.8	5.9	6.0	6.0	5.9	5.8	5.7
147°	5.6	5.5	5.4	5.7	5.8	5.9	6.0	6.0	5.9	5.8	5.7
148°	5.6	5.5	5.5	5.8	5.9	6.0	6.1	6.1	6.0	5.9	5.8
149°	5.7	5.6	5.5	5.8	5.9	6.0	6.1	6.1	6.0	5.9	5.8
150°	5.7	5.6	5.6	5.9	6.0	6.1	6.1	6.1	6.1	6.0	5.9
151°	5.8	5.7	5.6	5.9	6.0	6.1	6.2	6.2	6.1	6.0	5.9
152°	5.8	5.7	5.6	6.0	6.0	6.2	6.2	6.2	6.2	6.0	6.0
153°	5.9	5.8	5.7	6.0	6.1	6.2	6.3	6.2	6.2	6.1	6.0
154°	5.9	5.9	5.8	6.1	6.1	6.3	6.3	6.3	6.3	6.1	6.1
155°	6.0	5.9	5.8	6.1	6.2	6.3	6.3	6.3	6.3	6.2	6.1
156°	6.0	6.0	5.8	6.2	6.2	6.4	6.4	6.3	6.3	6.2	6.2
157°	6.1	6.0	5.9	6.2	6.2	6.4	6.4	6.4	6.4	6.3	6.2
158°	6.1	6.1	5.9	6.3	6.3	6.4	6.5	6.4	6.4	6.3	6.3
159°	6.2	6.1	6.0	6.3	6.3	6.5	6.5	6.4	6.4	6.4	6.3
160°	6.2	6.2	6.0	6.4	6.4	6.5	6.6	6.5	6.5	6.4	6.4
161°	6.3	6.2	6.1	6.4	6.4	6.5	6.6	6.5	6.5	6.5	6.4
162°	6.3	6.2	6.1	6.5	6.5	6.6	6.6	6.5	6.5	6.5	6.5
163°	6.4	6.3	6.2	6.5	6.5	6.6	6.7	6.6	6.6	6.6	6.5
164°	6.4	6.3	6.2	6.6	6.5	6.7	6.7	6.6	6.6	6.6	6.6
165°	6.5	6.4	6.3	6.6	6.6	6.7	6.8	6.6	6.6	6.7	6.6
166°	6.5	6.4	6.3	6.7	6.6	6.7	6.8	6.7	6.6	6.7	6.6
167°	6.6	6.5	6.4	6.7	6.6	6.7	6.8	6.7	6.7	6.8	6.7
168°	6.6	6.5	6.4	6.8	6.7	6.8	6.9	6.7	6.7	6.8	6.7
169°	6.7	6.5	6.5	6.8	6.7	6.8	6.9	6.7	6.7	6.8	6.8
170°	6.7	6.6	6.5	6.9	6.8	6.8	6.9	6.8	6.8	6.9	6.8
171°	6.8	6.6	6.5	6.9	6.8	6.9	7.0	6.8	6.8	6.9	6.8
172°	6.8	6.7	6.6	7.0	6.8	6.9	7.0	6.8	6.8	7.0	6.9
173°	6.9	6.7	6.6	7.0	6.9	6.9	7.0	6.8	6.8	7.0	6.9
174°	6.9	6.7	6.7	7.1	6.9	6.9	7.0	6.8	6.8	7.0	6.9
175°	7.0	6.8	6.7	7.1	6.9	6.9	7.1	6.9	6.9	7.1	6.9
176°	7.0	6.8	6.8	7.1	6.9	7.0	7.1	6.9	6.9	7.1	7.0
177°	7.0	6.8	6.8	7.1	7.0	7.0	7.1	6.9	6.9	7.1	7.0
178°	7.0	6.9	6.8	7.2	7.0	7.0	7.1	6.9	6.9	7.1	7.0
179°	7.1	6.9	6.8	7.2	7.0	7.0	7.1	6.9	6.9	7.2	7.0



REPORT NUMBER: P670463
CATALOG NUMBER: ALP90LSFSUNVDGY-28W-3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1



REPORT NUMBER: P670463
CATALOG NUMBER: ALP90LSFSUNVDGY-28W-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	1280.3	1280.3
1°	1280.9	1279.1
2°	1280.2	1282.0
3°	1279.4	1281.7
4°	1280.6	1281.0
5°	1279.6	1279.7
6°	1274.4	1278.8
7°	1269.0	1272.1
8°	1266.3	1267.7
9°	1264.7	1265.0
10°	1259.6	1260.3
11°	1258.6	1264.5
12°	1251.2	1260.7
13°	1247.1	1258.9
14°	1243.8	1257.5
15°	1240.2	1252.7
16°	1233.0	1241.6
17°	1224.7	1229.4
18°	1215.3	1219.1
19°	1205.8	1210.5
20°	1196.7	1208.5
21°	1189.3	1205.4
22°	1181.9	1201.3
23°	1173.8	1191.8
24°	1166.1	1186.8
25°	1156.5	1173.1
26°	1147.7	1162.4
27°	1135.7	1148.6
28°	1124.4	1137.0
29°	1116.0	1126.5
30°	1103.4	1121.6
31°	1092.5	1113.6
32°	1084.8	1103.1
33°	1075.1	1090.8
34°	1068.4	1078.7
35°	1059.7	1066.7
36°	1048.1	1053.9
37°	1036.2	1041.0
38°	1023.4	1034.4
39°	1013.0	1025.5
40°	1002.0	1018.0
41°	992.1	1008.3
42°	982.6	999.1
43°	972.7	985.6
44°	962.9	968.8



REPORT NUMBER: P670463
CATALOG NUMBER: ALP90LSFSUNVDGY-28W-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	952.8	956.4
46°	940.8	948.3
47°	931.9	935.6
48°	918.6	925.0
49°	903.3	920.4
50°	892.5	908.3
51°	880.4	896.8
52°	869.6	882.6
53°	858.3	867.6
54°	848.2	854.8
55°	836.5	844.0
56°	820.5	831.8
57°	808.7	824.1
58°	799.2	810.0
59°	791.0	797.7
60°	784.2	785.8
61°	773.9	777.5
62°	765.7	771.8
63°	757.9	765.5
64°	750.6	765.2
65°	746.5	765.0
66°	738.8	757.2
67°	730.1	732.8
68°	720.8	707.2
69°	705.6	693.6
70°	685.6	685.3
71°	662.1	667.0
72°	637.6	639.9
73°	606.0	612.3
74°	578.7	584.6
75°	546.1	551.9
76°	510.9	512.9
77°	473.8	470.2
78°	432.1	427.7
79°	387.6	385.3
80°	341.9	339.9
81°	296.2	295.2
82°	253.9	249.8
83°	215.0	207.8
84°	181.6	169.7
85°	152.8	134.6
86°	129.0	108.2
87°	108.2	87.8
88°	90.3	71.8
89°	74.8	59.6



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CATALOG NUMBER: ALP90LSFSUNVDGY-28W-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	61.4	49.9
91°	50.7	42.1
92°	42.0	35.1
93°	35.2	29.8
94°	30.2	25.6
95°	26.6	21.7
96°	23.8	18.4
97°	21.8	15.6
98°	20.2	13.1
99°	18.9	11.8
100°	18.0	11.2
101°	17.3	10.8
102°	16.7	10.5
103°	16.3	10.2
104°	16.0	9.9
105°	15.8	9.3
106°	15.7	8.6
107°	15.6	8.1
108°	15.6	7.5
109°	15.6	7.1
110°	15.5	7.2
111°	15.5	7.6
112°	15.4	8.0
113°	15.4	8.2
114°	15.3	8.3
115°	15.1	8.3
116°	14.9	8.3
117°	14.7	8.3
118°	14.4	8.3
119°	14.0	8.3
120°	13.7	8.2
121°	13.2	8.1
122°	12.8	8.0
123°	12.3	7.9
124°	11.8	7.7
125°	11.3	7.5
126°	10.8	7.3
127°	10.2	7.0
128°	9.7	6.6
129°	9.2	6.3
130°	8.8	6.0
131°	8.3	5.8
132°	7.9	5.7
133°	7.6	5.8
134°	7.2	5.8



REPORT NUMBER: P670463
CATALOG NUMBER: ALP90LSFSUNVDGY-28W-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	6.9	5.9
136°	6.6	5.8
137°	6.4	5.7
138°	6.2	5.6
139°	6.0	5.5
140°	5.8	5.5
141°	5.7	5.4
142°	5.6	5.4
143°	5.5	5.4
144°	5.5	5.4
145°	5.5	5.5
146°	5.6	5.5
147°	5.6	5.6
148°	5.6	5.6
149°	5.7	5.7
150°	5.7	5.7
151°	5.8	5.8
152°	5.8	5.8
153°	5.9	5.9
154°	5.9	5.9
155°	6.0	6.0
156°	6.0	6.0
157°	6.0	6.1
158°	6.1	6.1
159°	6.2	6.2
160°	6.2	6.2
161°	6.2	6.3
162°	6.3	6.3
163°	6.3	6.4
164°	6.4	6.4
165°	6.4	6.5
166°	6.5	6.5
167°	6.5	6.6
168°	6.6	6.6
169°	6.6	6.7
170°	6.6	6.7
171°	6.7	6.8
172°	6.7	6.8
173°	6.8	6.9
174°	6.8	6.9
175°	6.8	7.0
176°	6.9	7.0
177°	6.9	7.0
178°	6.9	7.0
179°	6.9	7.1

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

Scaled Data Report



REPORT NUMBER: P670463
CATALOG NUMBER: ALP90LSFSUNVDGY-28W-3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	7.1	7.1

(END OF REPORT)