IES ROAD REPORT
PHOTOMETRIC FILENAME : MPP-LED-25L-SIL-3-40-70CRI.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12570
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 03/30/21
[TESTDATE] 03/05/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MPP-LED-25L-SIL-3-40-70CRI
[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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	27007
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	191
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	20187
Maximum Candela Angle	50H 65V
Maximum Candela (<90 Degrees Vertical)	20187
Maximum Candela Angle (<90 Degrees Vertical)	50H 65V
Maximum Candela At 90 Degrees Vertical	397 (1.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1533 (5.7% 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-25L-SIL-3-40-70CRI.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1054.6	N.A.	3.9
FM - Front-Medium (30-60)	10089.3	N.A.	37.4
FH - Front-High (60-80)	8099.6	N.A.	30.0
FVH - Front-Very High (80-90)	318.5	N.A.	1.2
BL - Back-Low (0-30)	964.6	N.A.	3.6
BM - Back-Medium (30-60)	3357.5	N.A.	12.4
BH - Back-High (60-80)	1815.8	N.A.	6.7
BVH - Back-Very High (80-90)	288.1	N.A.	1.1
UL - Uplight-Low (90-100)	305.0	N.A.	1.1
UH - Uplight-High (100-180)	713.7	N.A.	2.6
Total	27006.7	N.A.	100.0
BUG Rating	B3-U4-G4		

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-25L-SIL-3-40-70CRI.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	50	55	65	75
0.0	1627	1627	1627	1627	1627	1627	1627	1627	1627	1627
2.5	1654	1653	1663	1676	1674	1668	1654	1666	1646	1634
5.0	1588	1592	1603	1650	1677	1686	1682	1694	1690	1681
7.5	1570	1581	1552	1581	1585	1592	1615	1659	1691	1696
10.0	1546	1543	1564	1574	1600	1613	1619	1613	1685	1716
12.5	1585	1609	1615	1620	1619	1616	1632	1658	1669	1833
15.0	1638	1644	1666	1662	1715	1697	1689	1715	1793	1878
17.5	1824	1828	1865	1824	1838	1901	1916	1863	1937	1970
20.0	2019	2051	2094	2083	2169	2080	2126	2166	2160	2123
22.5	2464	2507	2562	2554	2527	2522	2464	2476	2446	2449
25.0	3140	3215	3097	3039	3108	2989	2949	2868	2881	2733
27.5	4010	4102	3995	3849	3665	3685	3479	3389	3282	3079
30.0	4982	5069	4974	4621	4447	4245	4152	3961	3643	3544
32.5	5604	5615	5613	5595	5226	4947	4658	4574	4090	3820
35.0	6217	6140	6130	6211	6182	5678	5369	5098	4453	4099
37.5	6797	6739	6691	6818	6886	6605	6157	5670	4913	4324
40.0	7544	7418	7422	7522	7593	7463	6999	6258	5343	4463
42.5	8374	8222	8288	8450	8376	8160	7886	6987	5702	4690
45.0	9430	9326	9447	9598	9374	8843	8537	7844	5902	4914
47.5	10723	10766	10801	11035	10649	9668	9201	8491	6325	5223
50.0	12151	12201	12174	12538	12147	10779	10014	9059	6935	5723
52.5	13873	13977	13723	13960	13667	12310	11076	9855	7828	6328
55.0	15658	15849	15809	15933	15486	13868	12504	10941	8968	6819
57.5	15525	15544	16100	17488	17756	15889	14137	12625	10068	7639
60.0	13960	13984	14583	16599	18781	18272	16679	14595	11630	8923
62.5	9855	10351	11872	14640	17411	19910	19248	16786	13283	10427
65.0	3862	4247	6130	10983	15567	19205	20187	19223	15155	11903
67.5	1788	1842	2518	4850	12409	17397	19207	20011	15800	11941
70.0	1305	1347	1640	2616	6180	14835	17090	18359	16395	11135
72.5	994	1022	1281	1847	3519	8764	12501	14483	14606	8313
75.0	747	781	1026	1478	2255	3830	6040	8527	8719	4688
77.5	572	608	816	1225	1663	2235	2590	2921	3358	1480
80.0	435	490	664	1001	1262	1482	1533	1483	1239	972
82.5	338	399	548	831	928	959	936	952	860	767
85.0	309	388	432	627	650	687	612	598	603	609
87.5	207	255	321	446	374	439	408	384	414	458
90.0	100	122	180	211	245	277	289	301	326	352
92.5	117	125	182	211	242	278	283	296	321	340
95.0	133	129	185	214	242	275	281	289	318	326
97.5	145	132	185	216	242	270	278	278	305	276
100.0	153	136	184	217	241	266	273	267	280	218
102.5	158	141	182	218	241	261	266	256	244	175
105.0	161	147	179	219	240	254	254	234	208	161
107.5	163	153	175	219	237	242	233	205	175	151
110.0	164	157	171	217	232	221	206	178	151	145
112.5	163	160	167	214	222	197	180	158	135	139
115.0	163	161	164	206	205	176	161	145	126	134
117.5	163	162	161	193	185	160	149	137	121	131
120.0	163	161	155	174	169	150	141	131	119	128
122.5	160	158	146	157	157	144	136	128	118	124
125.0	153	151	138	143	148	139	133	127	118	122
127.5	145	143	132	133	141	136	133	128	120	123
130.0	137	135	129	127	136	136	134	129	122	125

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-25L-SIL-3-40-70CRI.IES

CANDELA TABULATION - (Cont.)

132.5	133	132	127	123	133	133	130	125	123	129
135.0	131	131	127	123	124	120	117	117	124	132
137.5	130	129	123	111	104	101	100	105	116	131
140.0	113	113	105	92	82	79	81	88	100	116
142.5	93	91	85	72	57	58	62	67	81	97
145.0	71	69	63	50	40	39	43	47	61	76
147.5	47	45	41	34	26	18	22	28	41	51
150.0	34	32	29	21	10	8	10	12	22	31
152.5	17	16	12	6	5	4	6	7	11	15
155.0	6	6	4	3	3	3	4	4	6	8
157.5	2	1	2	2	3	3	3	4	4	5
160.0	1	1	2	2	3	3	3	3	4	4
162.5	1	1	2	2	3	3	3	3	4	4
165.0	1	1	2	3	3	3	3	3	4	4
167.5	1	1	2	3	3	4	4	4	4	4
170.0	1	1	2	3	4	4	4	4	4	4
172.5	1	1	2	3	4	4	4	4	4	4
175.0	1	1	2	3	4	4	4	4	4	4
177.5	1	1	2	3	4	4	4	4	4	4
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Angles	**Horizontal Angles**									
	85	**90**	**95**	**105**	**115**	**125**	**135**	**145**	**155**	**165**
0.0	1627	1627	1627	1627	1627	1627	1627	1627	1627	1627
2.5	1623	1611	1608	1615	1610	1616	1617	1625	1637	1650
5.0	1636	1614	1618	1663	1732	1749	1745	1750	1735	1732
7.5	1676	1647	1653	1736	1774	1773	1745	1708	1660	1646
10.0	1709	1674	1687	1786	1810	1745	1735	1736	1758	1714
12.5	1824	1777	1823	1922	1836	1784	1775	1825	1795	1877
15.0	1924	1846	1896	1990	1923	1947	1900	2012	2000	2059
17.5	2036	1972	2049	2099	2015	2033	2174	2138	2127	2247
20.0	2225	2128	2193	2175	2162	2221	2216	2319	2329	2383
22.5	2513	2402	2401	2330	2257	2352	2371	2489	2461	2608
25.0	2732	2672	2578	2442	2414	2438	2513	2589	2652	2723
27.5	3063	2857	2846	2565	2444	2569	2637	2755	2771	2923
30.0	3310	3072	3036	2705	2533	2679	2754	2825	2907	3057
32.5	3471	3211	3145	2827	2582	2716	2760	2947	3121	3332
35.0	3650	3285	3173	2816	2574	2714	2817	3069	3270	3518
37.5	3729	3383	3206	2747	2519	2654	2872	3118	3333	3614
40.0	3806	3472	3175	2648	2465	2574	2887	3076	3335	3728
42.5	3993	3495	3175	2542	2349	2551	2805	2963	3367	3915
45.0	4088	3579	3195	2486	2217	2538	2696	2855	3590	3895
47.5	4293	3727	3194	2427	2111	2441	2597	2789	3918	3759
50.0	4540	4001	3277	2381	2017	2365	2528	2736	4000	3674
52.5	4991	4340	3496	2406	1960	2265	2440	2717	3900	3523
55.0	5496	4803	3887	2443	1922	2158	2341	2643	3752	3340
57.5	6304	5428	4390	2531	1905	2057	2219	2516	3560	3168
60.0	7408	6284	5116	2646	1864	1913	2092	2355	3258	2977
62.5	8156	6895	5500	2741	1781	1743	1952	2170	2825	2783
65.0	8557	6979	5247	2683	1644	1564	1819	1997	2356	2624
67.5	7845	6027	4169	2319	1494	1375	1640	1812	1982	2446
70.0	6541	4615	2713	1742	1273	1187	1454	1602	1717	2216
72.5	4274	2884	1495	1206	1027	1005	1228	1370	1574	1853
75.0	1618	1187	960	868	836	834	965	1108	1229	1277
77.5	930	835	644	746	729	715	741	811	932	1038

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	692	650	507	666	652	625	662	713	786	834
82.5	578	522	432	586	560	529	584	629	685	696
85.0	507	378	392	522	489	472	488	498	581	582
87.5	421	229	385	453	428	418	424	404	404	437
90.0	300	182	359	397	379	354	377	361	343	332
92.5	225	256	324	384	367	340	358	350	331	308
95.0	219	318	301	374	357	322	347	339	326	304
97.5	236	321	296	346	336	296	331	324	316	292
100.0	250	298	287	303	316	277	316	312	306	277
102.5	239	271	267	267	292	266	302	302	298	261
105.0	219	242	244	239	266	257	288	292	289	243
107.5	197	215	221	218	241	246	277	283	278	222
110.0	178	193	201	202	219	233	265	274	266	201
112.5	164	177	184	189	201	222	252	266	255	183
115.0	153	164	171	180	189	212	239	255	241	168
117.5	145	155	161	173	180	205	229	243	224	155
120.0	139	147	154	167	175	199	220	229	205	146
122.5	135	141	147	161	172	194	211	216	184	140
125.0	130	136	142	156	170	189	203	200	163	136
127.5	129	134	140	154	169	187	194	184	145	131
130.0	130	134	141	154	168	184	186	168	133	128
132.5	133	137	143	155	164	176	176	153	126	125
135.0	137	141	146	155	159	159	158	141	122	123
137.5	140	143	147	150	146	137	130	119	120	123
140.0	130	135	136	133	125	112	99	94	103	112
142.5	111	116	115	110	100	85	69	70	81	91
145.0	87	90	91	85	73	59	47	46	59	69
147.5	59	61	63	59	49	35	29	32	38	46
150.0	36	37	38	36	27	17	12	18	25	28
152.5	18	19	19	18	14	10	7	6	10	17
155.0	10	11	11	10	9	7	5	3	2	2
157.5	7	7	7	7	7	6	4	2	0	0
160.0	5	6	6	6	6	6	4	2	0	0
162.5	5	5	6	6	6	5	4	1	0	0
165.0	5	5	5	6	6	5	3	1	0	0
167.5	5	5	5	6	6	5	3	1	0	0
170.0	5	5	5	6	5	5	3	1	0	0
172.5	5	5	5	5	5	5	3	1	0	0
175.0	5	5	5	5	5	4	3	1	0	0
177.5	4	5	5	5	5	4	3	1	0	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Angles	**Horizontal Angles**	
	175	**180**
0.0	1627	1627
2.5	1647	1666
5.0	1697	1670
7.5	1646	1675
10.0	1742	1717
12.5	1904	1918
15.0	2050	1958
17.5	2211	2293
20.0	2384	2300
22.5	2602	2584
25.0	2738	2685

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	2961	2988
30.0	3178	3130
32.5	3388	3364
35.0	3575	3574
37.5	3625	3645
40.0	3508	3490
42.5	3358	3316
45.0	3058	3023
47.5	2926	2872
50.0	2799	2735
52.5	2679	2608
55.0	2573	2482
57.5	2457	2342
60.0	2352	2179
62.5	2281	2044
65.0	2261	1953
67.5	2221	1875
70.0	2139	1858
72.5	1763	1736
75.0	1678	1817
77.5	1510	1622
80.0	1188	1240
82.5	855	878
85.0	818	810
87.5	431	357
90.0	238	171
92.5	188	135
95.0	187	159
97.5	184	179
100.0	180	195
102.5	178	202
105.0	177	203
107.5	175	198
110.0	173	191
112.5	169	182
115.0	165	173
117.5	161	164
120.0	156	158
122.5	151	153
125.0	146	148
127.5	141	142
130.0	135	136
132.5	129	130
135.0	126	126
137.5	124	124
140.0	117	117
142.5	97	97
145.0	74	75
147.5	52	52
150.0	31	31
152.5	19	20
155.0	2	2
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.

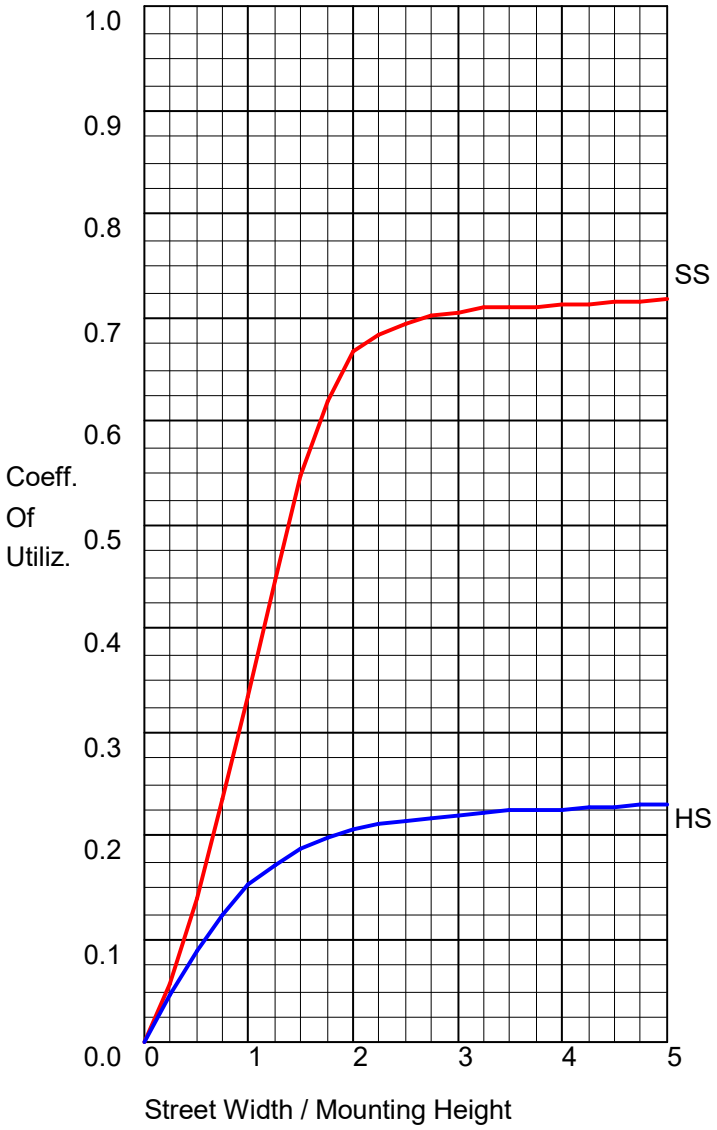
CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	3	3

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-25L-SIL-3-40-70CRI.IES

COEFFICIENTS OF UTILIZATION



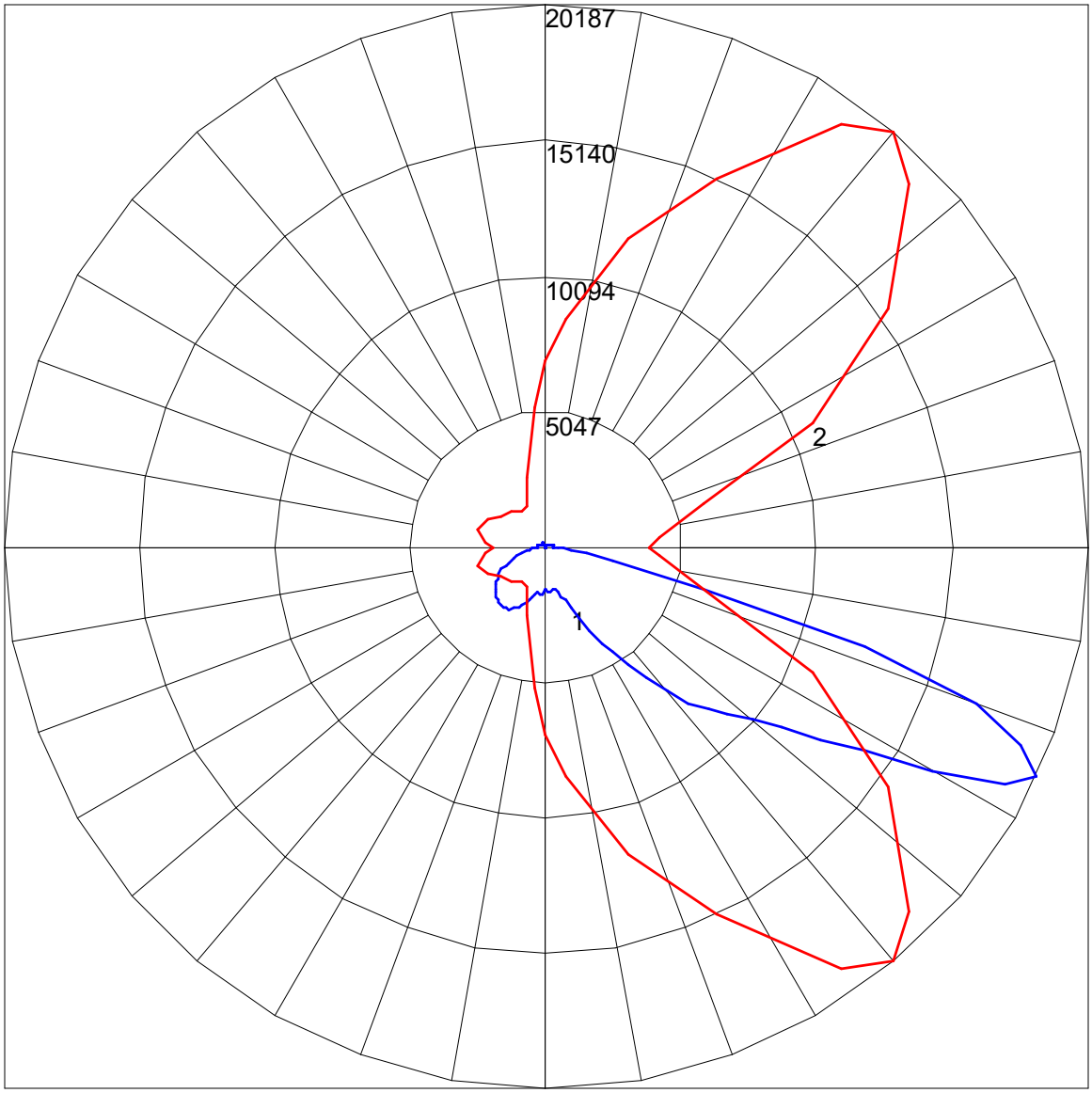
FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	19561.9	72.4
Downward House Side	6426.0	23.8
Downward Total	25987.9	96.2
Upward Street Side	455.7	1.7
Upward House Side	562.9	2.1
Upward Total	1018.6	3.8
Total Flux	27006.5	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-25L-SIL-3-40-70CRI.IES

POLAR GRAPH

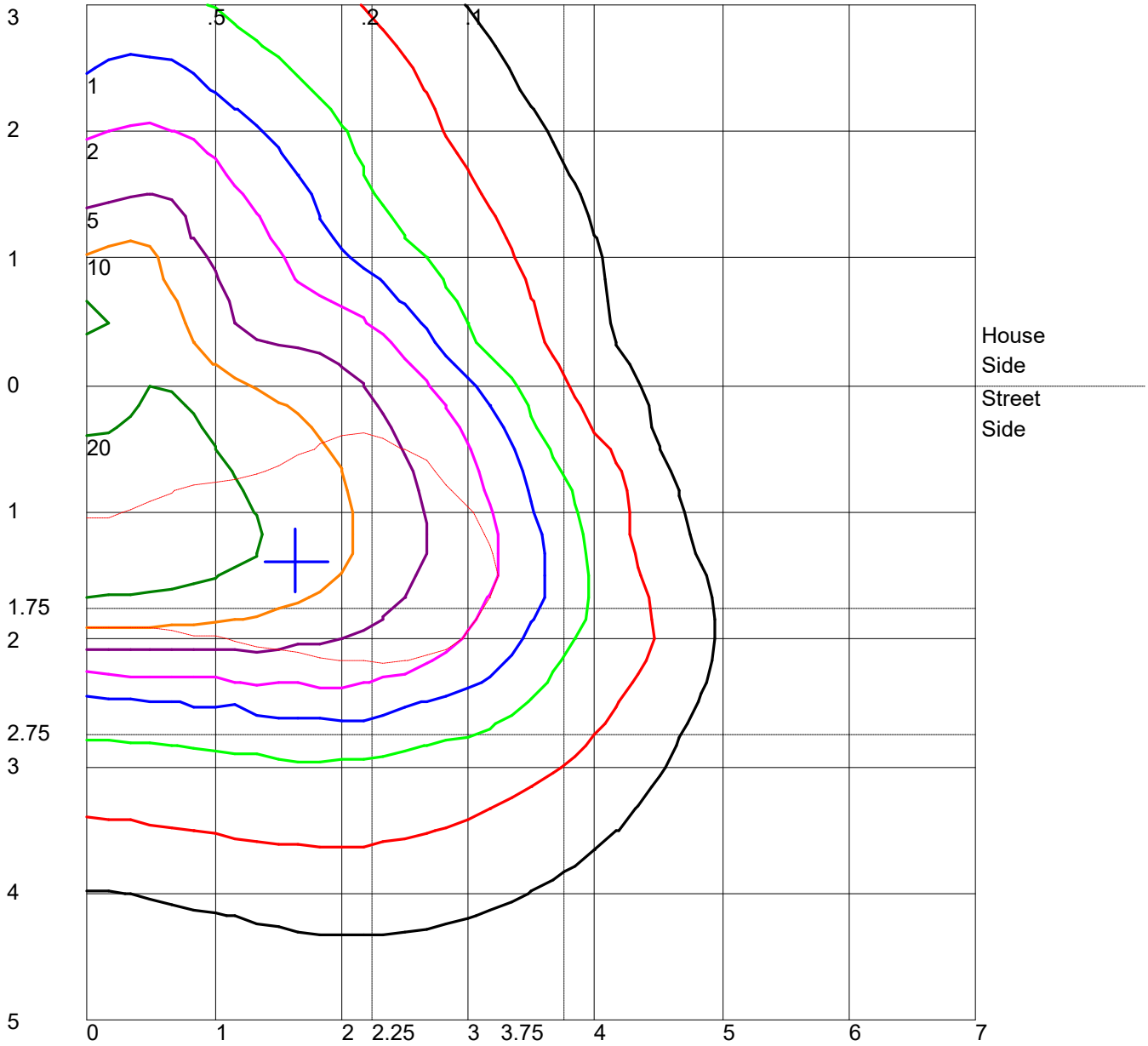


Maximum Candela = 20187 Located At Horizontal Angle = 50, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

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-25L-SIL-3-40-70CRI.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

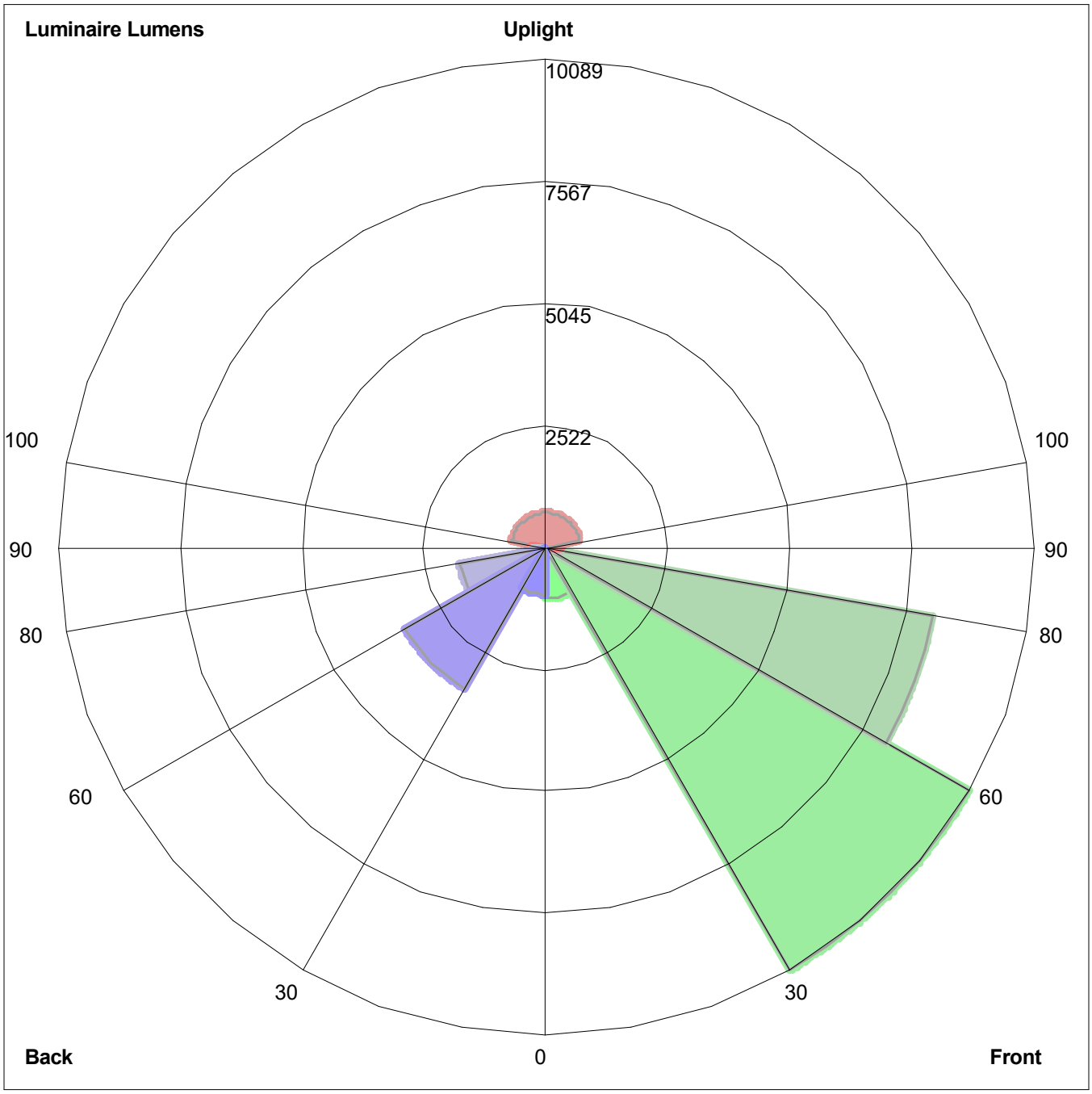


Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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-25L-SIL-3-40-70CRI.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1054.6, Medium=10089.3, High=8099.6, Very High=318.5
Back: Low=964.6, Medium=3357.5, High=1815.8, Very High=288.1
Uplight: Low=305.0, High=713.7

BUG Rating : B3-U4-G4

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.