



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : W442-LED-HO-CW.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-4256  
[TESTLAB] LSI INDUSTRIES, INC.  
[TESTDATE] 07/13/13  
[ISSUE DATE] 05/02/23  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] W442-LED-HO-CW  
[TEST PROCEDURE] IESNA LM-79-19  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[FACTORED] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor  
[SEARCH\_COLORTEMP] 5000

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5022
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	36
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20987	22447	23839
55	16593	20980	23764
65	12443	20191	23588
75	9536	21689	25366
85	8329	39607	45900

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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>
0.0	1636	1636	1636	1636	1636
2.5	1674	1658	1635	1614	1604
5.0	1668	1654	1631	1612	1606
7.5	1658	1646	1627	1609	1601
10.0	1646	1635	1617	1599	1591
12.5	1627	1619	1601	1585	1577
15.0	1603	1596	1580	1564	1556
17.5	1574	1569	1553	1537	1529
20.0	1540	1537	1521	1499	1496
22.5	1500	1500	1484	1467	1459
25.0	1457	1457	1441	1425	1417
27.5	1408	1409	1393	1379	1372
30.0	1353	1355	1342	1331	1326
32.5	1293	1297	1286	1281	1280
35.0	1227	1235	1229	1232	1232
37.5	1157	1168	1168	1181	1186
40.0	1082	1098	1107	1130	1138
42.5	1003	1024	1045	1080	1091
45.0	920	947	984	1029	1045
47.5	836	872	924	979	997
50.0	753	797	863	928	949
52.5	669	722	804	877	898
55.0	590	650	746	824	845
57.5	518	582	689	770	791
60.0	451	522	634	716	735
62.5	387	467	580	660	677
65.0	326	411	529	604	618
67.5	273	358	484	548	561
70.0	224	310	436	499	508
72.5	181	267	390	451	457
75.0	153	228	348	403	407
77.5	121	195	310	358	361
80.0	91	165	275	318	320
82.5	66	149	243	281	281
85.0	45	128	214	249	248
87.5	24	107	189	220	219
90.0	6	88	168	195	193
92.5	2	80	158	181	179
95.0	2	77	155	173	169
97.5	2	73	152	165	163
100.0	2	70	147	161	165
102.5	2	67	141	160	160
105.0	2	66	136	157	163
107.5	2	64	131	153	158
110.0	2	62	126	153	155
112.5	2	59	121	149	152
115.0	3	58	117	144	147
117.5	3	54	112	139	142
120.0	3	53	107	134	137
122.5	3	51	102	128	133
125.0	3	48	97	123	128
127.5	3	46	93	117	121
130.0	3	45	88	110	117
132.5	3	42	83	105	110

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	<b>3</b>	<b>40</b>	<b>77</b>	<b>99</b>	<b>104</b>
<b>137.5</b>	<b>3</b>	<b>37</b>	<b>72</b>	<b>94</b>	<b>99</b>
<b>140.0</b>	<b>3</b>	<b>34</b>	<b>67</b>	<b>88</b>	<b>94</b>
<b>142.5</b>	<b>3</b>	<b>32</b>	<b>62</b>	<b>81</b>	<b>85</b>
<b>145.0</b>	<b>3</b>	<b>29</b>	<b>58</b>	<b>75</b>	<b>80</b>
<b>147.5</b>	<b>5</b>	<b>26</b>	<b>53</b>	<b>69</b>	<b>73</b>
<b>150.0</b>	<b>3</b>	<b>24</b>	<b>48</b>	<b>62</b>	<b>69</b>
<b>152.5</b>	<b>5</b>	<b>22</b>	<b>43</b>	<b>58</b>	<b>62</b>
<b>155.0</b>	<b>5</b>	<b>19</b>	<b>38</b>	<b>51</b>	<b>54</b>
<b>157.5</b>	<b>5</b>	<b>18</b>	<b>35</b>	<b>46</b>	<b>50</b>
<b>160.0</b>	<b>5</b>	<b>14</b>	<b>30</b>	<b>40</b>	<b>43</b>
<b>162.5</b>	<b>5</b>	<b>13</b>	<b>26</b>	<b>35</b>	<b>38</b>
<b>165.0</b>	<b>5</b>	<b>11</b>	<b>21</b>	<b>29</b>	<b>32</b>
<b>167.5</b>	<b>5</b>	<b>10</b>	<b>18</b>	<b>22</b>	<b>26</b>
<b>170.0</b>	<b>5</b>	<b>8</b>	<b>14</b>	<b>19</b>	<b>19</b>
<b>172.5</b>	<b>5</b>	<b>6</b>	<b>10</b>	<b>13</b>	<b>14</b>
<b>175.0</b>	<b>5</b>	<b>5</b>	<b>6</b>	<b>10</b>	<b>10</b>
<b>177.5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
<b>180.0</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	600.64	N.A.	12.00
0-30	1263.1	N.A.	25.20
0-40	2032.59	N.A.	40.50
0-60	3451.31	N.A.	68.70
0-80	4287.54	N.A.	85.40
0-90	4490.51	N.A.	89.40
10-90	4335.08	N.A.	86.30
20-40	1431.96	N.A.	28.50
20-50	2192.71	N.A.	43.70
40-70	1919.87	N.A.	38.20
60-80	836.23	N.A.	16.70
70-80	335.08	N.A.	6.70
80-90	202.97	N.A.	4.00
90-110	251.29	N.A.	5.00
90-120	348.73	N.A.	6.90
90-130	423.66	N.A.	8.40
90-150	508.25	N.A.	10.10
90-180	531.41	N.A.	10.60
110-180	280.12	N.A.	5.60
0-180	5021.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	155.43
10-20	445.20
20-30	662.46
30-40	769.50
40-50	760.75
50-60	657.96
60-70	501.16
70-80	335.08
80-90	202.97
90-100	134.94
100-110	116.34
110-120	97.44
120-130	74.93
130-140	52.46
140-150	32.13
150-160	16.39
160-170	5.89
170-180	0.87

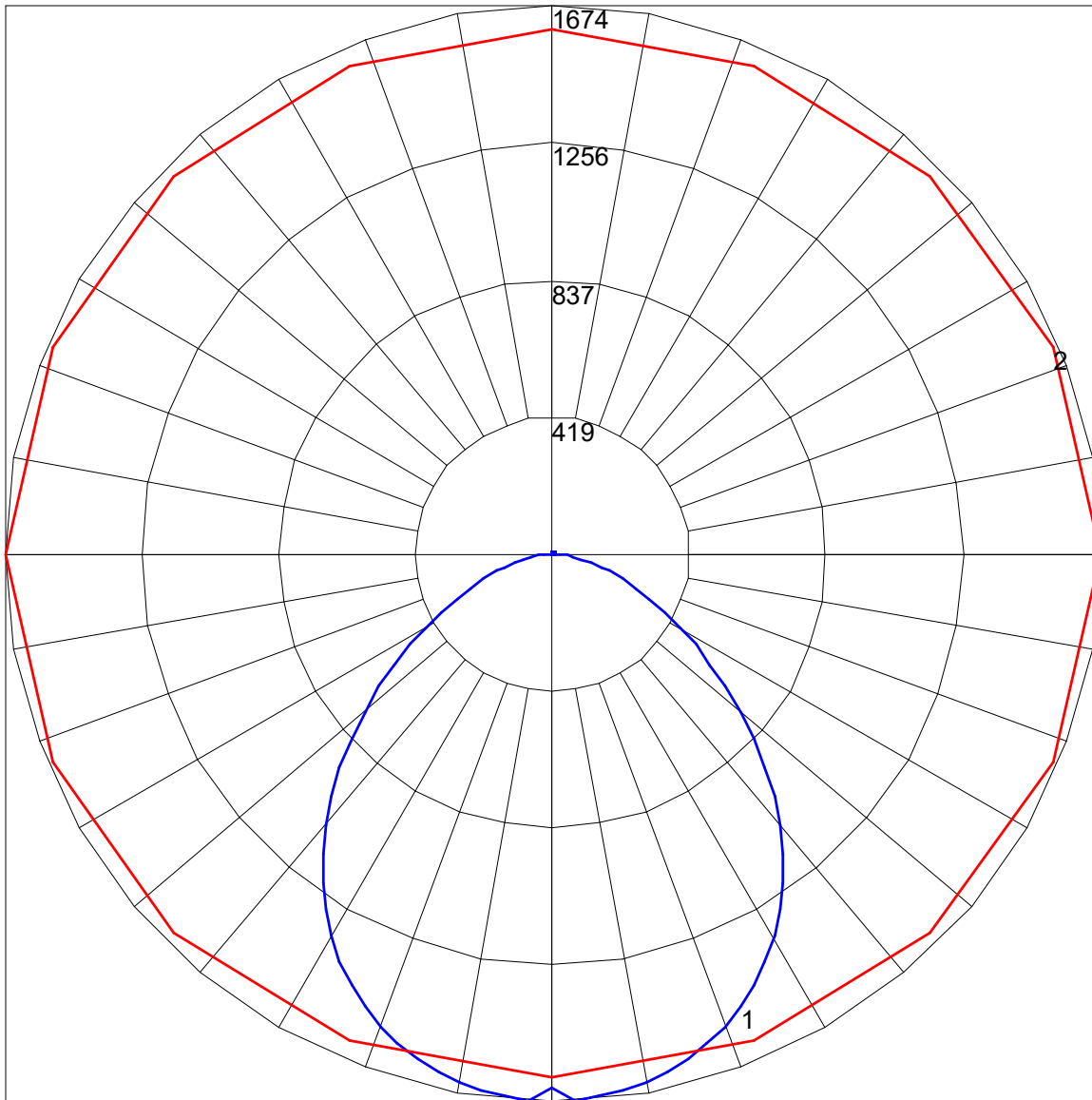
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	92	92	92	89
1	106	100	96	92	102	97	93	89	91	88	85	85	83	80	80	78	76	73
2	96	88	81	75	92	85	78	73	79	74	70	75	70	67	70	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	51
4	80	68	60	53	77	66	58	52	62	55	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	43	53	47	42	50	45	41	38
6	68	55	46	40	66	54	45	39	51	43	38	48	42	37	45	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	38	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	35	30	26	24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	33	28	24	22

POLAR GRAPH



Maximum Candela = 1674 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)