



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FPB 24 MD UV FR 835.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] Nick

[TESTLAB] Ningbo TengLi Testing Co., Ltd

[TESTDATE] 14 October 2019

[ISSUEDATE] 2019-10-14 17:12:12

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000\_V2 SYSTEM

[MANUFAC] LumenFocus, LLC.

[LUMINAIRE] FPB 24 MD UV FR 835

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
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[OTHER]	0- 10	157.34	157.34	3.20	3.20
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[OTHER]	10- 20	452.65	609.99	12.40	12.40
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[OTHER]	20- 30	691.15	1301.14	26.45	26.45
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[OTHER]	30- 40	840.78	2141.93	43.54	43.54
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[OTHER]	40- 50	880.20	3022.12	61.43	61.43
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[OTHER]	50- 60	802.34	3824.46	77.74	77.74
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[OTHER]	60- 70	619.13	4443.59	90.33	90.33
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[OTHER]	70- 80	366.76	4810.35	97.78	97.78
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[OTHER]	80- 90	105.14	4915.49	99.92	99.92
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[OTHER]	90-100	0.65	4916.14	99.93	99.93
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[OTHER]	100-110	0.76	4916.89	99.95	99.95
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[OTHER]	110-120	0.74	4917.63	99.96	99.96
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[OTHER]	120-130	0.50	4918.13	99.97	99.97
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[OTHER]	130-140	0.40	4918.53	99.98	99.98
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[OTHER]	140-150	0.32	4918.85	99.99	99.99
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[OTHER]	150-160	0.26	4919.11	99.99	99.99
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[OTHER]	160-170	0.19	4919.30	100.00	100.00
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[OTHER]	170-180	0.07	4919.37	100.00	100.00
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[OTHER]

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**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4919
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	39.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	3.92 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2279	2308	2315
55	2189	2230	2252
65	2052	2104	2141
75	1815	1880	1951
85	1334	1391	1526

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	1661.00	1661.00	1661.00	1661.00	1661.00	1661.00	1661.00	1661.00	1661.00	1661.00
1	1659.60	1661.00	1659.80	1660.61	1661.61	1661.51	1661.59	1662.15	1661.28	1660.71
2	1659.85	1659.86	1659.20	1659.82	1661.03	1660.96	1661.29	1661.83	1660.68	1660.70
3	1657.84	1658.12	1657.99	1658.50	1660.05	1660.69	1660.40	1660.66	1659.52	1659.54
4	1655.54	1655.78	1655.06	1655.40	1658.41	1659.24	1659.74	1658.95	1658.09	1658.61
5	1653.04	1653.43	1652.02	1653.29	1656.80	1657.23	1657.41	1657.76	1656.36	1656.55
6	1649.03	1649.91	1649.86	1649.71	1654.12	1654.92	1655.30	1655.77	1654.04	1654.54
7	1646.06	1647.29	1646.49	1645.84	1650.49	1651.24	1652.85	1652.24	1651.50	1650.72
8	1642.05	1642.68	1641.98	1641.29	1647.29	1648.10	1649.60	1648.80	1647.96	1648.39
9	1638.40	1637.64	1636.51	1636.65	1642.85	1644.29	1645.74	1644.64	1643.69	1644.61
10	1632.45	1632.13	1632.12	1630.98	1638.29	1639.74	1642.35	1640.62	1639.99	1640.13
11	1626.71	1625.98	1626.97	1625.39	1633.07	1634.71	1637.63	1635.88	1635.00	1634.93
12	1620.87	1620.76	1620.84	1618.66	1626.82	1629.16	1632.80	1630.47	1629.67	1629.30
13	1614.58	1614.12	1614.54	1611.30	1620.46	1622.88	1628.56	1624.34	1623.88	1623.13
14	1606.67	1607.26	1607.69	1604.40	1613.39	1616.44	1621.53	1618.00	1617.11	1617.32
15	1598.57	1598.12	1599.77	1596.36	1605.91	1609.11	1614.50	1611.34	1610.48	1611.17
16	1591.14	1590.61	1591.38	1587.63	1597.46	1601.23	1607.45	1603.69	1602.56	1603.48
17	1581.90	1581.96	1583.98	1578.29	1588.81	1593.21	1599.88	1595.93	1595.71	1597.03
18	1572.94	1572.36	1574.93	1568.55	1579.64	1584.43	1591.45	1588.12	1587.44	1588.00
19	1563.31	1561.97	1565.13	1558.56	1569.75	1575.11	1582.84	1578.45	1578.65	1578.96
20	1553.01	1553.14	1554.82	1548.05	1559.90	1565.76	1573.20	1568.78	1568.29	1569.92
21	1541.87	1541.47	1543.65	1536.53	1548.87	1555.14	1563.05	1559.07	1557.92	1559.63
22	1530.79	1529.99	1532.33	1524.87	1537.46	1544.14	1552.61	1548.02	1547.56	1549.08
23	1518.81	1518.61	1521.82	1512.91	1525.93	1532.55	1541.26	1537.29	1537.19	1538.08
24	1505.76	1505.56	1508.89	1500.19	1513.68	1520.90	1529.79	1525.42	1525.32	1526.26
25	1492.75	1492.97	1496.48	1487.33	1500.55	1508.91	1517.72	1513.03	1513.04	1514.06
26	1479.18	1478.69	1483.52	1473.06	1487.37	1495.83	1504.90	1500.41	1500.12	1501.65
27	1464.52	1465.32	1470.11	1459.31	1474.11	1482.72	1491.58	1487.19	1486.91	1488.41
28	1450.43	1450.66	1455.57	1444.60	1459.56	1468.61	1478.18	1473.35	1473.10	1474.32
29	1434.69	1436.01	1441.45	1429.44	1444.12	1454.22	1463.48	1458.74	1458.42	1460.34
30	1418.93	1421.13	1425.73	1413.63	1429.23	1439.17	1448.66	1444.03	1442.99	1445.52
31	1402.56	1404.45	1409.95	1398.13	1412.91	1424.34	1433.00	1428.91	1428.07	1430.41
32	1386.20	1388.25	1394.30	1381.60	1396.66	1408.16	1416.96	1412.78	1411.32	1414.62
33	1368.19	1371.49	1377.43	1364.82	1379.47	1391.89	1400.35	1396.51	1394.36	1398.09
34	1351.79	1353.93	1359.27	1347.19	1362.55	1374.85	1383.51	1379.41	1377.64	1381.44
35	1332.90	1336.66	1342.36	1329.33	1344.74	1357.68	1365.64	1362.15	1359.59	1363.92
36	1313.60	1318.30	1324.12	1311.51	1326.37	1340.24	1347.99	1344.55	1341.67	1345.86
37	1294.38	1299.22	1305.12	1292.16	1307.68	1321.66	1329.84	1326.00	1322.77	1327.82
38	1274.37	1279.77	1285.87	1273.34	1288.47	1302.70	1310.06	1306.87	1303.85	1308.90
39	1254.35	1260.82	1266.00	1253.95	1268.77	1283.83	1291.09	1287.69	1283.77	1290.35
40	1233.56	1239.99	1245.93	1233.85	1248.71	1264.50	1271.10	1268.31	1264.43	1270.27
41	1212.13	1219.95	1225.79	1213.42	1228.40	1243.95	1250.83	1247.86	1243.51	1250.29
42	1191.38	1199.08	1204.06	1192.91	1207.61	1223.19	1229.97	1226.81	1222.75	1229.57
43	1169.10	1178.18	1183.25	1171.31	1186.33	1202.00	1208.46	1205.57	1201.44	1208.54
44	1147.27	1156.07	1160.52	1149.99	1164.36	1180.80	1186.88	1184.65	1179.18	1186.83
45	1124.43	1133.54	1138.71	1128.05	1142.23	1158.90	1164.44	1162.04	1157.09	1165.08
46	1101.42	1110.47	1114.66	1105.44	1119.72	1136.69	1141.95	1139.77	1133.90	1142.19
47	1078.24	1087.55	1092.73	1082.73	1096.83	1113.92	1119.24	1117.04	1111.09	1119.07
48	1053.59	1064.11	1068.20	1059.80	1073.60	1090.40	1095.91	1094.15	1087.32	1095.88
49	1029.97	1039.93	1044.26	1036.15	1050.21	1067.40	1072.21	1070.21	1063.95	1072.20
50	1004.46	1016.09	1019.82	1011.98	1026.56	1043.43	1048.40	1046.55	1039.70	1048.19
51	979.54	991.12	995.08	988.00	1001.41	1018.84	1023.94	1021.57	1015.13	1023.31
52	954.31	965.97	970.28	963.21	977.13	993.99	998.84	996.93	989.97	998.45
53	928.40	940.35	944.77	938.73	952.13	969.35	973.35	972.04	964.90	973.17

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**CANDELA TABULATION - (Cont.)**

54	902.19	914.55	918.94	913.00	926.91	943.32	948.14	946.36	939.05	947.59
55	876.18	888.72	892.27	887.40	901.20	917.42	922.23	920.65	912.95	921.50
56	849.18	861.75	866.66	861.90	875.17	891.03	896.21	894.06	886.98	894.86
57	823.33	835.75	841.09	835.79	848.85	864.82	869.30	867.42	860.43	868.28
58	797.48	809.78	815.03	809.26	822.90	837.64	843.08	840.70	833.49	841.54
59	771.64	783.44	788.01	782.33	796.04	810.98	816.05	813.81	806.53	814.08
60	744.33	756.00	760.86	755.34	769.03	783.70	788.36	786.65	779.63	786.37
61	716.63	728.43	733.27	728.37	741.62	756.30	760.84	758.76	751.50	758.90
62	688.73	700.22	705.12	701.09	714.82	728.92	733.33	731.25	724.63	731.01
63	661.04	672.02	676.95	673.65	687.05	700.82	705.23	703.61	696.44	702.99
64	632.97	644.00	648.81	645.75	659.00	672.50	677.08	675.23	668.84	674.62
65	604.95	615.67	620.35	618.33	631.21	644.64	648.87	647.27	640.80	646.20
66	576.23	587.50	592.14	589.73	602.99	616.17	620.33	618.87	612.76	617.67
67	548.16	559.12	563.75	562.31	575.23	587.89	591.85	590.61	584.32	589.11
68	520.35	530.57	535.65	534.14	547.08	559.42	563.35	562.23	556.20	560.78
69	491.91	502.24	506.88	506.42	519.25	531.24	535.29	533.63	528.24	532.53
70	464.27	474.14	478.42	478.24	491.04	502.77	506.45	505.37	499.69	503.35
71	436.45	446.07	450.75	450.72	462.86	474.47	478.15	476.88	471.66	475.25
72	409.05	417.91	422.62	422.37	434.96	446.18	449.55	449.11	443.85	446.79
73	381.57	389.81	394.44	395.10	407.41	417.89	421.70	421.11	416.11	418.60
74	354.80	362.76	367.18	368.03	379.89	390.22	393.64	393.17	388.50	390.58
75	327.75	335.37	339.56	340.90	352.38	362.51	366.01	365.69	361.10	362.96
76	301.57	308.63	312.69	314.47	324.96	334.90	338.58	338.05	333.69	335.43
77	274.82	282.06	285.84	288.00	297.76	307.60	311.16	311.15	307.01	308.14
78	249.30	255.60	259.81	260.98	270.59	280.71	284.77	284.52	280.48	281.71
79	223.28	229.73	234.08	234.17	243.00	253.26	258.20	258.19	254.61	255.49
80	198.46	204.20	208.77	207.93	216.53	226.18	232.23	232.27	228.65	229.54
81	174.18	179.44	183.17	182.28	190.68	199.25	206.92	206.59	203.60	203.90
82	149.83	154.95	157.71	156.71	165.24	173.01	180.99	181.40	178.69	178.62
83	126.55	131.35	132.57	132.33	140.12	147.64	154.82	156.58	153.95	153.81
84	103.28	107.96	108.27	108.52	115.72	123.21	129.52	132.99	130.40	129.84
85	81.13	84.48	84.61	85.72	92.79	98.86	105.47	109.40	106.93	106.46
86	59.43	61.74	62.20	63.37	70.41	76.03	81.79	86.25	84.81	83.65
87	38.82	39.92	40.57	42.58	48.76	54.19	58.92	63.02	62.75	60.46
88	19.66	19.81	21.29	24.26	29.79	33.68	37.84	41.15	41.99	38.48
89	4.40	5.34	6.88	9.17	13.70	16.45	18.51	20.94	22.38	18.51
90	0.69	0.77	0.62	1.10	2.76	4.39	5.63	6.21	6.54	4.58
91	0.62	0.72	0.41	0.36	0.31	0.34	0.41	0.55	0.60	0.61
92	0.60	0.72	0.38	0.28	0.28	0.31	0.41	0.58	0.57	0.58
93	0.60	0.72	0.36	0.25	0.28	0.31	0.41	0.58	0.62	0.61
94	0.73	0.74	0.33	0.23	0.28	0.31	0.41	0.58	0.65	0.61
95	0.70	0.74	0.33	0.20	0.28	0.31	0.41	0.63	0.65	0.66
96	0.81	0.79	0.33	0.20	0.29	0.31	0.41	0.66	0.70	0.72
97	0.83	0.87	0.33	0.20	0.34	0.34	0.46	0.69	0.73	0.77
98	0.99	0.95	0.33	0.20	0.31	0.36	0.46	0.76	0.83	0.85
99	1.01	1.06	0.33	0.20	0.34	0.36	0.49	0.79	0.89	0.90
100	1.04	1.11	0.33	0.20	0.37	0.39	0.46	0.87	0.94	1.01
101	1.12	1.14	0.33	0.20	0.40	0.42	0.51	0.95	1.02	1.01
102	1.14	1.11	0.38	0.20	0.40	0.42	0.51	1.03	1.09	1.11
103	1.12	1.09	0.44	0.20	0.46	0.48	0.54	1.08	1.17	1.17
104	1.12	1.01	0.49	0.25	0.48	0.50	0.62	1.16	1.28	1.22
105	1.12	0.98	0.52	0.25	0.51	0.50	0.62	1.18	1.30	1.19
106	1.12	0.95	0.55	0.25	0.57	0.53	0.68	1.21	1.30	1.19
107	1.12	0.95	0.63	0.25	0.60	0.59	0.73	1.18	1.30	1.19
108	1.09	0.90	0.60	0.25	0.63	0.59	0.73	1.16	1.30	1.19
109	1.02	0.90	0.71	0.25	0.65	0.59	0.79	1.16	1.30	1.22

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**CANDELA TABULATION - (Cont.)**

110	0.99	0.90	0.71	0.28	0.65	0.62	0.79	1.18	1.30	1.17
111	0.96	0.85	0.71	0.31	0.68	0.67	0.79	1.16	1.30	1.17
112	0.94	0.82	0.77	0.34	0.68	0.70	0.79	1.13	1.30	1.17
113	0.89	0.74	0.77	0.34	0.68	0.67	0.79	1.10	1.33	1.19
114	0.83	0.67	0.77	0.34	0.74	0.73	0.79	1.08	1.25	1.11
115	0.78	0.56	0.77	0.37	0.77	0.76	0.79	1.05	1.20	1.06
116	0.70	0.45	0.77	0.39	0.74	0.76	0.79	0.94	1.20	1.03
117	0.65	0.35	0.77	0.37	0.77	0.76	0.79	0.78	1.17	0.79
118	0.57	0.27	0.77	0.42	0.77	0.81	0.79	0.68	1.04	0.74
119	0.44	0.24	0.77	0.45	0.80	0.78	0.79	0.63	0.86	0.68
120	0.42	0.21	0.77	0.42	0.82	0.78	0.79	0.44	0.75	0.53
121	0.37	0.21	0.77	0.42	0.80	0.78	0.79	0.29	0.68	0.39
122	0.36	0.21	0.77	0.42	0.80	0.81	0.78	0.29	0.59	0.29
123	0.36	0.19	0.77	0.42	0.83	0.81	0.76	0.26	0.44	0.24
124	0.39	0.16	0.77	0.42	0.85	0.84	0.76	0.26	0.42	0.21
125	0.34	0.16	0.79	0.48	0.85	0.84	0.76	0.26	0.36	0.21
126	0.34	0.16	0.77	0.48	0.91	0.87	0.76	0.26	0.36	0.21
127	0.34	0.13	0.74	0.48	0.94	0.92	0.78	0.26	0.36	0.21
128	0.34	0.13	0.77	0.48	0.97	0.92	0.73	0.26	0.36	0.21
129	0.34	0.13	0.74	0.48	0.97	0.95	0.73	0.26	0.36	0.21
130	0.34	0.13	0.69	0.48	1.02	0.92	0.73	0.26	0.36	0.24
131	0.34	0.13	0.69	0.48	1.00	0.92	0.73	0.26	0.36	0.24
132	0.34	0.16	0.66	0.48	1.00	0.92	0.73	0.26	0.36	0.24
133	0.34	0.16	0.66	0.48	1.00	0.92	0.70	0.29	0.36	0.24
134	0.34	0.16	0.58	0.48	1.00	0.92	0.68	0.29	0.36	0.24
135	0.34	0.19	0.60	0.48	1.00	0.92	0.70	0.32	0.36	0.27
136	0.34	0.21	0.52	0.48	1.00	0.92	0.68	0.32	0.36	0.27
137	0.34	0.29	0.52	0.48	1.02	0.92	0.65	0.32	0.39	0.29
138	0.34	0.29	0.52	0.51	1.02	0.92	0.65	0.34	0.39	0.32
139	0.34	0.32	0.44	0.51	1.02	0.92	0.65	0.37	0.39	0.29
140	0.34	0.29	0.41	0.51	1.02	0.92	0.65	0.34	0.39	0.29
141	0.34	0.29	0.41	0.51	1.02	0.92	0.65	0.34	0.44	0.32
142	0.34	0.29	0.41	0.51	1.02	0.92	0.65	0.39	0.47	0.32
143	0.34	0.29	0.38	0.51	1.02	0.92	0.65	0.39	0.44	0.35
144	0.34	0.29	0.38	0.51	1.02	0.93	0.65	0.40	0.44	0.37
145	0.34	0.29	0.38	0.51	1.02	0.98	0.65	0.45	0.49	0.40
146	0.34	0.32	0.36	0.51	1.02	0.95	0.65	0.42	0.50	0.40
147	0.34	0.32	0.38	0.51	1.02	0.95	0.68	0.47	0.55	0.42
148	0.34	0.34	0.38	0.51	1.02	0.95	0.68	0.50	0.52	0.42
149	0.34	0.37	0.36	0.51	1.02	0.95	0.70	0.47	0.52	0.45
150	0.34	0.37	0.36	0.51	1.02	0.95	0.68	0.47	0.57	0.48
151	0.34	0.42	0.36	0.51	1.05	0.95	0.73	0.47	0.60	0.48
152	0.34	0.40	0.36	0.51	1.05	0.95	0.70	0.47	0.60	0.50
153	0.34	0.45	0.36	0.51	1.05	0.98	0.76	0.47	0.60	0.50
154	0.34	0.48	0.36	0.51	1.05	0.98	0.73	0.47	0.60	0.56
155	0.36	0.48	0.36	0.51	1.05	1.01	0.76	0.47	0.65	0.58
156	0.39	0.48	0.38	0.51	1.05	1.01	0.76	0.47	0.65	0.56
157	0.44	0.48	0.41	0.51	1.11	1.04	0.78	0.47	0.65	0.58
158	0.42	0.48	0.44	0.51	1.08	1.06	0.76	0.47	0.68	0.61
159	0.42	0.48	0.44	0.51	1.14	1.07	0.81	0.47	0.70	0.66
160	0.44	0.48	0.49	0.51	1.17	1.12	0.79	0.47	0.70	0.66
161	0.47	0.48	0.49	0.51	1.19	1.12	0.79	0.47	0.70	0.69
162	0.49	0.48	0.49	0.53	1.19	1.12	0.79	0.47	0.70	0.72
163	0.52	0.56	0.49	0.76	1.19	1.15	0.79	0.47	0.70	0.74
164	0.57	0.61	0.49	0.76	1.19	1.15	0.79	0.47	0.70	0.72
165	0.57	0.61	0.49	0.79	1.25	1.15	0.79	0.47	0.70	0.72

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FPB 24 MD UV FR 835.IES**

**CANDELA TABULATION - (Cont.)**

166	0.57	0.61	0.49	0.79	1.31	1.15	0.79	0.47	0.70	0.72
167	0.57	0.64	0.49	0.82	1.31	1.15	0.79	0.47	0.70	0.72
168	0.62	0.69	0.49	0.82	1.31	1.12	0.79	0.47	0.70	0.72
169	0.65	0.69	0.49	0.84	1.31	1.15	0.79	0.47	0.70	0.72
170	0.68	0.69	0.57	0.84	1.31	1.12	0.79	0.47	0.70	0.72
171	0.68	0.69	0.58	0.84	1.31	1.12	0.79	0.47	0.70	0.72
172	0.68	0.69	0.58	0.84	1.31	1.12	0.79	0.47	0.70	0.72
173	0.68	0.69	0.58	0.84	1.34	1.12	0.79	0.47	0.68	0.72
174	0.68	0.69	0.58	0.84	1.36	1.12	0.79	0.47	0.68	0.72
175	0.68	0.69	0.58	0.84	1.31	1.12	0.79	0.47	0.68	0.72
176	0.68	0.69	0.58	0.87	1.31	1.12	0.79	0.47	0.68	0.72
177	0.68	0.69	0.58	0.87	1.34	1.12	0.79	0.47	0.68	0.72
178	0.68	0.69	0.58	0.90	1.31	1.07	0.79	0.47	0.68	0.72
179	0.68	0.69	0.58	0.90	1.34	1.09	0.78	0.47	0.68	0.69
180	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	1661.00	1661.00	1661.00	1661.00	1661.00	1661.00	1661.00
1	1660.71	1661.08	1660.36	1660.90	1660.41	1660.71	1659.60
2	1660.68	1660.45	1659.32	1659.30	1658.36	1659.86	1659.85
3	1659.19	1660.02	1656.88	1657.49	1656.85	1657.84	1657.84
4	1658.57	1658.19	1654.78	1655.10	1654.77	1656.38	1655.54
5	1656.74	1656.20	1651.62	1651.90	1651.48	1653.77	1653.04
6	1654.59	1652.82	1648.41	1648.15	1647.87	1649.69	1649.03
7	1651.91	1650.47	1643.97	1644.15	1644.02	1645.97	1646.06
8	1649.12	1646.71	1639.72	1639.50	1639.88	1641.66	1642.05
9	1645.80	1642.60	1634.49	1634.68	1635.07	1637.27	1638.40
10	1641.25	1637.63	1628.67	1628.60	1630.00	1631.77	1632.45
11	1636.70	1632.11	1622.05	1622.82	1623.73	1625.37	1626.71
12	1632.15	1626.07	1615.51	1616.02	1617.79	1619.05	1620.87
13	1626.15	1620.24	1607.98	1608.85	1610.51	1611.61	1614.58
14	1619.78	1613.28	1600.22	1600.71	1603.73	1603.95	1606.67
15	1613.13	1606.04	1591.18	1592.41	1596.20	1596.31	1598.57
16	1605.58	1597.59	1582.76	1583.75	1586.73	1588.54	1591.14
17	1597.78	1589.15	1572.83	1574.70	1578.74	1579.44	1581.90
18	1589.84	1580.19	1562.62	1564.68	1568.96	1569.65	1572.94
19	1580.59	1570.72	1551.84	1554.26	1559.28	1559.34	1563.31
20	1571.50	1560.89	1540.85	1543.27	1548.46	1548.84	1553.01
21	1561.68	1549.98	1529.51	1531.90	1536.78	1537.50	1541.87
22	1551.09	1538.94	1516.96	1520.06	1526.25	1527.00	1530.79
23	1540.05	1527.00	1504.54	1507.54	1513.80	1514.01	1518.81
24	1528.60	1514.60	1491.13	1494.39	1501.97	1501.42	1505.76
25	1516.14	1501.78	1477.17	1481.29	1488.51	1488.31	1492.75
26	1504.40	1489.03	1462.84	1467.28	1474.99	1474.64	1479.18
27	1491.80	1475.46	1448.19	1453.14	1460.49	1460.21	1464.52
28	1478.12	1461.35	1433.12	1437.76	1445.93	1446.14	1450.43
29	1463.10	1446.47	1417.50	1422.30	1430.97	1431.10	1434.69
30	1449.14	1431.81	1401.05	1406.94	1414.86	1414.56	1418.93
31	1434.34	1416.20	1384.60	1390.67	1399.13	1398.75	1402.56
32	1418.49	1400.10	1368.04	1374.07	1383.00	1382.71	1386.20
33	1402.15	1383.36	1350.36	1356.79	1365.38	1365.08	1368.19
34	1385.35	1366.35	1331.78	1339.33	1347.50	1347.76	1351.79
35	1368.21	1348.87	1313.80	1321.18	1329.47	1329.61	1332.90
36	1350.03	1330.56	1295.23	1302.53	1310.85	1311.00	1313.60

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FPB 24 MD UV FR 835.IES**

**CANDELA TABULATION - (Cont.)**

37	1332.02	1312.41	1275.83	1283.35	1291.12	1291.89	1294.38
38	1312.86	1293.85	1256.67	1264.73	1272.00	1272.72	1274.37
39	1293.91	1274.11	1236.53	1244.97	1252.85	1253.03	1254.35
40	1273.72	1254.38	1216.19	1224.27	1231.91	1232.65	1233.56
41	1253.84	1233.85	1195.35	1203.98	1211.29	1211.78	1212.13
42	1232.39	1213.42	1174.35	1182.82	1190.37	1190.61	1191.38
43	1210.88	1192.22	1152.88	1161.67	1168.80	1169.44	1169.10
44	1189.11	1170.37	1130.89	1139.98	1146.57	1147.80	1147.27
45	1166.98	1148.63	1108.70	1117.41	1124.45	1124.72	1124.43
46	1144.31	1125.77	1085.89	1095.07	1100.83	1101.90	1101.42
47	1120.94	1103.22	1062.78	1072.15	1077.65	1078.90	1078.24
48	1097.08	1079.71	1039.75	1048.86	1053.79	1055.50	1053.59
49	1073.80	1056.11	1015.91	1024.60	1030.26	1030.68	1029.97
50	1048.96	1032.16	991.37	1000.41	1005.34	1006.11	1004.46
51	1024.27	1007.35	967.22	976.16	981.15	981.00	979.54
52	998.35	983.00	942.66	951.55	955.86	956.20	954.31
53	973.93	957.49	917.84	926.33	929.74	930.47	928.40
54	947.36	931.89	892.39	900.65	904.51	904.81	902.19
55	921.47	906.24	867.02	875.15	878.75	878.86	876.18
56	894.73	879.97	841.18	849.38	853.05	852.61	849.18
57	868.52	853.49	815.25	822.65	827.35	826.76	823.33
58	840.74	826.43	789.22	796.26	801.18	800.92	797.48
59	813.37	799.85	762.24	769.36	774.16	773.92	771.64
60	785.97	772.07	735.52	742.39	746.86	747.01	744.33
61	757.87	744.74	708.65	715.60	719.57	719.19	716.63
62	729.54	716.89	681.68	688.04	691.92	691.40	688.73
63	701.46	688.77	654.33	660.47	663.55	663.38	661.04
64	673.02	660.39	627.11	633.14	635.89	635.62	632.97
65	644.33	632.51	599.83	605.49	607.50	607.17	604.95
66	616.04	604.17	572.42	577.62	579.48	579.15	576.23
67	586.93	575.82	545.55	549.62	551.80	550.91	548.16
68	558.26	547.45	517.76	522.37	523.38	522.98	520.35
69	529.50	519.28	490.24	494.29	495.42	494.93	491.91
70	501.07	491.02	462.76	466.73	467.22	466.72	464.27
71	472.55	462.93	435.97	439.28	439.35	439.45	436.45
72	444.10	435.01	408.48	411.93	411.87	411.25	409.05
73	415.94	406.96	381.66	384.29	383.80	383.76	381.57
74	387.63	379.36	355.09	357.71	357.23	356.58	354.80
75	359.94	352.02	329.03	330.89	329.82	329.78	327.75
76	332.48	324.69	303.26	304.42	303.48	303.30	301.57
77	305.41	297.89	277.60	278.19	277.12	277.02	274.82
78	278.81	271.19	252.30	252.43	251.63	250.83	249.30
79	252.41	245.10	226.83	227.00	225.99	224.92	223.28
80	226.63	219.23	201.83	201.80	201.39	199.92	198.46
81	201.08	193.48	177.03	177.22	176.13	175.15	174.18
82	176.04	167.99	152.33	151.96	151.79	150.93	149.83
83	150.94	142.54	128.46	127.49	127.62	127.40	126.55
84	125.90	117.69	105.21	103.84	103.41	104.03	103.28
85	101.37	94.03	82.12	80.81	79.61	81.13	81.13
86	77.38	70.58	60.45	58.42	57.11	58.50	59.43
87	54.35	48.34	39.95	37.49	35.57	37.04	38.82
88	32.86	28.14	22.57	19.92	17.47	17.21	19.66
89	14.70	12.32	8.45	6.53	5.08	4.41	4.40
90	3.55	2.11	1.01	0.54	0.47	0.69	0.69
91	0.41	0.31	0.35	0.34	0.41	0.68	0.62
92	0.41	0.28	0.26	0.31	0.35	0.68	0.60

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FPB 24 MD UV FR 835.IES**

**CANDELA TABULATION - (Cont.)**

93	0.41	0.28	0.28	0.31	0.33	0.71	0.60
94	0.41	0.28	0.26	0.22	0.32	0.71	0.73
95	0.47	0.31	0.23	0.22	0.32	0.71	0.70
96	0.47	0.28	0.23	0.22	0.32	0.79	0.81
97	0.49	0.34	0.23	0.22	0.32	0.87	0.83
98	0.52	0.39	0.23	0.22	0.32	1.05	0.99
99	0.58	0.42	0.23	0.22	0.32	1.18	1.01
100	0.63	0.45	0.20	0.22	0.32	1.16	1.04
101	0.66	0.45	0.20	0.22	0.32	1.18	1.12
102	0.71	0.48	0.23	0.22	0.32	1.18	1.14
103	0.74	0.51	0.23	0.22	0.35	1.11	1.12
104	0.77	0.51	0.26	0.22	0.41	1.10	1.12
105	0.80	0.56	0.23	0.22	0.43	1.08	1.12
106	0.82	0.59	0.23	0.22	0.59	1.03	1.12
107	0.90	0.62	0.23	0.28	0.60	0.97	1.12
108	0.91	0.68	0.26	0.28	0.78	0.89	1.09
109	0.96	0.70	0.26	0.31	0.76	0.92	1.02
110	1.02	0.73	0.28	0.34	0.76	0.87	0.99
111	1.10	0.79	0.28	0.34	0.76	0.89	0.96
112	1.10	0.82	0.31	0.34	0.76	0.82	0.94
113	1.18	0.79	0.37	0.39	0.76	0.76	0.89
114	1.21	0.79	0.37	0.45	0.76	0.71	0.83
115	1.26	0.79	0.37	0.45	0.76	0.63	0.78
116	1.23	0.79	0.37	0.48	0.76	0.48	0.70
117	1.23	0.79	0.37	0.53	0.76	0.32	0.65
118	1.18	0.79	0.37	0.50	0.76	0.26	0.57
119	1.12	0.79	0.37	0.50	0.76	0.21	0.44
120	1.12	0.79	0.37	0.50	0.76	0.24	0.42
121	1.12	0.79	0.37	0.53	0.76	0.18	0.37
122	1.12	0.79	0.37	0.59	0.76	0.16	0.36
123	1.10	0.79	0.37	0.56	0.76	0.16	0.36
124	1.10	0.79	0.37	0.56	0.79	0.16	0.39
125	1.10	0.79	0.37	0.56	0.73	0.16	0.34
126	1.07	0.79	0.37	0.56	0.73	0.18	0.34
127	1.04	0.79	0.37	0.56	0.73	0.13	0.34
128	0.96	0.79	0.40	0.56	0.73	0.13	0.34
129	0.93	0.79	0.43	0.56	0.68	0.13	0.34
130	0.82	0.79	0.45	0.56	0.65	0.13	0.34
131	0.82	0.79	0.48	0.56	0.62	0.13	0.34
132	0.77	0.79	0.48	0.56	0.57	0.13	0.34
133	0.74	0.79	0.51	0.56	0.54	0.13	0.34
134	0.74	0.79	0.48	0.56	0.49	0.13	0.34
135	0.69	0.79	0.48	0.56	0.46	0.13	0.34
136	0.68	0.79	0.48	0.56	0.38	0.13	0.34
137	0.66	0.79	0.48	0.56	0.38	0.18	0.34
138	0.58	0.79	0.48	0.56	0.35	0.16	0.34
139	0.55	0.79	0.48	0.56	0.35	0.18	0.34
140	0.52	0.79	0.48	0.56	0.35	0.18	0.34
141	0.52	0.79	0.48	0.56	0.33	0.21	0.34
142	0.55	0.79	0.48	0.56	0.32	0.26	0.34
143	0.47	0.79	0.48	0.59	0.27	0.26	0.34
144	0.41	0.79	0.48	0.53	0.24	0.31	0.34
145	0.41	0.79	0.48	0.53	0.24	0.29	0.34
146	0.41	0.79	0.48	0.53	0.24	0.29	0.34
147	0.41	0.79	0.48	0.50	0.24	0.29	0.34
148	0.41	0.81	0.48	0.53	0.24	0.29	0.34



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FPB 24 MD UV FR 835.IES**

**CANDELA TABULATION - (Cont.)**

<b>149</b>	0.41	0.76	0.48	0.48	0.24	0.32	0.34
<b>150</b>	0.41	0.76	0.48	0.48	0.24	0.29	0.34
<b>151</b>	0.41	0.73	0.48	0.48	0.24	0.34	0.34
<b>152</b>	0.41	0.70	0.48	0.48	0.24	0.34	0.34
<b>153</b>	0.41	0.70	0.48	0.48	0.24	0.37	0.34
<b>154</b>	0.41	0.67	0.48	0.48	0.24	0.34	0.34
<b>155</b>	0.47	0.65	0.48	0.48	0.30	0.37	0.36
<b>156</b>	0.44	0.65	0.48	0.48	0.30	0.42	0.39
<b>157</b>	0.47	0.62	0.48	0.48	0.30	0.42	0.44
<b>158</b>	0.49	0.59	0.48	0.48	0.32	0.42	0.42
<b>159</b>	0.49	0.59	0.48	0.48	0.30	0.42	0.42
<b>160</b>	0.55	0.59	0.48	0.48	0.30	0.45	0.44
<b>161</b>	0.55	0.59	0.48	0.48	0.32	0.45	0.47
<b>162</b>	0.60	0.59	0.51	0.48	0.30	0.53	0.49
<b>163</b>	0.58	0.59	0.68	0.50	0.35	0.50	0.52
<b>164</b>	0.60	0.59	0.71	0.50	0.32	0.50	0.57
<b>165</b>	0.63	0.59	0.80	0.67	0.32	0.50	0.57
<b>166</b>	0.66	0.59	0.88	0.70	0.32	0.50	0.57
<b>167</b>	0.71	0.59	0.91	0.73	0.32	0.50	0.57
<b>168</b>	0.74	0.59	0.91	0.73	0.38	0.50	0.62
<b>169</b>	0.71	0.59	0.94	0.76	0.41	0.58	0.65
<b>170</b>	0.71	0.59	0.94	0.76	0.41	0.60	0.68
<b>171</b>	0.71	0.59	0.94	0.76	0.41	0.66	0.68
<b>172</b>	0.71	0.59	0.94	0.76	0.43	0.66	0.68
<b>173</b>	0.71	0.59	0.94	0.76	0.46	0.63	0.68
<b>174</b>	0.71	0.59	0.99	0.76	0.46	0.68	0.68
<b>175</b>	0.71	0.59	1.00	0.76	0.51	0.68	0.68
<b>176</b>	0.71	0.59	1.00	0.76	0.49	0.68	0.68
<b>177</b>	0.71	0.59	1.00	0.76	0.49	0.68	0.68
<b>178</b>	0.71	0.59	1.02	0.76	0.49	0.68	0.68
<b>179</b>	0.71	0.59	1.08	0.78	0.49	0.68	0.68
<b>180</b>	0.68	0.68	0.68	0.68	0.68	0.68	0.68

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FPB 24 MD UV FR 835.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	609.99	N.A.	12.40
0-30	1301.15	N.A.	26.40
0-40	2141.93	N.A.	43.50
0-60	3824.47	N.A.	77.70
0-80	4810.36	N.A.	97.80
0-90	4915.51	N.A.	99.90
10-90	4758.17	N.A.	96.70
20-40	1531.94	N.A.	31.10
20-50	2412.14	N.A.	49.00
40-70	2301.67	N.A.	46.80
60-80	985.89	N.A.	20.00
70-80	366.76	N.A.	7.50
80-90	105.14	N.A.	2.10
90-110	1.40	N.A.	0.00
90-120	2.14	N.A.	0.00
90-130	2.64	N.A.	0.10
90-150	3.36	N.A.	0.10
90-180	3.89	N.A.	0.10
110-180	2.48	N.A.	0.10
0-180	4919.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	157.34
10-20	452.65
20-30	691.15
30-40	840.78
40-50	880.20
50-60	802.34
60-70	619.13
70-80	366.76
80-90	105.14
90-100	0.65
100-110	0.76
110-120	0.74
120-130	0.50
130-140	0.40
140-150	0.32
150-160	0.26
160-170	0.19
170-180	0.07

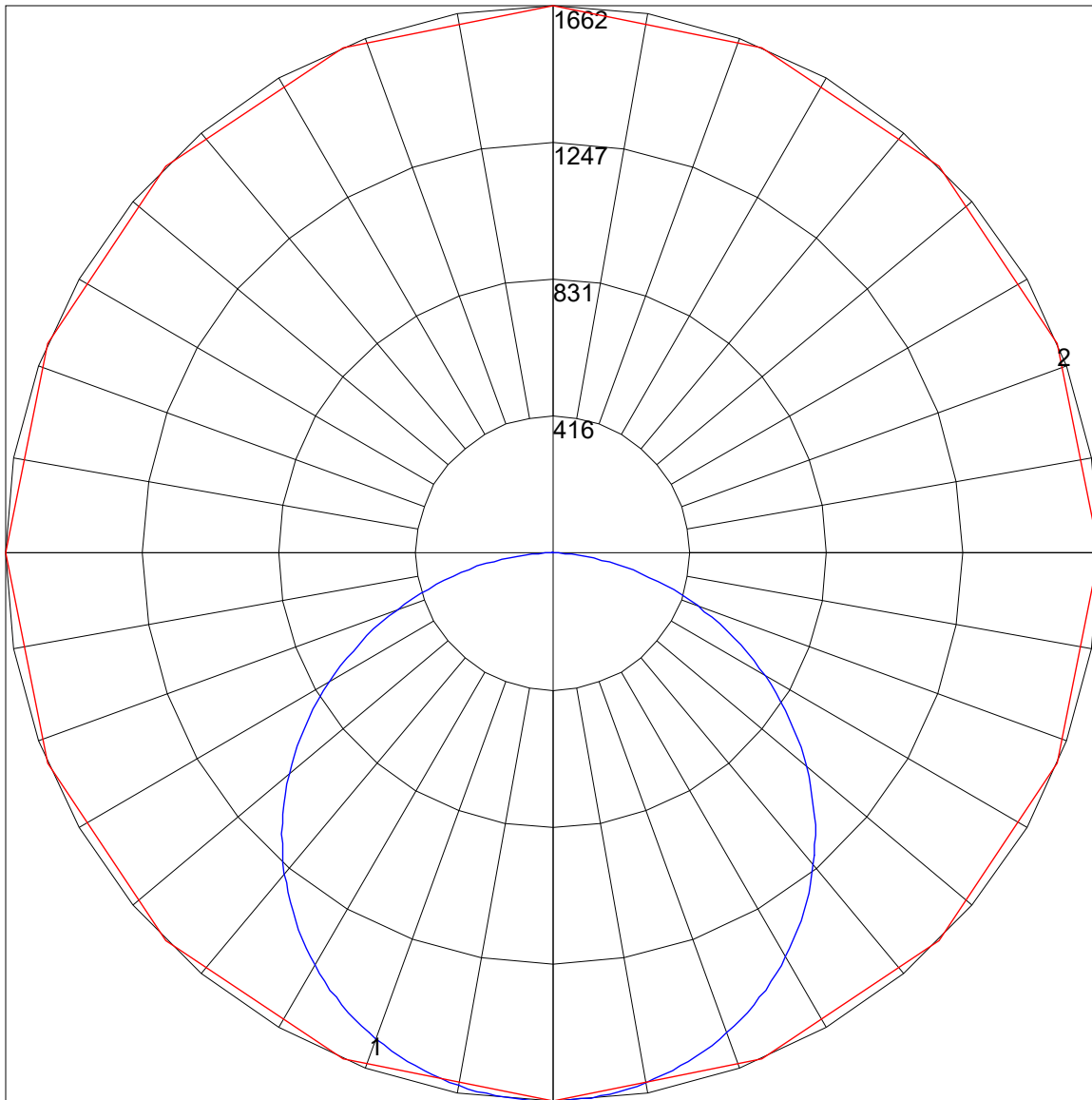
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FPB 24 MD UV FR 835.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 1662.15 Located At Horizontal Angle = 157.5, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (157.5 - 337.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)