



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4CS-L15-935-XXX-DIM-UNV-RN-CS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM 13257153.23
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 02/08/2021
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 4CS-L15-935-xxx-DIM-UNV-RN-CS
[LUMINAIRE] Square Aluminum housing, optics, and trim enclosure
[LAMP] One white LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor, Downlight
[SEARCH_MOUNTING] Surface, Suspended, Wall

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1251
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	17.2973
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	0.38
Spacing Criterion (Diagonal)	0.40
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	38587	46666	38898
55	22880	26362	23367
65	17866	16354	17582
75	10033	9339	9570
85	4583	4583	4583

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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	4521.054	4521.054	4521.054	4521.054	4521.054
0.5	4544.358	4510.607	4508.196	4509.803	4513.018
1.0	4525.072	4491.320	4488.106	4489.713	4493.731
1.5	4493.731	4459.980	4458.373	4459.176	4462.391
2.0	4450.337	4417.389	4415.782	4416.586	4420.604
2.5	4396.496	4363.548	4360.334	4361.137	4362.744
3.0	4332.208	4298.456	4293.635	4294.438	4295.242
3.5	4256.669	4222.918	4216.489	4216.489	4217.293
4.0	4169.880	4135.326	4130.504	4128.093	4128.093
4.5	4071.038	4037.286	4030.858	4028.447	4027.643
5.0	3959.337	3928.800	3920.764	3919.157	3916.746
5.5	3837.994	3808.260	3802.635	3801.832	3799.421
6.0	3707.007	3679.684	3678.077	3676.470	3674.863
6.5	3567.984	3544.680	3544.680	3545.483	3543.876
7.0	3425.747	3403.246	3404.853	3409.675	3408.871
7.5	3277.081	3256.991	3261.009	3268.241	3268.241
8.0	3124.397	3105.110	3113.950	3123.593	3126.004
8.5	2970.909	2950.819	2963.677	2977.338	2981.356
9.0	2815.011	2797.332	2814.207	2828.672	2835.101
9.5	2660.720	2644.648	2663.130	2682.417	2688.846
10.0	2505.625	2492.767	2513.661	2534.554	2542.590
10.5	2353.744	2343.298	2366.602	2389.906	2398.746
11.0	2207.489	2197.042	2222.758	2248.473	2257.312
11.5	2062.841	2054.805	2083.735	2109.450	2118.290
12.0	1923.818	1918.193	1947.926	1975.249	1984.892
12.5	1792.028	1787.206	1820.154	1847.476	1855.512
13.0	1668.274	1664.256	1697.203	1725.329	1733.365
13.5	1552.555	1549.341	1580.681	1610.414	1617.647
14.0	1442.462	1440.855	1469.784	1501.125	1506.750
14.5	1337.994	1338.798	1366.924	1396.657	1404.693
15.0	1241.562	1243.973	1271.295	1300.225	1307.457
15.5	1153.970	1156.380	1183.703	1212.632	1217.454
16.0	1074.413	1077.628	1104.146	1130.665	1134.683
16.5	1002.089	1006.911	1031.822	1056.734	1058.341
17.0	935.390	941.819	965.927	988.428	989.232
17.5	876.728	882.353	906.461	925.747	924.944
18.0	823.690	830.119	852.620	869.495	867.084
18.5	776.358	783.590	805.207	818.868	814.850
19.0	733.205	742.044	763.259	773.947	768.483
19.5	695.114	705.159	726.615	732.964	725.892
20.0	661.041	672.452	693.426	696.159	688.846
20.5	631.308	643.041	664.175	662.970	654.371
21.0	604.066	616.602	637.817	633.558	623.031
21.5	579.637	592.655	614.111	606.397	594.744
22.0	556.814	571.360	592.976	581.887	568.868
22.5	536.323	552.154	574.092	560.270	545.243
23.0	517.117	534.314	556.493	540.341	523.626
23.5	499.437	517.759	540.421	521.858	503.455
24.0	482.562	501.687	525.876	504.339	484.330
24.5	466.008	487.062	512.456	488.107	466.329
25.0	449.453	472.919	499.678	472.678	449.614
25.5	433.301	459.016	487.383	457.731	433.221
26.0	417.390	445.034	475.892	443.185	416.747
26.5	401.961	431.372	464.561	429.203	401.157

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CANDELA TABULATION - (Cont.)

27.0	386.532	417.631	453.311	415.622	386.291
27.5	371.585	403.568	442.221	402.202	371.504
28.0	356.638	389.505	431.212	388.701	356.879
28.5	341.932	375.522	420.122	375.281	342.896
29.0	327.708	361.700	408.872	361.941	329.476
29.5	313.886	348.039	397.702	348.762	316.458
30.0	300.627	334.217	386.291	335.583	303.922
30.5	287.930	320.797	374.558	322.967	292.109
31.0	275.956	307.618	362.584	310.511	280.939
31.5	264.786	295.162	350.932	298.618	270.492
32.0	254.420	283.349	339.441	287.126	260.286
32.5	244.696	272.099	328.030	276.358	250.402
33.0	233.928	261.491	316.859	266.152	241.482
33.5	225.329	251.607	305.770	256.268	232.481
34.0	218.258	242.285	294.841	246.705	224.526
34.5	211.588	233.044	283.912	237.946	216.570
35.0	204.436	223.722	273.304	229.669	209.659
35.5	198.570	215.606	262.938	221.713	203.070
36.0	193.427	208.454	252.893	214.240	196.802
36.5	188.605	201.704	243.250	206.927	191.096
37.0	183.783	195.275	234.008	200.096	185.391
37.5	179.122	189.007	225.490	193.668	180.247
38.0	174.703	183.623	217.133	187.480	175.024
38.5	170.042	178.560	209.257	181.774	170.122
39.0	165.381	173.738	201.864	176.149	165.301
39.5	160.800	168.917	194.712	170.926	160.479
40.0	156.139	164.336	187.962	165.783	155.738
40.5	151.318	159.836	181.694	160.881	150.996
41.0	146.577	155.336	175.747	156.059	146.255
41.5	141.835	150.996	170.042	151.479	141.675
42.0	137.094	146.577	164.417	146.978	137.014
42.5	132.433	142.157	158.711	142.478	132.514
43.0	127.692	137.737	153.247	138.058	128.013
43.5	123.112	133.317	147.862	133.719	123.513
44.0	118.611	128.978	142.719	129.380	119.174
44.5	114.192	124.719	137.576	125.121	114.834
45.0	109.772	120.460	132.755	121.022	110.656
45.5	105.593	116.361	128.013	116.924	106.718
46.0	101.495	112.263	123.433	112.825	102.700
46.5	97.316	108.165	119.013	108.888	98.762
47.0	93.539	104.227	114.754	104.950	95.066
47.5	89.842	100.289	110.495	101.173	91.369
48.0	86.146	96.512	106.397	97.557	87.914
48.5	82.851	92.816	102.459	93.941	84.458
49.0	79.556	89.280	98.521	90.485	81.164
49.5	76.342	85.824	94.744	87.110	78.110
50.0	73.610	82.530	91.048	83.896	75.217
50.5	70.797	79.396	87.512	80.762	72.485
51.0	68.306	76.342	84.137	77.788	69.833
51.5	65.815	73.529	80.842	75.056	67.422
52.0	63.565	70.797	77.628	72.324	65.172
52.5	61.475	68.145	74.494	69.672	62.922
53.0	59.386	65.815	71.520	67.181	60.913
53.5	57.698	63.404	68.708	64.851	58.984
54.0	55.931	61.234	65.895	62.600	57.216
54.5	54.404	59.225	63.324	60.511	55.529

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CANDELA TABULATION - (Cont.)

55.0	52.797	57.297	60.833	58.502	53.922
55.5	51.430	55.368	58.422	56.573	52.555
56.0	50.064	53.680	56.091	54.725	50.948
56.5	48.859	51.993	53.922	52.957	49.582
57.0	47.653	50.386	51.752	51.270	48.296
57.5	46.448	48.779	49.743	49.662	47.011
58.0	45.403	47.412	47.814	48.136	45.725
58.5	44.278	45.966	46.046	46.609	44.519
59.0	43.234	44.600	44.278	45.162	43.314
59.5	42.189	43.314	42.591	43.716	42.189
60.0	41.064	41.948	40.903	42.350	40.984
60.5	40.100	40.743	39.376	40.984	39.859
61.0	39.055	39.457	37.930	39.698	38.734
61.5	38.010	38.251	36.564	38.412	37.608
62.0	36.885	37.126	35.198	37.126	36.483
62.5	35.841	35.921	33.912	35.841	35.358
63.0	34.796	34.796	32.626	34.635	34.233
63.5	33.590	33.590	31.340	33.430	33.108
64.0	32.546	32.465	30.135	32.305	31.983
64.5	31.421	31.340	28.930	31.099	30.939
65.0	30.376	30.215	27.805	29.974	29.894
65.5	29.331	29.090	26.680	28.849	28.849
66.0	28.287	27.965	25.635	27.724	27.724
66.5	27.162	26.840	24.510	26.599	26.680
67.0	26.197	25.796	23.545	25.554	25.715
67.5	25.153	24.751	22.501	24.510	24.751
68.0	24.108	23.706	21.536	23.385	23.706
68.5	23.063	22.662	20.572	22.340	22.662
69.0	22.099	21.617	19.688	21.376	21.617
69.5	21.135	20.653	18.724	20.331	20.653
70.0	20.090	19.688	17.840	19.367	19.688
70.5	19.126	18.644	16.876	18.402	18.724
71.0	18.081	17.679	16.072	17.438	17.760
71.5	17.117	16.715	15.268	16.474	16.795
72.0	16.152	15.751	14.384	15.509	15.831
72.5	15.188	14.867	13.581	14.626	14.867
73.0	14.304	13.902	12.777	13.742	13.902
73.5	13.340	13.018	11.974	12.858	12.938
74.0	12.295	12.215	11.250	11.974	11.974
74.5	11.411	11.331	10.447	11.090	11.009
75.0	10.447	10.447	9.724	10.286	9.965
75.5	9.322	9.643	9.000	9.402	8.920
76.0	8.197	8.679	8.357	8.599	7.795
76.5	7.072	7.875	7.715	7.715	7.152
77.0	5.866	6.911	7.072	6.831	6.429
77.5	5.063	6.107	6.509	6.188	5.706
78.0	4.741	5.304	5.947	5.625	5.063
78.5	4.500	4.822	5.384	4.982	4.581
79.0	4.259	4.420	4.902	4.500	4.259
79.5	4.018	4.098	4.500	4.098	4.098
80.0	3.857	3.777	4.098	3.857	3.777
80.5	3.536	3.536	3.697	3.616	3.616
81.0	3.295	3.375	3.375	3.375	3.375
81.5	3.054	3.134	3.134	3.134	3.134
82.0	2.813	2.893	2.893	2.893	2.893
82.5	2.652	2.652	2.652	2.732	2.652

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CANDELA TABULATION - (Cont.)

83.0	2.411	2.411	2.411	2.491	2.411
83.5	2.170	2.250	2.170	2.250	2.250
84.0	2.009	2.009	2.009	2.089	2.009
84.5	1.848	1.848	1.848	1.848	1.848
85.0	1.607	1.607	1.607	1.688	1.607
85.5	1.366	1.446	1.446	1.446	1.446
86.0	1.286	1.205	1.286	1.286	1.286
86.5	1.045	1.045	1.125	1.125	1.125
87.0	0.884	0.884	0.884	0.964	0.884
87.5	0.723	0.723	0.723	0.723	0.723
88.0	0.563	0.563	0.563	0.563	0.643
88.5	0.402	0.402	0.402	0.402	0.402
89.0	0.241	0.241	0.321	0.321	0.321
89.5	0.080	0.161	0.161	0.241	0.241
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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CANDELA TABULATION - (Cont.)

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

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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
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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
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	692.99	N.A.	55.40
0-30	912.72	N.A.	73.00
0-40	1061.68	N.A.	84.90
0-60	1208.37	N.A.	96.60
0-80	1248.84	N.A.	99.80
0-90	1250.73	N.A.	100.00
10-90	922.92	N.A.	73.80
20-40	368.69	N.A.	29.50
20-50	462.72	N.A.	37.00
40-70	176.13	N.A.	14.10
60-80	40.48	N.A.	3.20
70-80	11.04	N.A.	0.90
80-90	1.88	N.A.	0.20
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	1250.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	327.81
10-20	365.18
20-30	219.74
30-40	148.95
40-50	94.03
50-60	52.66
60-70	29.44
70-80	11.04
80-90	1.88
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-L15-935-XXX-DIM-UNV-RN-CS.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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	88	93	89	86	90	87	85	88	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	80	84	81	79	77
5	94	86	81	77	93	85	80	76	84	79	76	82	78	75	80	77	74	73
6	90	82	76	72	89	81	76	72	80	75	72	78	74	71	77	73	71	69
7	87	78	73	69	85	77	72	68	76	71	68	75	71	68	74	70	67	66
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63
9	80	71	66	63	79	71	66	62	70	65	62	69	65	62	68	65	62	61
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	59	58

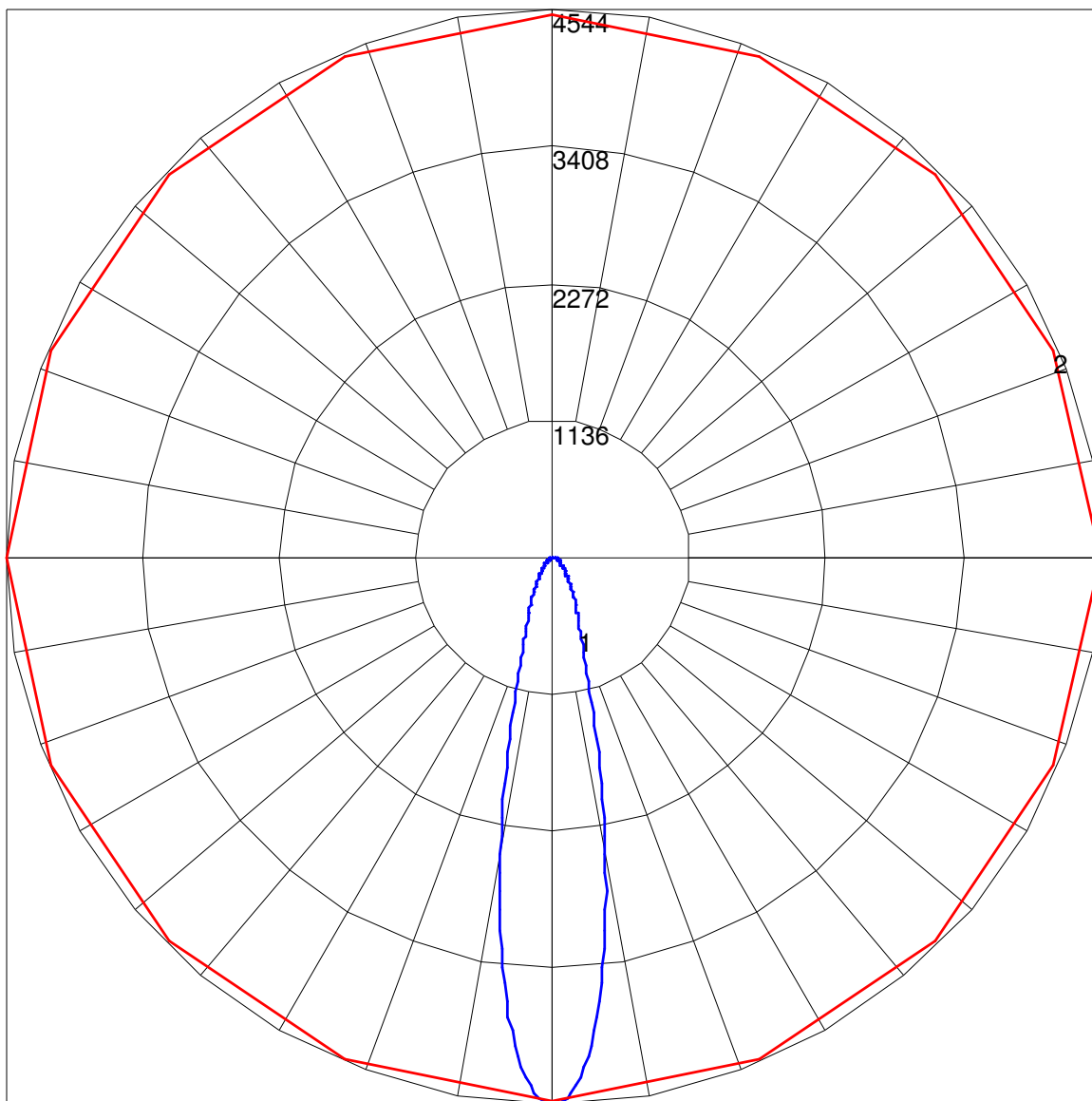
IES INDOOR REPORT
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	18.6	19.7	19.0	20.0	20.4	18.8	19.8	19.1	20.1	20.5
	3H	19.7	20.7	20.1	21.0	21.4	19.8	20.7	20.1	21.1	21.4
	4H	19.9	20.8	20.3	21.2	21.6	19.9	20.9	20.4	21.2	21.6
	6H	19.9	20.7	20.3	21.1	21.5	20.0	20.8	20.4	21.2	21.6
	8H	19.9	20.7	20.3	21.1	21.5	19.9	20.7	20.4	21.1	21.5
	12H	19.9	20.6	20.3	21.0	21.4	19.9	20.7	20.4	21.0	21.5
4H	2H	18.9	19.8	19.3	20.1	20.5	19.0	19.9	19.4	20.2	20.6
	3H	20.1	20.8	20.5	21.2	21.7	20.1	20.9	20.6	21.3	21.7
	4H	20.4	21.0	20.8	21.5	21.9	20.4	21.1	20.9	21.5	21.9
	6H	20.4	21.0	20.9	21.4	21.9	20.5	21.0	20.9	21.5	21.9
	8H	20.4	20.9	20.9	21.4	21.9	20.4	21.0	20.9	21.4	21.9
	12H	20.4	20.8	20.9	21.3	21.8	20.4	20.9	20.9	21.3	21.8
8H	4H	20.4	20.9	20.9	21.4	21.8	20.4	20.9	20.9	21.4	21.8
	6H	20.5	20.9	21.0	21.4	21.8	20.5	20.9	21.0	21.4	21.9
	8H	20.4	20.8	21.0	21.3	21.8	20.5	20.8	21.0	21.4	21.9
	12H	20.5	20.8	21.0	21.3	21.9	20.5	20.8	21.0	21.3	21.9
12H	4H	20.4	20.8	20.8	21.3	21.8	20.4	20.8	20.9	21.3	21.8
	6H	20.4	20.8	20.9	21.2	21.8	20.4	20.8	21.0	21.3	21.8
	8H	20.4	20.8	21.0	21.3	21.8	20.5	20.8	21.0	21.3	21.9

Maximum UGR = 21.9

POLAR GRAPH



Maximum Candela = 4544.358 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.)