



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AX2UD-4-L33-840U-L33-840D-S-AC-DXX-DIM-UNV\_TBX.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 18754.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 07-MAR-2019  
 [MANUFAC]WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 4-56LED 22"ARRAYS 4'SUSPENDED BIDIRECT LUMINAIRE  
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC LENS (TOP & BTM)  
 [MORE] 2 EVERLINE LED DRIVERS #D10CC55UNVT-C  
 [LUMCAT] AX2UD-4-L33-840U-L33-840D-S-AC-Dxx-DIM-UNV  
 [LAMPCAT] HLM 80 CRI 4000K CCT  
 [ \_SEARCH\_SOURCETYPE]LED  
 [ \_SEARCH\_APPLICATION]ARCHITECTURAL,INDOOR,LINEAR,DIRECT-INDIRECT  
 [ \_SEARCH\_MOUNTING]SUSPENDED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6946
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	75
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.84 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16180	16339	16135
55	13700	14484	14344
65	10951	12776	13422
75	7761	11859	14342
85	5531	17147	26734

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	1363.342	1363.342	1363.342	1363.342	1363.342
<b>5</b>	1382.262	1363.342	1351.779	1348.625	1342.319
<b>10</b>	1352.830	1336.012	1334.960	1330.756	1326.551
<b>15</b>	1320.244	1307.631	1306.579	1291.863	1293.966
<b>20</b>	1266.636	1263.482	1249.817	1242.459	1239.306
<b>25</b>	1188.851	1187.799	1172.032	1170.981	1162.572
<b>30</b>	1093.196	1099.503	1090.043	1073.224	1069.020
<b>35</b>	982.825	994.388	985.979	973.365	969.160
<b>40</b>	868.250	878.761	870.352	858.790	860.892
<b>45</b>	748.419	770.493	755.777	745.265	746.316
<b>50</b>	629.639	652.764	644.355	638.048	635.946
<b>55</b>	514.012	543.445	543.445	541.342	538.189
<b>60</b>	408.897	432.023	443.585	451.994	451.994
<b>65</b>	302.731	334.266	353.186	367.902	371.056
<b>70</b>	207.077	247.020	273.299	297.475	302.731
<b>75</b>	131.394	169.235	200.770	234.406	242.816
<b>80</b>	72.529	107.217	142.956	179.747	194.463
<b>85</b>	31.534	62.018	97.757	137.701	152.417
<b>90</b>	6.307	26.279	67.274	110.371	126.138
<b>95</b>	45.199	71.478	118.780	163.979	186.054
<b>100</b>	111.422	126.138	167.133	209.179	225.997
<b>105</b>	186.054	193.412	225.997	261.736	273.299
<b>110</b>	266.992	272.248	298.527	321.652	331.112
<b>115</b>	363.698	366.851	377.363	392.079	394.181
<b>120</b>	482.478	468.813	468.813	473.017	480.376
<b>125</b>	580.235	571.826	561.314	560.263	568.672
<b>130</b>	681.145	674.838	660.122	659.071	648.560
<b>135</b>	805.181	794.669	776.800	781.004	755.777
<b>140</b>	922.910	916.603	892.426	881.915	865.096
<b>145</b>	1034.332	1026.974	1003.848	981.774	984.928
<b>150</b>	1137.344	1140.498	1111.066	1097.401	1090.043
<b>155</b>	1222.487	1226.692	1202.516	1194.106	1176.237
<b>160</b>	1301.324	1303.426	1285.556	1277.147	1266.636
<b>165</b>	1355.983	1362.290	1348.625	1341.267	1334.960
<b>170</b>	1391.723	1399.081	1389.620	1381.211	1382.262
<b>175</b>	1420.104	1430.615	1424.308	1415.899	1410.643
<b>180</b>	1426.411	1426.411	1426.411	1426.411	1426.411

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : AX2UD-4-L33-840U-L33-840D-S-AC-DXX-DIM-UNV\_TBX.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	495.94	N.A.	7.10
0-30	1037.01	N.A.	14.90
0-40	1650.35	N.A.	23.80
0-60	2715.84	N.A.	39.10
0-80	3275.79	N.A.	47.20
0-90	3385.67	N.A.	48.70
10-90	3256.86	N.A.	46.90
20-40	1154.41	N.A.	16.60
20-50	1737.12	N.A.	25.00
40-70	1412.99	N.A.	20.30
60-80	559.95	N.A.	8.10
70-80	212.45	N.A.	3.10
80-90	109.88	N.A.	1.60
90-110	371.37	N.A.	5.30
90-120	749.79	N.A.	10.80
90-130	1257.98	N.A.	18.10
90-150	2491.2	N.A.	35.90
90-180	3560.83	N.A.	51.30
110-180	3189.46	N.A.	45.90
0-180	6946.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	128.81
10-20	367.13
20-30	541.07
30-40	613.34
40-50	582.71
50-60	482.78
60-70	347.50
70-80	212.45
80-90	109.88
90-100	128.17
100-110	243.20
110-120	378.42
120-130	508.20
130-140	603.55
140-150	629.66
150-160	555.26
160-170	379.78
170-180	134.60

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

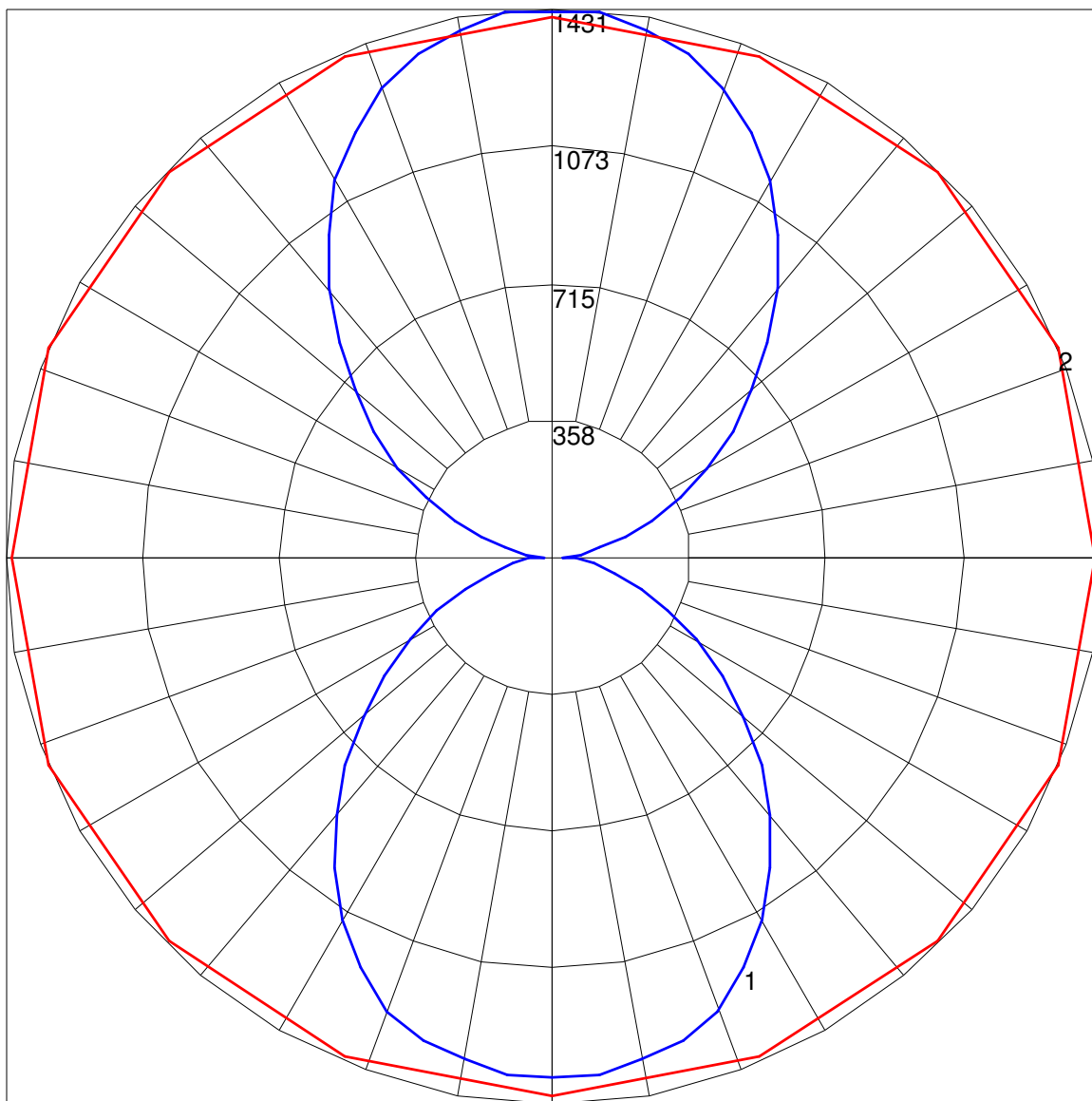
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	97	93	89	85	89	86	82	79	72	70	68	60	58	56	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	53	50	47	43	41	39	34
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	35	33	29
4	74	63	56	50	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	57	49	43	63	53	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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## POLAR GRAPH



Maximum Candela = 1430.615 Located At Horizontal Angle = 22.5, Vertical Angle = 175

# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)