



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ARCH-59-LED-BW-MULTI.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-13446  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/07/22  
[TEST DATE] 05/31/22  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] ARCH-59-LED-BW-MULTI  
[LUMINAIRE OTHER] TEST PROCEDURE: IESNA LM-79-19  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor  
[SEARCH\_COLORTEMP] 5000

**CHARACTERISTICS**

IES Classification	Type I
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1670
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	25.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4358
Maximum Candela Angle	2.5H 5V
Maximum Candela (<90 Degrees Vertical)	4358
Maximum Candela Angle (<90 Degrees Vertical)	2.5H 5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	126 (7.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ARCH-59-LED-BW-MULTI.IES**

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	827.0	N.A.	49.5
FM - Front-Medium (30-60)	366.4	N.A.	21.9
FH - Front-High (60-80)	150.5	N.A.	9.0
FVH - Front-Very High (80-90)	38.9	N.A.	2.3
BL - Back-Low (0-30)	246.8	N.A.	14.8
BM - Back-Medium (30-60)	34.8	N.A.	2.1
BH - Back-High (60-80)	5.7	N.A.	0.3
BVH - Back-Very High (80-90)	0.2	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	1670.3	N.A.	100.0
BUG Rating	B1-U0-G1		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ARCH-59-LED-BW-MULTI.IES**

**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>2.5</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	4186	4186	4186	4186	4186	4186	4186	4186	4186	4186
<b>2.5</b>	4274	4278	4280	4266	4264	4272	4306	4322	4288	4280
<b>5.0</b>	4352	4358	4352	4338	4326	4328	4328	4314	4244	4184
<b>7.5</b>	4168	4176	4164	4142	4132	4150	4150	4126	4038	3948
<b>10.0</b>	3790	3798	3782	3758	3752	3778	3786	3764	3678	3578
<b>12.5</b>	3310	3320	3304	3278	3274	3298	3298	3282	3212	3090
<b>15.0</b>	2780	2788	2742	2748	2750	2752	2782	2762	2706	2596
<b>17.5</b>	2226	2204	2194	2208	2230	2246	2280	2264	2186	2120
<b>20.0</b>	1744	1768	1758	1758	1762	1788	1816	1826	1760	1708
<b>22.5</b>	1396	1398	1412	1426	1430	1414	1442	1424	1408	1366
<b>25.0</b>	1130	1132	1140	1148	1148	1154	1138	1138	1120	1084
<b>27.5</b>	896	898	906	922	944	936	924	904	880	856
<b>30.0</b>	726	728	732	742	762	776	748	718	700	676
<b>32.5</b>	590	590	594	594	604	626	624	582	564	536
<b>35.0</b>	488	488	486	490	496	504	516	484	462	434
<b>37.5</b>	416	416	416	416	416	422	432	420	388	362
<b>40.0</b>	364	364	362	362	364	366	370	374	336	310
<b>42.5</b>	328	328	326	326	326	328	330	334	302	276
<b>45.0</b>	302	300	298	298	296	296	300	300	282	250
<b>47.5</b>	280	280	280	278	276	274	276	276	268	232
<b>50.0</b>	268	268	268	264	260	256	254	258	254	218
<b>52.5</b>	256	256	256	254	250	246	240	242	240	208
<b>55.0</b>	248	248	248	244	242	236	228	226	226	198
<b>57.5</b>	240	240	240	238	234	226	220	210	214	190
<b>60.0</b>	230	230	230	228	226	218	210	200	198	184
<b>62.5</b>	214	214	214	214	212	210	202	188	182	178
<b>65.0</b>	202	202	202	198	194	198	192	178	164	162
<b>67.5</b>	192	190	190	186	180	180	180	166	150	146
<b>70.0</b>	174	170	172	174	170	164	162	154	136	130
<b>72.5</b>	138	138	138	136	146	150	140	140	126	114
<b>75.0</b>	134	134	134	130	124	122	126	118	116	98
<b>77.5</b>	130	128	128	126	118	110	104	104	102	86
<b>80.0</b>	126	126	126	122	114	104	94	88	80	74
<b>82.5</b>	124	122	122	118	112	102	90	76	64	62
<b>85.0</b>	120	118	118	114	108	98	86	70	52	42
<b>87.5</b>	114	114	114	110	102	94	82	66	46	26
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	4186	4186	4186	4186	4186	4186	4186	4186	4186	4186
<b>2.5</b>	4286	4264	4224	4174	4136	4070	4040	4006	3972	3940
<b>5.0</b>	4142	4090	4010	3898	3766	3530	3276	3068	2762	2598
<b>7.5</b>	3866	3790	3680	3490	3096	2480	1898	1546	1202	1110
<b>10.0</b>	3450	3366	3262	2950	2230	1448	988	498	182	56
<b>12.5</b>	2960	2872	2794	2358	1450	816	224	0	0	0
<b>15.0</b>	2478	2396	2298	1792	952	248	0	0	0	0
<b>17.5</b>	2024	1952	1866	1284	544	16	0	0	0	0
<b>20.0</b>	1630	1572	1496	928	192	0	0	0	0	0
<b>22.5</b>	1304	1258	1192	674	48	0	0	0	0	0
<b>25.0</b>	1036	1000	944	470	14	0	0	0	0	0
<b>27.5</b>	820	792	742	292	4	0	0	0	0	0

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ARCH-59-LED-BW-MULTI.IES**

**CANDELA TABULATION - (Cont.)**

30.0	648	628	586	172	0	0	0	0	0	0
32.5	522	504	466	104	2	0	0	0	0	0
35.0	422	406	368	78	6	0	0	0	0	0
37.5	346	332	302	62	8	0	0	0	0	0
40.0	292	284	256	48	10	0	0	0	0	0
42.5	258	250	222	38	10	0	0	0	0	0
45.0	232	224	194	32	10	0	0	0	0	0
47.5	210	202	172	28	8	0	0	0	0	0
50.0	194	188	152	24	6	0	0	0	0	0
52.5	182	174	132	24	6	0	0	0	0	0
55.0	168	160	110	22	4	0	0	0	0	0
57.5	154	146	90	20	2	0	0	0	0	0
60.0	142	134	76	16	0	0	0	0	0	0
62.5	126	118	64	12	0	0	0	0	0	0
65.0	114	104	50	10	0	0	0	0	0	0
67.5	102	92	36	6	0	0	0	0	0	0
70.0	92	80	28	4	0	0	0	0	0	0
72.5	84	70	22	0	0	0	0	0	0	0
75.0	78	60	16	0	0	0	0	0	0	0
77.5	70	50	10	0	0	0	0	0	0	0
80.0	60	40	6	0	0	0	0	0	0	0
82.5	46	26	0	0	0	0	0	0	0	0
85.0	24	10	0	0	0	0	0	0	0	0
87.5	10	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

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

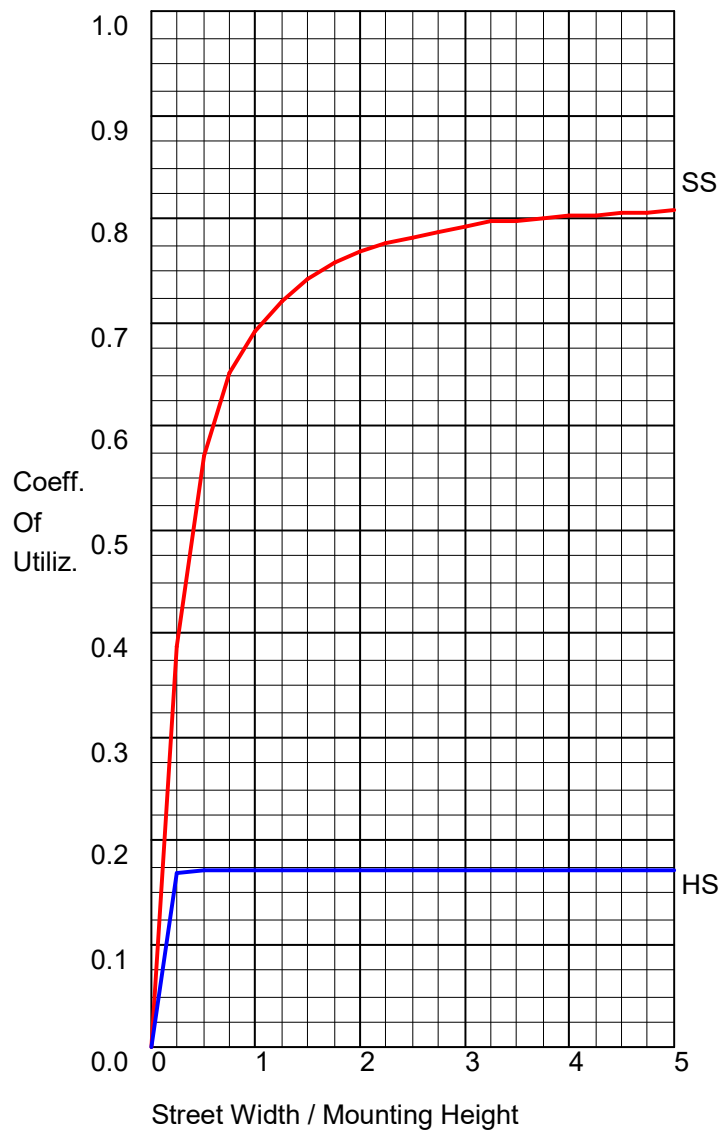
	<u>175.0</u>	<u>180.0</u>
0.0	4186	4186
2.5	3908	3908
5.0	2478	2472
7.5	1008	1002
10.0	0	0
12.5	0	0
15.0	0	0
17.5	0	0
20.0	0	0
22.5	0	0
25.0	0	0
27.5	0	0
30.0	0	0
32.5	0	0
35.0	0	0
37.5	0	0
40.0	0	0
42.5	0	0
45.0	0	0
47.5	0	0
50.0	0	0
52.5	0	0
55.0	0	0
57.5	0	0
60.0	0	0
62.5	0	0
65.0	0	0

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ARCH-59-LED-BW-MULTI.IES**

**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	0	0
<b>70.0</b>	0	0
<b>72.5</b>	0	0
<b>75.0</b>	0	0
<b>77.5</b>	0	0
<b>80.0</b>	0	0
<b>82.5</b>	0	0
<b>85.0</b>	0	0
<b>87.5</b>	0	0
<b>90.0</b>	0	0

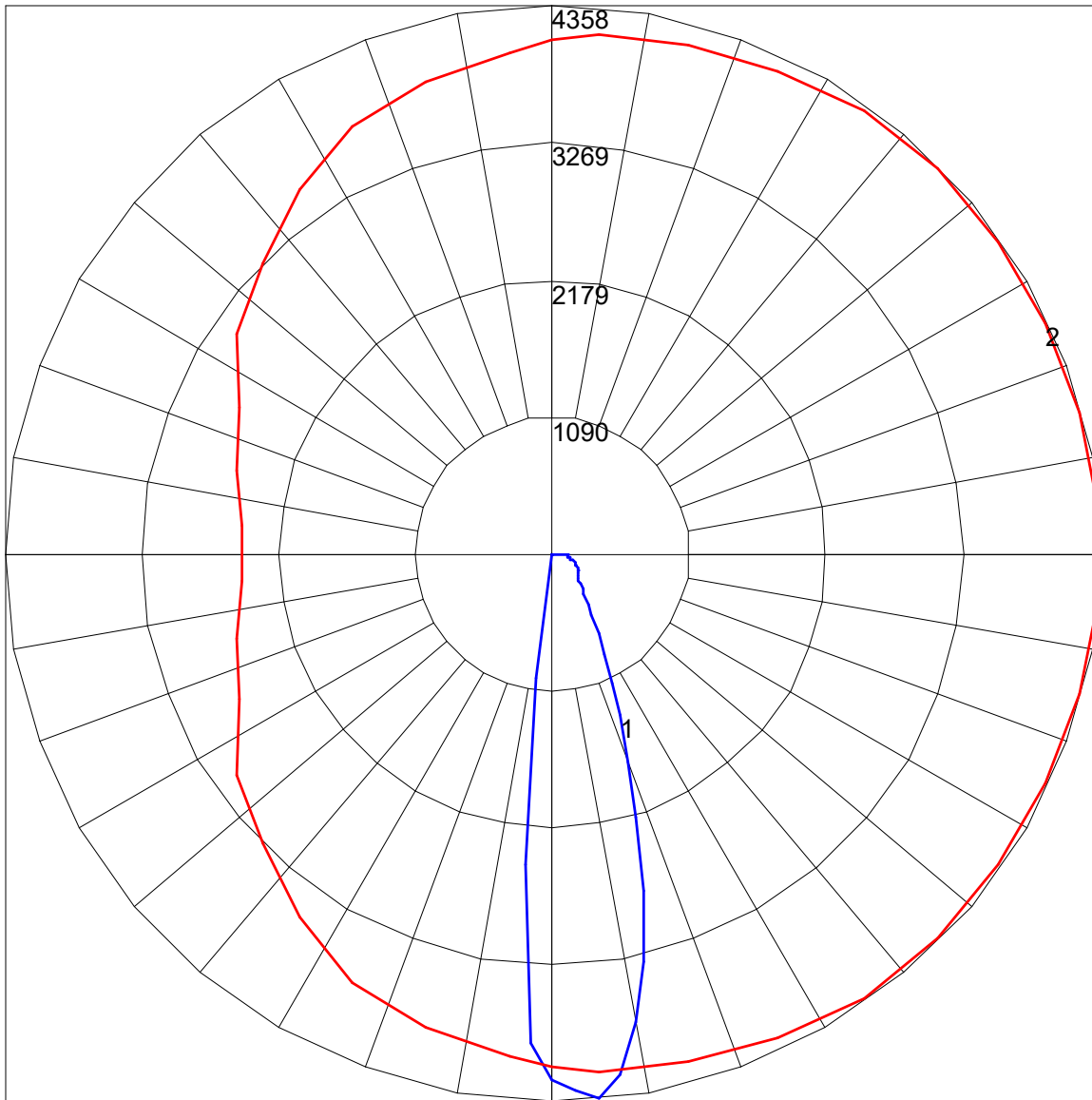
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

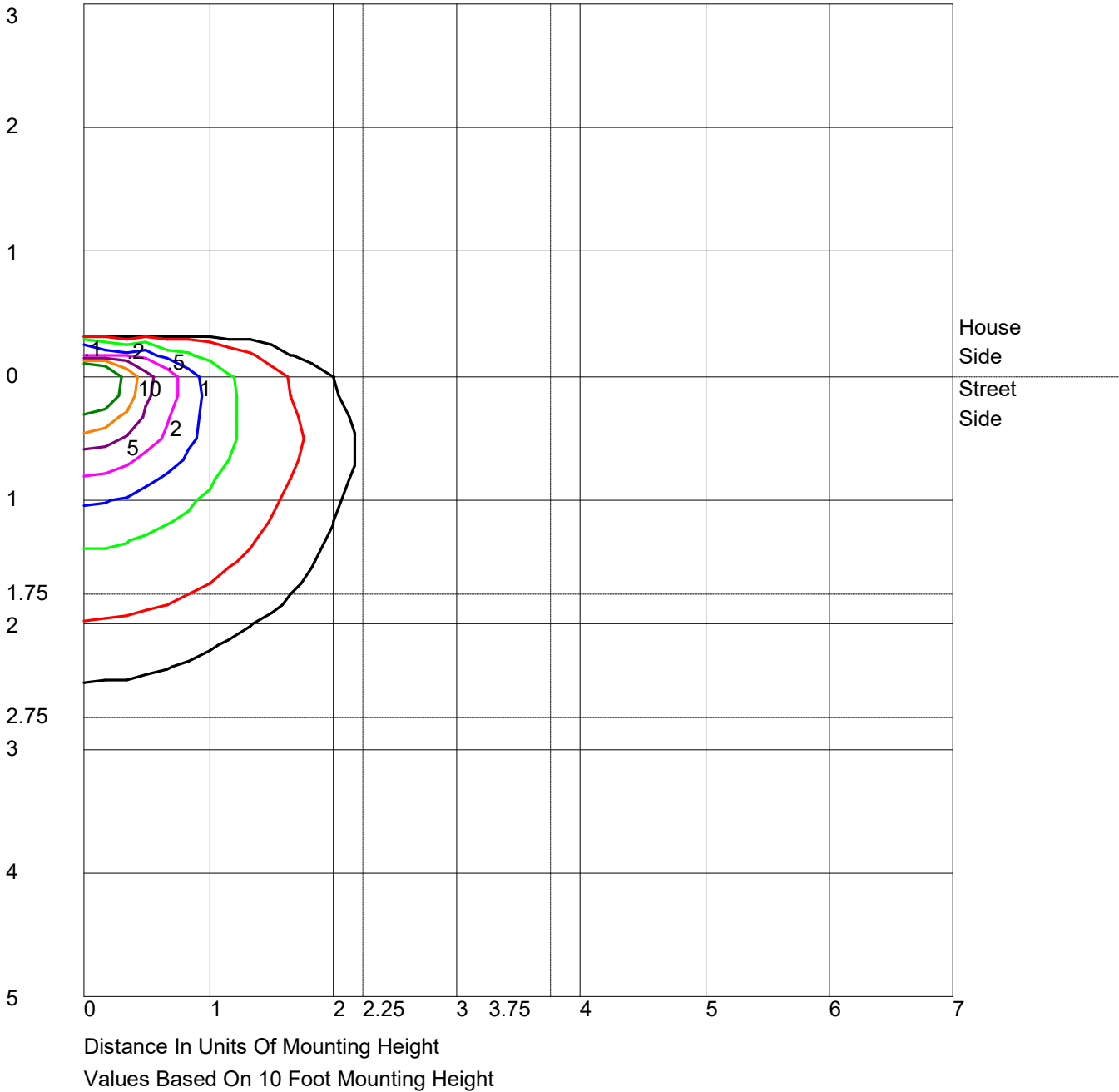
	Lumens	Percent Of Luminaire
Downward Street Side	1382.7	82.8
Downward House Side	287.6	17.2
Downward Total	1670.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1670.3	100.0

POLAR GRAPH



Maximum Candela = 4358 Located At Horizontal Angle = 2.5, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (2.5 - 182.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



# PHOTO IES R

