

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: P670615

Luminaire Tested: MWP40FSUNVDBZ-30W-5000K

Issue Date: 4/5/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P670615  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( 2022-07-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/5/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: MWP40FSUNVDBZ-30W-5000K  
Description: MINI WALL PACK  
Light Source: 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4198 lumens  
Efficiency: N/A  
Efficacy: 134.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.51' x L: 0.44' x H: 0.31')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U3 - G3

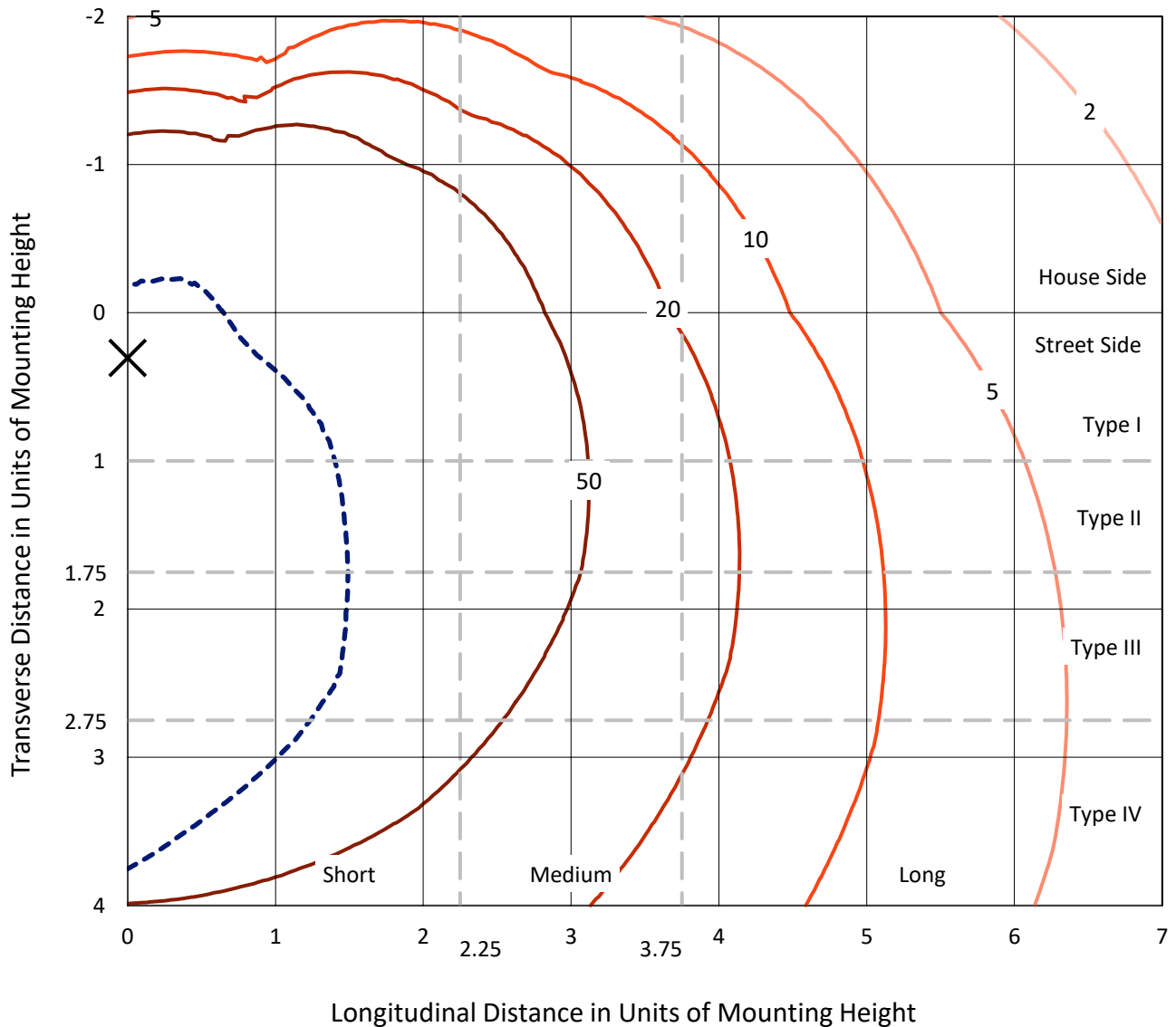
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

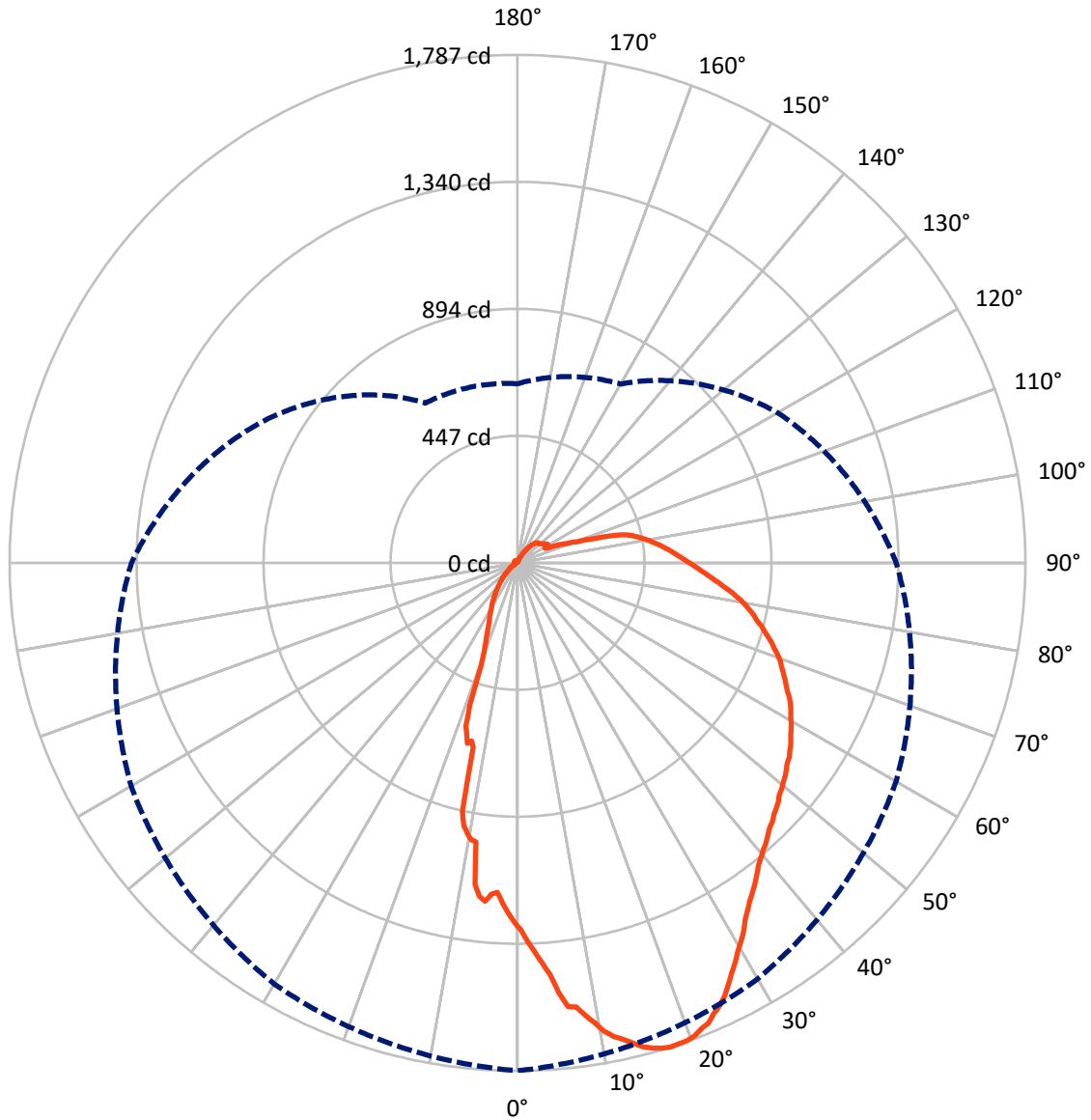
× Max cd  
 - - - 1/2 Max cd



Based on 0.5 foot mounting height. Maximum calculated value = 6427.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 17-Deg Vertical

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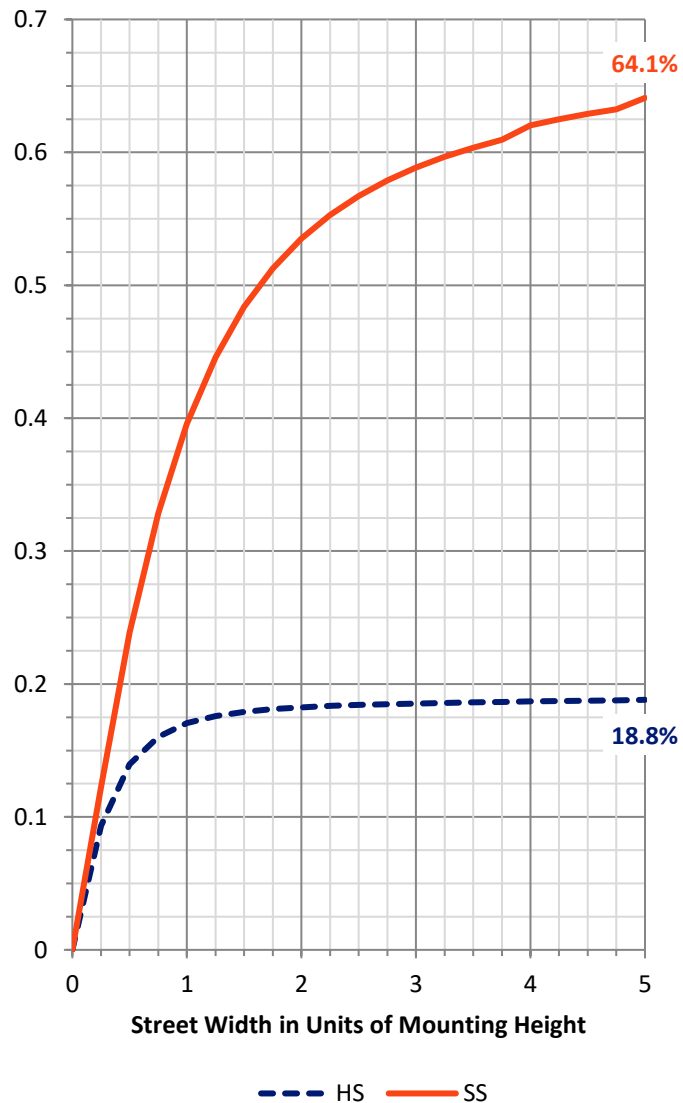
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	806.6	74.2	880.8
	% Fixture	19.2	1.8	21.0
<b>Street Side</b>	Lumens	2867.1	450.1	3317.2
	% Fixture	68.3	10.7	79.0
<b>Total</b>	Lumens	3673.7	524.3	4198.0
	% Fixture	87.5	12.5	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.1	3.1
10°-20°	363.9	8.7
20°-30°	482.0	11.5
30°-40°	501.1	11.9
40°-50°	514.0	12.2
50°-60°	513.3	12.2
60°-70°	471.6	11.2
70°-80°	395.0	9.4
80°-90°	304.7	7.3
90°-100°	227.2	5.4
100°-110°	141.5	3.4
110°-120°	65.8	1.6
120°-130°	41.8	1.0
130°-140°	26.4	0.6
140°-150°	13.8	0.3
150°-160°	5.1	0.1
160°-170°	2.0	0.0
170°-180°	0.7	0.0
0°-90°	3673.7	87.5
0°-180°	4198.0	100.0

**Coefficient of Utilization**

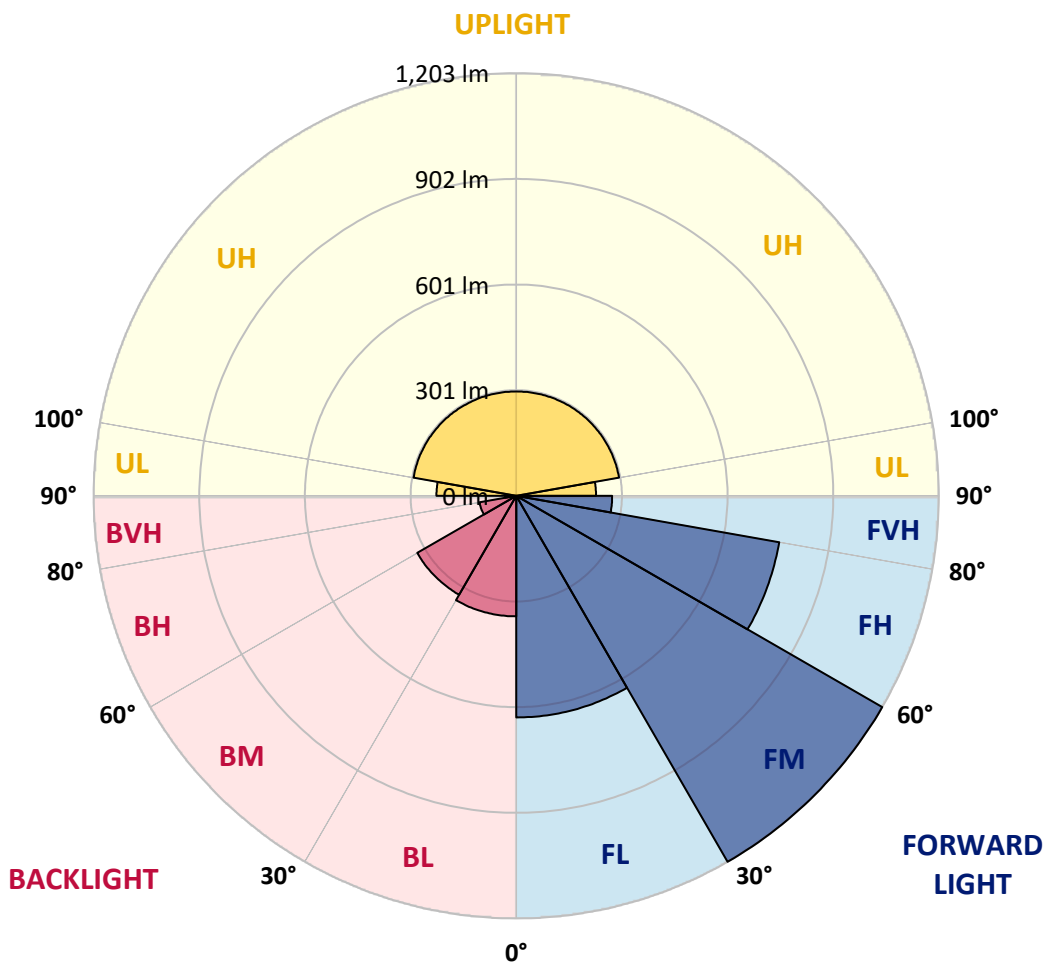


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.9	15.0			
FM (30°-60°)	1203.0	28.7			
FH (60°-80°)	760.3	18.1			G1/1800
FVH (80°-90°)	272.9	6.5			G3/500
BL (0°-30°)	343.2	8.2	B1/500		
BM (30°-60°)	325.4	7.8	B1/1000		
BH (60°-80°)	106.3	2.5	B0/110		G0/110
BVH (80°-90°)	31.8	0.8			G1/100
UL (90°-100°)	227.2	5.4		U3/500	
UH (100°-180°)	297.1	7.1		U3/500	

**BUG Rating: B1-U3-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	1290.8	1290.8	1290.8	1290.8	1290.8	1290.8	1290.8	1290.8	1290.8	1290.8	1290.8
1°	1332.4	1310.4	1279.4	1307.7	1287.9	1272.4	1264.0	1250.4	1242.1	1314.6	1326.4
2°	1368.1	1348.4	1305.2	1311.7	1269.3	1245.1	1233.2	1222.2	1222.2	1319.3	1352.9
3°	1410.2	1384.0	1335.3	1322.6	1258.4	1216.0	1198.6	1193.7	1204.7	1330.9	1380.2
4°	1452.1	1424.0	1366.2	1327.0	1246.3	1185.8	1161.2	1157.2	1182.9	1345.9	1409.1
5°	1519.7	1463.9	1394.4	1335.3	1232.6	1154.1	1169.9	1124.7	1166.9	1356.5	1439.9
6°	1572.1	1540.7	1424.8	1347.4	1217.0	1185.0	1196.3	1151.1	1150.3	1370.7	1472.2
7°	1575.8	1571.6	1449.9	1354.3	1202.8	1208.5	1180.9	1164.6	1134.8	1383.7	1495.7
8°	1608.9	1575.5	1477.8	1364.4	1187.0	1191.9	1141.9	1155.0	1118.2	1385.9	1520.1
9°	1640.8	1596.8	1504.1	1370.8	1183.6	1173.0	992.5	1111.5	1107.9	1396.6	1547.0
10°	1676.2	1623.5	1545.5	1370.4	1217.5	1056.6	988.1	1044.3	1139.5	1401.4	1572.1
11°	1700.9	1648.8	1559.8	1373.3	1220.7	1013.1	968.0	941.9	1168.4	1404.3	1604.7
12°	1717.5	1662.1	1563.4	1373.8	1203.3	1027.4	945.4	964.6	1147.8	1402.9	1611.0
13°	1738.1	1674.1	1557.1	1372.6	1181.2	988.2	895.3	925.7	1132.5	1403.9	1604.0
14°	1759.3	1683.0	1553.6	1367.6	1144.1	940.3	667.7	872.3	1080.6	1397.4	1591.0
15°	1771.2	1692.1	1553.5	1363.8	1125.2	891.8	646.7	794.8	1057.9	1386.4	1581.8
16°	1781.3	1694.7	1549.1	1347.5	1087.0	727.9	659.1	676.8	1022.3	1372.8	1581.4
17°	1787.2	1690.0	1537.9	1332.2	1056.4	726.3	630.1	648.9	1013.8	1358.6	1570.3
18°	1785.1	1693.9	1528.1	1316.2	1040.8	707.6	603.8	653.1	1004.1	1339.3	1553.5
19°	1784.3	1683.7	1508.8	1294.3	1029.3	668.1	528.2	619.1	993.2	1315.4	1534.8
20°	1777.5	1675.7	1487.8	1274.1	1006.4	630.5	385.5	573.4	981.7	1288.2	1514.8
21°	1762.5	1657.9	1465.4	1249.2	984.7	582.1	336.7	514.3	970.2	1267.6	1490.6
22°	1753.9	1642.7	1436.7	1216.5	964.1	515.2	310.1	453.3	950.0	1237.0	1462.4
23°	1730.0	1618.5	1414.7	1190.9	935.1	456.5	287.0	419.7	929.0	1200.0	1434.7
24°	1714.1	1601.4	1384.3	1158.2	904.6	424.6	266.5	393.1	905.2	1172.8	1408.7
25°	1691.1	1577.0	1354.1	1127.0	877.7	396.7	248.7	370.2	877.7	1139.7	1377.0
26°	1661.6	1553.5	1328.4	1094.6	845.6	369.4	233.7	346.8	842.9	1103.0	1348.9
27°	1629.8	1525.6	1298.7	1063.6	810.7	341.3	221.1	322.3	807.1	1066.4	1318.2
28°	1603.1	1499.3	1269.2	1030.9	774.2	316.1	209.8	297.9	772.2	1034.8	1288.4
29°	1573.0	1469.9	1243.3	999.4	742.7	290.9	199.2	274.0	737.8	1002.0	1263.1
30°	1548.5	1441.9	1216.0	968.7	710.3	269.4	188.7	255.7	703.1	968.8	1232.0
31°	1522.0	1414.1	1191.5	938.9	675.6	250.1	179.8	240.1	668.8	937.8	1208.2
32°	1490.1	1390.4	1166.5	908.9	643.9	233.6	170.6	226.6	634.8	908.7	1184.1
33°	1467.3	1359.7	1144.2	878.5	612.5	219.5	162.1	214.9	600.1	880.0	1160.6
34°	1443.3	1336.2	1123.7	854.3	585.0	206.9	152.9	203.7	567.2	852.6	1136.2
35°	1423.7	1316.0	1100.9	824.6	556.8	195.7	144.2	193.5	535.6	827.3	1112.3
36°	1404.0	1297.3	1081.7	802.6	529.8	185.4	135.8	183.2	508.8	804.0	1098.9
37°	1383.5	1275.8	1068.6	782.8	504.5	175.9	128.0	173.4	482.4	782.0	1081.6
38°	1361.5	1258.6	1052.1	763.6	480.9	166.6	120.1	163.9	458.9	765.5	1063.8
39°	1346.1	1243.4	1039.5	747.2	460.2	157.7	112.8	154.2	439.2	751.9	1053.8
40°	1330.7	1231.0	1029.4	734.4	440.2	148.9	105.8	144.7	422.0	737.9	1043.0
41°	1318.0	1216.0	1017.6	723.7	423.0	140.4	98.5	136.0	405.9	725.7	1029.6
42°	1303.4	1205.9	1009.4	710.3	407.9	131.8	92.1	127.2	391.8	714.4	1021.2
43°	1287.5	1193.2	1002.5	701.5	393.9	124.2	85.8	119.2	378.2	705.1	1012.8
44°	1279.0	1182.7	994.5	690.2	381.6	116.1	80.8	111.3	365.1	696.7	1009.1



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	1264.8	1172.7	991.4	681.7	368.0	109.5	75.1	104.7	351.8	684.0	997.9
46°	1255.0	1164.4	981.6	670.8	355.2	102.1	69.9	98.0	339.9	671.5	991.1
47°	1245.0	1155.6	978.2	658.4	342.3	95.1	64.3	91.7	327.1	663.0	979.9
48°	1229.6	1146.6	970.2	649.0	329.1	88.7	58.6	85.6	315.4	650.4	972.2
49°	1222.8	1137.1	964.3	639.6	318.3	80.3	52.3	79.1	303.2	639.7	963.9
50°	1212.5	1130.6	958.2	628.9	304.6	74.8	47.3	73.5	292.7	628.2	954.1
51°	1203.9	1121.8	944.5	615.7	292.9	67.3	42.2	67.6	281.5	614.6	948.8
52°	1192.4	1113.3	937.6	605.0	281.1	61.5	38.6	62.4	269.2	601.8	939.7
53°	1181.3	1104.4	929.0	592.9	268.8	55.7	35.2	57.6	257.6	589.5	928.0
54°	1175.3	1095.5	917.0	579.9	257.7	51.0	32.9	53.4	246.8	574.3	919.4
55°	1163.2	1086.0	904.9	566.7	245.6	46.1	30.7	49.1	235.8	562.1	905.7
56°	1152.8	1077.1	894.6	551.1	234.6	42.1	28.9	45.6	224.7	548.0	896.9
57°	1139.8	1065.9	882.9	537.8	223.0	38.6	26.5	42.2	213.8	532.2	881.1
58°	1129.2	1053.7	873.3	524.9	212.2	35.2	24.1	39.0	203.4	517.1	866.8
59°	1117.9	1048.1	860.6	511.6	201.1	32.6	21.7	36.3	193.1	502.2	852.1
60°	1105.0	1034.7	848.8	497.7	190.2	30.1	19.6	33.6	183.9	487.1	838.9
61°	1093.8	1023.1	835.6	483.0	180.0	28.2	17.7	31.1	174.2	469.8	826.3
62°	1083.4	1011.1	823.0	469.5	170.5	26.8	15.8	29.1	165.9	455.1	814.4
63°	1070.0	998.8	808.6	454.2	161.8	25.2	14.2	27.2	157.3	439.9	802.8
64°	1052.3	987.7	791.9	439.1	152.7	23.8	12.7	25.6	148.8	423.3	787.6
65°	1039.2	973.5	778.4	423.0	143.9	22.6	11.5	24.0	140.8	406.9	774.1
66°	1026.2	960.2	763.1	403.8	136.3	21.5	10.4	22.5	133.6	391.5	761.0
67°	1012.1	946.0	748.4	390.8	129.5	20.3	9.6	21.1	127.0	375.3	744.3
68°	998.8	928.6	731.4	374.0	123.0	19.0	9.1	19.9	120.5	359.9	728.0
69°	986.8	914.1	713.8	358.4	117.2	17.9	8.8	18.8	114.8	343.2	713.0
70°	971.6	896.8	695.1	342.0	112.0	17.0	8.5	18.0	109.9	329.3	697.3
71°	953.7	879.0	676.3	326.9	107.2	16.5	8.2	17.6	105.7	314.4	677.5
72°	938.5	865.6	657.6	311.8	102.8	16.1	7.9	17.3	101.6	299.6	657.8
73°	920.5	847.7	639.7	296.7	99.1	15.8	7.6	16.9	97.8	285.0	638.1
74°	902.5	829.7	622.9	282.8	95.1	15.6	7.3	16.7	94.0	272.6	619.2
75°	886.2	814.6	604.7	269.8	91.7	15.2	7.1	16.4	90.6	260.3	601.2
76°	865.9	797.3	586.8	258.0	88.6	15.0	7.0	16.2	87.6	248.0	582.6
77°	851.7	782.1	571.0	246.3	85.7	14.8	6.9	16.0	84.7	237.5	566.2
78°	834.1	763.1	555.1	236.2	82.9	14.6	6.8	15.8	82.0	227.2	551.9
79°	815.3	748.2	537.9	225.1	80.3	14.4	6.7	15.6	79.9	217.9	533.8
80°	796.2	728.7	522.4	215.9	78.2	14.3	6.7	15.5	77.6	207.8	517.4
81°	774.1	709.3	505.1	206.4	76.0	14.2	6.6	15.4	75.8	199.8	499.4
82°	753.0	687.7	488.4	197.6	74.1	14.2	6.6	15.4	73.9	191.3	481.8
83°	729.6	667.7	471.5	189.9	72.4	14.2	6.6	15.4	72.4	183.5	464.5
84°	708.3	649.5	453.9	182.2	70.5	14.3	6.7	15.5	70.8	176.9	448.1
85°	686.4	628.4	437.5	175.1	68.9	14.3	6.8	15.6	69.3	170.3	434.4
86°	666.9	608.9	423.2	168.2	67.1	14.2	7.0	15.6	67.8	163.8	418.5
87°	647.9	591.4	409.6	161.5	65.6	14.2	7.1	15.7	66.4	157.8	405.7
88°	629.9	574.5	395.3	155.4	64.2	14.3	7.2	15.8	65.1	151.7	391.2
89°	614.1	560.0	384.2	149.3	62.8	14.4	7.4	15.9	63.7	145.7	378.8





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CATALOG NUMBER: MWP40FSUNVDBZ-30W-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	596.5	545.1	371.1	143.6	61.1	14.6	7.5	16.0	62.3	140.0	368.0
91°	581.6	529.0	359.9	138.3	59.7	14.7	7.7	16.2	61.3	135.4	357.3
92°	566.9	515.3	349.7	133.3	58.6	14.9	7.9	16.3	60.3	130.7	346.6
93°	553.5	502.1	338.2	128.6	57.3	15.0	8.2	16.5	58.6	126.3	334.8
94°	540.2	487.6	328.4	124.0	55.7	14.5	8.1	16.1	57.1	121.9	325.6
95°	525.3	475.2	317.4	119.6	54.5	14.1	7.9	15.8	56.1	117.5	315.6
96°	512.1	461.9	307.1	115.5	53.4	14.0	8.0	15.9	54.8	112.9	304.7
97°	498.6	449.3	296.4	111.3	52.3	13.8	8.1	15.9	53.8	108.8	293.8
98°	484.4	436.6	286.2	107.0	51.2	13.8	8.2	15.9	52.8	104.7	284.0
99°	470.3	425.1	276.2	102.9	50.1	13.8	8.4	15.9	51.9	100.7	274.0
100°	456.7	410.5	265.8	98.9	49.0	13.7	8.5	15.8	50.8	96.6	264.0
101°	441.8	397.9	255.0	94.5	47.9	13.7	8.6	15.7	49.7	92.3	253.8
102°	427.3	380.5	243.7	90.4	46.9	13.5	8.7	15.5	48.5	88.4	243.9
103°	412.8	350.3	229.4	86.2	45.7	13.6	8.8	15.2	47.3	84.4	233.8
104°	393.2	314.9	212.8	81.6	44.4	13.7	9.0	15.3	46.1	80.3	223.3
105°	364.6	275.0	191.1	77.1	43.0	13.8	9.3	15.3	44.8	76.3	213.1
106°	327.0	245.0	169.7	72.9	41.3	13.8	9.6	15.3	43.4	72.0	201.9
107°	285.9	225.0	151.0	67.6	39.4	13.7	10.1	15.3	41.8	67.2	189.7
108°	255.3	213.9	132.9	63.3	37.7	13.5	10.7	15.2	40.4	63.0	176.7
109°	220.9	203.8	120.4	58.2	36.1	13.4	11.2	15.1	38.8	59.2	160.3
110°	206.6	189.1	111.4	53.7	34.4	13.2	11.5	14.9	37.5	55.8	146.6
111°	186.5	166.3	106.4	49.6	32.6	13.1	11.8	14.9	36.0	52.9	134.8
112°	172.3	147.8	103.0	46.2	31.1	13.1	12.0	14.8	34.6	50.3	125.8
113°	159.1	132.5	98.6	42.7	29.6	13.0	12.0	14.7	33.3	47.8	118.3
114°	143.4	127.8	95.4	39.9	28.2	12.8	12.1	14.6	32.1	45.3	110.5
115°	127.8	129.4	92.5	37.8	26.8	12.5	12.0	14.4	30.9	42.9	101.8
116°	116.8	135.7	88.4	35.6	25.4	12.3	11.8	14.2	29.7	40.6	94.2
117°	109.3	140.9	82.9	33.5	24.3	12.2	11.7	14.1	28.7	38.5	86.0
118°	109.9	139.9	76.7	31.9	23.3	12.1	11.6	13.9	27.8	36.9	78.5
119°	122.3	137.0	71.0	30.3	22.4	12.3	11.3	13.8	26.9	35.5	72.1
120°	124.3	133.3	65.3	28.9	21.7	12.3	11.1	13.6	26.1	34.2	66.3
121°	124.7	128.8	60.5	27.9	21.0	12.2	10.4	13.5	25.2	33.2	61.3
122°	123.2	124.3	56.0	27.1	20.0	12.0	10.1	13.3	24.4	32.5	56.8
123°	120.0	119.6	52.1	26.2	19.1	11.9	9.9	13.0	23.5	31.4	52.9
124°	117.1	115.1	48.2	25.7	18.1	11.6	10.3	12.8	22.9	30.6	49.1
125°	115.3	111.5	44.8	24.9	17.5	11.4	10.2	12.6	22.3	29.7	45.6
126°	113.1	107.8	42.7	24.1	16.9	11.2	9.9	12.4	21.8	29.0	42.1
127°	110.2	104.7	40.5	23.4	16.4	11.0	9.9	12.3	21.3	28.0	38.9
128°	107.5	102.0	37.8	22.8	15.8	10.7	9.7	12.1	20.7	27.4	35.9
129°	104.6	99.4	35.3	22.3	15.1	10.6	9.8	11.9	20.2	26.8	33.0
130°	102.5	97.2	33.0	22.0	14.5	10.5	9.3	11.6	19.6	26.2	30.5
131°	101.0	94.7	30.9	21.4	13.5	10.4	9.2	11.2	19.1	25.7	28.0
132°	100.3	92.2	29.3	21.0	13.2	10.5	9.0	11.2	18.6	25.5	25.7
133°	100.2	89.4	27.7	20.8	12.9	10.7	9.0	11.4	18.2	25.0	23.6
134°	99.6	86.2	26.1	20.4	12.7	10.8	9.0	11.4	17.8	24.6	21.9



REPORT NUMBER: P670615  
 CATALOG NUMBER: MWP40FSUNVDBZ-30W-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	98.7	82.7	24.8	19.6	13.1	10.6	9.2	11.3	17.4	24.2	20.7
136°	96.9	79.0	23.6	19.4	13.4	10.6	9.4	11.0	17.0	23.8	19.6
137°	94.7	74.4	22.3	19.3	13.5	10.4	9.4	11.2	16.2	23.5	18.5
138°	91.8	69.8	20.7	19.3	13.6	10.3	9.3	11.2	15.4	23.1	17.4
139°	88.4	65.2	19.3	19.9	13.4	10.2	8.8	11.1	14.6	22.9	16.4
140°	84.4	60.7	18.1	20.1	12.8	10.1	8.5	11.0	14.0	22.4	15.7
141°	79.6	56.6	16.8	20.4	12.4	10.0	8.4	10.9	13.5	22.0	15.1
142°	74.4	52.6	15.7	20.5	12.2	10.0	8.4	10.8	13.0	21.7	14.5
143°	69.3	48.6	14.8	20.5	11.8	10.1	8.5	11.0	12.5	21.4	14.2
144°	64.5	44.5	14.2	20.2	11.9	9.9	8.5	10.8	12.2	21.2	14.2
145°	59.7	40.1	13.9	20.3	11.7	9.8	8.6	10.6	11.7	21.2	14.5
146°	55.1	36.3	14.1	20.5	11.5	9.6	8.7	10.2	11.1	21.4	14.9
147°	50.5	32.8	14.4	20.7	11.3	9.3	9.0	9.8	10.4	21.8	15.3
148°	45.8	29.6	14.4	21.3	10.9	9.0	9.0	9.0	9.7	22.0	15.3
149°	41.3	26.6	13.6	21.3	10.4	8.9	9.0	8.7	9.0	21.9	14.7
150°	37.1	22.7	12.3	21.0	9.9	8.8	9.0	8.5	8.6	21.3	13.6
151°	32.7	19.6	11.1	20.4	9.3	8.6	8.9	8.5	8.3	20.4	12.5
152°	29.4	16.6	10.3	19.4	9.0	8.5	8.9	8.8	8.5	19.3	11.5
153°	26.2	14.0	10.0	18.2	8.7	8.6	8.8	8.9	8.1	17.9	11.0
154°	23.2	11.2	10.1	16.6	8.7	8.5	8.9	8.7	8.3	16.2	10.8
155°	20.7	7.4	9.5	14.9	8.5	8.3	8.9	8.3	8.3	14.4	9.8
156°	18.2	5.5	8.2	13.1	8.3	8.4	8.8	8.2	8.2	12.5	8.3
157°	15.0	4.6	6.6	11.6	8.0	8.3	8.6	8.1	8.0	10.9	6.9
158°	9.5	4.6	5.8	10.2	7.8	8.4	8.5	8.0	8.0	9.5	6.2
159°	6.0	4.6	5.5	8.9	7.7	8.4	8.6	7.9	7.8	8.3	6.0
160°	4.5	4.7	5.2	7.6	7.7	8.4	8.5	7.9	7.6	7.1	5.8
161°	4.6	4.8	5.1	7.2	7.7	8.3	8.2	7.8	7.6	6.9	5.7
162°	4.8	4.9	5.1	7.3	7.7	8.2	8.1	7.8	7.3	6.9	5.8
163°	5.0	5.3	5.1	7.0	7.8	8.2	8.0	7.8	7.1	6.8	5.9
164°	5.2	5.6	5.2	7.0	7.9	8.1	7.9	7.7	7.1	7.1	6.0
165°	5.5	6.1	5.3	7.5	7.9	8.0	7.9	7.7	7.0	7.7	6.2
166°	5.8	7.1	5.4	8.3	8.0	8.0	7.8	7.7	7.1	8.4	6.3
167°	6.0	7.8	5.8	8.8	8.1	8.0	7.8	7.7	7.1	8.9	6.5
168°	5.7	8.1	6.2	8.8	8.1	8.0	7.8	7.7	7.3	8.7	6.9
169°	5.5	8.1	6.6	8.6	8.2	8.0	7.7	7.7	7.4	8.5	7.2
170°	5.6	7.7	6.7	8.7	8.1	8.0	7.7	7.7	7.3	8.5	7.2
171°	5.8	7.1	7.1	8.7	7.9	7.9	7.6	7.7	7.6	8.5	7.4
172°	5.9	6.3	7.1	8.9	7.7	7.8	7.5	7.7	7.8	8.8	7.8
173°	5.9	5.6	6.7	8.8	7.6	7.8	7.4	7.3	7.7	8.6	7.7
174°	5.9	5.7	6.3	8.4	7.6	7.6	7.6	7.4	7.1	8.0	7.4
175°	6.1	5.8	5.9	7.7	7.7	7.5	7.3	7.3	6.7	7.5	7.1
176°	6.2	5.9	5.9	7.6	7.7	7.5	7.2	7.1	6.8	7.6	7.2
177°	6.4	6.0	6.0	7.6	7.7	7.4	7.1	6.9	6.9	7.6	7.3
178°	6.5	6.1	6.1	7.6	7.6	7.3	7.0	6.6	6.6	7.6	7.4
179°	6.7	6.2	6.1	7.6	7.5	7.2	6.9	6.6	6.2	7.6	7.4



REPORT NUMBER: P670615  
CATALOG NUMBER: MWP40FSUNVDBZ-30W-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8



REPORT NUMBER: P670615  
CATALOG NUMBER: MWP40FSUNVDBZ-30W-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	1290.8	1290.8
1°	1336.2	1332.4
2°	1373.5	1368.1
3°	1411.1	1410.2
4°	1451.4	1452.1
5°	1491.9	1519.7
6°	1554.3	1572.1
7°	1593.7	1575.8
8°	1598.1	1608.9
9°	1621.2	1640.8
10°	1642.0	1676.2
11°	1664.2	1700.9
12°	1685.5	1717.5
13°	1694.8	1738.1
14°	1707.4	1759.3
15°	1712.9	1771.2
16°	1713.3	1781.3
17°	1711.3	1787.2
18°	1705.8	1785.1
19°	1697.9	1784.3
20°	1684.4	1777.5
21°	1665.3	1762.5
22°	1646.7	1753.9
23°	1629.2	1730.0
24°	1603.7	1714.1
25°	1578.7	1691.1
26°	1553.7	1661.6
27°	1525.0	1629.8
28°	1494.8	1603.1
29°	1462.7	1573.0
30°	1434.5	1548.5
31°	1406.3	1522.0
32°	1379.0	1490.1
33°	1353.4	1467.3
34°	1332.0	1443.3
35°	1308.8	1423.7
36°	1288.4	1404.0
37°	1269.5	1383.5
38°	1252.9	1361.5
39°	1237.1	1346.1
40°	1226.7	1330.7
41°	1216.1	1318.0
42°	1199.2	1303.4
43°	1191.9	1287.5
44°	1178.2	1279.0



REPORT NUMBER: P670615  
CATALOG NUMBER: MWP40FSUNVDBZ-30W-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	1170.4	1264.8
46°	1158.8	1255.0
47°	1149.1	1245.0
48°	1141.3	1229.6
49°	1133.8	1222.8
50°	1130.3	1212.5
51°	1121.9	1203.9
52°	1117.8	1192.4
53°	1107.5	1181.3
54°	1097.1	1175.3
55°	1087.3	1163.2
56°	1073.7	1152.8
57°	1063.2	1139.8
58°	1052.8	1129.2
59°	1042.6	1117.9
60°	1028.9	1105.0
61°	1022.3	1093.8
62°	1009.2	1083.4
63°	998.0	1070.0
64°	988.0	1052.3
65°	974.6	1039.2
66°	960.8	1026.2
67°	946.9	1012.1
68°	933.7	998.8
69°	918.5	986.8
70°	903.4	971.6
71°	885.9	953.7
72°	867.5	938.5
73°	847.4	920.5
74°	828.5	902.5
75°	812.1	886.2
76°	798.0	865.9
77°	783.7	851.7
78°	767.8	834.1
79°	749.7	815.3
80°	729.1	796.2
81°	709.7	774.1
82°	688.1	753.0
83°	664.4	729.6
84°	644.4	708.3
85°	624.7	686.4
86°	605.8	666.9
87°	588.2	647.9
88°	570.3	629.9
89°	556.4	614.1



REPORT NUMBER: P670615  
CATALOG NUMBER: MWP40FSUNVDBZ-30W-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
90°	541.8	596.5
91°	526.7	581.6
92°	513.5	566.9
93°	500.8	553.5
94°	487.5	540.2
95°	476.2	525.3
96°	463.8	512.1
97°	450.3	498.6
98°	438.3	484.4
99°	425.2	470.3
100°	410.7	456.7
101°	397.6	441.8
102°	377.0	427.3
103°	346.2	412.8
104°	308.7	393.2
105°	266.4	364.6
106°	239.5	327.0
107°	218.8	285.9
108°	209.4	255.3
109°	198.9	220.9
110°	186.3	206.6
111°	165.4	186.5
112°	143.7	172.3
113°	127.5	159.1
114°	124.7	143.4
115°	129.1	127.8
116°	132.0	116.8
117°	135.1	109.3
118°	134.8	109.9
119°	130.4	122.3
120°	125.8	124.3
121°	120.8	124.7
122°	116.5	123.2
123°	112.3	120.0
124°	108.3	117.1
125°	104.6	115.3
126°	101.3	113.1
127°	98.9	110.2
128°	97.2	107.5
129°	95.7	104.6
130°	93.9	102.5
131°	91.5	101.0
132°	88.6	100.3
133°	85.2	100.2
134°	81.9	99.6



REPORT NUMBER: P670615  
CATALOG NUMBER: MWP40FSUNVDBZ-30W-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
135°	78.3	98.7
136°	73.9	96.9
137°	68.9	94.7
138°	64.2	91.8
139°	59.7	88.4
140°	55.5	84.4
141°	51.4	79.6
142°	47.6	74.4
143°	43.8	69.3
144°	40.0	64.5
145°	36.2	59.7
146°	32.6	55.1
147°	29.5	50.5
148°	26.5	45.8
149°	23.3	41.3
150°	19.9	37.1
151°	17.1	32.7
152°	14.4	29.4
153°	12.2	26.2
154°	9.1	23.2
155°	6.4	20.7
156°	5.0	18.2
157°	4.5	15.0
158°	4.6	9.5
159°	4.8	6.0
160°	4.9	4.5
161°	5.0	4.6
162°	5.2	4.8
163°	5.7	5.0
164°	6.2	5.2
165°	6.8	5.5
166°	7.6	5.8
167°	8.3	6.0
168°	8.8	5.7
169°	8.7	5.5
170°	8.1	5.6
171°	7.5	5.8
172°	6.8	5.9
173°	6.4	5.9
174°	6.5	5.9
175°	6.6	6.1
176°	6.8	6.2
177°	6.9	6.4
178°	7.0	6.5
179°	7.0	6.7



REPORT NUMBER: P670615  
CATALOG NUMBER: MWP40FSUNVDBZ-30W-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	360°
180°	6.8	6.8

(END OF REPORT)