IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-FT-40-70CRI.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12571
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/05/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-10L-SIL-FT-40-70CRI
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] SCALED FROM ORIGINAL TEST DATA
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor
[_SEARCH_COLORTEMP] 4000

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10817
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	161
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	5756
Maximum Candela Angle	37.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	5756
Maximum Candela Angle (<90 Degrees Vertical)	37.5H 67.5V
Maximum Candela At 90 Degrees Vertical	154 (1.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1327 (12.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-FT-40-70CRI.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	546.6	N.A.	5.1
FM - Front-Medium (30-60)	3179.5	N.A.	29.4
FH - Front-High (60-80)	3397.3	N.A.	31.4
FVH - Front-Very High (80-90)	187.7	N.A.	1.7
BL - Back-Low (0-30)	488.7	N.A.	4.5
BM - Back-Medium (30-60)	1635.5	N.A.	15.1
BH - Back-High (60-80)	793.8	N.A.	7.3
BVH - Back-Very High (80-90)	136.7	N.A.	1.3
UL - Uplight-Low (90-100)	124.4	N.A.	1.2
UH - Uplight-High (100-180)	326.7	N.A.	3.0
Total	10816.9	N.A.	100.0
BUG Rating	B2-U3-G2		

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-FT-40-70CRI.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	37.5	45.0	55.0	65.0	75.0
0.0	950	950	950	950	950	950	950	950	950	950
2.5	991	1001	998	1002	1000	996	992	987	978	969
5.0	942	934	957	992	1012	1011	1019	1032	1029	1004
7.5	970	973	941	959	957	956	948	992	1036	1029
10.0	965	948	967	982	978	991	991	1002	1023	1047
12.5	1020	1027	1039	1025	1020	1019	1015	1032	1027	1137
15.0	1072	1064	1080	1063	1104	1100	1093	1095	1111	1139
17.5	1174	1168	1183	1163	1136	1142	1165	1161	1174	1206
20.0	1238	1262	1268	1256	1291	1292	1205	1265	1262	1237
22.5	1366	1358	1383	1384	1351	1358	1348	1333	1325	1353
25.0	1508	1519	1501	1454	1501	1486	1420	1399	1425	1389
27.5	1645	1670	1639	1620	1577	1570	1553	1473	1454	1456
30.0	1865	1877	1861	1742	1722	1711	1629	1577	1501	1548
32.5	1995	2006	1975	1947	1880	1839	1778	1689	1589	1593
35.0	2168	2139	2097	2071	2065	2054	1930	1780	1646	1613
37.5	2317	2303	2241	2208	2198	2190	2165	1924	1746	1642
40.0	2506	2470	2421	2375	2353	2346	2355	2088	1855	1634
42.5	2740	2690	2627	2579	2542	2540	2546	2316	1937	1684
45.0	3000	2967	2883	2834	2780	2778	2750	2583	2025	1782
47.5	3315	3296	3207	3154	3092	3073	3009	2804	2223	1904
50.0	3682	3665	3578	3561	3463	3408	3341	3090	2456	2088
52.5	3982	3971	3930	3968	3862	3780	3700	3406	2796	2330
55.0	4147	4151	4163	4294	4272	4216	4103	3762	3159	2456
57.5	4237	4251	4335	4516	4627	4635	4498	4179	3556	2672
60.0	4280	4305	4443	4697	4894	4947	4879	4554	3954	3008
62.5	4317	4350	4554	4882	5151	5227	5193	4901	4217	3294
65.0	4269	4300	4545	4998	5389	5536	5576	5159	4350	3442
67.5	4093	4133	4433	5020	5696	5756	5679	5344	4275	3156
70.0	3402	3509	3940	4768	5684	5712	5679	5160	3797	2676
72.5	1971	2138	3049	3930	5008	5224	5535	4343	2999	1856
75.0	909	1033	2110	2932	3884	4174	4420	3366	2005	1010
77.5	430	468	1060	1843	2665	2622	2409	2065	1071	619
80.0	350	375	606	936	1327	1324	1112	1097	668	460
82.5	279	306	430	639	727	701	638	596	406	336
85.0	214	238	318	383	377	356	386	292	231	259
87.5	144	157	202	222	147	138	178	153	163	176
90.0	45	55	80	91	103	106	114	119	126	135
92.5	51	57	81	93	104	107	115	119	127	134
95.0	58	59	82	95	106	108	116	117	126	130
97.5	63	61	83	96	106	108	115	115	122	112
100.0	68	63	83	96	106	108	114	112	113	89
102.5	72	66	82	97	106	107	112	107	101	78
105.0	74	69	81	98	105	106	108	99	88	73
107.5	76	72	80	98	104	105	104	89	77	69
110.0	76	74	79	97	102	102	97	80	69	67
112.5	77	76	78	96	98	97	88	74	64	65
115.0	78	77	77	93	92	90	81	69	61	64
117.5	78	78	76	88	86	84	76	67	59	63
120.0	78	78	74	82	81	79	73	65	59	61
122.5	77	76	72	76	77	76	71	63	58	60
125.0	75	75	69	72	74	73	69	63	59	59
127.5	73	72	68	68	71	71	69	64	59	60
130.0	70	70	67	66	69	69	69	65	61	61

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-FT-40-70CRI.IES

CANDELA TABULATION - (Cont.)

132.5	69	69	67	65	69	69	67	62	61	63
135.0	69	69	67	65	64	63	61	58	61	65
137.5	67	68	65	59	54	52	50	51	57	64
140.0	59	58	54	48	42	41	39	43	49	56
142.5	48	47	43	37	30	29	29	33	39	47
145.0	36	35	32	26	21	21	20	24	30	36
147.5	24	24	22	18	13	12	10	14	20	24
150.0	17	17	15	10	4	4	3	6	11	15
152.5	9	8	6	3	1	1	1	2	4	7
155.0	3	2	2	1	1	1	1	1	2	3
157.5	1	1	1	1	1	1	1	1	1	2
160.0	1	1	1	1	1	1	1	1	1	2
162.5	1	0	1	1	1	1	1	1	1	2
165.0	0	0	1	1	1	1	1	1	1	2
167.5	0	0	1	1	1	1	1	1	1	2
170.0	1	0	1	1	1	1	1	1	2	2
172.5	0	0	1	1	1	1	1	1	2	2
175.0	0	0	1	1	1	1	1	1	1	2
177.5	1	0	1	1	1	1	1	1	2	2
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	**Horizontal Angles**									
	85.0	**90.0**	**95.0**	**105.0**	**115.0**	**125.0**	**135.0**	**145.0**	**155.0**	**165.0**
0.0	950	950	950	950	950	950	950	950	950	950
2.5	962	953	954	947	939	943	939	934	931	932
5.0	979	954	936	948	1000	1005	991	984	969	960
7.5	1011	979	967	996	1008	997	982	947	908	883
10.0	1030	1011	990	1031	997	972	924	915	912	882
12.5	1130	1072	1052	1099	1019	941	915	922	907	939
15.0	1173	1119	1102	1118	1027	992	932	984	995	1010
17.5	1249	1200	1190	1180	1056	998	1067	1043	1042	1083
20.0	1323	1246	1249	1198	1099	1080	1077	1102	1123	1152
22.5	1405	1354	1344	1245	1123	1147	1147	1202	1184	1257
25.0	1443	1436	1392	1253	1175	1173	1224	1238	1285	1320
27.5	1531	1478	1482	1307	1194	1236	1271	1329	1339	1421
30.0	1575	1516	1535	1371	1245	1301	1349	1364	1420	1478
32.5	1580	1532	1539	1403	1279	1334	1369	1438	1516	1599
35.0	1595	1527	1547	1388	1273	1347	1424	1505	1561	1635
37.5	1592	1535	1563	1366	1263	1339	1444	1515	1573	1663
40.0	1580	1572	1544	1331	1256	1316	1455	1500	1582	1704
42.5	1620	1549	1551	1307	1230	1303	1429	1483	1598	1849
45.0	1637	1553	1565	1308	1172	1312	1399	1455	1634	1982
47.5	1672	1597	1534	1286	1130	1296	1362	1414	1772	1784
50.0	1723	1653	1545	1279	1083	1248	1313	1377	1762	1620
52.5	1852	1696	1606	1277	1061	1207	1253	1381	1640	1505
55.0	1977	1799	1648	1242	1044	1158	1187	1381	1509	1410
57.5	2145	1904	1685	1210	997	1081	1114	1331	1391	1320
60.0	2298	1984	1751	1183	932	986	1022	1242	1276	1225
62.5	2393	2020	1724	1134	854	891	928	1146	1157	1130
65.0	2352	1966	1599	1041	766	791	832	1049	1038	1037
67.5	2123	1699	1388	913	694	700	748	961	911	919
70.0	1673	1254	988	763	616	631	672	865	773	835
72.5	1075	846	619	602	531	554	591	746	674	757
75.0	602	524	449	478	458	463	518	641	538	614
77.5	397	358	317	377	370	380	434	500	443	568

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

80.0	318	282	246	312	297	299	343	373	382	501
82.5	249	220	199	271	256	250	275	291	331	412
85.0	208	152	174	233	214	210	219	230	283	317
87.5	167	85	160	187	180	175	186	180	191	229
90.0	109	65	134	153	150	142	154	150	145	141
92.5	86	100	120	148	145	135	145	142	135	127
95.0	87	123	113	143	140	126	140	138	133	126
97.5	98	124	112	132	132	117	133	132	130	121
100.0	102	117	111	117	125	112	128	128	126	116
102.5	98	109	106	104	117	110	124	124	123	110
105.0	92	101	99	96	108	107	119	121	119	102
107.5	86	92	93	90	100	104	116	119	116	95
110.0	80	86	87	86	93	100	113	117	113	88
112.5	76	80	82	82	87	97	109	115	110	82
115.0	72	76	78	80	83	93	105	112	106	77
117.5	69	73	74	78	80	91	102	108	100	74
120.0	66	70	72	76	79	89	98	103	93	72
122.5	64	67	70	75	78	87	95	97	85	70
125.0	63	65	68	73	78	86	92	91	78	69
127.5	63	65	67	73	77	85	88	85	72	68
130.0	63	65	68	73	77	84	85	80	68	67
132.5	65	66	69	73	76	81	82	74	65	66
135.0	67	68	70	74	74	73	74	70	65	66
137.5	68	70	71	72	68	63	62	62	64	66
140.0	63	65	65	63	58	52	48	50	55	61
142.5	53	55	54	52	46	39	35	37	44	51
145.0	41	42	43	39	34	28	24	26	33	39
147.5	28	28	29	27	23	17	15	18	22	27
150.0	17	17	17	17	13	7	6	11	15	17
152.5	9	9	9	8	5	2	2	3	7	11
155.0	4	4	4	3	2	2	1	1	1	2
157.5	2	2	2	2	2	1	1	0	0	0
160.0	2	2	2	2	2	1	1	0	0	0
162.5	2	2	2	2	2	1	1	0	0	0
165.0	2	2	2	2	2	1	1	0	0	0
167.5	2	2	2	2	2	1	1	0	0	0
170.0	2	2	2	2	2	1	1	0	0	0
172.5	2	2	2	2	2	1	1	0	0	0
175.0	2	2	2	2	2	1	1	0	0	0
177.5	2	2	2	2	2	1	1	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	**Horizontal Angles**	
	175.0	**180.0**
0.0	950	950
2.5	938	947
5.0	959	952
7.5	887	883
10.0	893	898
12.5	947	952
15.0	1014	976
17.5	1067	1120
20.0	1150	1124
22.5	1256	1256
25.0	1332	1318

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

27.5	1451	1470
30.0	1541	1538
32.5	1652	1655
35.0	1695	1702
37.5	1733	1759
40.0	1815	1874
42.5	1977	1991
45.0	1781	1775
47.5	1644	1652
50.0	1561	1562
52.5	1481	1479
55.0	1401	1400
57.5	1313	1305
60.0	1220	1214
62.5	1126	1124
65.0	1041	1036
67.5	919	908
70.0	847	833
72.5	726	668
75.0	599	570
77.5	594	568
80.0	569	542
82.5	479	459
85.0	369	367
87.5	257	275
90.0	120	101
92.5	80	63
95.0	79	73
97.5	76	82
100.0	75	86
102.5	74	88
105.0	75	88
107.5	76	86
110.0	78	84
112.5	78	82
115.0	78	80
117.5	77	78
120.0	76	77
122.5	75	76
125.0	74	74
127.5	72	73
130.0	70	70
132.5	68	69
135.0	67	67
137.5	67	67
140.0	64	65
142.5	54	54
145.0	42	43
147.5	31	31
150.0	19	20
152.5	13	13
155.0	4	4
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

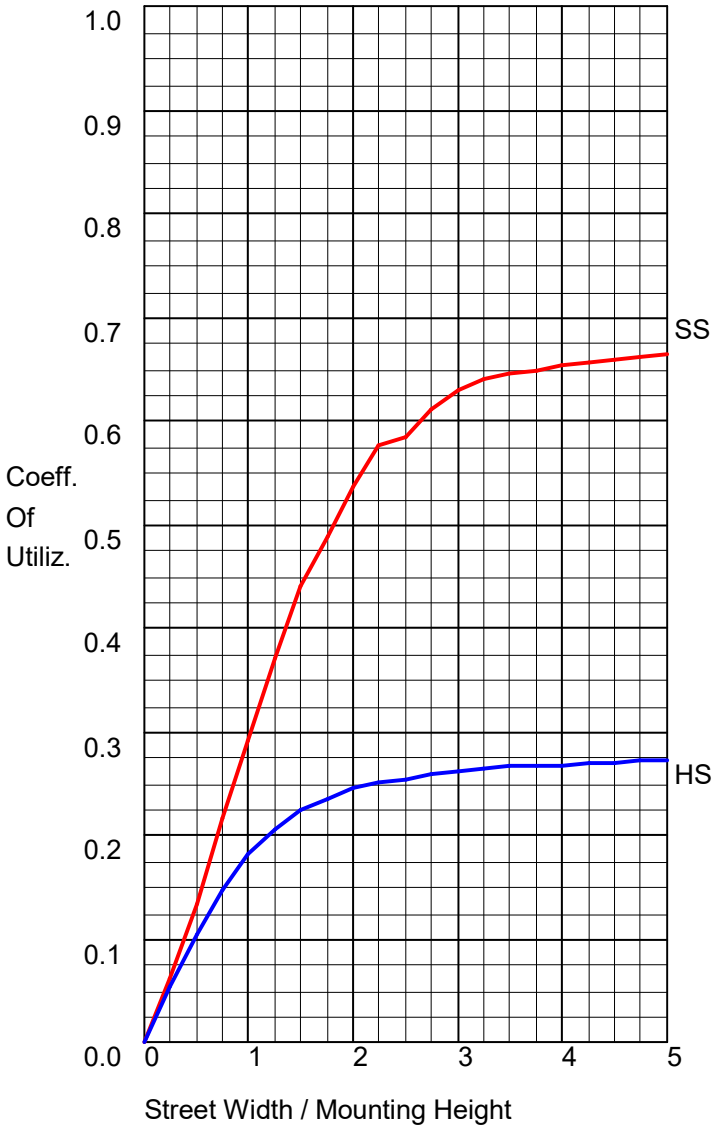
CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	1	1

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-FT-40-70CRI.IES

COEFFICIENTS OF UTILIZATION



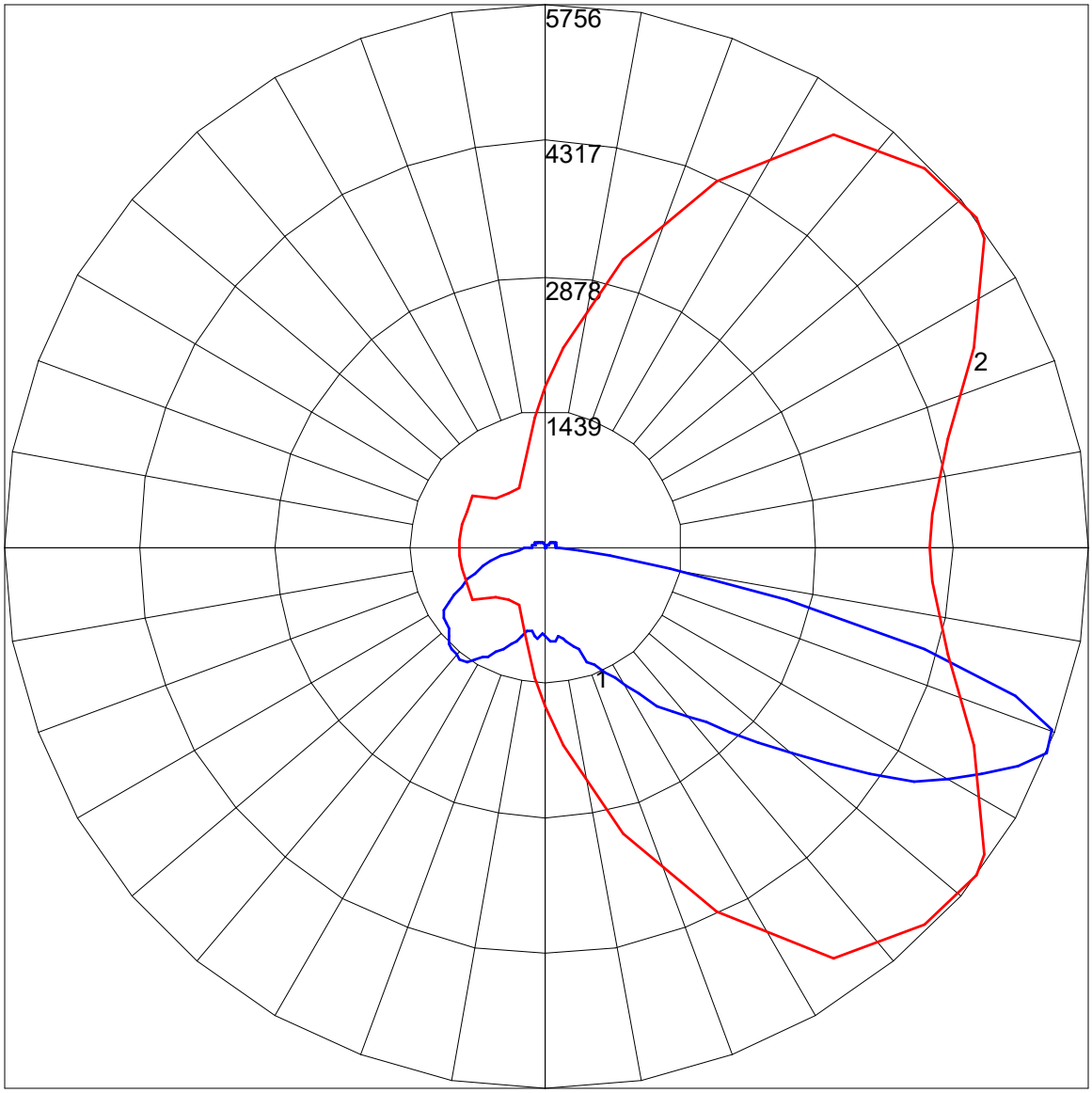
FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	7311.1	67.6
Downward House Side	3054.7	28.2
Downward Total	10365.8	95.8
Upward Street Side	206.6	1.9
Upward House Side	244.6	2.3
Upward Total	451.2	4.2
Total Flux	10817.0	100.0

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-FT-40-70CRI.IES

POLAR GRAPH

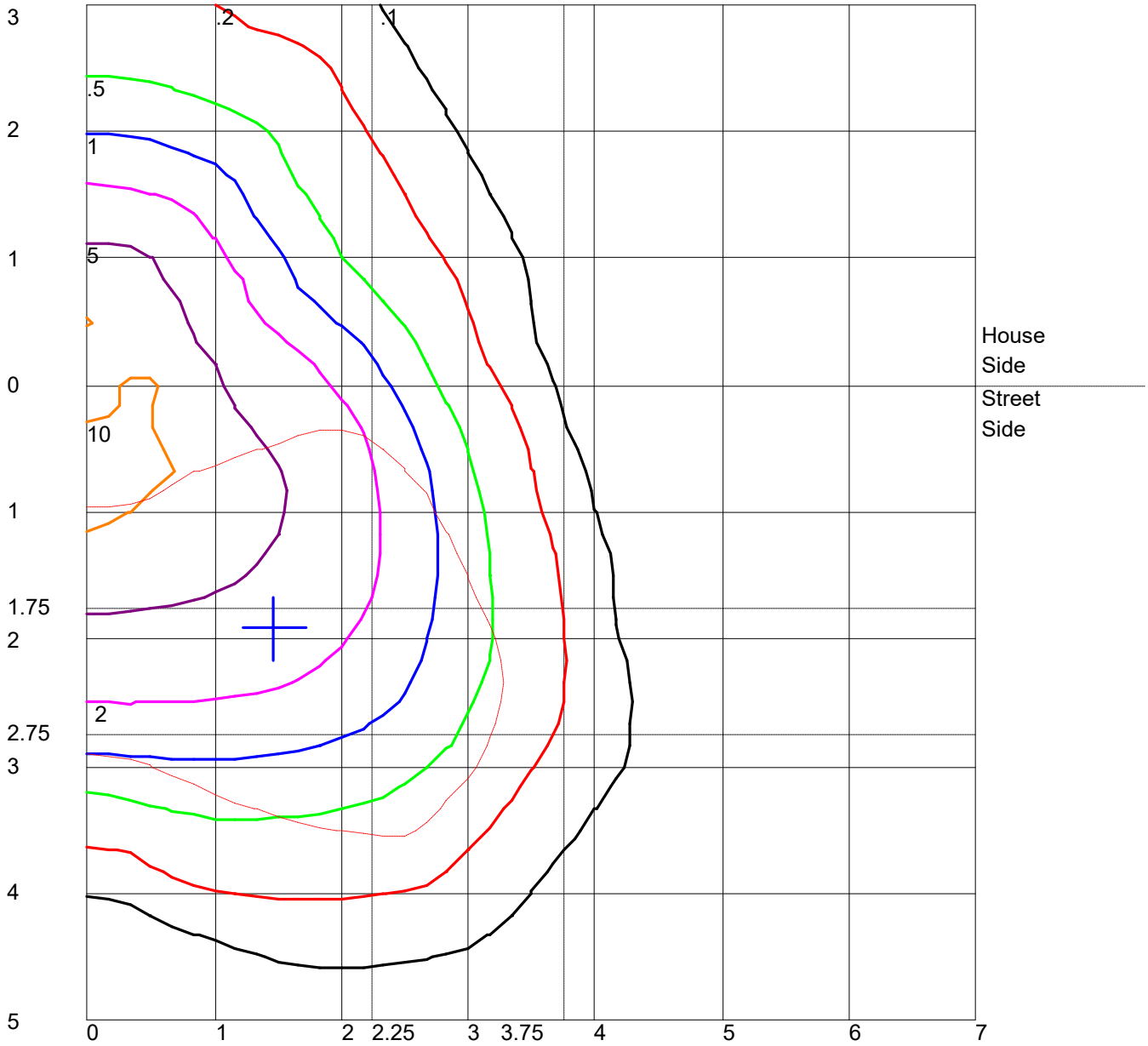


Maximum Candela = 5756 Located At Horizontal Angle = 37.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (37.5 - 217.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-FT-40-70CRI.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

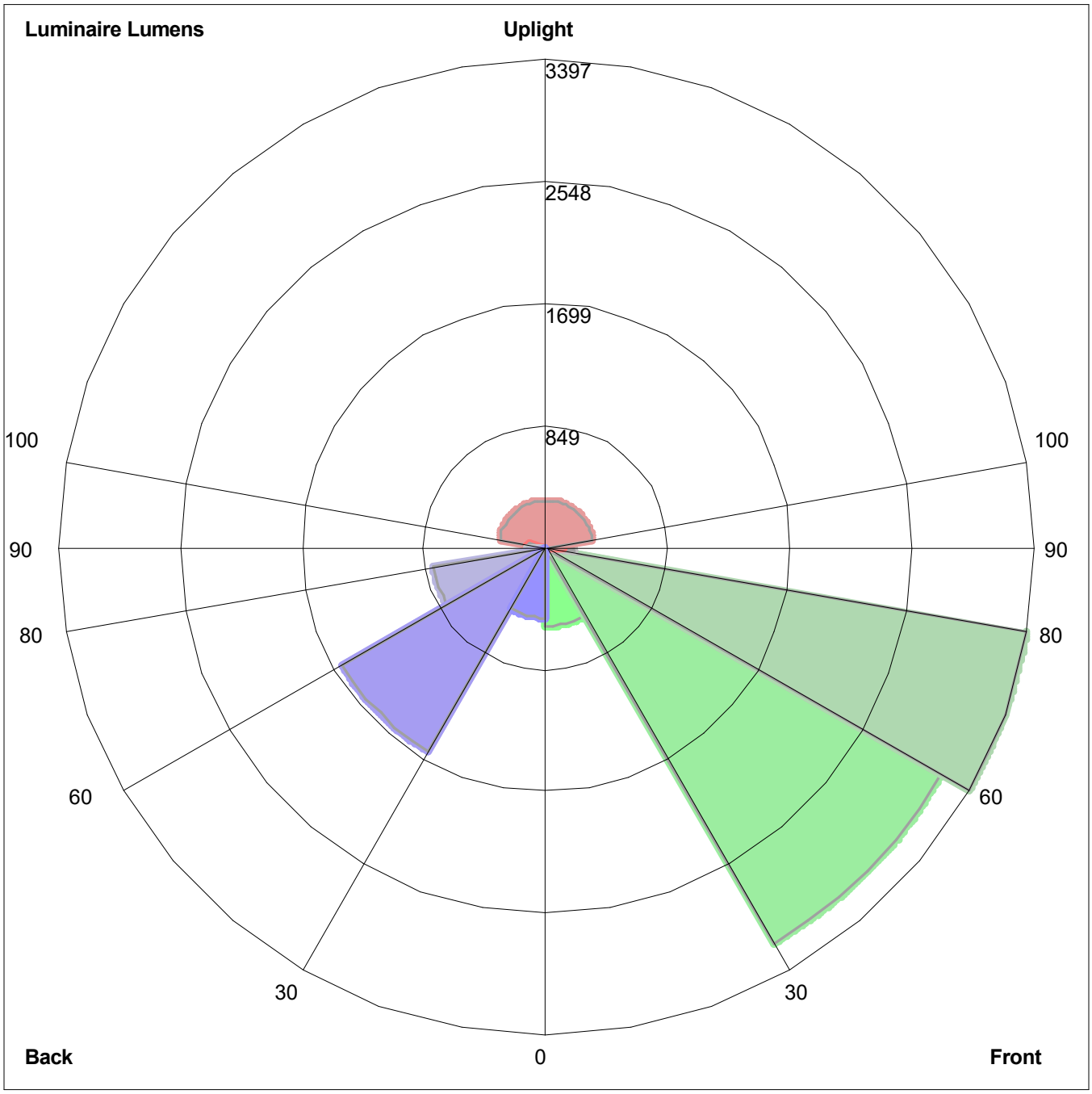


Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-10L-SIL-FT-40-70CRI.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=546.6, Medium=3179.5, High=3397.3, Very High=187.7
Back: Low=488.7, Medium=1635.5, High=793.8, Very High=136.7
Uplight: Low=124.4, High=326.7

BUG Rating : B2-U3-G2

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.