



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CS-P15-9TW-XXX-POE PR-LW-OF-WH_4000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13257153.14
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 02/09/2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 4CS-P15-9TW-xxx-POE PR-LW-OF-WH (4000k)
 [LUMINAIRE] Square aluminum housing, optics, and trim enclosure
 [LAMP] One white LED
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] INDOOR, DIRECT, DOWNLIGHT
 [_SEARCH_MOUNTING] SURFACE, SUSPENDED, WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1491
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.84
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.21 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	35694	43938	36315
55	28878	31258	29363
65	25235	25618	25509
75	19843	19486	20558
85	11944	10353	12740

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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	1723.678	1723.678	1723.678	1723.678	1723.678
0.5	1759.045	1732.054	1717.163	1711.579	1710.648
1.0	1758.114	1732.054	1717.163	1711.579	1710.648
1.5	1757.184	1731.124	1717.163	1711.579	1709.717
2.0	1756.253	1730.193	1716.232	1710.648	1709.717
2.5	1754.391	1729.262	1714.371	1709.717	1707.856
3.0	1753.461	1726.470	1712.509	1707.856	1706.925
3.5	1750.669	1724.609	1709.717	1705.064	1704.133
4.0	1746.946	1721.817	1707.856	1703.202	1701.341
4.5	1743.223	1719.024	1704.133	1699.479	1698.549
5.0	1739.500	1714.371	1700.410	1695.757	1693.895
5.5	1734.846	1710.648	1696.687	1691.103	1691.103
6.0	1730.193	1705.994	1692.034	1686.449	1687.380
6.5	1724.609	1700.410	1686.449	1682.727	1683.657
7.0	1719.955	1694.826	1681.796	1678.073	1679.004
7.5	1714.371	1689.242	1677.142	1673.420	1675.281
8.0	1708.787	1683.657	1672.489	1668.766	1669.697
8.5	1703.202	1678.073	1666.905	1663.182	1664.112
9.0	1695.757	1671.558	1661.320	1657.597	1658.528
9.5	1690.172	1665.043	1654.805	1652.013	1652.013
10.0	1681.796	1657.597	1648.290	1645.498	1644.567
10.5	1674.350	1650.152	1640.845	1638.052	1637.122
11.0	1665.974	1641.775	1633.399	1630.607	1628.745
11.5	1655.736	1633.399	1625.023	1623.161	1621.300
12.0	1646.429	1624.092	1616.646	1613.854	1611.993
12.5	1636.191	1614.785	1607.339	1605.478	1602.685
13.0	1625.023	1604.547	1598.032	1596.170	1591.517
13.5	1613.854	1593.378	1587.794	1585.002	1581.279
14.0	1600.824	1580.348	1576.625	1573.833	1569.180
14.5	1587.794	1568.249	1564.526	1560.803	1555.219
15.0	1572.903	1554.288	1551.496	1547.773	1542.189
15.5	1558.011	1540.328	1537.536	1533.813	1527.298
16.0	1542.189	1524.506	1521.714	1517.991	1511.476
16.5	1524.506	1508.684	1505.891	1502.169	1493.792
17.0	1506.822	1491.000	1490.069	1485.416	1476.109
17.5	1488.208	1473.317	1472.386	1466.802	1456.564
18.0	1467.732	1453.772	1454.702	1448.187	1435.157
18.5	1445.395	1433.296	1435.157	1427.712	1412.820
19.0	1422.127	1411.890	1415.612	1406.305	1388.622
19.5	1396.067	1389.552	1395.137	1383.037	1362.562
20.0	1369.077	1365.354	1372.800	1359.770	1334.640
20.5	1340.225	1340.225	1349.532	1333.710	1304.858
21.0	1307.650	1313.234	1325.333	1305.788	1273.214
21.5	1274.144	1283.451	1300.204	1276.936	1239.708
22.0	1238.777	1252.738	1274.144	1246.223	1204.341
22.5	1200.618	1221.094	1246.223	1214.579	1168.043
23.0	1161.528	1186.657	1218.302	1181.073	1129.884
23.5	1120.577	1151.290	1188.519	1146.637	1089.863
24.0	1077.764	1114.062	1158.736	1110.339	1049.843
24.5	1034.951	1076.833	1127.092	1073.111	1007.961
25.0	991.208	1036.813	1094.517	1034.021	966.079
25.5	946.534	996.792	1060.081	994.000	923.173
26.0	900.463	954.910	1025.644	953.049	880.081
26.5	853.742	913.307	989.346	912.097	836.151

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4CS-P15-9TW-XXX-POE PR-LW-OF-WH_4000K.IES****CANDELA TABULATION - (Cont.)**

27.0	806.927	870.774	953.049	870.867	792.594
27.5	760.671	827.961	915.820	828.985	751.457
28.0	716.648	785.334	877.940	787.289	708.085
28.5	671.415	743.080	839.409	747.175	665.738
29.0	629.161	701.850	800.970	707.248	625.997
29.5	585.976	661.084	762.346	667.599	585.604
30.0	544.466	621.343	724.373	628.975	546.793
30.5	504.911	581.974	687.703	591.374	509.378
31.0	467.590	543.815	649.916	554.332	473.639
31.5	432.036	507.238	613.246	518.686	440.227
32.0	399.368	472.615	577.320	484.808	408.489
32.5	369.306	439.947	542.512	452.698	379.172
33.0	340.920	409.048	509.099	422.357	352.088
33.5	314.953	380.103	476.710	393.691	326.587
34.0	291.778	353.112	446.183	367.073	303.505
34.5	270.093	327.983	417.145	342.037	282.006
35.0	250.641	304.994	389.968	318.862	262.740
35.5	233.329	283.867	364.467	297.455	245.149
36.0	217.600	264.508	340.361	277.817	229.234
36.5	203.547	247.011	318.024	259.575	214.808
37.0	191.075	230.910	297.269	242.823	201.778
37.5	179.813	216.297	277.910	227.466	189.958
38.0	169.855	203.081	259.948	213.691	179.348
38.5	160.920	191.261	243.567	201.034	169.762
39.0	153.102	180.465	228.490	189.679	161.199
39.5	145.936	170.879	214.808	179.348	153.474
40.0	139.700	162.130	202.244	170.041	146.494
40.5	134.116	154.219	190.703	161.665	140.165
41.0	128.904	147.239	180.372	154.126	134.302
41.5	124.343	140.910	170.972	147.425	129.090
42.0	120.155	135.325	162.409	141.282	124.343
42.5	116.432	130.207	154.498	135.605	120.062
43.0	112.895	125.553	147.518	130.579	116.060
43.5	109.731	121.458	141.003	125.832	112.430
44.0	106.846	117.642	135.139	121.551	108.986
44.5	104.147	114.198	129.834	117.642	106.101
45.0	101.541	110.941	124.995	114.012	103.309
45.5	99.121	108.056	120.527	110.662	100.517
46.0	96.794	105.170	116.432	107.497	98.004
46.5	94.560	102.471	112.523	104.519	95.584
47.0	92.420	99.865	108.986	101.820	93.350
47.5	90.279	97.446	105.636	99.121	91.210
48.0	88.325	95.119	102.657	96.608	89.255
48.5	86.463	92.978	99.679	94.281	87.208
49.0	84.602	90.837	96.980	91.954	85.346
49.5	82.740	88.790	94.281	89.814	83.485
50.0	81.065	86.835	91.861	87.766	81.903
50.5	79.390	84.974	89.441	85.905	80.320
51.0	77.807	83.113	87.208	84.043	78.831
51.5	76.318	81.344	85.067	82.275	77.342
52.0	74.736	79.669	82.926	80.600	75.760
52.5	73.247	77.994	80.972	79.017	74.364
53.0	71.851	76.504	79.110	77.435	72.968
53.5	70.455	74.829	77.249	75.853	71.665
54.0	69.152	73.433	75.481	74.364	70.362
54.5	67.849	71.851	73.712	72.968	68.966

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55.0	66.639	70.455	72.130	71.479	67.756
55.5	65.336	68.966	70.455	70.083	66.546
56.0	64.126	67.570	68.873	68.687	65.336
56.5	63.009	66.267	67.290	67.197	64.219
57.0	61.892	64.964	65.708	65.894	62.916
57.5	60.775	63.661	64.219	64.498	61.799
58.0	59.659	62.358	62.823	63.195	60.682
58.5	58.542	60.962	61.334	61.892	59.472
59.0	57.518	59.659	59.845	60.589	58.356
59.5	56.494	58.449	58.449	59.193	57.053
60.0	55.284	57.146	57.053	57.890	55.843
60.5	54.167	55.936	55.750	56.587	54.633
61.0	53.051	54.726	54.354	55.284	53.330
61.5	51.841	53.423	52.957	53.888	52.027
62.0	50.631	52.213	51.654	52.585	50.817
62.5	49.328	51.003	50.258	51.189	49.514
63.0	48.025	49.700	48.955	49.886	48.304
63.5	46.722	48.397	47.652	48.490	47.001
64.0	45.419	47.094	46.256	47.187	45.791
64.5	44.116	45.884	44.953	45.884	44.581
65.0	42.906	44.488	43.557	44.581	43.371
65.5	41.603	43.185	42.254	43.371	42.254
66.0	40.486	41.975	40.951	42.068	41.137
66.5	39.276	40.672	39.648	40.858	39.928
67.0	38.159	39.369	38.438	39.648	38.811
67.5	37.042	38.066	37.135	38.345	37.601
68.0	35.832	36.856	35.925	37.135	36.484
68.5	34.716	35.646	34.716	36.019	35.367
69.0	33.599	34.436	33.506	34.809	34.250
69.5	32.482	33.226	32.389	33.599	33.133
70.0	31.365	32.016	31.179	32.389	32.016
70.5	30.248	30.807	30.062	31.179	30.900
71.0	29.131	29.690	28.852	30.062	29.783
71.5	28.014	28.480	27.735	28.852	28.759
72.0	26.898	27.363	26.711	27.735	27.642
72.5	25.874	26.246	25.595	26.618	26.618
73.0	24.757	25.222	24.478	25.501	25.501
73.5	23.733	24.105	23.454	24.385	24.478
74.0	22.709	22.989	22.337	23.268	23.454
74.5	21.686	21.965	21.313	22.244	22.430
75.0	20.662	20.941	20.290	21.220	21.406
75.5	19.638	19.917	19.266	20.196	20.476
76.0	18.707	18.893	18.335	19.173	19.452
76.5	17.777	17.963	17.404	18.149	18.521
77.0	16.846	16.939	16.381	17.218	17.590
77.5	15.915	16.008	15.450	16.194	16.567
78.0	14.984	15.078	14.519	15.264	15.636
78.5	14.147	14.147	13.681	14.333	14.798
79.0	13.216	13.216	12.751	13.402	13.868
79.5	12.378	12.378	11.913	12.565	13.030
80.0	11.541	11.541	11.075	11.634	12.099
80.5	10.703	10.610	10.238	10.796	11.262
81.0	9.959	9.866	9.400	9.959	10.424
81.5	9.121	9.028	8.563	9.121	9.679
82.0	8.376	8.190	7.818	8.376	8.842
82.5	7.632	7.446	7.073	7.539	8.097

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CANDELA TABULATION - (Cont.)

83.0	6.887	6.701	6.329	6.794	7.353
83.5	6.143	5.957	5.584	6.050	6.608
84.0	5.491	5.305	4.933	5.398	5.863
84.5	4.840	4.654	4.281	4.654	5.212
85.0	4.188	3.909	3.630	4.002	4.467
85.5	3.537	3.257	2.978	3.257	3.816
86.0	2.885	2.699	2.420	2.606	3.071
86.5	2.141	2.048	1.768	1.954	2.234
87.0	1.117	1.303	1.210	1.210	1.210
87.5	0.651	0.838	0.838	0.651	0.651
88.0	0.465	0.558	0.558	0.465	0.465
88.5	0.372	0.372	0.372	0.372	0.372
89.0	0.279	0.279	0.279	0.279	0.279
89.5	0.093	0.186	0.186	0.186	0.186
90.0	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CS-P15-9TW-XXX-POE PR-LW-OF-WH_4000K.IES

CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4CS-P15-9TW-XXX-POE PR-LW-OF-WH_4000K.IES****CANDELA TABULATION - (Cont.)**

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4CS-P15-9TW-XXX-POE PR-LW-OF-WH_4000K.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	592.73	N.A.	39.80
0-30	1054.76	N.A.	70.80
0-40	1266.21	N.A.	84.90
0-60	1419.9	N.A.	95.30
0-80	1485.81	N.A.	99.70
0-90	1490.65	N.A.	100.00
10-90	1329.43	N.A.	89.20
20-40	673.48	N.A.	45.20
20-50	763.89	N.A.	51.20
40-70	197.32	N.A.	13.20
60-80	65.91	N.A.	4.40
70-80	22.28	N.A.	1.50
80-90	4.84	N.A.	0.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1490.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	161.22
10-20	431.51
20-30	462.03
30-40	211.45
40-50	90.40
50-60	63.28
60-70	43.63
70-80	22.28
80-90	4.84
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CS-P15-9TW-XXX-POE PR-LW-OF-WH_4000K.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	113	110	107	105	110	108	105	103	103	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	96	87	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	72	68	64	63
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	62	58	77	67	62	58	66	61	57	65	61	57	64	60	57	55
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CS-P15-9TW-XXX-POE PR-LW-OF-WH_4000K.IES

UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

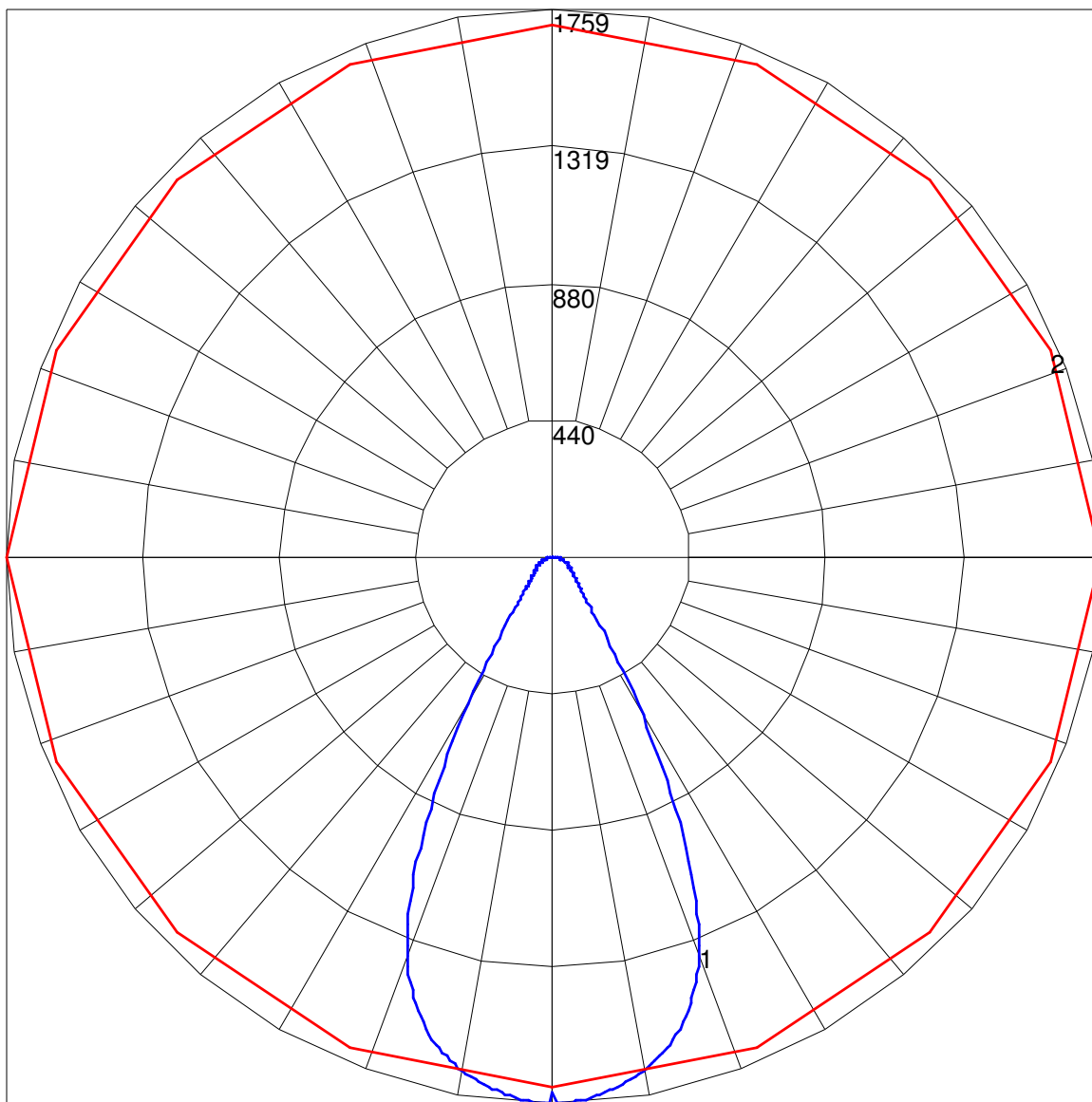
X=2H	Y=2H	19.8	20.9	20.2	21.2	21.6	19.9	21.0	20.3	21.3	21.7
	3H	21.3	22.3	21.7	22.6	23.0	21.4	22.4	21.8	22.7	23.1
	4H	21.8	22.7	22.2	23.0	23.4	21.9	22.8	22.3	23.1	23.5
	6H	22.1	22.9	22.5	23.3	23.7	22.2	23.0	22.6	23.4	23.8
	8H	22.1	22.9	22.6	23.3	23.7	22.3	23.1	22.7	23.4	23.9
	12H	22.2	22.9	22.6	23.3	23.7	22.3	23.0	22.7	23.4	23.9

UGR Viewed Endwise

4H	2H	20.3	21.2	20.7	21.5	21.9	20.3	21.3	20.8	21.6	22.0
	3H	21.9	22.7	22.4	23.1	23.5	22.0	22.8	22.4	23.2	23.6
	4H	22.5	23.2	23.0	23.6	24.0	22.6	23.3	23.1	23.7	24.1
	6H	22.9	23.5	23.4	23.9	24.4	23.0	23.6	23.5	24.0	24.5
	8H	23.0	23.5	23.5	24.0	24.5	23.1	23.7	23.6	24.1	24.6
	12H	23.1	23.5	23.5	24.0	24.5	23.2	23.6	23.7	24.1	24.6
8H	4H	22.7	23.2	23.1	23.6	24.1	22.8	23.3	23.2	23.7	24.2
	6H	23.2	23.6	23.7	24.1	24.6	23.3	23.7	23.8	24.2	24.7
	8H	23.3	23.7	23.9	24.2	24.7	23.4	23.8	24.0	24.3	24.8
	12H	23.4	23.7	23.9	24.2	24.8	23.5	23.8	24.0	24.3	24.9
12H	4H	22.6	23.1	23.1	23.6	24.1	22.7	23.2	23.2	23.7	24.2
	6H	23.2	23.5	23.7	24.0	24.6	23.3	23.6	23.8	24.1	24.7
	8H	23.3	23.7	23.9	24.2	24.8	23.5	23.8	24.0	24.3	24.9

Maximum UGR = 24.9

POLAR GRAPH



Maximum Candela = 1759.045 Located At Horizontal Angle = 0, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)