

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 2AR-L15-930-DIM-UNV-RW-OF-WH (45° TILT)_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 13257190.06

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 2020-03-23

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] 2AR-L15-930-DIM-UNV-RW-OF-WH (45° TILT)

[LUMINAIRE] Aluminum housing, optics, and trim enclosure

[LAMP] One white LED

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Commercial, Healthcare, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	623
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	22
Total Luminaire Watts	27.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	3.06
Spacing Criterion (90-270)	1.68
Spacing Criterion (Diagonal)	1.80
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.21 ft (Diameter)
Luminous Width (90-270)	0.21 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	784470	21484	22469
55	128484	14955	22671
65	16179	12002	18238
75	7397	7397	11240
85	6845	5135	7132

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 2AR-L15-930-DIM-UNV-RW-OF-WH (45° TILT).IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	48.316	48.316	48.316	48.316	48.316	48.316	48.316	48.316	48.316
0.5	47.609	48.080	48.473	48.709	48.630	48.709	48.552	48.159	47.609
1.0	47.687	48.159	48.552	48.630	48.630	48.787	48.630	48.159	47.609
1.5	47.766	48.316	48.552	48.630	48.630	48.866	48.709	48.237	47.766
2.0	48.002	48.473	48.630	48.630	48.630	48.944	48.787	48.394	47.923
2.5	48.316	48.709	48.709	48.630	48.630	48.944	48.944	48.552	48.080
3.0	48.630	49.023	48.866	48.630	48.630	49.023	49.023	48.709	48.316
3.5	49.102	49.416	49.023	48.630	48.630	49.102	49.180	48.866	48.473
4.0	49.651	49.887	49.180	48.630	48.630	49.102	49.259	49.102	48.709
4.5	50.359	50.437	49.416	48.630	48.552	49.180	49.416	49.337	49.023
5.0	51.144	51.144	49.651	48.630	48.552	49.259	49.573	49.573	49.259
5.5	52.165	51.930	49.966	48.552	48.552	49.337	49.809	49.809	49.573
6.0	53.344	52.873	50.280	48.630	48.552	49.494	49.966	50.123	49.887
6.5	54.679	53.894	50.673	48.630	48.552	49.573	50.123	50.437	50.280
7.0	56.172	55.072	51.144	48.630	48.552	49.651	50.359	50.830	50.908
7.5	57.901	56.329	51.616	48.709	48.552	49.651	50.594	51.380	52.087
8.0	59.943	57.822	52.087	48.709	48.473	49.809	50.987	52.323	53.422
8.5	61.986	59.472	52.637	48.787	48.473	49.887	51.380	53.580	54.679
9.0	64.421	61.279	53.265	48.787	48.473	49.966	52.008	54.758	55.858
9.5	67.014	63.164	53.894	48.866	48.473	50.123	52.873	55.858	56.644
10.0	69.921	65.285	54.601	48.866	48.552	50.280	53.815	56.722	57.115
10.5	73.142	67.564	55.308	48.944	48.552	50.516	54.837	57.429	57.508
11.0	76.834	70.078	56.094	48.944	48.552	50.908	55.936	57.822	57.743
11.5	80.841	72.827	56.879	49.023	48.552	51.301	56.801	58.136	57.822
12.0	85.162	75.813	57.665	49.023	48.552	51.851	57.586	58.293	58.058
12.5	90.425	79.034	58.450	49.023	48.630	52.480	58.136	58.529	58.529
13.0	96.003	82.569	59.236	49.023	48.630	53.187	58.686	58.922	59.000
13.5	102.681	86.576	60.100	49.023	48.709	53.972	59.000	59.236	59.393
14.0	110.223	90.818	60.964	49.023	48.787	54.758	59.158	59.472	59.707
14.5	119.415	95.610	61.829	49.023	48.866	55.701	59.315	59.786	59.943
15.0	129.864	101.110	62.771	49.023	48.944	56.565	59.550	60.100	60.100
15.5	141.884	107.316	63.636	48.944	49.180	57.429	59.707	60.100	60.257
16.0	155.946	114.073	64.657	48.944	49.337	58.372	59.865	60.257	60.650
16.5	172.445	121.772	65.521	48.866	49.651	59.079	60.022	60.336	60.964
17.0	192.007	130.728	66.464	48.787	49.887	59.865	60.100	60.415	61.279
17.5	214.868	140.784	67.485	48.709	50.280	60.415	60.257	60.807	61.750
18.0	241.030	152.411	68.349	48.630	50.594	60.964	60.257	61.279	62.300
18.5	271.040	165.688	69.371	48.552	51.066	61.436	60.257	61.750	62.928
19.0	304.979	179.751	70.392	48.473	51.537	61.672	60.336	62.221	63.321
19.5	342.925	196.013	71.335	48.394	52.008	62.064	60.336	62.693	63.714
20.0	384.327	213.768	72.277	48.237	52.637	62.221	60.415	63.164	64.343
20.5	431.465	233.330	73.377	48.159	53.265	62.457	60.572	63.636	64.893
21.0	478.995	254.542	74.477	48.080	53.894	62.536	60.807	64.107	65.442
21.5	528.647	278.032	75.577	48.002	54.601	62.614	61.043	64.657	65.835
22.0	585.683	302.544	76.677	47.923	55.387	62.693	61.357	65.128	66.228
22.5	648.533	329.177	77.777	47.766	56.172	62.771	61.672	65.600	66.699
23.0	715.232	358.480	78.955	47.687	56.958	62.693	62.064	66.071	67.249
23.5	785.624	389.198	80.134	47.687	57.743	62.693	62.457	66.542	67.956
24.0	857.116	422.352	81.391	47.609	58.529	62.693	62.850	67.092	68.428
24.5	928.608	457.312	82.726	47.530	59.315	62.614	63.321	67.564	68.978
25.0	1002.456	493.608	83.905	47.530	60.022	62.693	63.714	68.192	69.685
25.5	1077.876	529.904	85.083	47.530	60.729	62.693	64.107	68.664	70.235
26.0	1154.082	568.399	86.419	47.609	61.200	62.693	64.500	69.292	70.863
26.5	1232.644	609.094	87.597	47.687	61.672	62.693	64.893	69.842	71.570

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 2AR-L15-930-DIM-UNV-RW-OF-WH (45° TILT).IES

CANDELA TABULATION - (Cont.)

27.0	1308.850	649.554	88.854	47.766	62.143	62.850	65.128	70.392	72.120
27.5	1384.270	688.207	90.033	47.923	62.457	62.928	65.600	70.942	72.827
28.0	1458.904	730.945	91.132	48.080	62.614	63.007	65.835	71.492	73.377
28.5	1532.753	770.226	92.311	48.316	62.771	63.007	66.228	72.042	73.927
29.0	1602.673	813.121	93.018	48.552	62.771	62.928	66.542	72.513	74.556
29.5	1671.023	854.759	93.725	48.709	62.614	62.928	66.935	73.063	75.184
30.0	1738.586	894.040	94.275	48.944	62.457	62.850	67.407	73.534	75.577
30.5	1802.222	935.678	94.903	49.180	62.221	62.693	67.721	74.084	76.284
31.0	1862.715	971.817	95.375	49.337	61.829	62.536	68.114	74.556	76.834
31.5	1917.709	1010.313	95.532	49.573	61.514	62.379	68.506	75.027	77.384
32.0	1970.346	1044.880	95.610	49.651	61.043	62.221	68.821	75.420	77.934
32.5	2021.411	1077.876	95.610	49.809	60.493	61.986	69.213	75.891	78.405
33.0	2066.977	1112.444	95.453	49.887	60.100	61.907	69.449	76.363	78.877
33.5	2110.972	1139.941	95.139	49.887	59.629	61.829	69.763	76.834	79.427
34.0	2149.468	1170.580	94.432	49.809	59.079	61.829	70.078	77.148	79.898
34.5	2184.821	1194.934	93.646	49.730	58.529	61.672	70.392	77.541	80.369
35.0	2218.603	1216.146	92.625	49.573	57.901	61.672	70.706	78.012	80.998
35.5	2249.242	1237.358	91.368	49.337	57.429	61.593	71.020	78.405	81.469
36.0	2275.953	1250.714	89.954	49.102	56.879	61.514	71.335	78.798	81.862
36.5	2301.093	1262.498	88.304	48.787	56.329	61.593	71.649	79.191	82.255
37.0	2321.520	1268.783	86.654	48.473	55.779	61.593	71.963	79.584	82.648
37.5	2340.375	1270.354	84.612	48.159	55.308	61.750	72.277	80.055	83.040
38.0	2353.730	1267.997	82.491	47.766	54.758	61.907	72.513	80.369	83.433
38.5	2362.372	1256.999	80.212	47.373	54.287	61.986	72.827	80.762	83.748
39.0	2364.729	1242.857	77.620	46.902	53.894	62.143	73.142	81.076	83.983
39.5	2360.015	1220.860	75.027	46.430	53.501	62.221	73.299	81.469	84.219
40.0	2346.660	1194.149	72.435	45.959	53.108	62.300	73.456	81.705	84.376
40.5	2325.448	1162.724	69.685	45.409	52.794	62.379	73.692	81.941	84.612
41.0	2295.594	1125.799	66.935	44.938	52.401	62.379	73.927	82.255	84.769
41.5	2257.098	1084.947	64.264	44.466	52.087	62.457	74.163	82.569	85.005
42.0	2208.390	1039.381	61.829	43.995	51.694	62.536	74.320	82.805	85.162
42.5	2151.039	989.886	59.315	43.602	51.380	62.614	74.399	83.040	85.397
43.0	2085.832	937.250	56.644	43.131	50.987	62.693	74.634	83.276	85.633
43.5	2011.984	883.827	54.365	42.659	50.673	62.693	74.791	83.512	85.869
44.0	1930.279	827.262	52.244	42.267	50.516	62.771	74.949	83.669	86.183
44.5	1844.646	771.876	50.201	41.795	50.359	62.693	75.027	83.905	86.340
45.0	1752.728	715.311	48.002	41.324	50.201	62.693	75.106	84.062	86.497
45.5	1660.024	658.196	46.116	40.852	50.044	62.693	75.106	84.140	86.733
46.0	1560.250	605.559	44.545	40.381	49.809	62.614	75.184	84.219	86.811
46.5	1460.475	552.215	42.895	39.988	49.651	62.457	75.106	84.219	86.811
47.0	1359.130	502.799	41.324	39.517	49.337	62.300	74.949	84.140	86.733
47.5	1257.784	455.034	39.988	39.124	49.102	62.064	74.870	84.062	86.576
48.0	1159.581	408.839	38.731	38.653	48.709	61.907	74.634	83.905	86.419
48.5	1060.593	367.908	37.474	38.181	48.394	61.593	74.320	83.669	86.104
49.0	965.532	327.762	36.374	37.789	48.002	61.200	73.927	83.355	85.790
49.5	875.971	292.881	35.432	37.239	47.609	60.807	73.613	82.883	85.319
50.0	787.981	260.592	34.410	36.767	47.137	60.336	73.142	82.491	84.926
50.5	706.905	231.445	33.468	36.296	46.666	59.865	72.592	81.941	84.376
51.0	632.585	205.991	32.682	35.746	46.116	59.315	72.042	81.391	83.748
51.5	564.000	182.186	31.818	35.275	45.645	58.765	71.335	80.762	83.119
52.0	500.914	161.603	31.032	34.725	45.095	58.136	70.628	79.977	82.412
52.5	443.013	143.062	30.325	34.253	44.466	57.429	69.842	79.269	81.626
53.0	390.769	127.035	29.618	33.703	43.838	56.644	69.056	78.327	80.684
53.5	344.575	112.423	28.990	33.075	43.209	55.858	68.192	77.384	79.819
54.0	302.465	100.089	28.361	32.525	42.502	55.072	67.328	76.363	78.798
54.5	265.934	88.618	27.654	31.975	41.795	54.208	66.307	75.263	77.620

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 2AR-L15-930-DIM-UNV-RW-OF-WH (45° TILT).IES

CANDELA TABULATION - (Cont.)

55.0	232.859	78.877	27.104	31.425	41.088	53.344	65.285	74.320	76.441
55.5	203.869	70.078	26.476	30.796	40.303	52.323	64.185	72.984	75.341
56.0	178.258	62.693	25.847	30.168	39.517	51.380	63.007	71.727	74.006
56.5	156.104	56.094	25.297	29.539	38.731	50.359	61.829	70.628	72.749
57.0	136.227	50.594	24.747	28.911	37.867	49.337	60.650	69.135	71.335
57.5	118.865	45.723	24.197	28.282	37.003	48.316	59.472	67.956	69.999
58.0	103.781	41.324	23.569	27.654	36.217	47.216	58.215	66.542	68.506
58.5	90.582	37.710	23.019	27.025	35.353	46.195	56.958	65.128	67.014
59.0	79.112	34.489	22.469	26.318	34.489	45.016	55.701	63.871	65.600
59.5	69.371	31.739	21.919	25.690	33.625	43.916	54.444	62.379	64.107
60.0	60.807	29.539	21.448	24.983	32.761	42.817	53.187	60.964	62.536
60.5	53.422	27.497	20.898	24.354	31.896	41.717	51.930	59.550	61.122
61.0	47.295	25.768	20.348	23.726	31.032	40.695	50.594	58.058	59.550
61.5	41.874	24.276	19.798	23.097	30.168	39.595	49.337	56.722	58.058
62.0	37.317	23.019	19.248	22.469	29.382	38.496	48.002	55.151	56.565
62.5	33.468	21.919	18.698	21.840	28.518	37.396	46.745	53.737	54.994
63.0	30.247	20.819	18.226	21.212	27.654	36.296	45.488	52.323	53.501
63.5	27.497	19.876	17.677	20.583	26.790	35.275	44.231	50.751	52.008
64.0	25.219	19.012	17.127	19.955	26.004	34.253	42.974	49.494	50.516
64.5	23.254	18.148	16.577	19.326	25.140	33.232	41.717	48.002	49.023
65.0	21.605	17.441	16.027	18.698	24.354	32.211	40.381	46.509	47.530
65.5	20.191	16.734	15.555	18.069	23.569	31.111	39.203	45.173	46.038
66.0	18.934	16.027	15.005	17.441	22.783	30.089	37.867	43.681	44.545
66.5	17.912	15.398	14.455	16.812	21.997	29.147	36.689	42.345	43.131
67.0	16.891	14.691	13.906	16.184	21.212	28.125	35.432	40.931	41.717
67.5	16.027	14.063	13.434	15.555	20.426	27.104	34.253	39.517	40.303
68.0	15.163	13.434	12.884	15.005	19.641	26.083	33.075	38.181	38.967
68.5	14.298	12.884	12.413	14.377	18.855	25.061	31.818	36.767	37.553
69.0	13.591	12.256	11.863	13.748	18.069	24.119	30.639	35.432	36.139
69.5	12.806	11.627	11.392	13.120	17.284	23.097	29.461	34.096	34.803
70.0	12.099	11.077	10.842	12.570	16.577	22.155	28.282	32.682	33.389
70.5	11.392	10.527	10.370	11.941	15.791	21.212	27.104	31.425	31.975
71.0	10.763	9.977	9.899	11.313	15.005	20.191	25.926	30.011	30.561
71.5	10.135	9.427	9.349	10.763	14.298	19.248	24.669	28.754	29.225
72.0	9.427	8.878	8.878	10.213	13.513	18.305	23.490	27.418	27.811
72.5	8.878	8.328	8.406	9.585	12.806	17.362	22.312	26.161	26.476
73.0	8.249	7.778	7.935	9.035	12.020	16.420	21.133	24.904	25.140
73.5	7.699	7.306	7.463	8.485	11.313	15.477	19.955	23.490	23.726
74.0	7.149	6.835	6.992	7.935	10.606	14.534	18.855	22.312	22.469
74.5	6.599	6.364	6.521	7.385	9.820	13.591	17.677	21.055	21.133
75.0	6.049	5.892	6.049	6.913	9.192	12.727	16.577	19.641	19.798
75.5	5.578	5.499	5.578	6.442	8.485	11.784	15.398	18.462	18.541
76.0	5.107	5.028	5.185	5.971	7.856	10.920	14.298	17.205	17.284
76.5	4.792	4.714	4.871	5.578	7.385	10.135	13.356	16.027	16.105
77.0	4.557	4.399	4.557	5.185	6.835	9.506	12.491	15.084	15.163
77.5	4.321	4.164	4.242	4.871	6.364	8.878	11.784	14.141	14.455
78.0	4.085	3.928	4.085	4.635	6.049	8.406	11.156	13.434	13.748
78.5	3.928	3.771	3.850	4.399	5.735	7.935	10.606	12.806	13.120
79.0	3.692	3.535	3.692	4.164	5.421	7.542	10.056	12.177	12.413
79.5	3.457	3.300	3.457	3.928	5.107	7.071	9.506	11.549	11.784
80.0	3.221	3.142	3.221	3.692	4.792	6.678	8.956	10.842	11.077
80.5	3.064	2.907	3.064	3.457	4.478	6.285	8.485	10.213	10.449
81.0	2.828	2.750	2.828	3.221	4.242	5.892	7.935	9.585	9.820
81.5	2.671	2.514	2.671	2.985	3.928	5.499	7.385	8.956	9.113
82.0	2.514	2.357	2.514	2.828	3.614	5.028	6.913	8.328	8.485
82.5	2.278	2.121	2.278	2.593	3.300	4.635	6.364	7.699	7.778

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 2AR-L15-930-DIM-UNV-RW-OF-WH (45° TILT).IES

CANDELA TABULATION - (Cont.)

83.0	2.121	1.964	2.121	2.357	3.064	4.242	5.892	7.071	7.149
83.5	1.964	1.807	1.964	2.200	2.750	3.850	5.421	6.442	6.442
84.0	1.728	1.650	1.728	1.964	2.514	3.457	4.871	5.892	5.735
84.5	1.571	1.414	1.571	1.807	2.200	3.064	4.399	5.264	5.107
85.0	1.885	2.357	1.414	1.571	1.964	2.671	3.928	4.714	4.399
85.5	9.192	6.756	1.257	1.336	1.728	2.278	3.457	4.085	3.692
86.0	26.161	12.884	1.100	1.178	1.414	1.885	2.907	3.535	2.985
86.5	43.759	19.719	1.100	1.021	1.178	1.571	2.435	2.907	2.278
87.0	55.387	24.590	1.178	0.864	0.943	1.178	1.964	2.357	1.571
87.5	59.158	27.811	1.257	0.707	0.707	0.864	1.571	1.807	0.943
88.0	57.743	28.047	1.336	0.550	0.471	0.628	1.100	1.336	0.471
88.5	55.936	26.868	1.414	0.471	0.393	0.550	1.021	1.100	0.314
89.0	53.737	25.768	1.493	0.550	0.393	0.864	1.885	1.571	0.707
89.5	51.380	24.590	1.571	0.628	0.707	1.178	3.457	2.985	2.043
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 2AR-L15-930-DIM-UNV-RW-OF-WH (45° TILT).IES

CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 2AR-L15-930-DIM-UNV-RW-OF-WH (45° TILT).IES

CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 2AR-L15-930-DIM-UNV-RW-OF-WH (45° TILT).IES

CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 2AR-L15-930-DIM-UNV-RW-OF-WH (45° TILT).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	25.40	N.A.	4.10
0-30	111.70	N.A.	17.90
0-40	323.88	N.A.	52.00
0-60	575.93	N.A.	92.40
0-80	617.25	N.A.	99.10
0-90	623.01	N.A.	100.00
10-90	618.10	N.A.	99.20
20-40	298.48	N.A.	47.90
20-50	486.64	N.A.	78.10
40-70	280.94	N.A.	45.10
60-80	41.31	N.A.	6.60
70-80	12.43	N.A.	2.00
80-90	5.76	N.A.	0.90
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	623.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4.90
10-20	20.50
20-30	86.30
30-40	212.18
40-50	188.16
50-60	63.89
60-70	28.89
70-80	12.43
80-90	5.76
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 : 2AR-L15-930-DIM-UNV-RW-OF-WH (45° TILT).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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 2AR-L15-930-DIM-UNV-RW-OF-WH (45° TILT).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

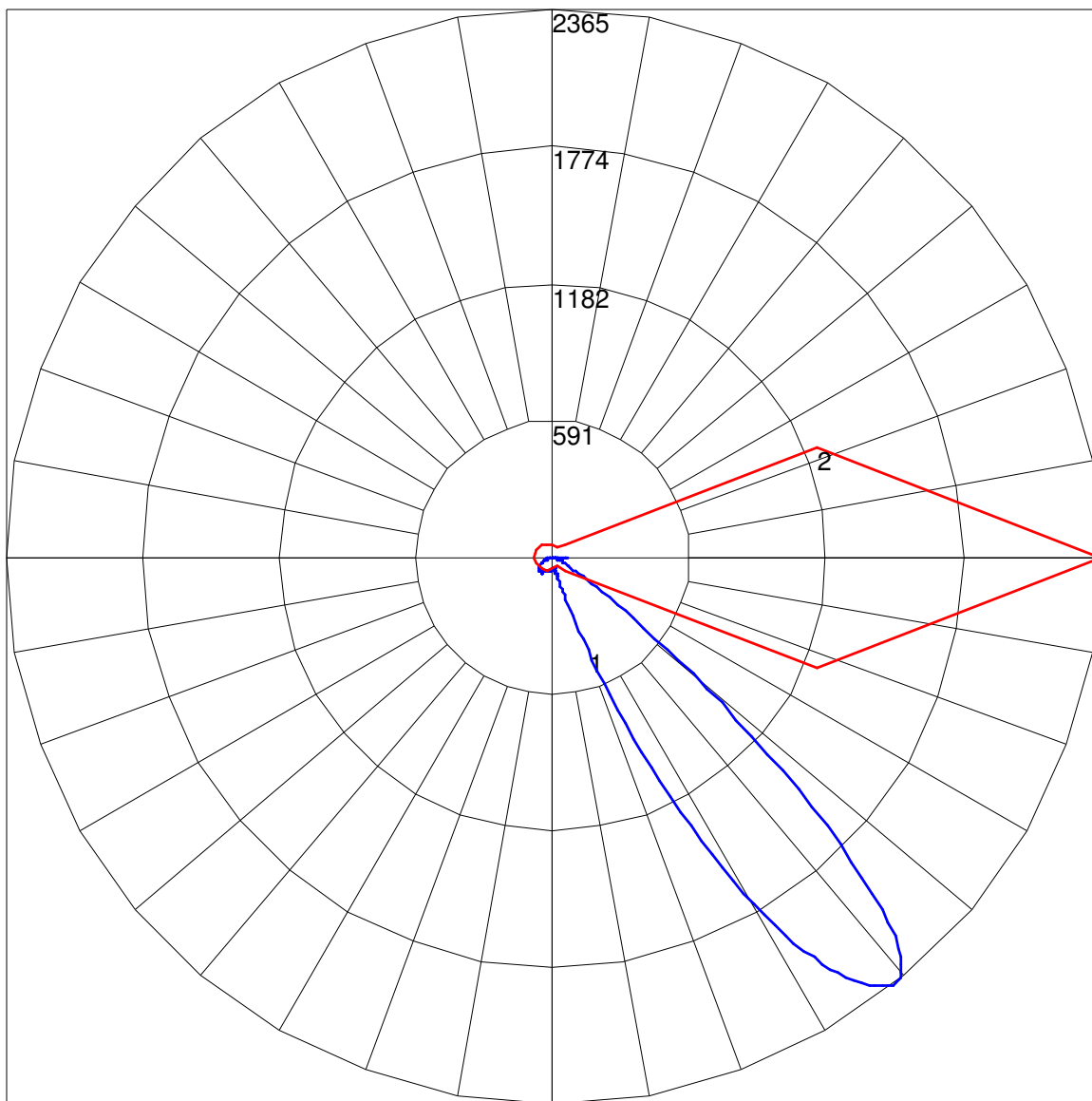
X=2H	Y=2H	21.7	23.2	22.0	23.5	23.8	19.0	20.5	19.4	20.9	21.2
	3H	21.9	23.3	22.3	23.6	24.0	20.3	21.6	20.7	22.0	22.3
	4H	22.0	23.2	22.4	23.6	24.0	20.6	21.9	21.0	22.2	22.6
	6H	22.0	23.1	22.4	23.5	23.9	20.8	21.9	21.2	22.3	22.7
	8H	22.0	23.1	22.4	23.4	23.8	20.8	21.9	21.2	22.3	22.7
	12H	22.0	23.0	22.4	23.4	23.8	20.8	21.9	21.3	22.2	22.7

UGR Viewed Endwise

4H	2H	21.7	22.9	22.1	23.2	23.6	19.8	21.0	20.2	21.4	21.8
	3H	22.0	23.0	22.4	23.4	23.8	21.2	22.2	21.6	22.6	23.0
	4H	22.1	23.0	22.5	23.4	23.8	21.6	22.5	22.0	22.9	23.4
	6H	22.1	22.9	22.6	23.3	23.8	21.8	22.6	22.3	23.0	23.5
	8H	22.1	22.8	22.5	23.3	23.7	21.8	22.6	22.3	23.0	23.5
	12H	22.1	22.7	22.6	23.2	23.7	21.9	22.5	22.4	23.0	23.5
8H	4H	22.0	22.8	22.5	23.2	23.7	21.8	22.6	22.3	23.0	23.5
	6H	22.1	22.7	22.6	23.2	23.6	22.1	22.7	22.6	23.2	23.7
	8H	22.1	22.6	22.6	23.1	23.6	22.2	22.8	22.7	23.3	23.8
	12H	22.1	22.6	22.6	23.1	23.7	22.3	22.8	22.8	23.3	23.8
12H	4H	22.0	22.7	22.5	23.1	23.6	21.8	22.5	22.3	23.0	23.4
	6H	22.0	22.6	22.6	23.1	23.6	22.1	22.7	22.7	23.2	23.7
	8H	22.1	22.5	22.6	23.0	23.6	22.3	22.8	22.8	23.3	23.8

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 2364.729 Located At Horizontal Angle = 0, Vertical Angle = 39
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (39) (Through Max. Cd.)